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• Spruzzatore a depressione <i>Vacuum driven liquid sprayer</i>	379
• Capacità per fluidi <i>Fluid dispenser</i>	381



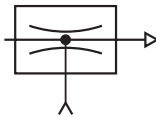
valvole a depressione

vacuum generators



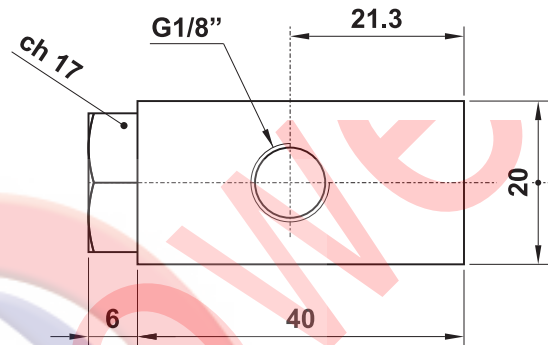
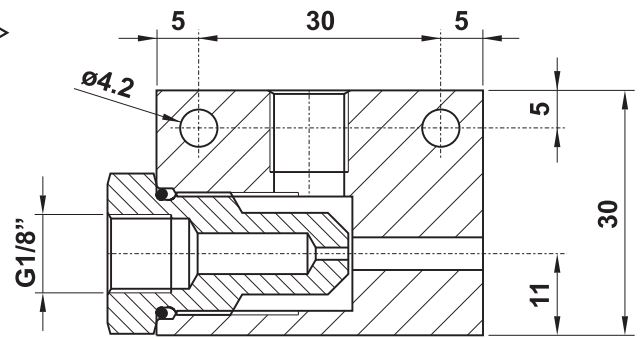
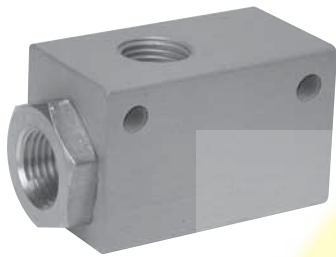
DP 2010 E - 03.020.4

depressore diretto
direct vacuum generator



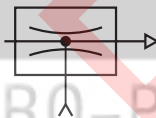
È una valvola di semplice e compatta costruzione che genera il vuoto all'immissione di aria compressa. Il vuoto cessa immediatamente al venir meno del flusso d'aria.

It is a simple valve of compact construction which generates a vacuum when compressed air is applied. The vacuum ceases immediately when the air supply is removed.



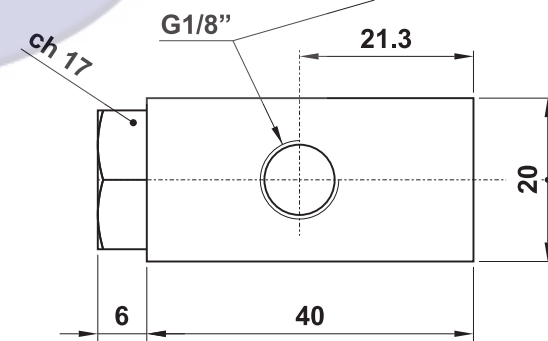
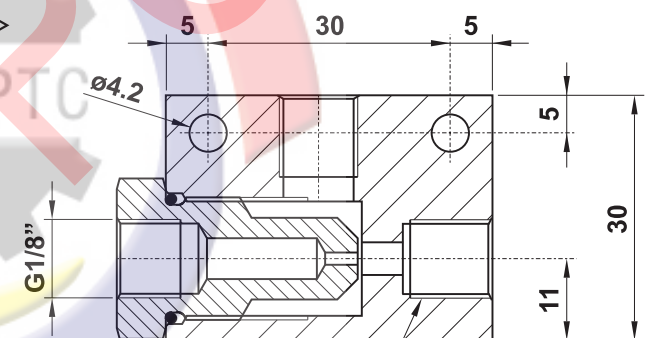
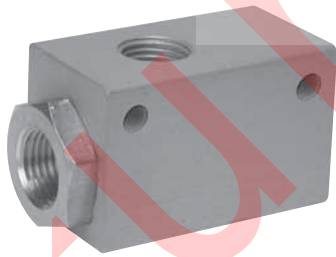
03.020.4/S

depressore diretto con scarico filettato G1/8"
direct vacuum generator with G1/8" thread on exhaust port



È una valvola di semplice e compatta costruzione che genera il vuoto all'immissione di aria compressa. Il vuoto cessa immediatamente al venir meno del flusso d'aria.

It is a simple valve of compact construction which generates a vacuum when compressed air is applied. The vacuum ceases immediately when the air supply is removed.



Può essere utilizzato come generatore di vuoto con le valvole che in questo catalogo sono espressamente indicate come compatibili con il vuoto o con pressioni inferiori a 0 bar.

It can be used as vacuum generator with the valves which are explicitly indicated in this catalogue as suitable for vacuum or for pressures below 0 bar.

Materiali

Corpo: alluminio 11S

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Seals: NBR

Internal parts: brass OT58

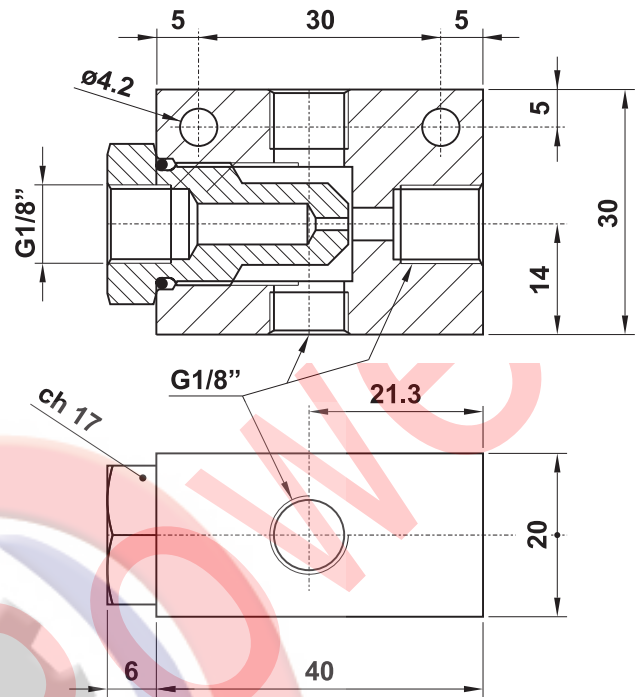
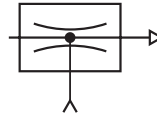
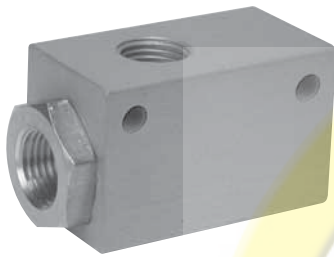
Attacchi Ports	G1/8"
Temperatura di esercizio Temperature range	max +60°C
Pressione di esercizio Working pressure	2 ... 10 bar 0.2 ... 1 MPa
Massimo vuoto ottenibile (a 6 bar) Maximum vacuum capability (at 6 bar)	0.78 bar 0.078 MPa
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

03.017.4

depressore diretto con scarico filettato G1/8" e doppia uscita
direct vacuum generator with G1/8" thread on exhaust port and double exit port

È una valvola di semplice e compatta costruzione che genera il vuoto all'immissione di aria compressa. Il vuoto cessa immediatamente al venir meno del flusso d'aria.

It is a simple valve of compact construction which generates a vacuum when compressed air is applied. The vacuum ceases immediately when the air supply is removed.



Può essere utilizzato come generatore di vuoto con le valvole che in questo catalogo sono espressamente indicate come compatibili con il vuoto o con pressioni inferiori a 0 bar.

It can be used as vacuum generator with the valves which are explicitly indicated in this catalogue as suitable for vacuum or for pressures below 0 bar.

Materiali

Corpo: alluminio 11S

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Seals: NBR

Internal parts: brass OT58

Attacchi <i>Ports</i>	G1/8"
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Massimo vuoto ottenibile (a 6 bar) <i>Maximum vacuum capability (at 6 bar)</i>	0.78 bar 0.078 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

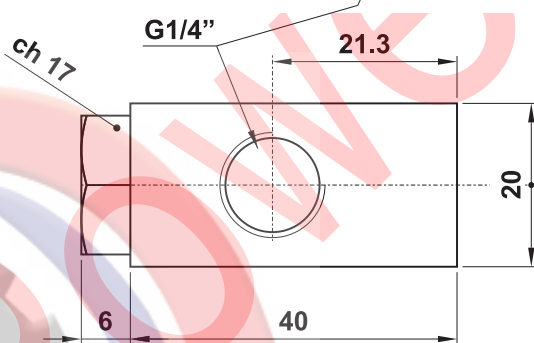
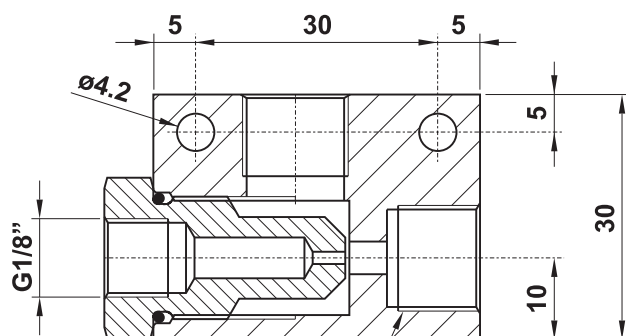
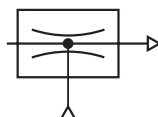
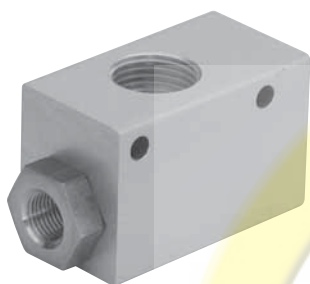
03.026.4

depressore diretto G1/4"

direct vacuum generator with G1/4" port

È una valvola di semplice e compatta costruzione che genera il vuoto all'immissione di aria compressa. Il vuoto cessa immediatamente al venir meno del flusso d'aria.

It is a simple valve of compact construction which generates a vacuum when compressed air is applied. The vacuum ceases immediately when the air supply is removed.



Può essere utilizzato come generatore di vuoto con le valvole che in questo catalogo sono espressamente indicate come compatibili con il vuoto o con pressioni inferiori a 0 bar.

It can be used as vacuum generator with the valves which are explicitly indicated in this catalogue as suitable for vacuum or for pressures below 0 bar.

Materiali

Corpo: alluminio 11S

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Seals: NBR

Internal parts: brass OT58

Attacchi <i>Ports</i>	G1/4"
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Massimo vuoto ottenibile (a 6 bar) <i>Maximum vacuum capability (at 6 bar)</i>	0.78 bar 0.078 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

valvole a depressione

vacuum generators



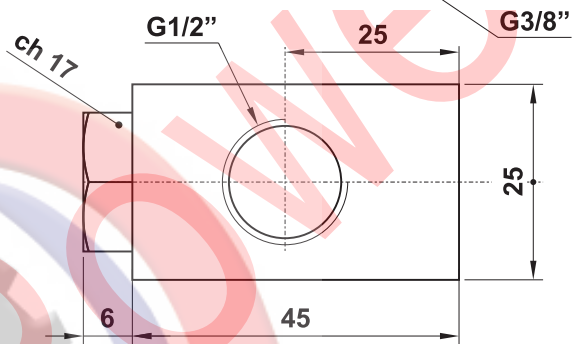
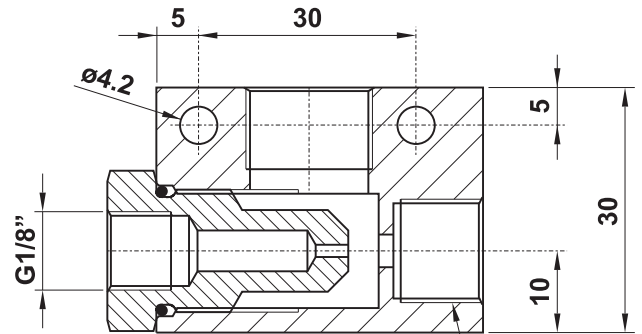
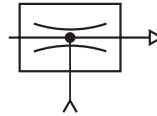
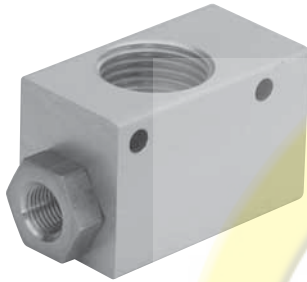
03.043.4

depressore diretto G1/2"

direct vacuum generator with G1/2" port

È una valvola di semplice e compatta costruzione che genera il vuoto all'immissione di aria compressa. Il vuoto cessa immediatamente al venir meno del flusso d'aria.

It is a simple valve of compact construction which generates a vacuum when compressed air is applied. The vacuum ceases immediately when the air supply is removed.



Può essere utilizzato come generatore di vuoto con le valvole che in questo catalogo sono espressamente indicate come compatibili con il vuoto o con pressioni inferiori a 0 bar.

It can be used as vacuum generator with the valves which are explicitly indicated in this catalogue as suitable for vacuum or for pressures below 0 bar.

Materiali

Corpo: alluminio 11S

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Seals: NBR

Internal parts: brass OT58

Attacchi Ports	G1/2" - G3/8"
Temperatura di esercizio Temperature range	max +60°C
Pressione di esercizio Working pressure	2 ... 10 bar 0.2 ... 1 MPa
Massimo vuoto ottenibile (a 6 bar) Maximum vacuum capability (at 6 bar)	0.78 bar 0.078 MPa
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

valvole a depressione

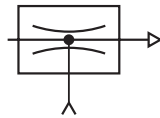
vacuum generators



DP 2018 F - 03.003.4

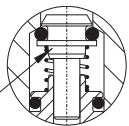
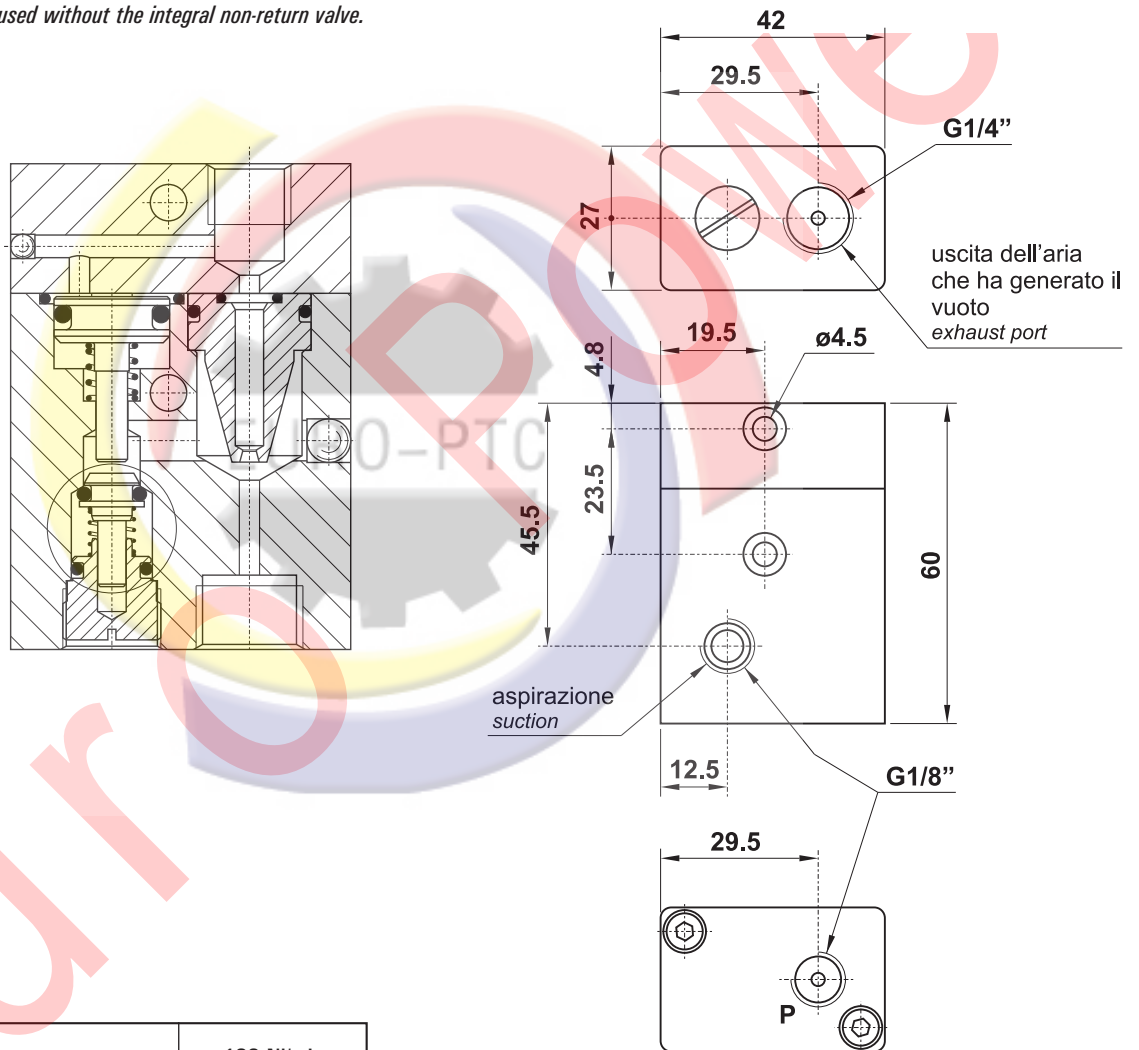
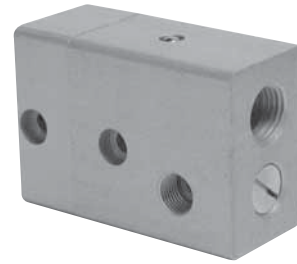
valvola a 2 vie con depressore

two way vacuum generator



È una valvola a due vie che genera il vuoto se alimentata con aria compressa. La valvola di non ritorno integrata permette di mantenere il vuoto anche in mancanza di aria in entrata. Per applicazioni che non richiedono la permanenza del vuoto ma la sua immediata scomparsa al venir meno dell'alimentazione, è possibile asportare la valvola di non ritorno come da schema qui riportato.

This two-way valve with integral non-return valve generates a vacuum when air is applied to the pressure port. For applications that do not require a sustained vacuum the valve can be used without the integral non-return valve.



Valvola di intercettazione del vuoto: fa sì che il vuoto si conservi anche in mancanza di aria al punto P. Togliendo l'otturatore e la molla il vuoto cessa immediatamente al venir meno della pressione al punto P.

Vacuum check valve: it maintains the vacuum when the air at point P has been removed. By removing the poppet valve and the spring, the vacuum will decay when pressure ceases.

Consumo di aria a 6 bar <i>Air consumption at 6 bar</i>	100 NI/min
Capacità di aspirazione a 6 bar <i>Suction capability at 6 bar</i>	16 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Massimo vuoto ottenibile (tra 4 e 8 bar) <i>Maximum vacuum capability (between 4 and 8 bar)</i>	0.75 bar 0.075 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

Materiali
Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Parti interne: ottone OT58

Materials
Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Internal parts: brass OT58

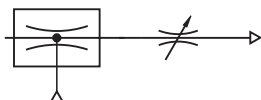
spruzzatore a depressione

vacuum driven liquid sprayer



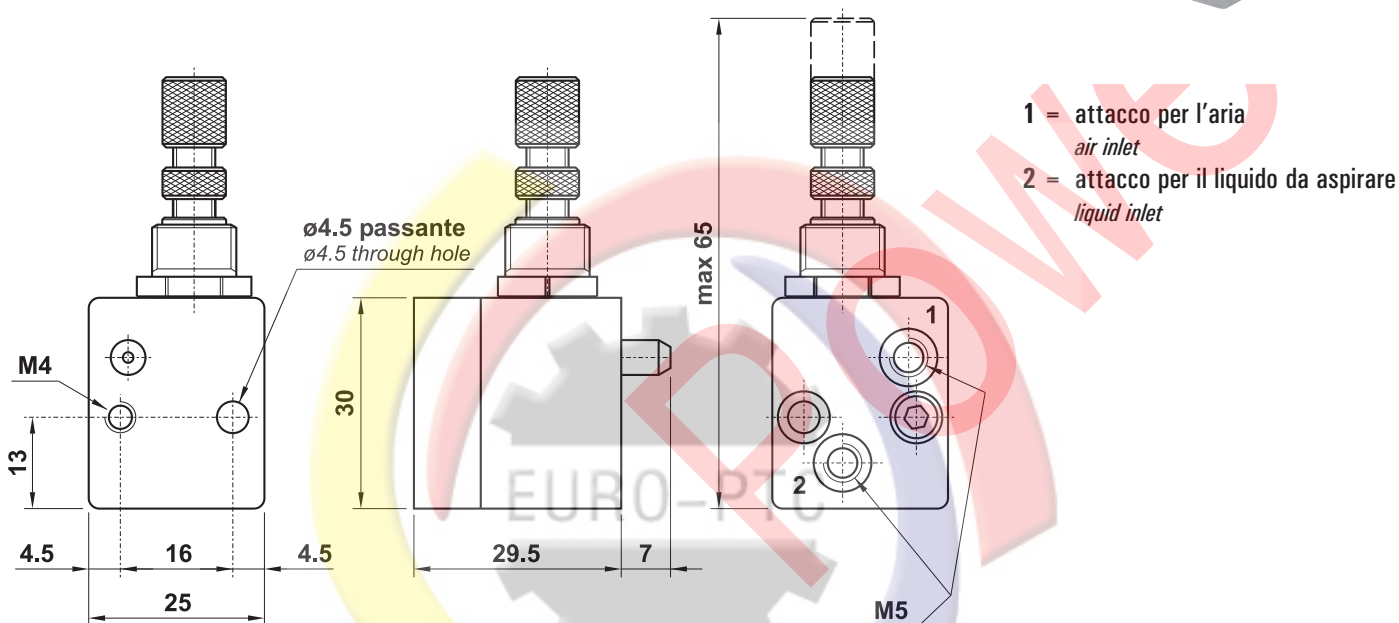
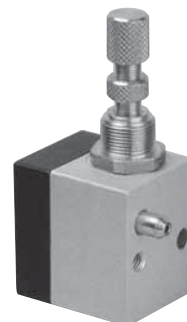
DP 2005

spruzzatore a depressione
vacuum driven liquid sprayer



È una valvola basata sul principio del venturi e primariamente utilizzata per spruzzare e nebulizzare liquido.

This valve works on the venturi principal and is primarily used for air driven liquid spraying applications such as conveyor lubrication and sawing machines.



- 1 = attacco per l'aria
air inlet
- 2 = attacco per il liquido da aspirare
liquid inlet

Consumo di aria con regolatore totalmente aperto:

Air consumption with completely open regulator:

4 bar: 20 NI/min

5 bar: 27 NI/min

6 bar: 37 NI/min

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

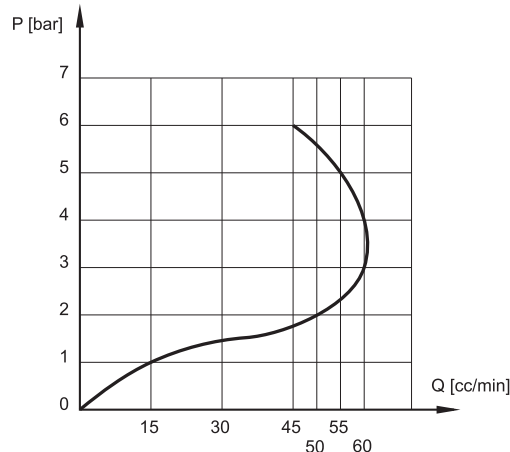
Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

Quantità di liquido aspirato in funzione della pressione di alimentazione
Quantity of liquid in relation to line pressure



Viscosità del liquido <i>Viscosity of liquid</i>	3°E ... 5°E
Attacchi <i>Ports</i>	M5
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	3 ... 8 bar 0.3 ... 0.8 MPa
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

spruzzatore a depressione

vacuum driven liquid sprayer

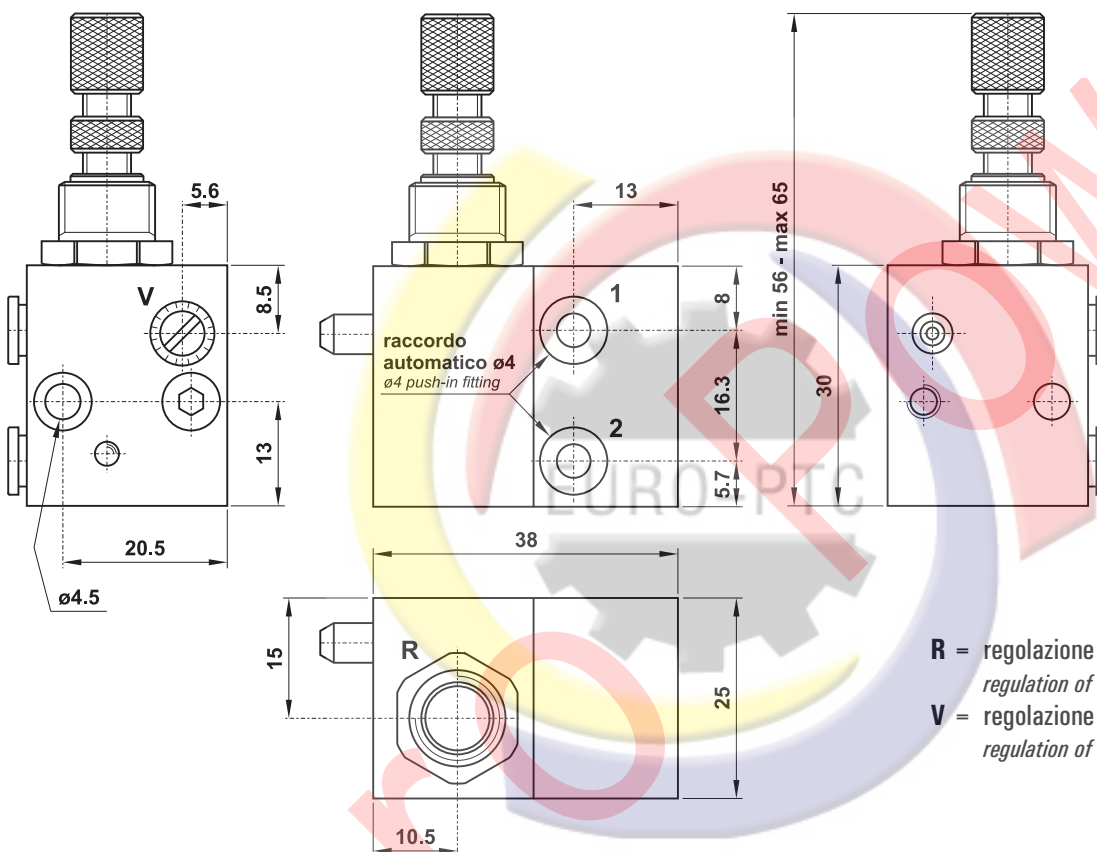
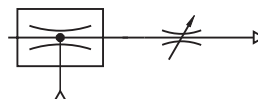


AT.005.4

spruzzatore a depressione con raccordi automatici per tubo $\varnothing 4$
vacuum driven liquid sprayer with push-in fittings for $\varnothing 4$ tube

È una valvola basata sul principio del venturi e primariamente utilizzata per spruzzare e nebulizzare liquido.

This valve works on the venturi principle and is primarily used for air driven liquid spraying applications such as conveyor lubrication and sawing machines.



R = regolazione quantità di liquido aspirato
regulation of sprayed fluid
V = regolazione portata d'aria in entrata
regulation of inlet air

Materiali

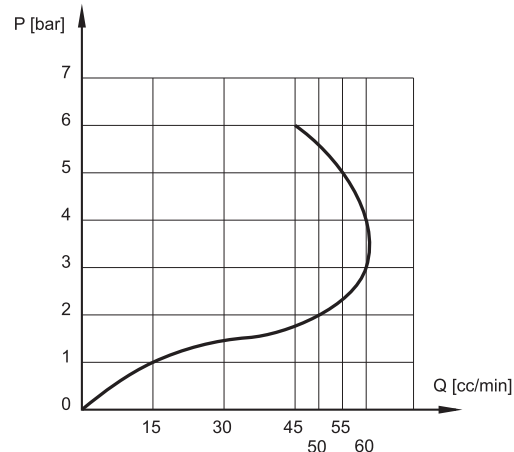
Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Parti interne: ottone OT58

Materials

Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Internal parts: brass OT58

Viscosità del liquido Viscosity of liquid	3°E ... 5°E
Attacchi Ports	automatici $\varnothing 4$ push-in $\varnothing 4$
Temperatura di esercizio Temperature range	max +60°C
Pressione di esercizio Working pressure	3 ... 8 bar 0.3 ... 0.8 MPa
Fluido Fluid	Aria filtrata 50 μ con o senza lubrificazione 50 μ filtered, lubricated or non lubricated air

Quantità di liquido aspirato in funzione della pressione di alimentazione con la vite V totalmente aperta
Quantity of sprayed liquid in relation to line pressure with screw V totally open



capacità per fluidi

fluid dispenser



Questa capacità volumetrica di 1.6 dm³ può essere utilizzata come contenitore di olio idraulico a bassa pressione per l'utilizzo ad esempio con gli spruzzatori di cui alle pagine 379-380. Permette il rifornimento. La pulizia avviene svitando l'apposito tappo di scarico. Installazione verticale. Fissaggio con piedini (inclusi).

This fluid dispenser, with a volume of 1.6 dm³, can be used with oil at low pressure to feed, for example, the vacuum driven liquid sprayers (refer to pages 379-380). It is possible to top up and clean the dispenser. Vertical installation. Foot mountings included.

CODICE DI ORDINAZIONE

ORDER CODE

21.130.4

Materiali

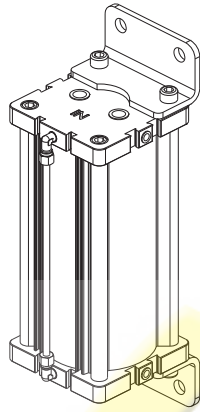
Corpo: alluminio 11S

Guarnizioni: NBR

Materials

Valve body: aluminium 11S

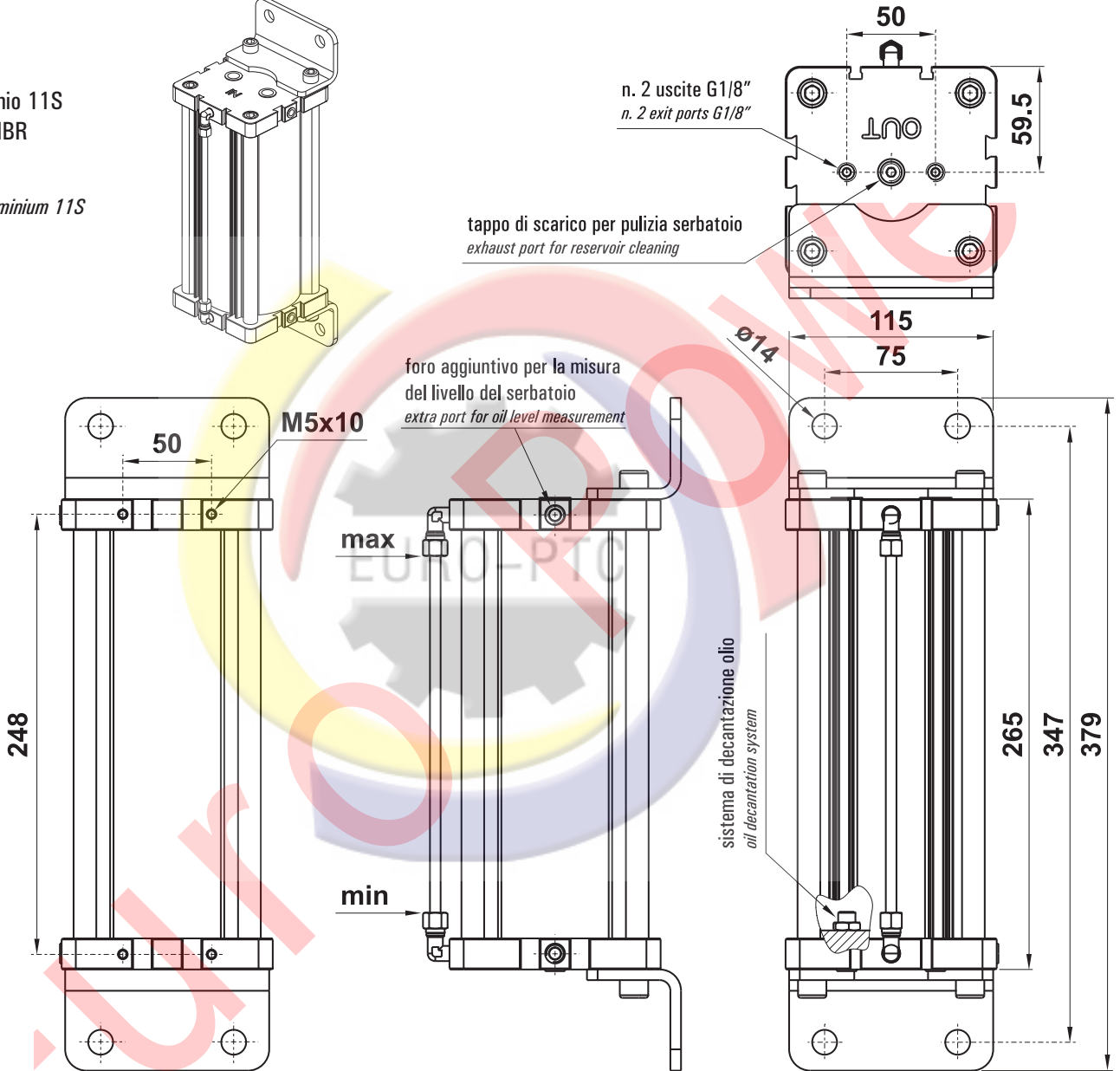
Seals: NBR



n. 2 uscite G1/8"
n. 2 exit ports G1/8"

tappo di scarico per pulizia serbatoio
exhaust port for reservoir cleaning

foro aggiuntivo per la misura del livello del serbatoio
extra port for oil level measurement



Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	0 ... 1 bar 0 ... 0.1 MPa
Fluido <i>Fluid</i>	olio idraulico o altro fluido non aggressivo <i>Hydraulic oil or other non aggressive fluid</i>

EURO-PTC



	pagina page
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• Cilindri senza stelo <i>Rodless cylinders</i>	505
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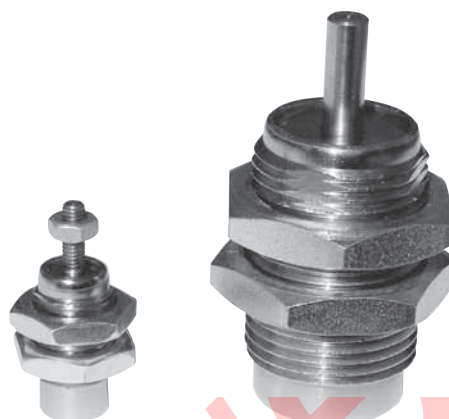


cilindri a cartuccia

cartridge cylinders



- Cilindri a semplice effetto con molla anteriore
Single acting cylinders with front spring
- Non magnetico
Non-magnetic
- Versione con stelo filettato o non filettato
Version with threaded or non-threaded piston rod
- Grande affidabilità e lunga durata
High reliability and long life time



Materiali

Camicia: ottone nichelato

Stelo: INOX

Dadi: acciaio zincato

Guarnizioni: poliuretano

Molla: acciaio

Materials

Barrel: nickel plated brass

Piston-rod: stainless steel

Nuts: zinc coated steel

Sealings: polyurethane

Spring: steel

AVVERTENZE - WARNING

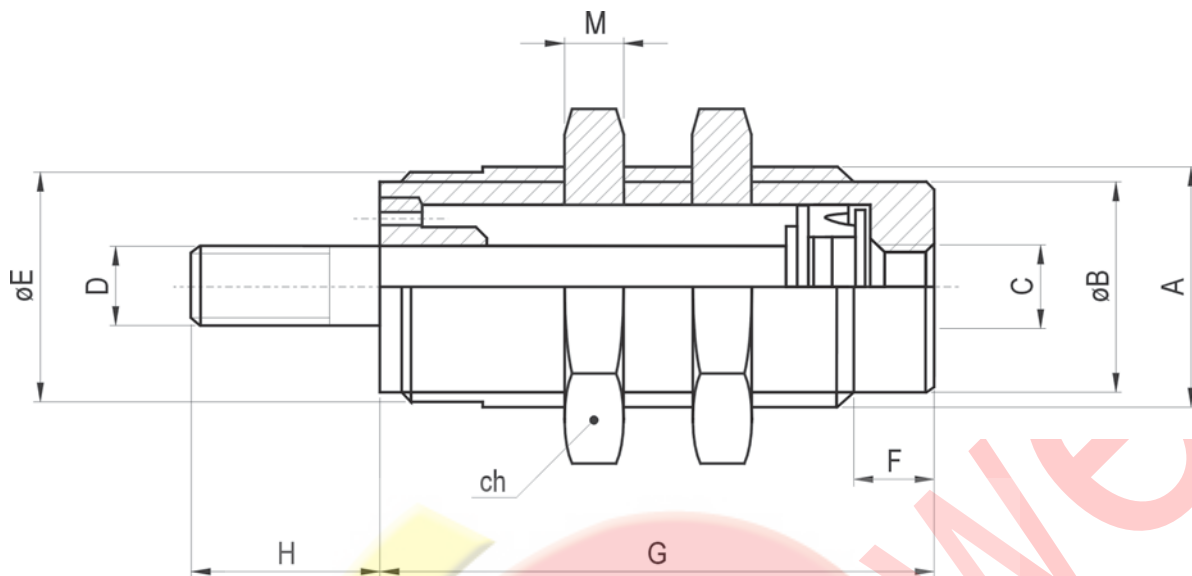
- Evitare carichi radiali sullo stelo
Avoid side loads on the piston rod

- Evitare di caricare lo stelo quando viene richiamato dalla molla
Do not load the piston rod during the spring retraction

Pressione di esercizio <i>Working pressure</i>	2 ... 7 bar 0.2 ... 0.7 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	6; 10; 16 mm
Corse <i>Strokes</i>	5; 10; 15 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

cilindri a cartuccia

cartridge cylinders



alesaggio bore	A	B	C	D		øE	F	H	M	ch	G		
				con stelo filettato threaded piston rod	con stelo non filettato non-threaded piston rod						corsa cilindro [cyl. stroke]		
6	M10x1	8.5	M5	M3	ø3	9	5	8	3	14	5	10	15
10	M15x1.5	13	M5	M4	ø5	14	5	11.5	4	19	20.5	27	34
16	M22x1.5	19	M5	M5	ø5	20	6	14	5	27	23.5	29.5	36

FORZE a 6 bar - forces at 6 bar

alesaggio bore	forza in spinta press force	forza di ritorno della molla return spring force	
		corsa 0 [stroke 0]	fondo corsa [stroke end]
6	12 N	1.2 N	3.8 N
10	35 N	2.7 N	7.3 N
16	101 N	3.3 N	6.6 N

PESI - weights

alesaggio bore	corsa cilindro [cyl. stroke]		
	5	10	15
6	10 g	13 g	15 g
10	27 g	32 g	36 g
16	71 g	78 g	87 g

CODICI DI ORDINAZIONE - order codes

cilindri con stelo filettato - cylinders with threaded piston rod			
alesaggio bore	corsa - stroke		
	5	10	15
6	20.100.4	20.101.4	20.102.4
10	20.103.4	20.104.4	20.105.4
16	20.106.4	20.107.4	20.108.4

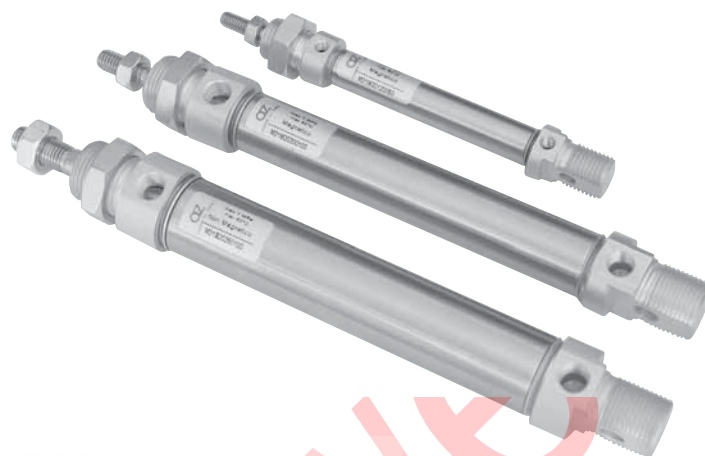
cilindri con stelo non filettato - cylinders with non-threaded piston rod			
alesaggio bore	corsa - stroke		
	5	10	15
6	20.109.4	20.110.4	20.111.4
10	20.112.4	20.113.4	20.114.4
16	20.115.4	20.116.4	20.117.4

microcilindri ISO 6432

minicylinders ISO 6432



- Conformi alla norma ISO 6432
Compliant to norm ISO 6432
- Grande affidabilità e lunga durata
High reliability and long life time
- Versione a doppio effetto, magnetica o non magnetica
Magnetic or non-magnetic double acting version
- Versione a semplice effetto non magnetica
Non-magnetic single acting version
- Esecuzioni speciali a richiesta
Special versions on request



Forze di ritorno della molla per cilindri a semplice effetto

Return spring forces for single acting cylinders

Materiali

Camicia: INOX

Stelo: INOX

Testate: alluminio anodizzato

Guarnizioni: NBR o VITON

Magnete: plastroferrite (non adatto per temperature oltre +60°C)

Materials

Barrel: stainless steel

Piston-rod: stainless steel

End-cups: aluminium (anodize treatment)

Sealings: NBR or VITON

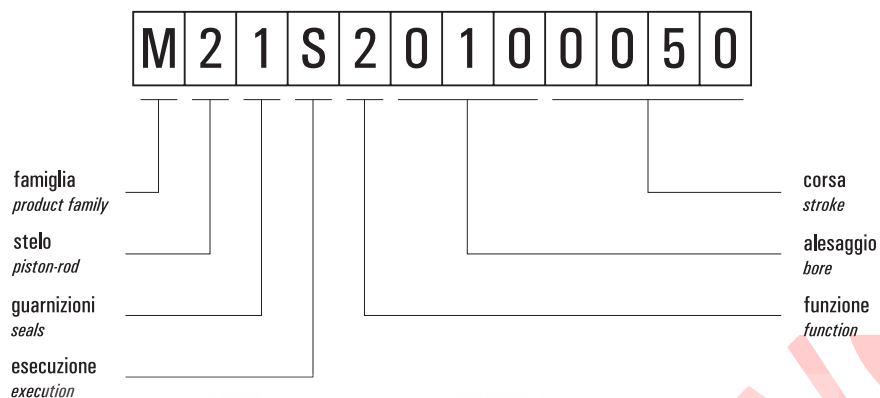
Magnet: magnetic iron compound (not suitable for temperatures over +60°C)

alesaggio <i>bore</i>	forza di ritorno della molla <i>return spring force</i>			stato della molla <i>spring status</i>
	corsa 10 [stroke]	corsa 25 [stroke]	corsa 50 [stroke]	
10	4.1 N	3.5 N	2.6 N	a riposo [at rest]
	4.5 N	4.5 N	4.5 N	compressa [compressed]
12	5.5 N	4.8 N	3.5 N	a riposo [at rest]
	6 N	6 N	6 N	compressa [compressed]
16	16.5 N	13.7 N	9 N	a riposo [at rest]
	18.3 N	18.3 N	18.3 N	compressa [compressed]
20	19 N	15.5 N	9.5 N	a riposo [at rest]
	21.5 N	21.5 N	21.5 N	compressa [compressed]
25	27 N	24 N	13.5 N	a riposo [at rest]
	29 N	29 N	29 N	compressa [compressed]

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	10; 12; 16; 20; 25 mm
Corse <i>Strokes</i>	10 ... 320 mm
Paracolpi meccanici <i>Mechanical cushioning</i>	Standard su tutta la gamma <i>Standard on the whole range</i>
Ammortizzo pneumatico <i>Pneumatic cushioning</i>	Disponibile per alesaggio 20 e 25 <i>Available for bore 20 and 25</i>
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

chiave di codifica

key to codes



Famiglia *[product family]*

M microcilindri ISO 6432 *[minicylinders ISO 6432]*

Stelo *[piston-rod]*

2 INOX *[stainless steel]*

Guarnizioni *[seals]*

1 NBR

2 VITON

Esecuzione *[execution]*

S non magnetico *[non-magnetic]*

M magnetico *[magnetic]*

A non magnetico predisposto per bloccastelo *[non-magnetic with rod lock adaptor]*

B magnetico predisposto per bloccastelo *[magnetic with rod lock adaptor]*

Funzione *[function]*

1 semplice effetto non ammortizzato molla anteriore
[single acting front spring without pneumatic cushioning]

2 doppio effetto non ammortizzato
[double acting without pneumatic cushioning]

3 doppio effetto ammortizzato
[double acting with pneumatic cushioning]

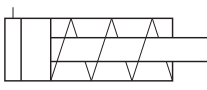
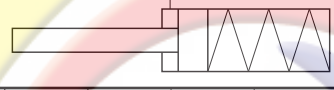
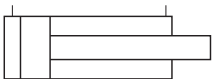
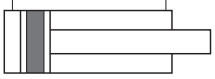
4 doppio effetto non ammortizzato stelo passante
[double acting without pneumatic cushioning, with passing-through rod]

5 doppio effetto ammortizzato stelo passante
[double acting with pneumatic cushioning and passing-through rod]

6 semplice effetto non ammortizzato molla posteriore
[single acting back spring without pneumatic cushioning]

versioni disponibili

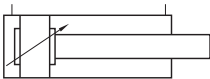
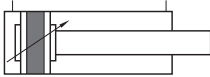
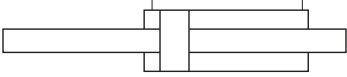
available versions

	alesaggio		10	12	16	20	25			
	corsa	bore								
		stroke								
semplice effetto molla anteriore <i>single acting front spring</i> non magnetico <i>non-magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>									OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>	
	10	X	X	X	X	X				materiale stelo [piston-rod material] INOX <i>stainless steel</i> materiale guarnizioni [seals material] NBR VITON
	25	X	X	X	X	X				
	50	X	X	X	X	X				
semplice eff. molla posteriore <i>single acting back spring</i> non magnetico <i>non-magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>					X	X	X		predisposizione per bloccastelo <i>rod lock adaptor</i> non disponibile per l'alesaggio 10 <i>not available for bore 10</i>	
	10				X	X	X			
	25				X	X	X			
	50				X	X	X			
doppio effetto <i>double acting</i> non magnetico <i>non-magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>									OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>	
	10	X	X	X	X	X	X			materiale stelo [piston-rod material] INOX <i>stainless steel</i> materiale guarnizioni [seals material] NBR VITON predisposizione per bloccastelo <i>rod lock adaptor</i> non disponibile per l'alesaggio 10 <i>not available for bore 10</i>
	25	X	X	X	X	X	X			
	50	X	X	X	X	X	X			
	80	X	X	X	X	X	X			
	100	X	X	X	X	X	X			
	125	X	X	X	X	X	X			
	160	X	X	X	X	X	X			
	200	X	X	X	X	X	X			
	250			X	X	X	X			
320			X	X	X	X				
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>									OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>	
	10	X	X	X	X	X	X			materiale stelo [piston-rod material] INOX <i>stainless steel</i> materiale guarnizioni [seals material] NBR VITON predisposizione per bloccastelo <i>rod lock adaptor</i> non disponibile per l'alesaggio 10 <i>not available for bore 10</i>
	25	X	X	X	X	X	X			
	50	X	X	X	X	X	X			
	80	X	X	X	X	X	X			
	100	X	X	X	X	X	X			
	125	X	X	X	X	X	X			
	160	X	X	X	X	X	X			
	200	X	X	X	X	X	X			
	250			X	X	X	X			
320			X	X	X	X				

6

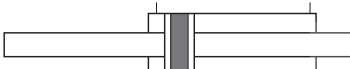
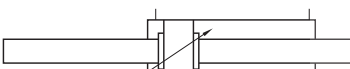

versioni disponibili

available versions

	alesaggio		10	12	16	20	25	
	corsa	bore						
	stroke							
<p>doppio effetto <i>double acting</i></p> <p>non magnetico <i>non-magnetic</i></p> <p>ammortizzato <i>with pneumatic cushioning</i></p> 								<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo [piston-rod material]</p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni [seals material]</p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	10							
	25					X	X	
	50					X	X	
	80					X	X	
	100					X	X	
	125					X	X	
	160					X	X	
	200					X	X	
	250					X	X	
320					X	X		
<p>doppio effetto <i>double acting</i></p> <p>magnetico <i>non-magnetic</i></p> <p>ammortizzato <i>with pneumatic cushioning</i></p> 								<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo [piston-rod material]</p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni [seals material]</p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	10							
	25					X	X	
	50					X	X	
	80					X	X	
	100					X	X	
	125					X	X	
	160					X	X	
	200					X	X	
	250					X	X	
320					X	X		
<p>doppio effetto <i>double acting</i></p> <p>non magnetico <i>non-magnetic</i></p> <p>non ammortizzato <i>without pneumatic cushioning</i></p> <p>stelo passante <i>passing-through rod</i></p> 								<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo [piston-rod material]</p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni [seals material]</p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	10			X	X	X		
	25			X	X	X		
	50			X	X	X		
	80			X	X	X		
	100			X	X	X		
	125			X	X	X		
	160			X	X	X		
	200			X	X	X		
	250			X	X	X		
320			X	X	X			

versioni disponibili

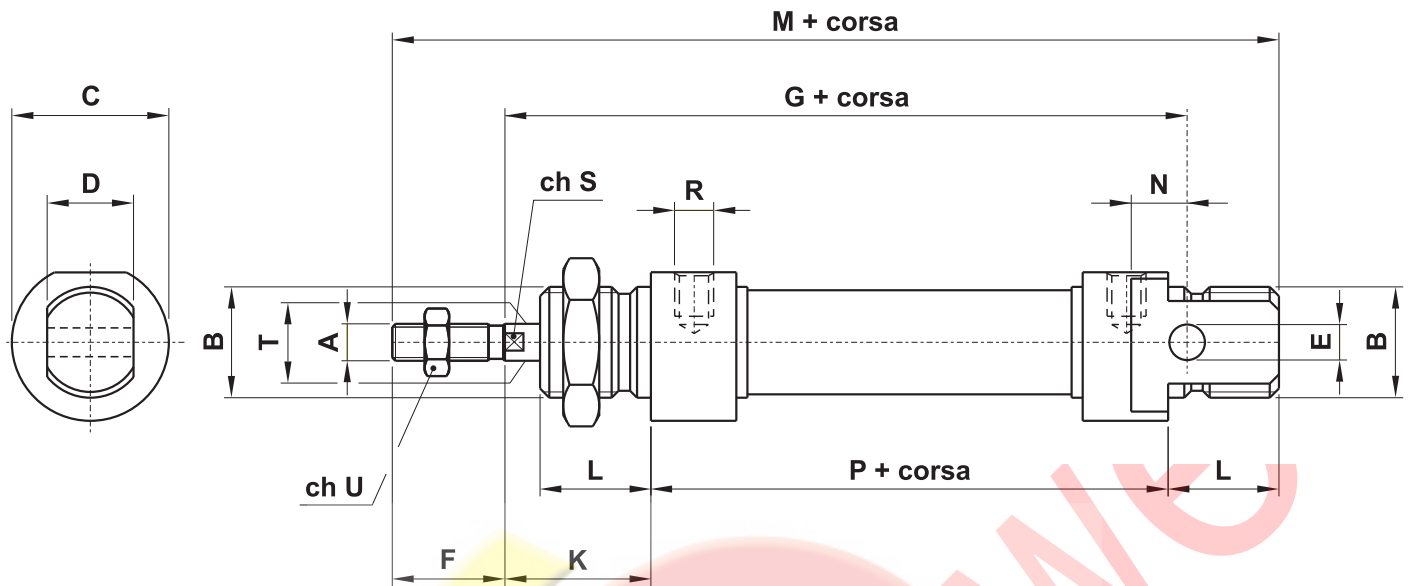
available versions

	alesaggio		10	12	16	20	25	
	corsa	bore						
	stroke							
<p>doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i> stelo passante <i>passing-through rod</i></p> 	10				X	X	X	<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo [piston-rod material]</p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni [seals material]</p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	25				X	X	X	
	50				X	X	X	
	80				X	X	X	
	100				X	X	X	
	125				X	X	X	
	160				X	X	X	
	200				X	X	X	
	250				X	X	X	
	320				X	X	X	
<p>doppio effetto <i>double acting</i> non magnetico <i>non-magnetic</i> ammortizzato <i>with pneumatic cushioning</i> stelo passante <i>passing-through rod</i></p> 	10							<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo [piston-rod material]</p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni [seals material]</p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	25					X	X	
	50					X	X	
	80					X	X	
	100					X	X	
	125					X	X	
	160					X	X	
	200					X	X	
	250					X	X	
	320					X	X	
<p>doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i> stelo passante <i>passing-through rod</i></p> 	10							<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo [piston-rod material]</p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni [seals material]</p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	25					X	X	
	50					X	X	
	80					X	X	
	100					X	X	
	125					X	X	
	160					X	X	
	200					X	X	
	250					X	X	
	320					X	X	

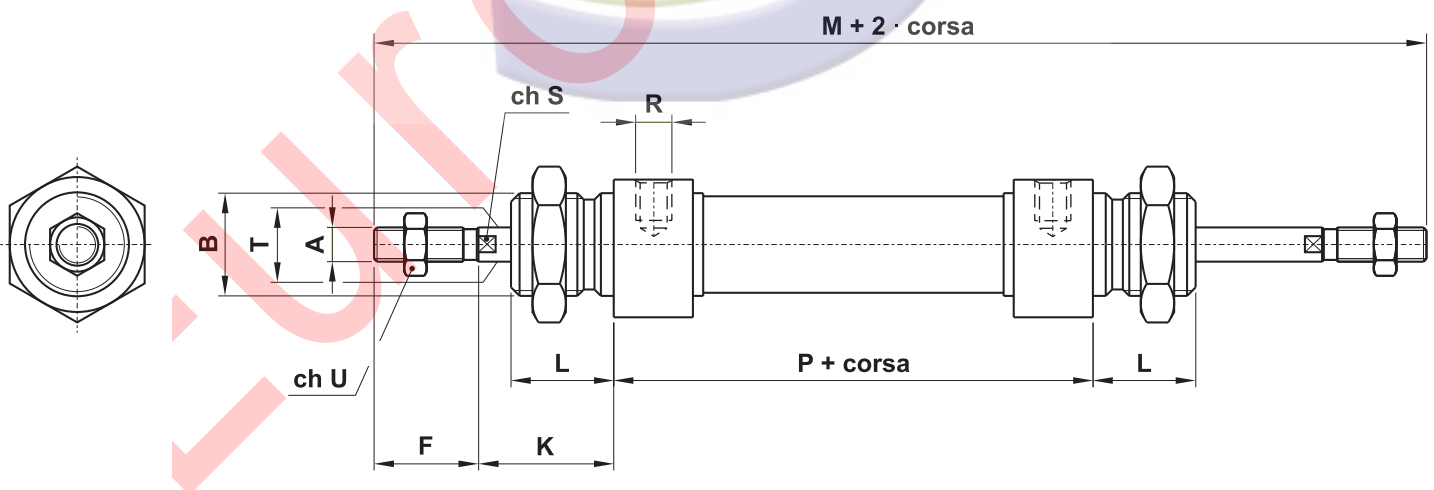
6

microcilindri ISO 6432

minicylinders ISO 6432



∅	A	B	C	D	E	F	G	K	L	M	N	P	R	S	T	U
10	M4	M12x1.25	∅16	8	∅4	12	64	16	12	86	6	46	M5	-	∅4	7
12	M6	M16x1.5	∅19	12	∅6	16	75	22	18	104	9	48	M5	5	∅6	10
16	M6	M16x1.5	∅19	12	∅6	16	82	22	18	109	9	51	M5	5	∅6	10
20	M8	M22x1.5	∅27	16	∅8	20	95	24	20	131	12	67	G1/8"	7	∅8	13
25	M10x1.25	M22x1.5	∅30	16	∅8	22	104	28	22	140	12	68	G1/8"	9	∅10	17



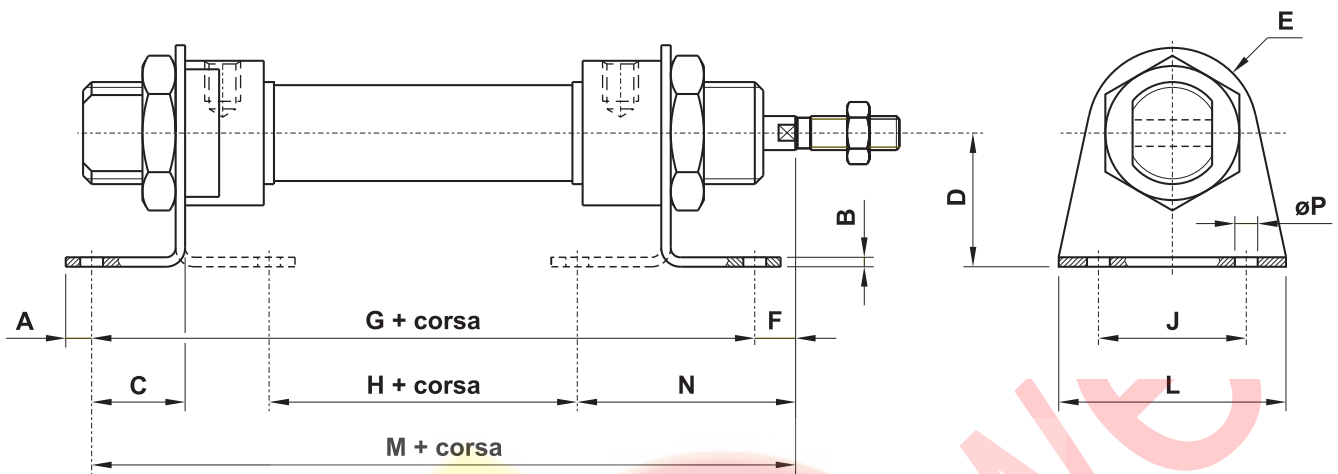
∅	A	B	F	K	L	M	P	R	S	T	U
16	M6	M16x1.5	16	22	18	127	51	M5	5	∅6	10
20	M8	M22x1.5	20	24	20	155	67	G1/8"	7	∅8	13
25	M10x1.25	M22x1.5	22	28	22	168	68	G1/8"	9	∅10	17

fissaggi per microcilindri ISO 6432

fixing elements for minicylinders ISO 6432

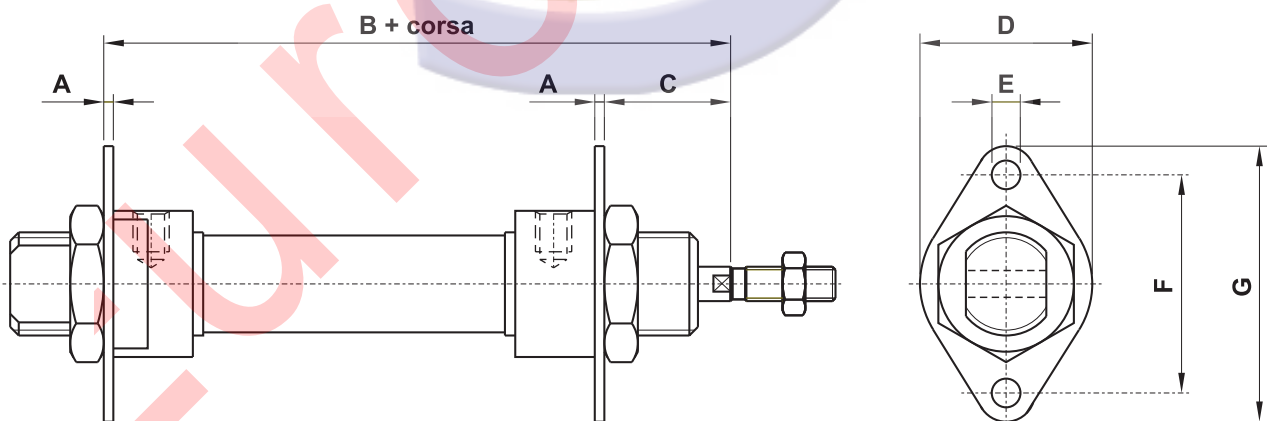


PIEDINO



∅	A	B	C	D	E	F	G	H	J	L	M	N	P
10	5	3	11	16	10	5	68	30	25	32	73	24	4.5
12	6	4	14	20	12.5	8	76	28	32	42	84	32	5.5
16	6	4	14	20	12.5	8	81	33	32	42	89	32	5.5
20	8	5	17	25	20	7	101	43	40	54	108	36	6.6
25	8	5	17	25	20	11	102	44	40	54	113	40	6.6

FLANGIA



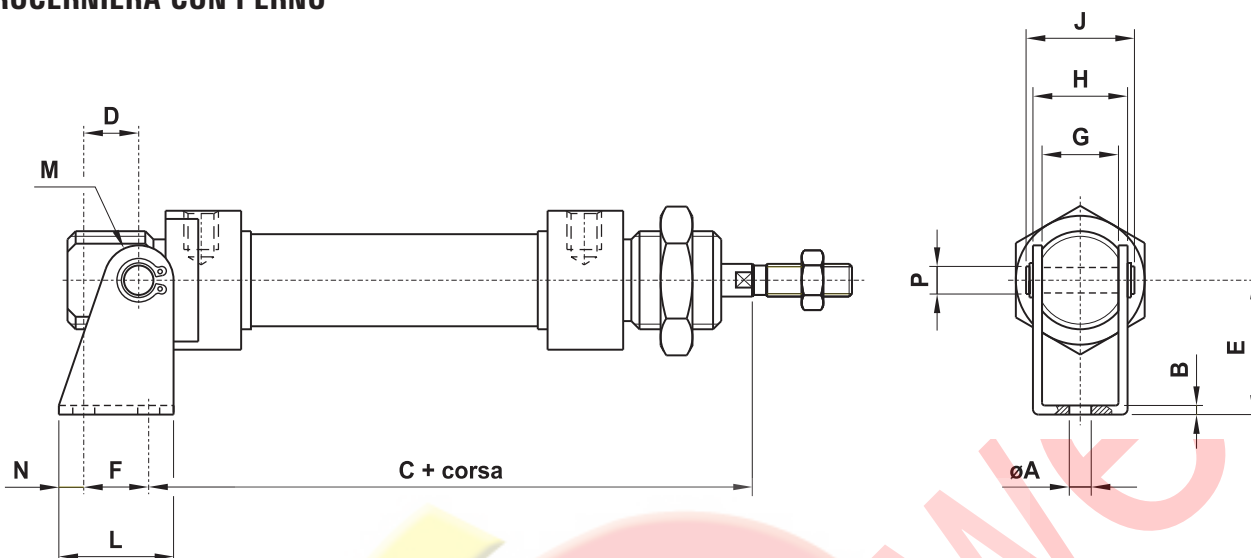
∅	A	B	C	D	E	F	G
10	3	65	13	22	∅4.5	30	40
12	4	74	18	30	∅5.5	40	52
16	4	79	18	30	∅5.5	40	52
20	5	96	19	40	∅6.6	50	66
25	5	101	23	40	∅6.6	50	66

fissaggi per microcilindri ISO 6432

fixing elements for minicylinders ISO 6432

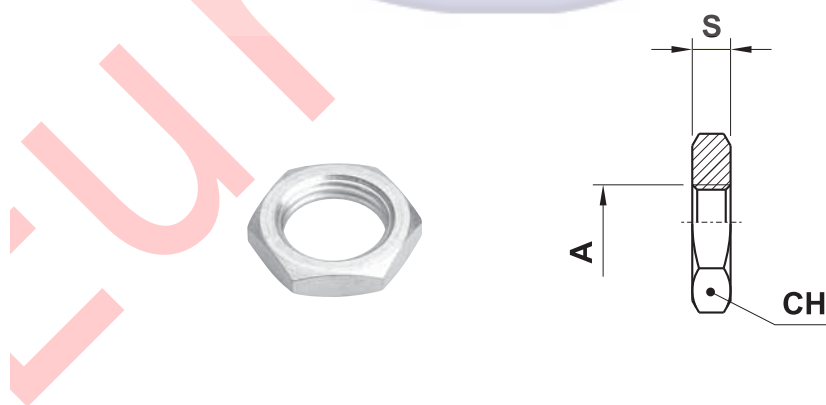


CONTROCERNIERA CON PERNO



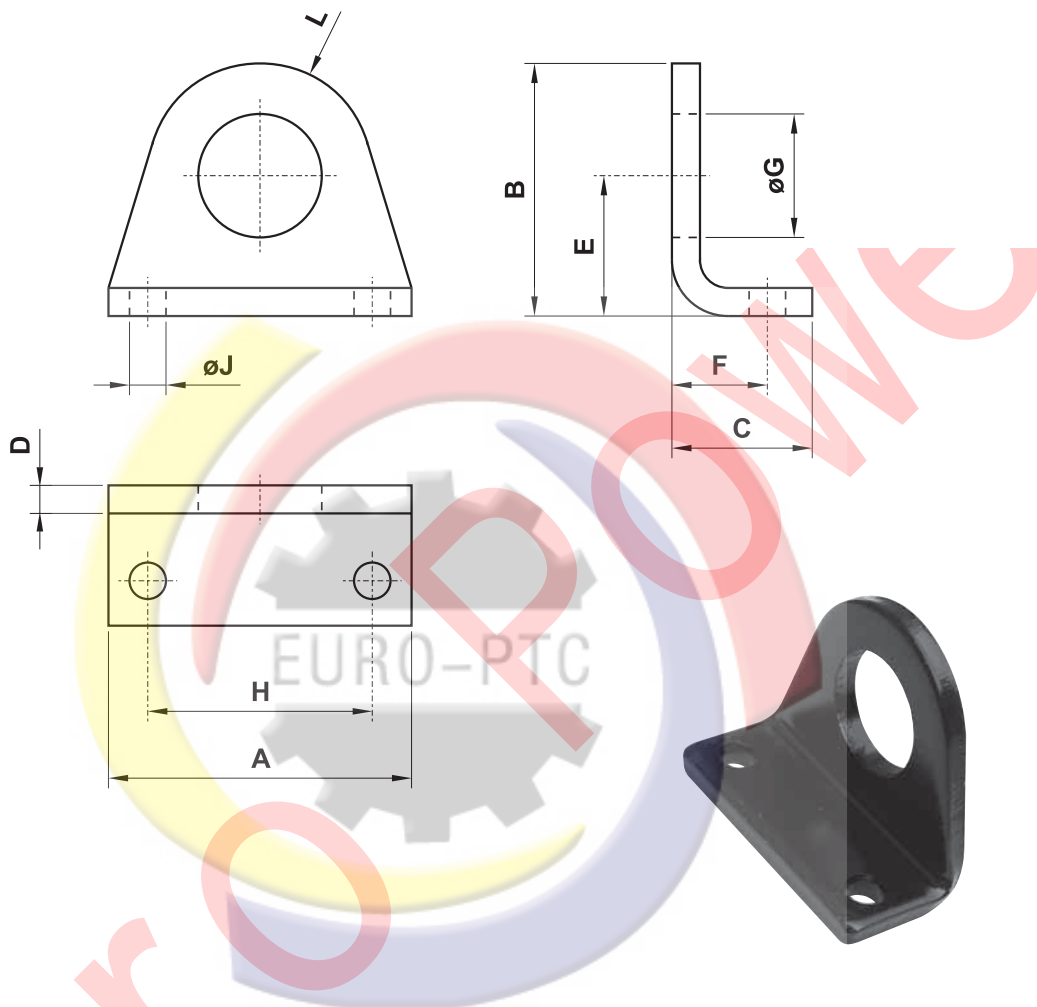
ø	A	B	C	D	E	F	G	H	J	L	M	N	P
10	4.5	2.5	62.5	12.25	24	12.5	8.1	13	17	20	5	4.75	ø4
12	5.5	3	73	13	27	15	12.1	18	23	25	7	5	ø6
16	5.5	3	80	13	27	15	12.1	18	23	25	7	5	ø6
20	6.6	4	91	16	30	20	16.1	24	29.5	32	10	6	ø8
25	6.6	4	100	16	30	20	16.1	24	29.5	32	10	6	ø8

DADO PER TESTATA



sigla part number	per alesaggio for bore	A	CH	S
GPM010	10	M12x1.25	19	7
GPM12-16	12-16	M16x1.5	22	6
GPM20-25	20-25	M22x1.5	27	8

PIEDINO

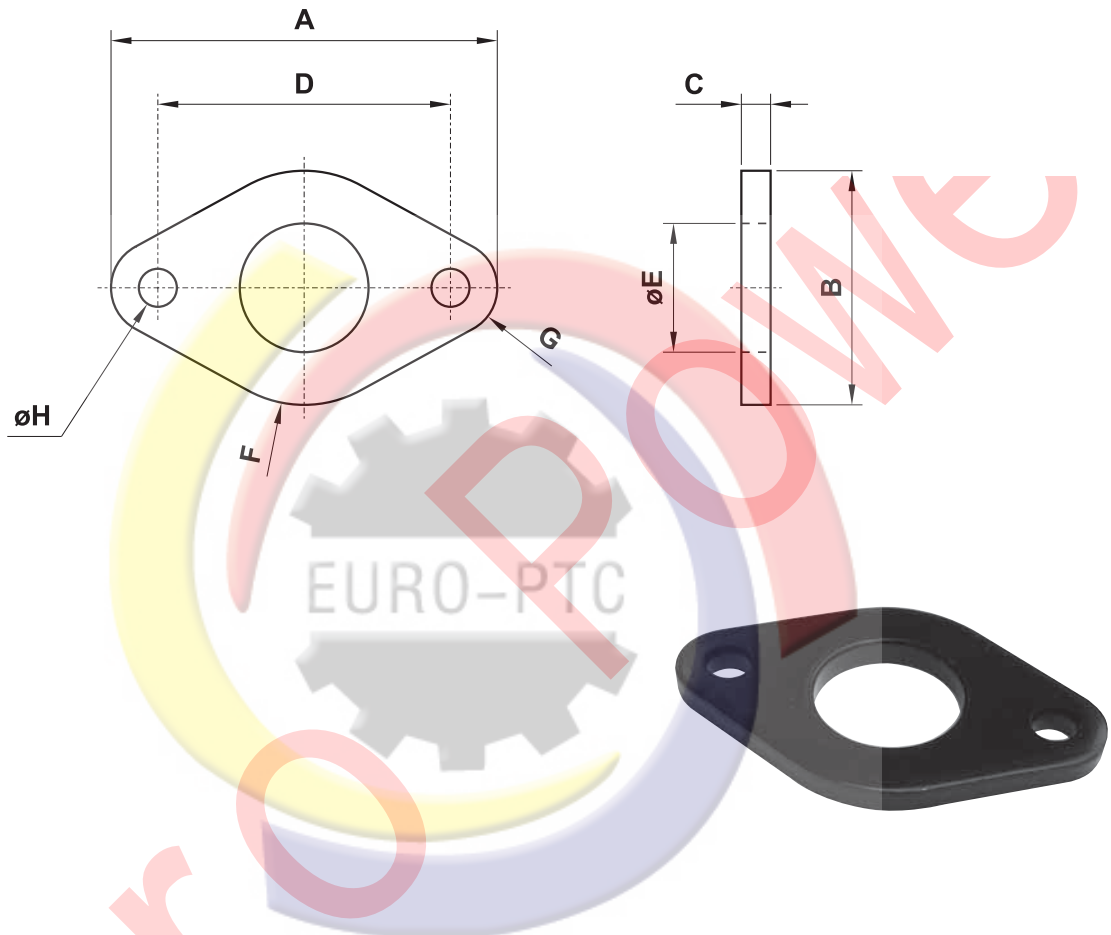


sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L
PDMC08-10	8-10	35	26	16	3	16	11	12	25	4.5	10
PDMC12-16	12-16	42	32.5	20	4	20	14	16	32	5.5	12.5
PDMC20-25	20-25	54	45	25	5	25	17	22	40	6.6	20

* La sigla si riferisce a un solo piedino e non alla coppia

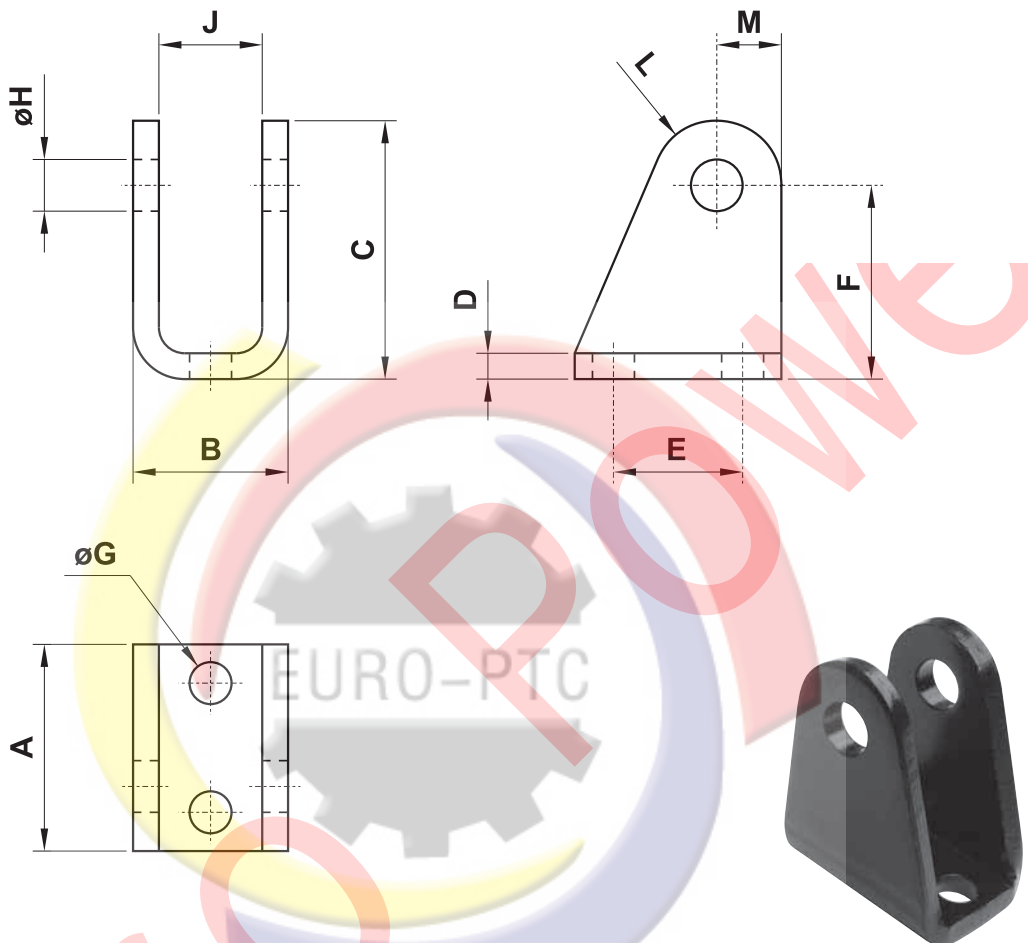
* The part number is referred to only one element and not to the couple

FLANGIA



sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H
FLMC08-10	8-10	40	22	3	30	12	11	5	4.5
FLMC12-16	12-16	52	30	4	40	16	15	6	5.5
FLMC20-25	20-25	66	40	5	50	22	20	8	6.6

CONTROCERNIERA CON PERNO



sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M
CCMC08-10	8-10	20	13	29	2.5	12.5	24	4.5	4	8.1	5	5
CCMC12-16	12-16	25	18	34	3	15	27	5.5	6	12.1	7	7
CCMC20-25	20-25	32	24	40	4	20	30	6.6	8	16.1	10	10

6

cilindri tondi

round cylinders



- Valida alternativa alle esecuzioni tradizionali
Up-to-date alternative to traditional versions
- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Esecuzioni speciali a richiesta
Special versions on request



Materiali

Camicia: alluminio

Stelo: C45 cromato o INOX

Testate: alluminio

Pistone: alluminio

Guarnizioni: NBR o VITON

Magnete: plastroferrite (non adatto per temperature oltre +60°C)

Guida pistone: teflon PTFE

Materials

Barrel: aluminium

Piston-rod: C45 (chromium plated) or stainless steel

End-cups: aluminium

Piston: aluminium

Sealings: NBR or VITON

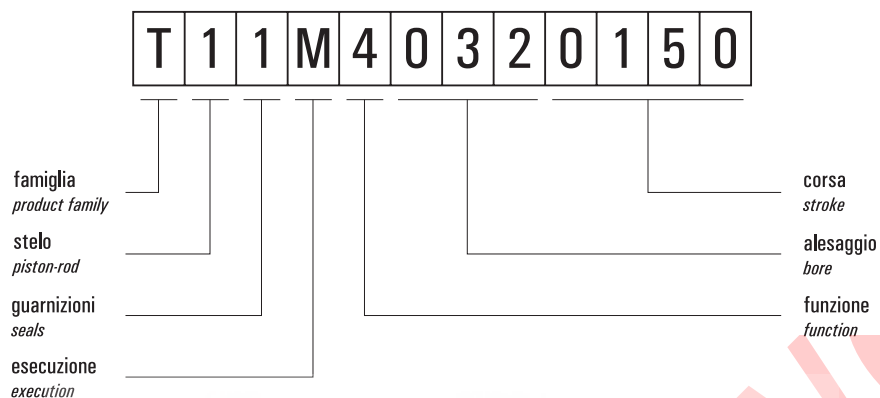
Magnet: magnetic iron compound (not suitable for temperatures over +60°C)

Piston guide ring: teflon PTFE

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	32; 40; 50 mm
Corse <i>Strokes</i>	25 ... 500 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

chiave di codifica

key to codes



Famiglia [product family]

T cilindri tondi [round cylinders]

Stelo [piston-rod]

- 1** C45 cromato [C45 chromium plated]
- 2** INOX [stainless steel]

Guarnizioni [seals]

- 1** NBR
- 2** tutte le guarnizioni in VITON [all seals in VITON]
- 3** guarnizioni dello stelo in VITON [rod seals in VITON]

Esecuzione [execution]

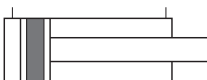

M magnetico [magnetic]

Funzione [function]

- 2** doppio effetto non ammortizzato
[double acting without pneumatic cushioning]
- 3** doppio effetto ammortizzato
[double acting with pneumatic cushioning]
- 4** doppio effetto non ammortizzato stelo passante
[double acting without pneumatic cushioning, with passing-through rod]
- 5** doppio effetto ammortizzato stelo passante
[double acting with pneumatic cushioning, with passing-through rod]

versioni disponibili

available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		32	40	50	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>		
	corsa	bore						
		stroke						
	25		X	X	X	materiale stelo [piston-rod material] C45 cromato <i>C45 chromium plated</i>		
	50		X	X	X		INOX <i>stainless steel</i>	
	75		X	X	X		materiale guarnizioni [seals material] NBR	
	80		X	X	X			tutte in VITON <i>all seals in VITON</i>
	100		X	X	X		guarnizioni stelo in VITON <i>rod seals in VITON</i>	
	125		X	X	X			
	150		X	X	X			
	160		X	X	X			
	200		X	X	X			
	250		X	X	X			
	300		X	X	X			
	320		X	X	X			
	400		X	X	X			
	500		X	X	X			
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	alesaggio		32	40	50	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>		
	corsa	bore						
			stroke					
		25		X	X	X	materiale stelo [piston-rod material] C45 cromato <i>C45 chromium plated</i>	
		50		X	X	X		INOX <i>stainless steel</i>
		75		X	X	X		materiale guarnizioni [seals material] NBR
		80		X	X	X		
		100		X	X	X		guarnizioni stelo in VITON <i>rod seals in VITON</i>
		125		X	X	X		
		150		X	X	X		
		160		X	X	X		
		200		X	X	X		
		250		X	X	X		
		300		X	X	X		
320			X	X	X			
400			X	X	X			
500			X	X	X			

versioni disponibili

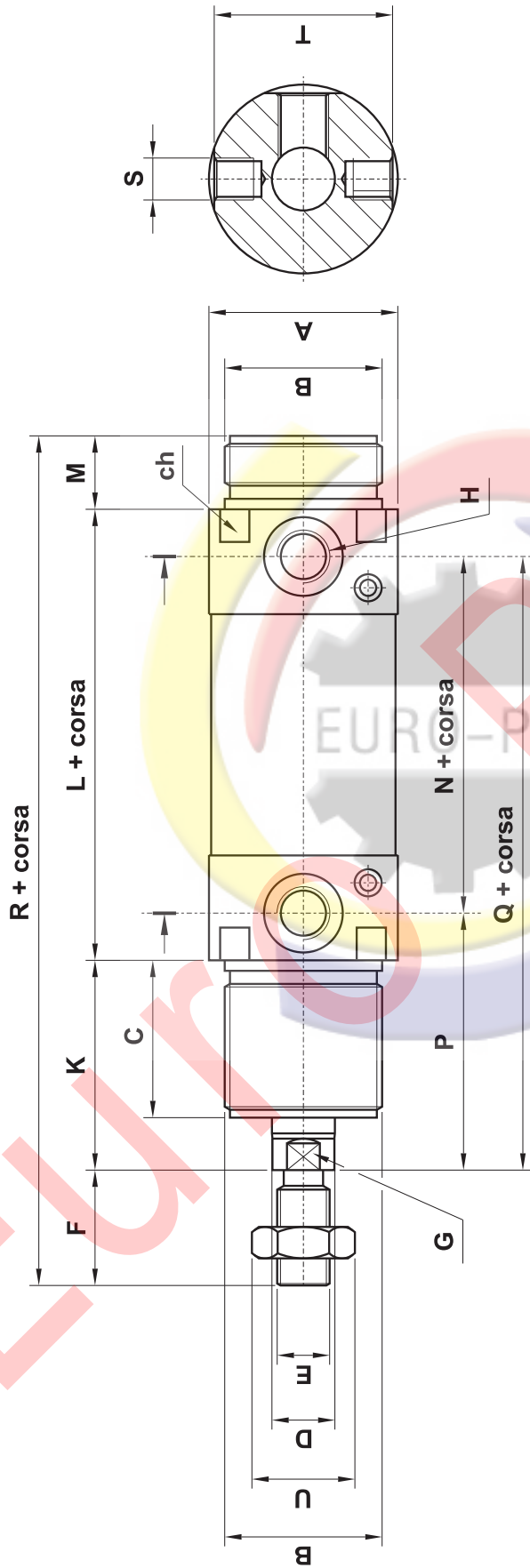
available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i>	alesaggio		32	40	50	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>					
	corsa	bore									
	25		X	X	X	materiale stelo [piston-rod material] <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni [seals material] <table border="1"> <tr> <td>NBR</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>									
	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>								
	50		X	X	X						
	75		X	X	X						
	80		X	X	X						
	100		X	X	X						
	125		X	X	X						
	150		X	X	X						
	160		X	X	X						
	200		X	X	X						
	250		X	X	X						
	300		X	X	X						
	320		X	X	X						
	400		X	X	X						
500		X	X	X							
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	alesaggio		32	40	50	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>					
	corsa	bore									
	25		X	X	X	materiale stelo [piston-rod material] <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni [seals material] <table border="1"> <tr> <td>NBR</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>									
	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>								
	50		X	X	X						
	75		X	X	X						
	80		X	X	X						
	100		X	X	X						
	125		X	X	X						
	150		X	X	X						
	160		X	X	X						
	200		X	X	X						
	250		X	X	X						
	300		X	X	X						
	320		X	X	X						
	400		X	X	X						
500		X	X	X							

6

cilindri tondi

round cylinders



Ø	A	B	C	D	E	F	G	H	ch	K	L	M	N	P	O	R	S	T	U
32	Ø38	M30x1.5	30	Ø12	M10x1.25	20	CH 10	G1/8"	36	38	96	14	78	47	125	168	M8x1	35	CH 17
40	Ø46	M38x1.5	35	Ø16	M12x1.25	24	CH 13	G1/4"	45	45	113	16	89	57	146	198	M10x1	42	CH 19
50	Ø57	M45x1.5	38	Ø20	M16x1.5	32	CH 17	G1/4"	55	50	120	18	96	62	158	220	M12x1.5	53	CH 24

kit guarnizioni di ricambio

seals kit

NBR - MAGNETICO

non ammortizzato			ammortizzato		
per alesaggio for bore	sigla part number	codice code	per alesaggio for bore	sigla part number	codice code
32	SGT032	26.192.2N	32	SGT032A	26.430.2
40	SGT040	26.193.2N	40	SGT040A	26.431.2
50	SGT050	26.194.2N	50	SGT050A	26.432.2

VITON - MAGNETICO

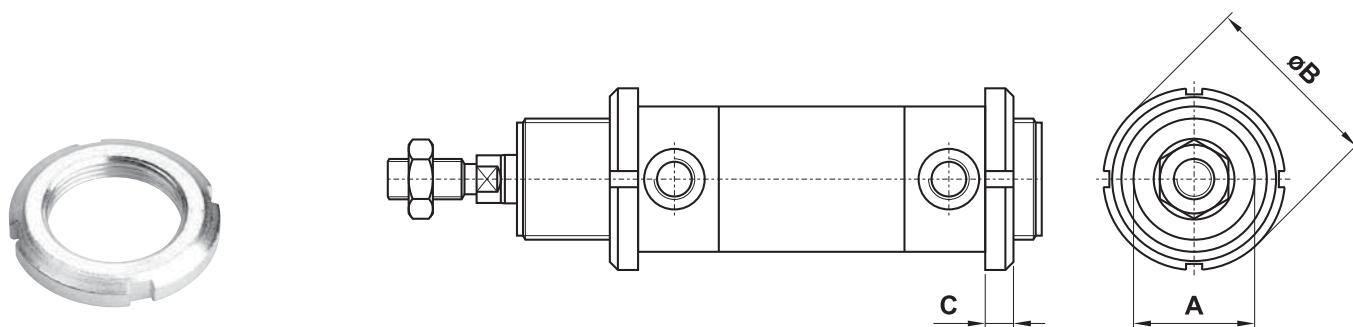
non ammortizzato			ammortizzato		
per alesaggio for bore	sigla part number	codice code	per alesaggio for bore	sigla part number	codice code
32	SGT032V	26.360.2N	32	SGT032AV	26.433.2
40	SGT040V	26.361.2N	40	SGT040AV	26.434.2
50	SGT050V	26.362.2N	50	SGT050AV	26.435.2

fissaggi per cilindri tondi

fixing elements for round cylinders

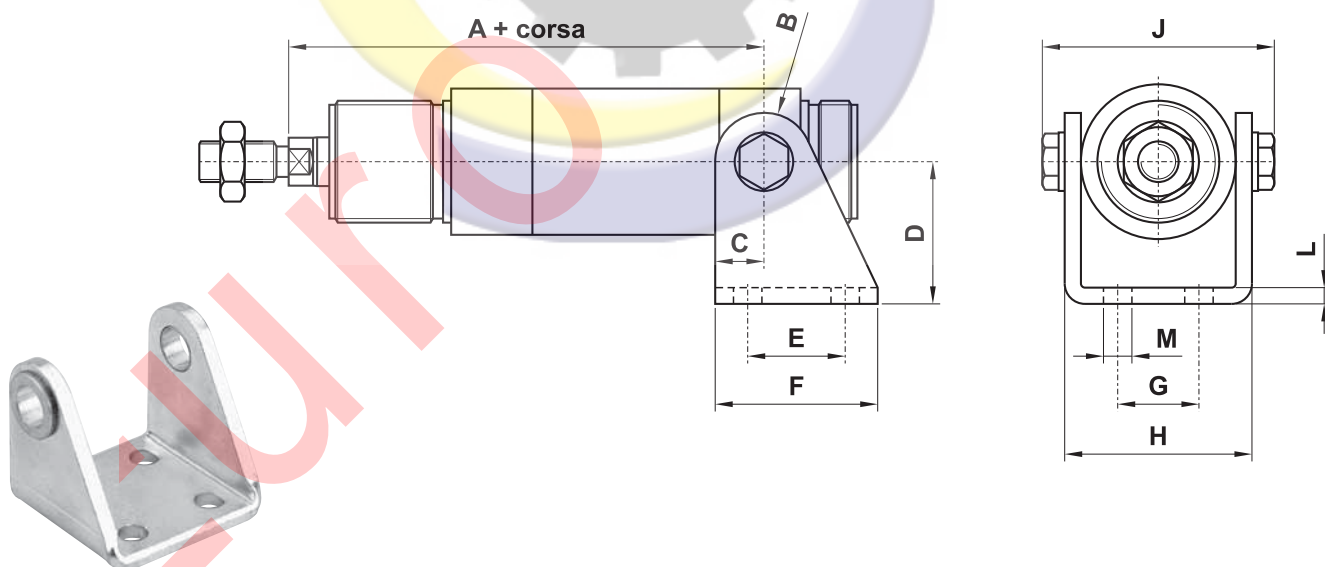


GHIERA



sigla part number	per alesaggio for bore	A	B	C
GPT032	32	M30x1.5	45	7
GPT040	40	M38x1.5	50	8
GPT050	50	M45x1.5	58	9

CONTROCERNIERA CON PERNO



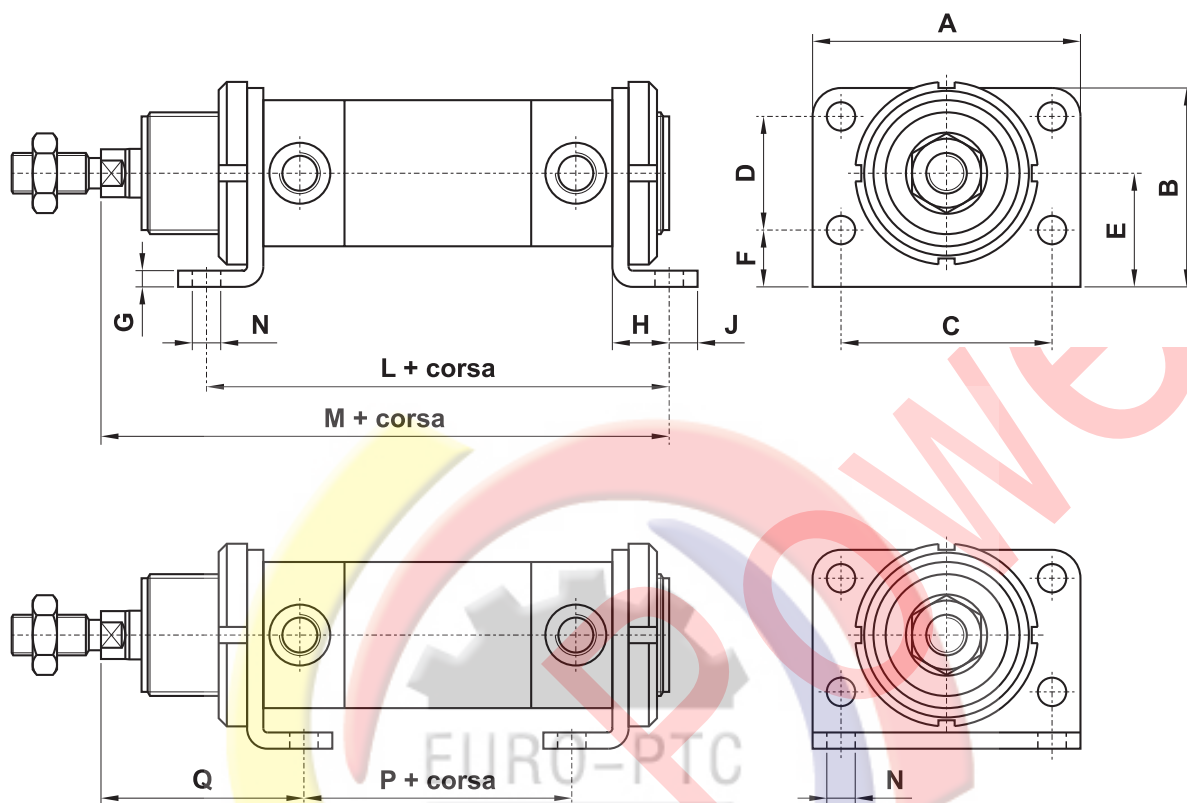
sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M
CCR032	32	125	12	12	35	24	40	20	46	58	4	ø7
CCR040	40	146	13	13	40	30	50	28	56	70	5	ø9
CCR050	50	158	14	14	45	34	54	36	69	86	6	ø9

fissaggi per cilindri tondi

fixing elements for round cylinders



PIEDINO



sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M	N	P	Q
FPT032	32	66	49	52	28	28	14	4	14	7	124	148	ø7	76	48
FPT040	40	80	58	60	30	33	18	5	20	10	153	178	ø9	83	60
FPT050	50	90	70	70	40	40	20	6	20	10	160	190	ø9	92	64

* La sigla si riferisce a un solo piedino e non alla coppia

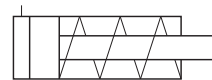
* The part number is referred to only one element and not to the couple

cilindri pressori

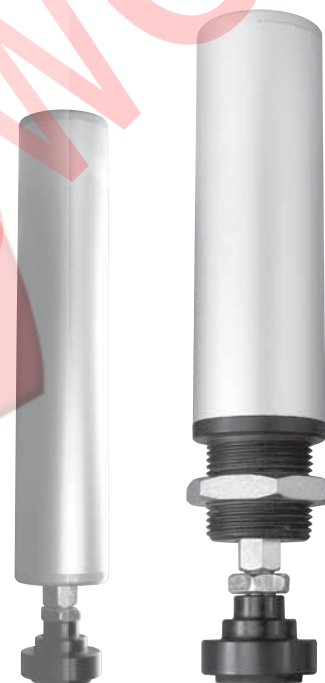
clamping cylinders



- Cilindri semplice effetto antirotazione, molla anteriore
Single acting front spring cylinders, anti-rotation
- Non magnetici
Non magnetic
- Ottimi per il serraggio dei pezzi da tagliare su macchine troncatrici per alluminio o legno
Very good cylinders to clamp the pieces in sawing machines for aluminium or wood



modello <i>model</i>	alesaggio interno <i>internal bore</i>	corsa <i>stroke</i>	esecuzione <i>execution</i>
17.066.0	25 mm	8 mm	con tampone di spinta <i>[with pushing pad]</i>
17.062.0	25 mm	75 mm	con tampone di spinta <i>[with pushing pad]</i>
17.067.0	25 mm	110 mm	con tampone di spinta <i>[with pushing pad]</i>
17.068.0	35 mm	8 mm	con tampone di spinta <i>[with pushing pad]</i>
17.060.0	35 mm	75 mm	con tampone di spinta <i>[with pushing pad]</i>
17.061.0	35 mm	110 mm	con tampone di spinta <i>[with pushing pad]</i>
17.069.0	35 mm	75 mm	con tampone di spinta e testata anteriore filettata <i>[with pushing pad and threaded front end cap]</i>



Materiali

Corpo: alluminio anodizzato

Stelo: AVP zincato

Guarnizioni: NBR e poliuretano

Materials

Body: aluminium (anodize treatment)

Piston-rod: zinc plated AVP iron

Sealings: NBR and polyurethane

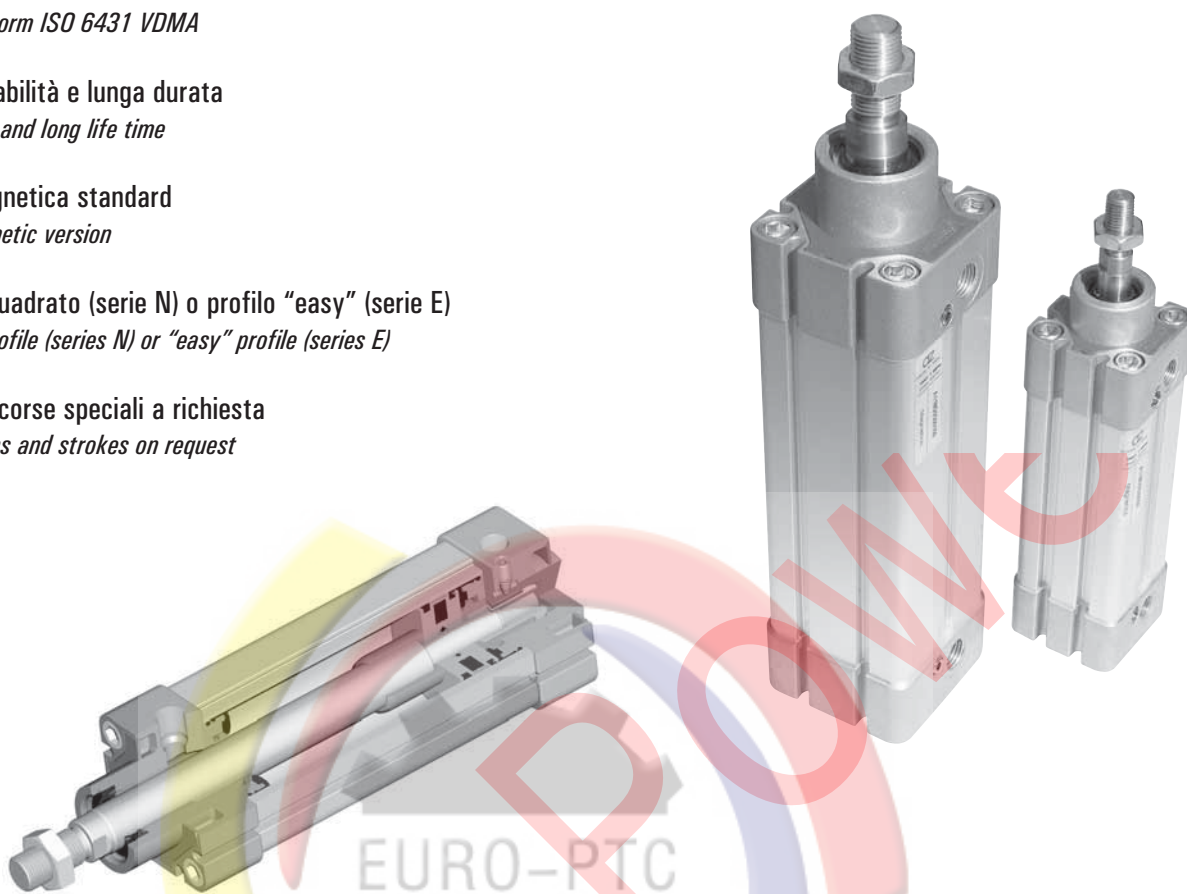
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi interni <i>Internal bores</i>	25; 35 mm
Corse <i>Strokes</i>	8; 75; 110 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



- Conformi alla norma ISO 6431 VDMA
Compliant to norm ISO 6431 VDMA
- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Con profilo quadrato (serie N) o profilo "easy" (serie E)
With square profile (series N) or "easy" profile (series E)
- Esecuzioni e corse speciali a richiesta
Special versions and strokes on request



Materiali

Camicia: alluminio

Stelo: C45 cromato o INOX AISI 304

Testate: alluminio

Pistone: tecnopolimero (standard) o alluminio (su richiesta) - vedi tabella a pagina successiva

Guarnizioni: poliuretano o VITON

Guarnizione stelo: poliuretano o VITON

Magnete: plastroferrite (non adatto per temperature oltre +60°C)

Materials

Barrel: aluminium

Piston-rod: C45 (chromium plated) or stainless steel

End-cups: aluminium

Piston: technopolymer (standard) or aluminium (on request) - see table on next page

Sealings: polyurethane or VITON

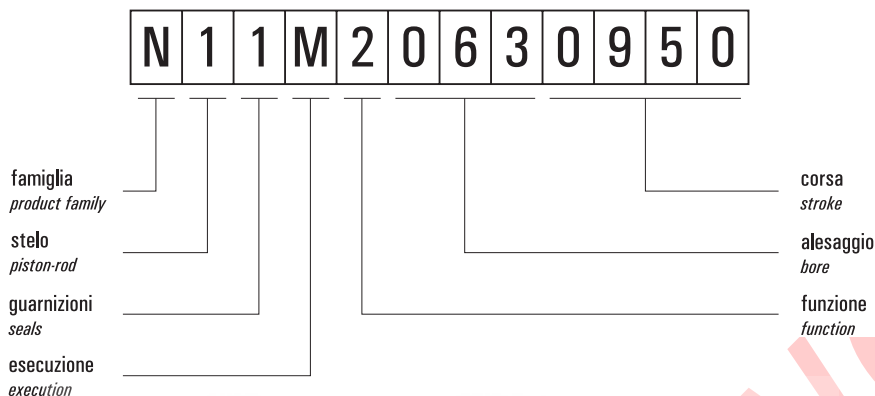
Piston-rod sealing: polyurethane or VITON

Magnet: magnetic iron compound (not suitable for temperatures over +60°C)

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	standard (poliuretano/NBR): max +60°C VITON: max +110°C
Alesaggi <i>Bores</i>	32; 40; 50; 63; 80; 100; 125; 160; 200; 250; 320 mm
Tipo di costruzione <i>Construction type</i>	<p>ø32 ... 125 : profilo quadro con cava centrale e cave laterali ø32 ... 125 : square aluminium profile</p> <p>ø160-320 : tubo tondo con tiranti ø160-320 : round profile with tie-rods</p>
Corse <i>Strokes</i>	standard: 25 ... 1000 mm; su richiesta fino a 3000 mm standard: 25 ... 1000 mm; on request up to 3000 mm
Ammortizzo pneumatico <i>Pneumatic cushioning</i>	Standard su tutta la gamma Standard on the whole range
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

chiave di codifica

key to codes



Famiglia [product family]

- N** cilindri ISO 6431 ø32 ... 320 **PROFILO STANDARD**
- E** cilindri ISO 6431 ø32 ... 125 **PROFILO EASY**

Funzione [function]

- 2** doppio effetto ammortizzato
[double acting with pneumatic cushioning]
- 4** doppio effetto ammortizzato stelo passante
[double acting with pneumatic cushioning, with passing-through rod]

Stelo [piston-rod]

- 1** C45 cromato [C45 chromium plated]
- 2** INOX [stainless steel]

Guarnizioni [seals]

- 1** poliuretano [polyurethane]
- 2** tutte le guarnizioni in VITON [all seals in VITON]
- 3** guarnizioni dello stelo in VITON [rod seals in VITON]

Esecuzione [execution]

- M** magnetico [magnetic]
- B** magnetico predisposto per bloccastelo [magnetic with rod lock adaptor]

alesaggio <i>bore</i>	corsa massima (mm) <i>maximum stroke (mm)</i>
32	350
40	350
50	500
63	500
80	500
100	350
125	solo alluminio - <i>only aluminium</i>
160	solo alluminio - <i>only aluminium</i>
200	solo alluminio - <i>only aluminium</i>
250	solo alluminio - <i>only aluminium</i>
320	solo alluminio - <i>only aluminium</i>

Corsa massima per i cilindri con pistone standard in tecnopolimero. Oltre questa corsa i cilindri sono fornibili soltanto con pistone in alluminio. Per la versione ATEX il pistone in tecnopolimero non è adatto.

Maximum stroke for cylinders with standard piston in technopolymer. If the stroke is longer, the cylinder can be supplied only with piston in aluminium. The piston in technopolymer is not suitable for ATEX.

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



versioni disponibili available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i>	corsa bore		32	40	50	63	80	100	125	160	200	250 (**)	320 (**)	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>
	corsa stroke	bore												
	25		X	X	X	X	X	X	X					
	50		X	X	X	X	X	X	X	X	X	X	X	
	75		X	X	X	X	X	X	X					
	80		X	X	X	X	X	X	X	X	X			
	100		X	X	X	X	X	X	X	X	X	X	X	
	125		X	X	X	X	X	X	X					
	150		X	X	X	X	X	X	X	X	X			
	160		X	X	X	X	X	X	X	X	X			
	200		X	X	X	X	X	X	X	X	X	X	X	
	250		X	X	X	X	X	X	X	X	X			
	300		X	X	X	X	X	X	X	X	X	X	X	
	320		X	X	X	X	X	X	X	X	X			
	350		X	X	X	X	X	X	X					
	400		X	X	X	X	X	X	X	X	X	X	X	
	450		X	X	X	X	X	X	X					
	500		X	X	X	X	X	X	X	X	X	X	X	
	550		X	X	X	X	X	X	X					
	600		X	X	X	X	X	X	X	X	X	X	X	
	650		X	X	X	X	X	X	X					
	700		X	X	X	X	X	X	X	X	X	X	X	
	750		X	X	X	X	X	X	X					
	800		X	X	X	X	X	X	X	X	X	X	X	
	850		X	X	X	X	X	X	X					
	900		X	X	X	X	X	X	X	X	X	X	X	
	950		X	X	X	X	X	X	X					
	1000		X	X	X	X	X	X	X	X	X	X	X	
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	alesaggio		32	40	50	63	80	100	125	160	200	250	320	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>
	corsa stroke	bore												
	25		X	X	X	X	X	X	X					
	50		X	X	X	X	X	X	X	X	X			
	75		X	X	X	X	X	X	X					
	80		X	X	X	X	X	X	X	X	X			
	100		X	X	X	X	X	X	X	X	X			
	125		X	X	X	X	X	X	X					
	150		X	X	X	X	X	X	X	X	X			
	160		X	X	X	X	X	X	X	X	X			
	200		X	X	X	X	X	X	X	X	X	X	X	
	250		X	X	X	X	X	X	X	X	X			
	300		X	X	X	X	X	X	X	X	X	X	X	
	320		X	X	X	X	X	X	X	X	X			
	350		X	X	X	X	X	X	X					
	400		X	X	X	X	X	X	X	X	X			
	450		X	X	X	X	X	X	X					
	500		X	X	X	X	X	X	X	X	X			
	550		X	X	X	X	X	X	X					
	600		X	X	X	X	X	X	X	X	X			
	650		X	X	X	X	X	X	X					
	700		X	X	X	X	X	X	X	X	X			
	750		X	X	X	X	X	X	X					
	800		X	X	X	X	X	X	X	X	X			
	850		X	X	X	X	X	X	X					
	900		X	X	X	X	X	X	X	X	X			
	950		X	X	X	X	X	X	X					
	1000		X	X	X	X	X	X	X	X	X			

materiale stelo [piston-rod material]

C45 cromato
C45 chromium plated

INOX
stainless steel

materiale guarnizioni [seals material]

poliuret.
(*)

tutte in VITON
all seals in VITON

guarnizioni stelo
in VITON
rod seals in VITON

predisposizione per bloccastelo

rod lock adaptor

non disponibile per gli alesaggi 160-320
not available for bores 160-320

(*) per maggiori informazioni vedi pag. 411-413
(*) for more information refer to pages 411-413

(**) solo non magnetico; corsa massima su richiesta 2000 mm
(**) only without magnet; maximum stroke on request 2000 mm

OPZIONI

options

Lo standard è evidenziato in grigio
The standard is marked with grey background

materiale stelo [piston-rod material]

C45 cromato
C45 chromium plated

INOX
stainless steel

materiale guarnizioni [seals material]

poliuret.
(*)

tutte in VITON
all seals in VITON

guarnizioni stelo
in VITON
rod seals in VITON

predisposizione per bloccastelo

rod lock adaptor

non disponibile per gli alesaggi 160-320
not available for bores 160-320

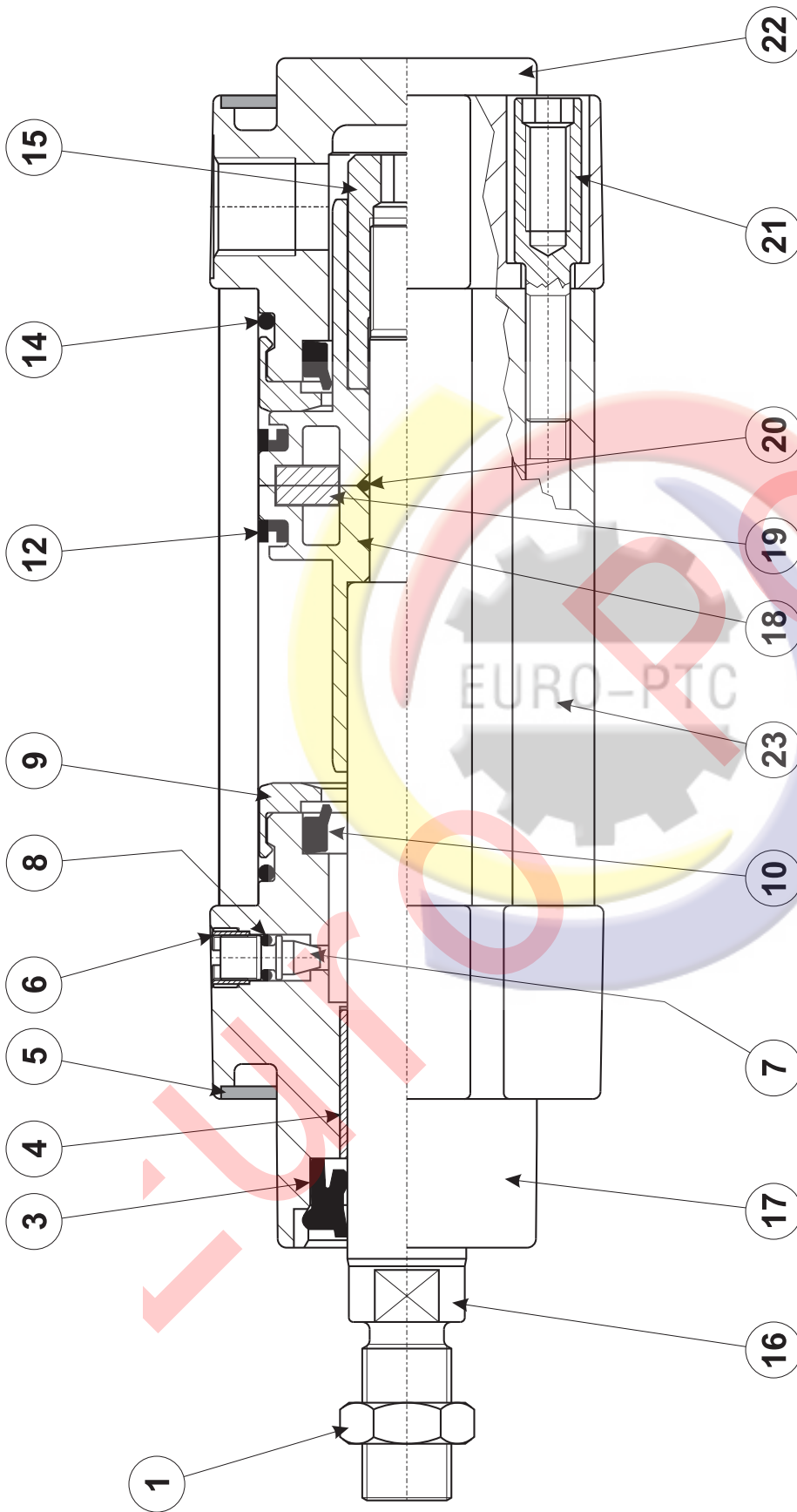
(*) per maggiori informazioni vedi pag. 411-413
(*) for more information refer to pages 411-413

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



disegno valido dall'alesaggio 32 all'alesaggio 125 - **PISTONE IN TECNOPOLIMERO**
the drawing is valid from bore 32 to bore 125 - PISTON IN TECHNO-POLYMER



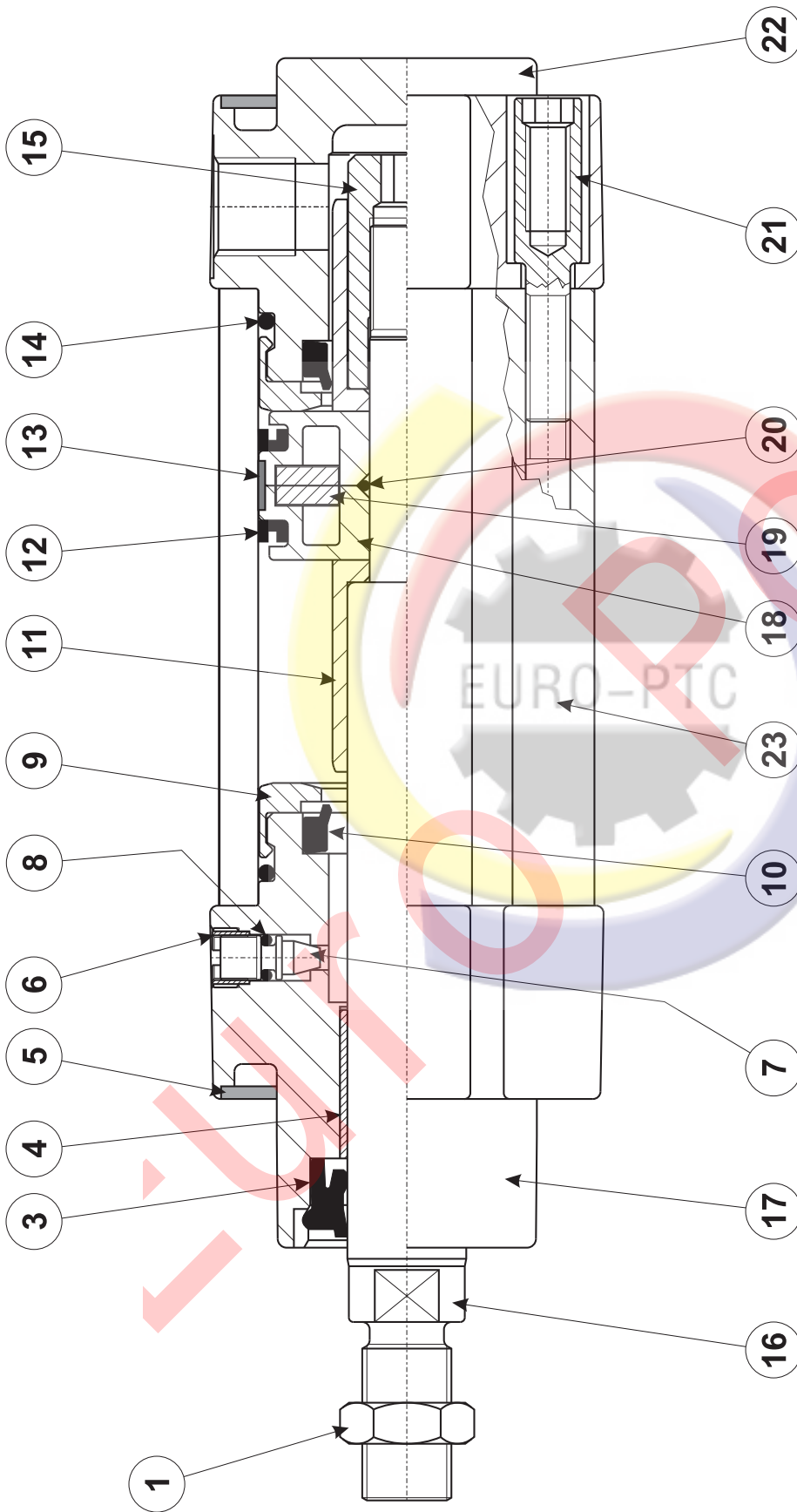
- | | |
|--|--|
| <p>1. Dado esagonale per stelo</p> <p>3. Guarnizione stelo: poliuretano o VITON</p> <p>4. Boccola guida: materiale autolubrificante</p> <p>5. Piastrina di protezione: MOPLEN</p> <p>6. Ghiera per vite ammortizzo: ottone nichelato</p> <p>7. Vite ammortizzo: ottone nichelato</p> <p>8. Guarnizione O-Ring per vite ammortizzo: NBR o VITON</p> <p>9. Paracolpi: HYTREL</p> <p>10. Guarnizione ammortizzo: poliuretano o VITON</p> <p>12. Guarnizione a labbro per pistone: poliuretano o VITON</p> <p>14. O-Ring per tenuta testate: NBR o VITON</p> | <p>15. Bussola per bloccaggio stelo: materiale UNI 5105 35S Mn Pb 10, zincato</p> <p>16. Stelo: acciaio C45 cromato o INOX AISI 304</p> <p>17. Testata anteriore: lega alluminio da pressofusione</p> <p>18. Pistone con ogive: tecnopolimero</p> <p>19. Magnete: plastoferrite</p> <p>20. O-Ring per tenuta pistone: NBR o VITON</p> <p>21. Vite per assemblaggio testate: autofilettante fino all'alesaggio 63, poi normale a maschiare</p> <p>22. Testata posteriore: lega alluminio da pressofusione</p> <p>23. Camicia: alluminio profilato, calibrato e anodizzato</p> |
|--|--|

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



disegno valido dall'alesaggio 32 all'alesaggio 125 - PISTONE IN ALLUMINIO
the drawing is valid from bore 32 to bore 125 - PISTON IN ALUMINIUM



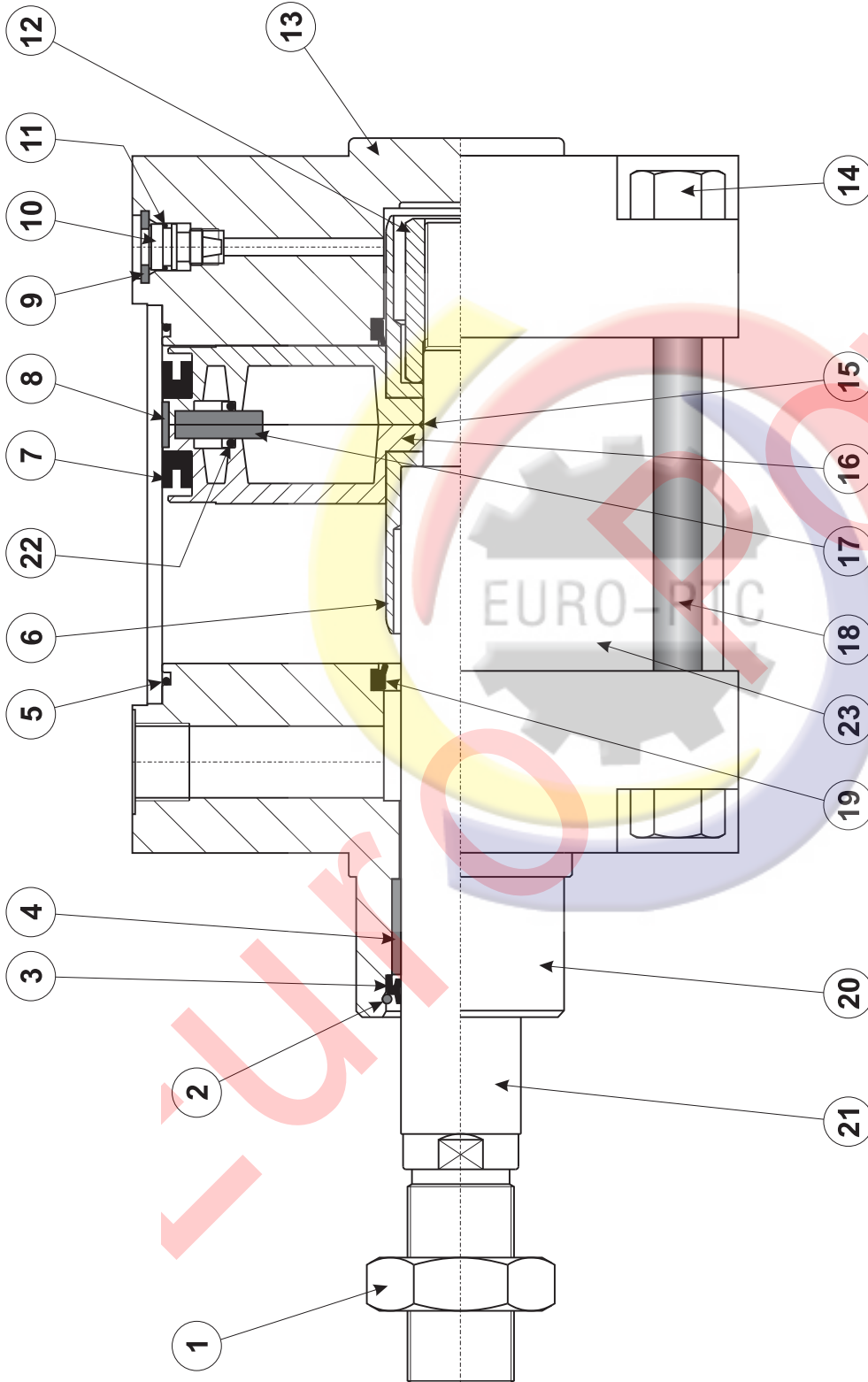
1. Dado esagonale per stelo
3. Guarnizione stelo: poliuretano o VITON
4. Boccola guida: materiale autolubrificante
5. Piastrina di protezione: MOPLEN
6. Ghiera per vite ammortizzo: ottone nichelato
7. Vite ammortizzo: ottone nichelato
8. Guarnizione O-Ring per vite ammortizzo: NBR o VITON
9. Paracolpi: HYTREL
10. Guarnizione ammortizzo: poliuretano o VITON
11. Ogvia: alluminio
12. Guarnizione a labbro per pistone: poliuretano o VITON
13. Anello guida per pistone: bronzo PTFE
14. O-Ring per tenuta testate: NBR o VITON
15. Bussola per bloccaggio stelo: materiale UNI 5105 35S Mn Pb 10, zincato
16. Stelo: acciaio C45 cromato o INOX AISI 304
17. Testata anteriore: lega alluminio da pressofusione
18. Pistone: alluminio
19. Magnete: plastoferrite
20. O-Ring per tenuta pistone: NBR o VITON
21. Vite per assemblaggio testate: autofilettante fino all'alesaggio 63, poi normale a maschiare
22. Testata posteriore: lega alluminio da pressofusione
23. Camicia: alluminio profilato, calibrato e anodizzato

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



disegno valido per l'alesaggio 160 e 200
the drawing is valid for bore 160 and 200



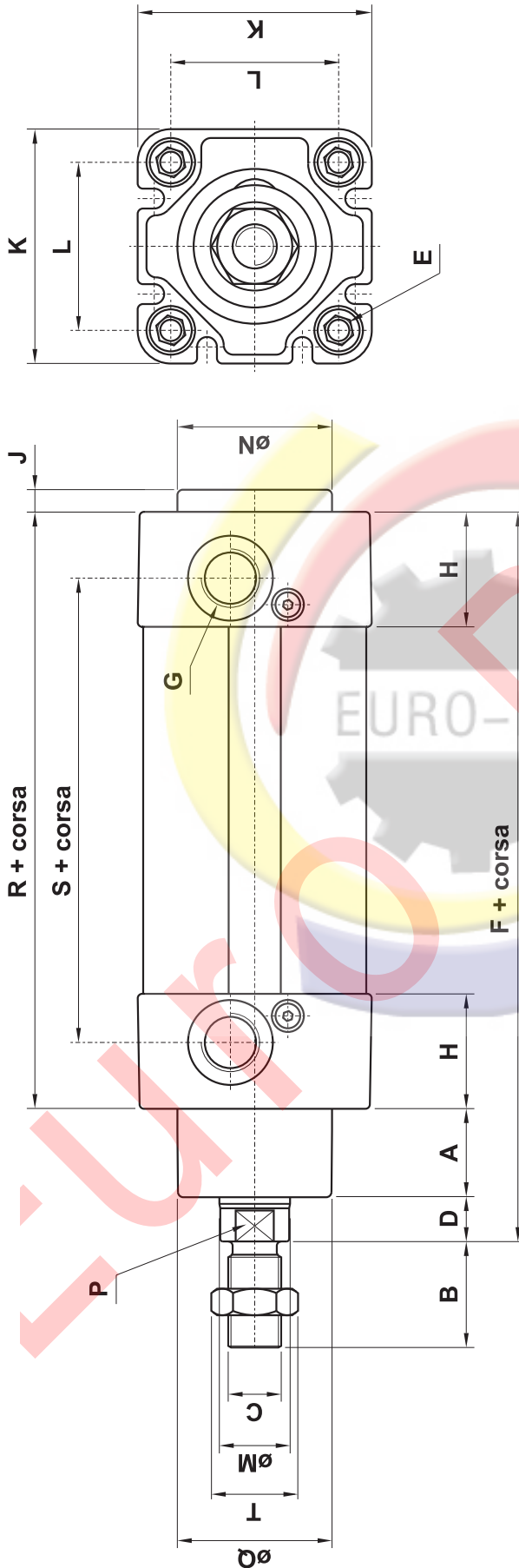
- | | |
|--|---|
| <ul style="list-style-type: none"> 1. Dado esagonale per stelo 2. Anello INOX per fissaggio guarnizione 3. Guarnizione stelo: poliuretano o VITON 4. Boccola guida: bronzo sinterizzato 5. O-Ring per tenuta testate: NBR o VITON 6. Ogiva: alluminio 7. Guarnizione a labbro per pistone: poliuretano o VITON 8. Anello guida per pistone 9. Anello per sicurezza ammortizzo 10. Vite ammortizzo: ottone OT 58 11. Guarnizione O-Ring per vite ammortizzo: NBR o VITON | <ul style="list-style-type: none"> 12. Bussola per bloccaggio stelo 13. Testata posteriore: lega alluminio da fusione in conchiglia 14. Vite per assemblaggio testate 15. O-Ring per tenuta pistone: NBR o VITON 16. Pistone: alluminio 17. Magnete: plastroferrite 18. Tirante: INOX 19. Guarnizione ammortizzo: poliuretano o VITON 20. Testata anteriore: lega alluminio da fusione in conchiglia 21. Stelo: acciaio C45 cromato o INOX AISI 304 22. Guarnizione O-Ring per tenuta pistone: NBR o VITON 23. Camicia: alluminio, tubo tondo |
|--|---|

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



ø32 ... 125



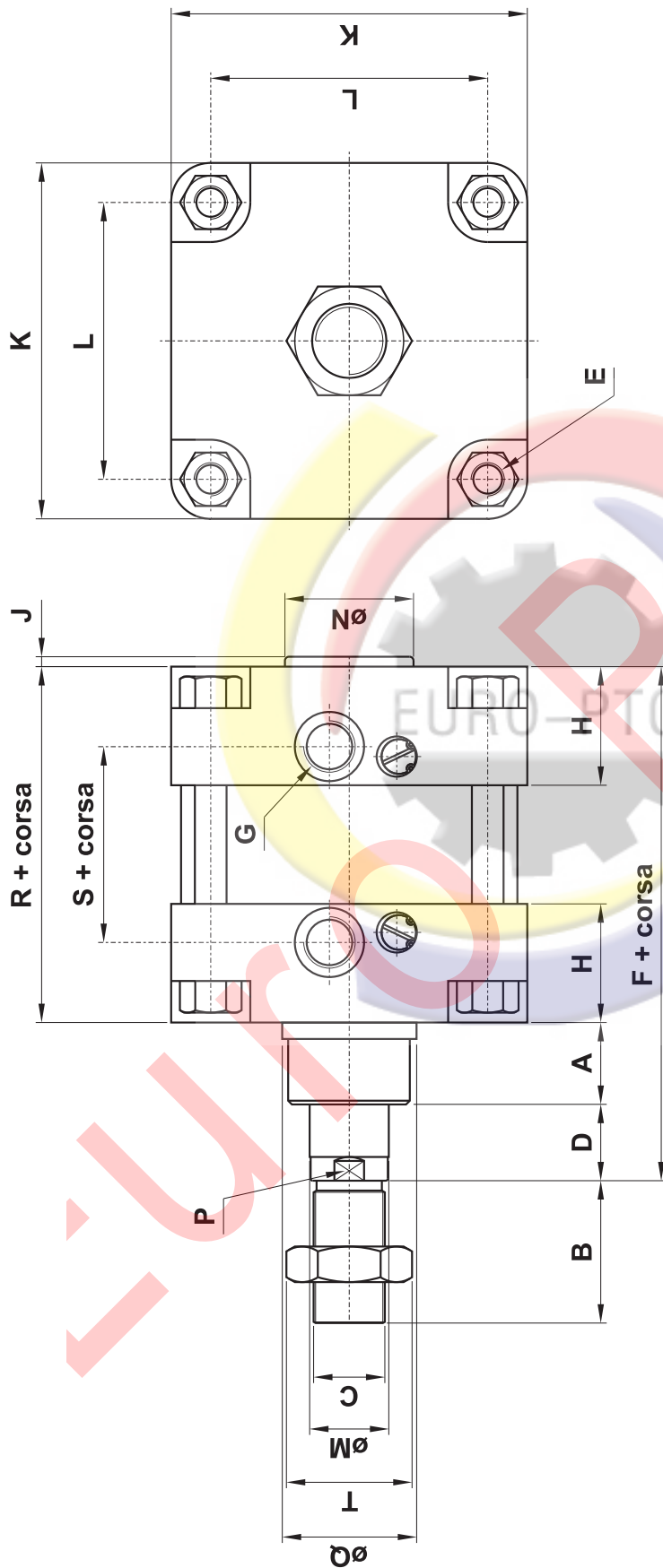
ø	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
32	16	22	M10x1.25	10	M6	120	G1/8"	25.5	5	47	32.5	12	30	CH 10	30	94	63.6	CH 17
40	20	24	M12x1.25	10	M6	135	G1/4"	28	5	53	38	16	35	CH 13	35	105	76	CH 19
50	25	32	M16x1.5	12	M8	143	G1/4"	30	5	64	46.5	20	40	CH 17	40	106	69.4	CH 24
63	25	32	M16x1.5	12	M8	158	G3/8"	31	5	74	56.5	20	45	CH 17	45	121	85.2	CH 24
80	32.5	40	M20x1.5	13.5	M10	174	G3/8"	34	5	94	72	25	45	CH 22	45	128	90	CH 30
100	35	40	M20x1.5	16	M10	189	G1/2"	35	5	112	89	25	55	CH 22	55	138	104	CH 30
125	40	54	M27x2	25	M12	225	G1/2"	41	5	136	110	32	60	CH 27	60	160	112	CH 41

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



ø160-200



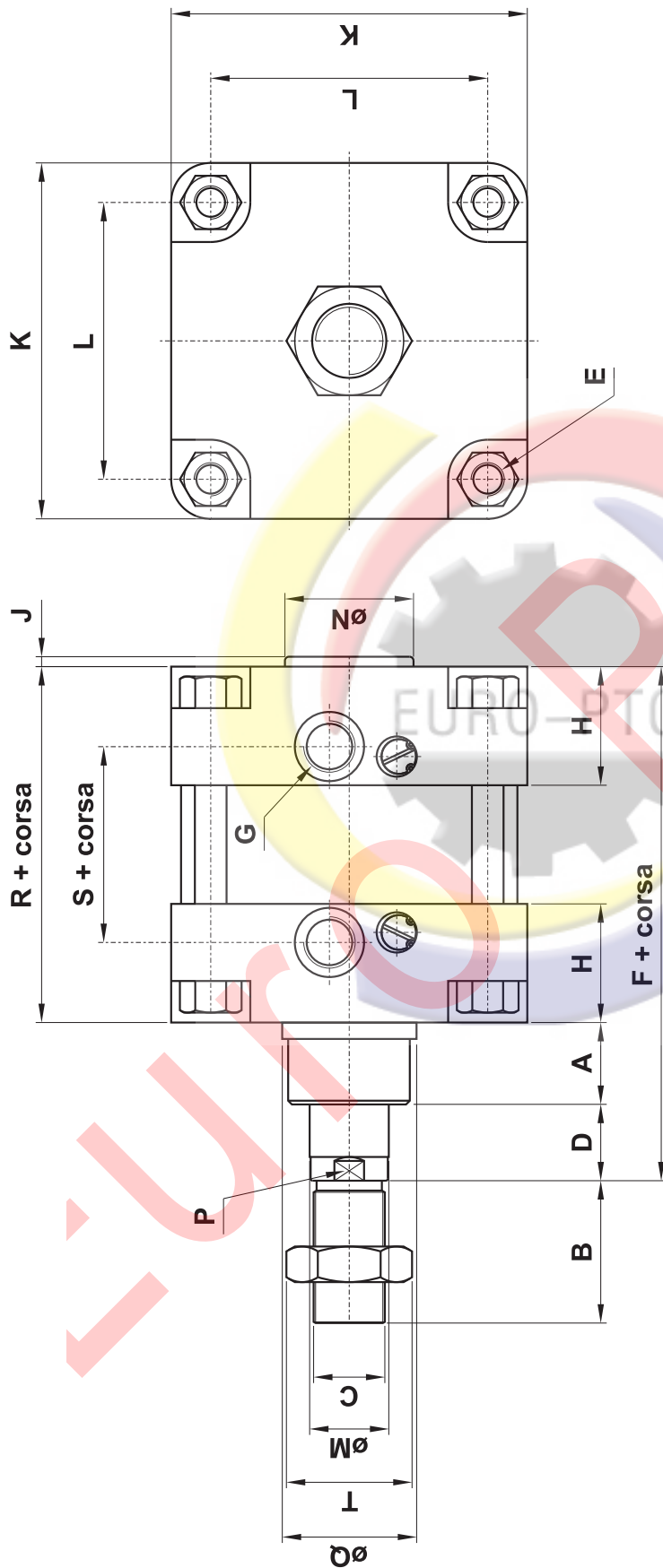
ø	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
160	50	72	M36x2	30	M16	260	G3/4"	50	6	180	140	40	65	CH 36	65	180	119	CH 55
200	55	72	M36x2	40	M16	275	G3/4"	50	6	220	175	40	75	CH 36	75	180	119	CH 55

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



ø250-320



ø	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T
250	76	84	M42x2	29	M20	305	G1"	54	10	270	220	50	90	90	CH 46	200	136	CH 65
320	85	96	M48x2	35	M24	340	G1"	57	10	350	270	63	110	110	CH 55	220	156	CH 75

cilindri ISO 6431 VDMA

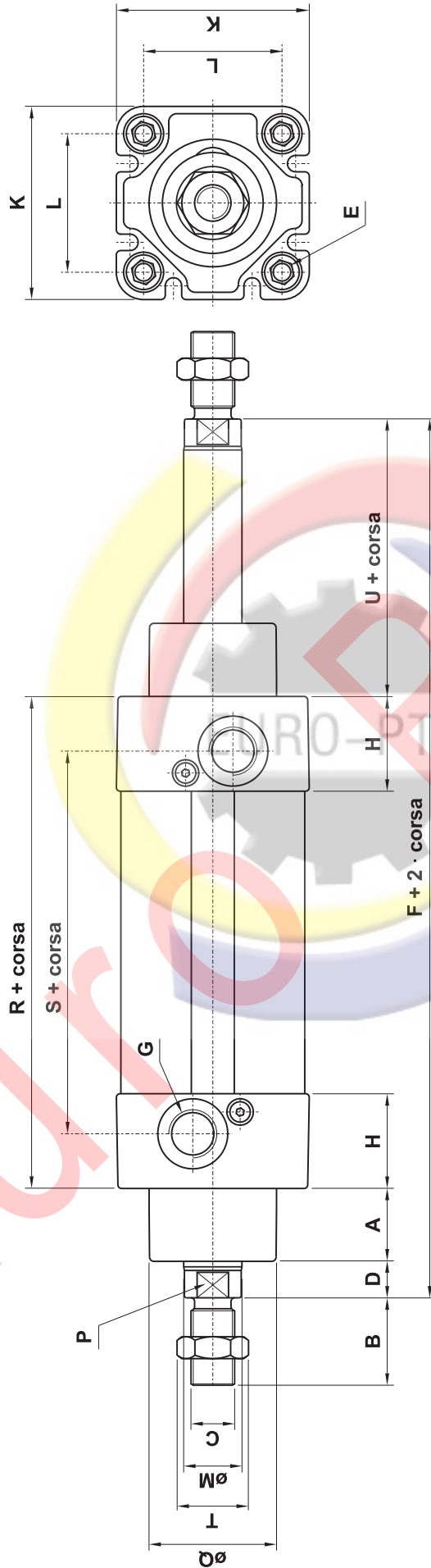
cylinders ISO 6431 VDMA



ø32 ... 125

VERSIONE STELO PASSANTE

Version with passing-through rod



Ø	A	B	C	D	E	F	G	H	K	L	M	P	Q	R	S	T	U
32	16	22	M10x1.25	10	M6	146	G1/8"	25.5	47	32.5	12	CH 10	30	94	63.6	CH 17	26
40	20	24	M12x1.25	10	M6	165	G1/4"	28	53	38	16	CH 13	35	105	75	CH 19	30
50	25	32	M16x1.5	12	M8	180	G1/4"	30	64	46.5	20	CH 17	40	106	69.4	CH 24	37
63	25	32	M16x1.5	12	M8	195	G3/8"	31	74	56.5	20	CH 17	45	121	85.2	CH 24	37
80	32.5	40	M20x1.5	13.5	M10	220	G3/8"	34	94	72	25	CH 22	45	128	90	CH 30	46
100	35	40	M20x1.5	16	M10	240	G1/2"	35	112	89	25	CH 22	55	138	104	CH 30	51
125	40	54	M27x2	25	M12	290	G1/2"	41	136	110	32	CH 27	60	160	112	CH 41	65

cilindri ISO 6431 VDMA

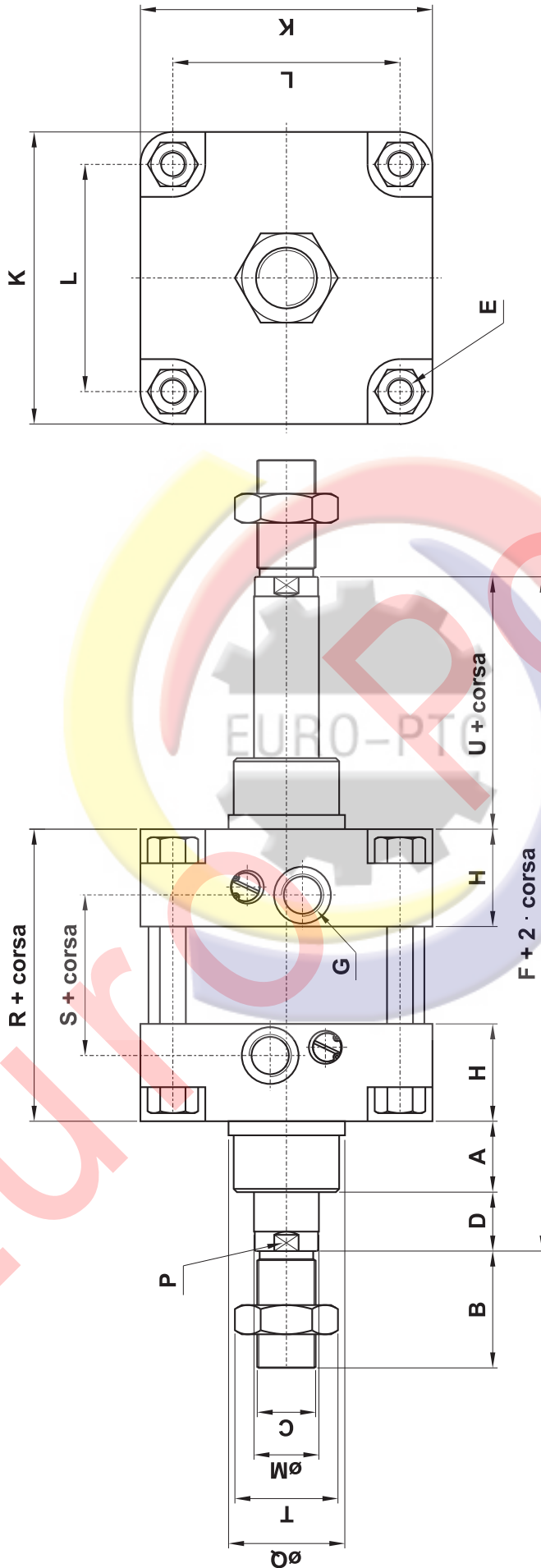
cylinders ISO 6431 VDMA



ø160-200

VERSIONE STELO PASSANTE

Version with passing-through rod



ø	A	B	C	D	E	F	G	H	K	L	M	P	Q	R	S	T	U
160	50	72	M36x2	30	M16	340	G3/4"	50	180	140	40	CH 36	65	180	119	CH 55	80
200	55	72	M36x2	40	M16	370	G3/4"	50	220	175	40	CH 36	75	180	119	CH 55	95

kit guarnizioni di ricambio

seals kit

MAGNETICO, guarnizioni standard

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	SGM032	21.100.2	32	SGM032P	21.110.2
40	SGM040	21.101.2	40	SGM040P	21.111.2
50	SGM050	21.102.2	50	SGM050P	21.112.2
63	SGM063	21.103.2	63	SGM063P	21.113.2
80	SGM080	21.104.2	80	SGM080P	21.114.2
100	SGM100	21.105.2	100	SGM100P	21.115.2
125	SGM125	21.106.2	125	SGM125P	21.116.2
160	SGM160	21.107.2	160	SGM160P	21.117.2
200	SGM200	21.108.2	200	SGM200P	21.118.2

MAGNETICO, guarnizioni VITON

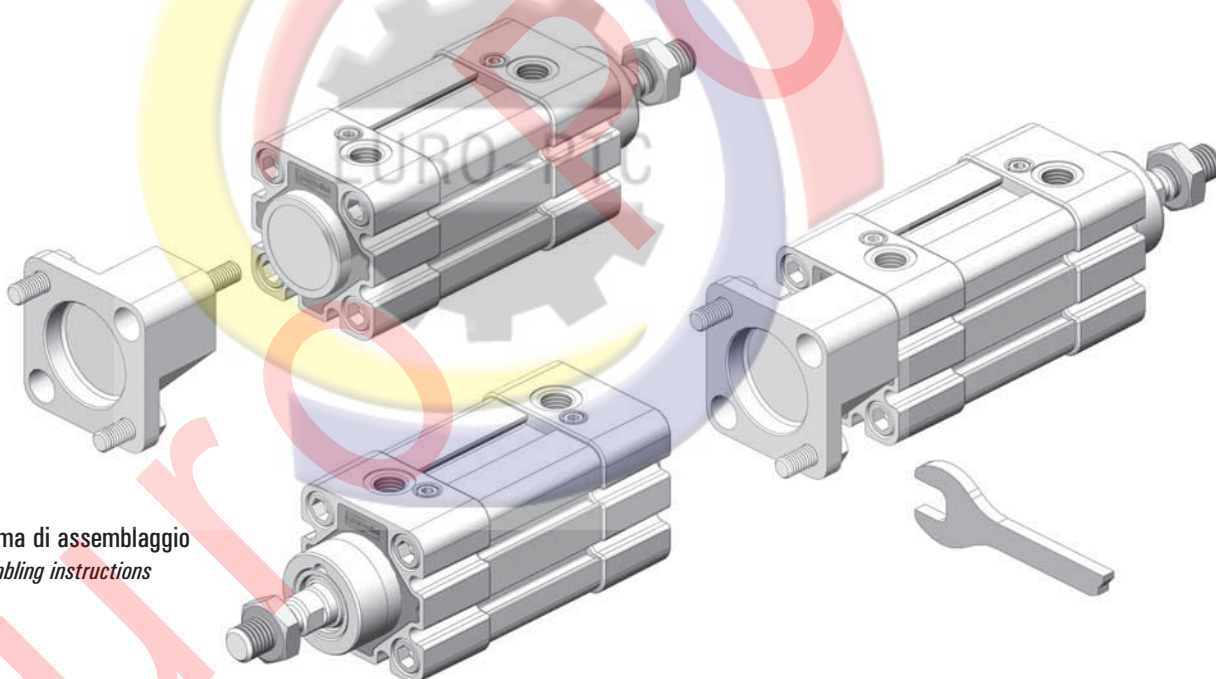
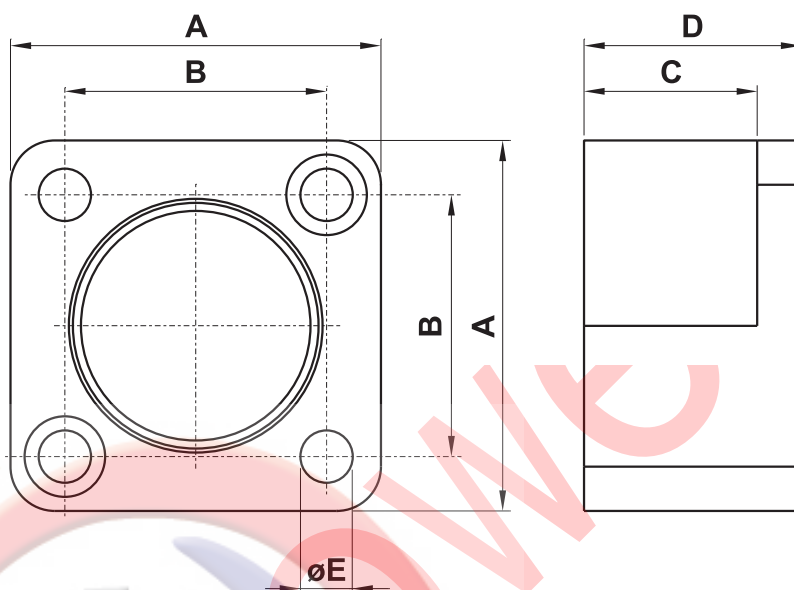
normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	SGM032V	21.120.2	32	SGM032PV	21.130.2
40	SGM040V	21.121.2	40	SGM040PV	21.131.2
50	SGM050V	21.122.2	50	SGM050PV	21.132.2
63	SGM063V	21.123.2	63	SGM063PV	21.133.2
80	SGM080V	21.124.2	80	SGM080PV	21.134.2
100	SGM100V	21.125.2	100	SGM100PV	21.135.2
125	SGM125V	21.126.2	125	SGM125PV	21.136.2
160	SGM160V	21.127.2	160	SGM160PV	21.137.2
200	SGM200V	21.128.2	200	SGM200PV	21.138.2

flangia intermedia per cilindri ISO 6431 contrapposti

intermediate flange for opposite ISO 6431 cylinders

Questa flangia intermedia deve essere inserita tra due cilindri ISO 6431 VDMA per formare un cilindro contrapposto. È venduta in kit con tutti i particolari necessari al suo assemblaggio.

This intermediate flange is inserted between two ISO 6431 VDMA cylinders to form an opposite cylinder. It is sold in kit with all necessary pieces for installation.



Schema di assemblaggio
Assembling instructions

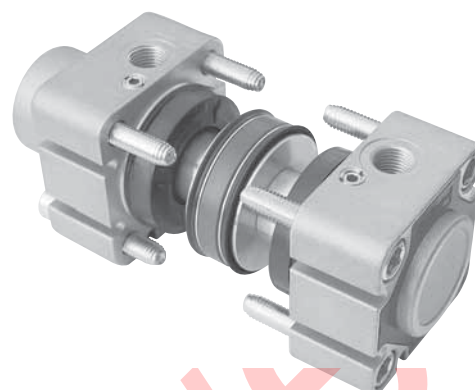
codice <i>code</i>	per alesaggio <i>for bore</i>	A	B	C	D	E
21.190.2	32	46	32.5	21.5	27	6.5
21.191.2	40	52	38	20.5	27	6.5
21.192.2	50	63	46.5	25.5	32	8.5
21.193.2	63	73	56.5	21.5	28	8.5
21.194.2	80	92	72	31	38	10.5
21.195.2	100	110	89	31	38	10.5
21.196.2	125	134	110	33	44	12.5

kit cilindro

cylinder kit

Il kit comprende:

- testate premontate con boccola, paracolpi e ammortizzo
- pistone con magnete, guarnizioni e anello di guida (per pistone in alluminio)
- ogive
- viti
- piastrine di protezione
- tutte le guarnizioni necessarie



MAGNETICO, guarnizioni standard

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	KSM032	21.001.3	32	KSM032P	21.011.3
40	KSM040	21.002.3	40	KSM040P	21.012.3
50	KSM050	21.003.3	50	KSM050P	21.013.3
63	KSM063	21.004.3	63	KSM063P	21.014.3
80	KSM080	21.005.3	80	KSM080P	21.015.3
100	KSM100	21.006.3	100	KSM100P	21.016.3
125	KSM125	21.007.3	125	KSM125P	21.017.3
160	KSM160	21.008.3	160	KSM160P	21.018.3
200	KSM200	21.009.3	200	KSM200P	21.019.3

MAGNETICO, guarnizioni VITON

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	KSM032V	21.021.3	32	KSM032PV	21.031.3
40	KSM040V	21.022.3	40	KSM040PV	21.032.3
50	KSM050V	21.023.3	50	KSM050PV	21.033.3
63	KSM063V	21.024.3	63	KSM063PV	21.034.3
80	KSM080V	21.025.3	80	KSM080PV	21.035.3
100	KSM100V	21.026.3	100	KSM100PV	21.036.3
125	KSM125V	21.027.3	125	KSM125PV	21.037.3
160	KSM160V	21.028.3	160	KSM160PV	21.038.3
200	KSM200V	21.029.3	200	KSM200PV	21.039.3

Maggiori informazioni sono disponibili all'indirizzo internet <http://www.azpneumatica.com/azweb/ita/kitcil.htm>

More information is available at the internet address <http://www.azpneumatica.com/azweb/ita/kitcil.htm>

istruzioni per il montaggio dei kit cilindro

instructions to assemble cylinder kit

ISTRUZIONI PER L'USO DEI KIT MONTAGGIO CILINDRI ISO 6431

I componenti contenuti nei kit AZ Pneumatica per il montaggio dei cilindri pneumatici ISO 6431 sono costruiti con materiali di prima qualità. Le testate pressofuse e tutti i componenti interni sono lavorati con torni e centri di lavoro a controllo numerico, assicurando così qualità costante e preciso rispetto delle tolleranze dimensionali. Le caratteristiche costruttive e progettuali del cilindro offrono alte prestazioni anche nelle condizioni di lavoro più difficili.

Per far sì che dette qualità divengano effettive, è necessario che il montaggio sia eseguito esattamente secondo le istruzioni qui sotto riportate. È necessario altresì rispettare tutte le norme di sicurezza durante il montaggio e il collaudo del cilindro.

1. OPERAZIONI PRELIMINARI

Prima del montaggio soffiare con aria compressa e pulire accuratamente, senza danneggiare le superfici di tenuta, tutti i componenti e l'interno della camicia precedentemente tagliata alla lunghezza desiderata. Il cilindro deve essere montato in un ambiente di lavoro pulito e privo di polvere.

2. MONTAGGIO DEL PISTONE SULLO STELO

Sullo stelo infilare, in ordine, facendo riferimento alla figura 1, i seguenti componenti: ogiva, semipistone, guarnizione O-Ring, magneti (i quali devono attrarsi), semipistone, ogiva.

Prima di avvitare il dado di serraggio mettere sul filetto dello stelo una-due gocce di frenafili (Loctite 242 o simile). Avvitare il dado sullo stelo rispettando il momento di serraggio indicato nella seguente tabella:

alesaggio bore	momento di serraggio - torque	
	pistone alluminio piston in aluminium	pistone tecnopolimero piston in technopolymer
32	10 Nm	7 Nm
40	20 Nm	9 Nm
50	30 Nm	15 Nm
63	45 Nm	19 Nm
80	60 Nm	27 Nm
100	60 Nm	35 Nm
125	70 Nm	-

figura 1

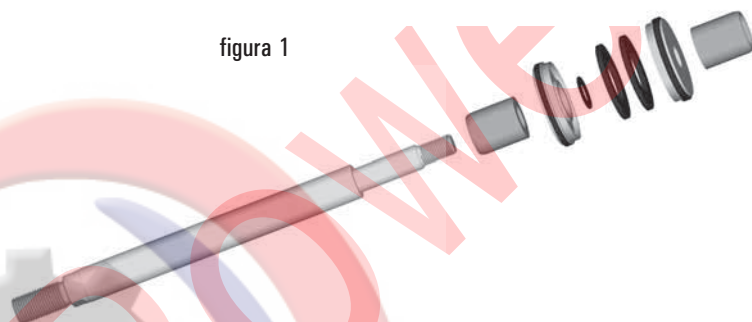
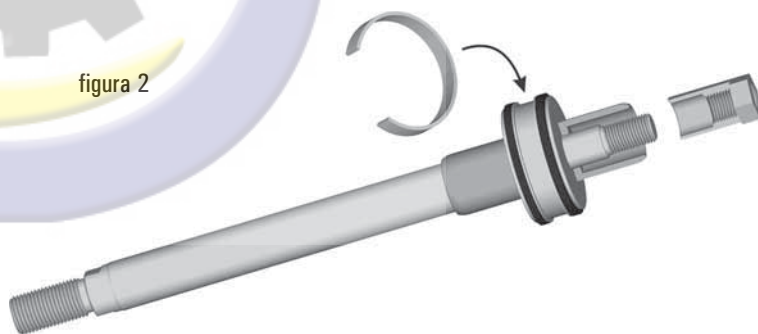


figura 2

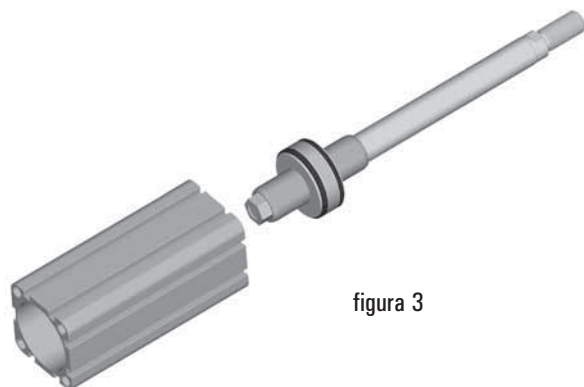


3. INSERIMENTO DEL BLOCCO STELO-PISTONE NELLA CAMICIA

Con un grasso adatto (da ordinarsi eventualmente alla AZ Pneumatica) lubrificare leggermente l'interno della camicia, le guarnizioni del pistone e le guarnizioni delle testate.

Posizionare attorno al pistone l'anello guida in teflon-rame, disponibile solo per pistoni in alluminio (vedi figura 2), lubrificato con grasso, e infilare nella camicia (vedi figura 3) il blocco stelo-pistone precedentemente assemblato, facendo attenzione a non danneggiare le guarnizioni del pistone. Per facilitare questa operazione è possibile ordinare un apposito adattatore alla AZ Pneumatica.

figura 3



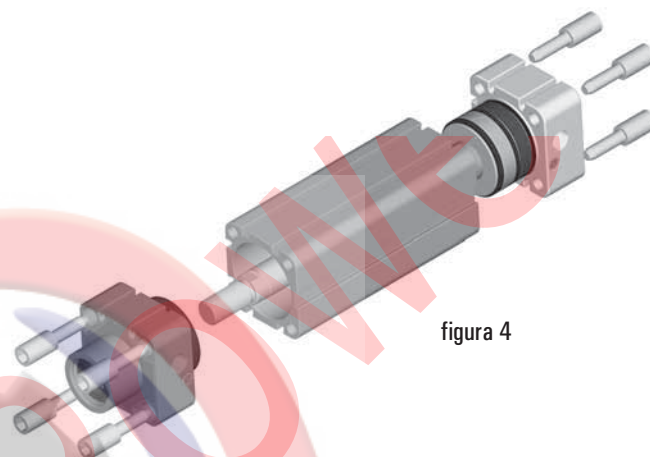
4. MONTAGGIO DELLE TESTATE

Infilare la testata anteriore e posteriore nel tubo, facendo attenzione a non danneggiare le guarnizioni O-Ring.

Le viti di serraggio delle testate sono autofilettanti fino al filetto M8 (cioè al cilindro alesaggio 63). Per le viti di diametro superiore è consigliabile filettare la camicia, anche se è possibile, seppure con fatica, utilizzarle come se fossero autofilettanti. In ogni caso è necessario, prima di procedere ad avvitare le viti, lubrificare il filetto con qualche goccia di olio idraulico. Avvitare manualmente o con un utensile pneumatico quasi fino alla fine. Per stringere definitivamente le viti occorre utilizzare una chiave dinamometrica o un utensile pneumatico con indicazione del momento di serraggio. Agire in modo progressivo fino a raggiungere il momento indicato nella tabella seguente:

MOMENTO DI SERRAGGIO PER LE VITI DI MONTAGGIO TESTATE

alesaggio <i>bore</i>	momento di serraggio <i>torque</i>
32	10 Nm
40	10 Nm
50	22 Nm
63	22 Nm
80	40 Nm
100	40 Nm
125	50 Nm



Avvitare il dado sulla parte anteriore dello stelo, e con ciò il cilindro è montato.

5. COLLAUDO

Collegare il cilindro a una valvola 5 vie e azionarlo alcune volte per verificarne preliminarmente il corretto funzionamento.

Effettuare poi le operazioni qui di seguito descritte alla pressione di 2 bar e alla pressione di 7 bar (o più).

- verificare la perfetta tenuta della testata anteriore e della sede della vite di ammortizzo;
- verificare la perfetta tenuta della testata posteriore e della sede della vite di ammortizzo;
- verificare la perfetta tenuta della guarnizione raschiastelo;
- verificare la perfetta tenuta del pistone tra le due camere.

Per ovvi motivi, le suddette operazioni vanno eseguite con alimentazione d'aria inserita.

Una volta verificata la perfetta tenuta del cilindro in ogni sua parte, regolare gli ammortizzi secondo necessità e inserire, eventualmente, i tappi nelle bocche di alimentazione. Il cilindro è con ciò pronto per essere utilizzato.

Nel caso di dubbi si prega contattare la AZ Pneumatica.

profilo STANDARD per serie N

	codice di ordinazione <i>order code</i>	dimensioni - <i>dimensions</i> [mm]					peso <i>weight</i> [kg/m]
		A	B	C	D	E	
	000.510.7	ø32 H11	32.5	44.5	17	-	2.198
	000.511.7	ø40 H11	38	50.5	23	-	2.506
	000.512.7	ø50 H11	46.5	60.3	26	-	3.394
	000.513.7	ø63 H11	56.5	70	37	35	3.452
	000.514.7	ø80 H11	72	87	45	45	5.214
	000.515.7	ø100 H12	89	106	50	46	5.619
	000.516.7	ø125 H12	110	132	56	50	7.788

composizione chimica <i>chemical composition</i>	Cu	Fe	Mn	Mg	Si	Zn	Cr	Ti	Al
	≤ 0.10	≤ 0.35	≤ 0.10	0.45 ÷ 0.90	0.20 ÷ 0.60	≤ 0.10	≤ 0.10	≤ 0.10	resto

Fori di fissaggio

dal ø32 al ø63 : predisposti per la filettatura metrica mediante rullatura o per l'impiego di viti autofilettanti

dal ø80 al ø125 : predisposti per la filettatura metrica mediante rullatura

Fixing holes

from ø32 to ø63 : prepared for metric thread through rolling or self-tapping screws

from ø80 to ø125 : prepared for metric thread through rolling

Tubo tondo per cilindri - Round profile for cylinders

ø160: 000.517.7

ø200: 000.518.7

profilo EASY per serie E

	codice di ordinazione <i>order code</i>	dimensioni - <i>dimensions</i> [mm]					peso <i>weight</i> [kg/m]
		A	B	C	D	E	
	000.530.7	ø32 H11	36	32.5	44.4	13±0.2	1.407
	000.531.7	ø40 H11	44	38	51	18.8±0.2	1.644
	000.532.7	ø50 H11	54	46.5	60.8	22.4±0.25	2.035
	000.533.7	ø63 H11	67	56.5	70.9	32.6±0.3	2.312
	000.534.7	ø80 H11	84	72	87	41±0.3	2.877
	000.535.7	ø100 H12	104.5	89	105.5	53±0.3	3.873
	000.536.7	ø125 H12	130	110	131	64±0.35	5.316

composizione chimica <i>chemical composition</i>	Cu	Fe	Mn	Mg	Si	Zn	Cr	Ti	Al
	≤ 0.10	≤ 0.35	≤ 0.10	0.45÷0.90	0.20÷0.60	≤ 0.10	≤ 0.10	≤ 0.10	resto

Fori di fissaggio

dal ø32 al ø63 : predisposti per la filettatura metrica mediante rullatura o per l'impiego di viti autofilettanti

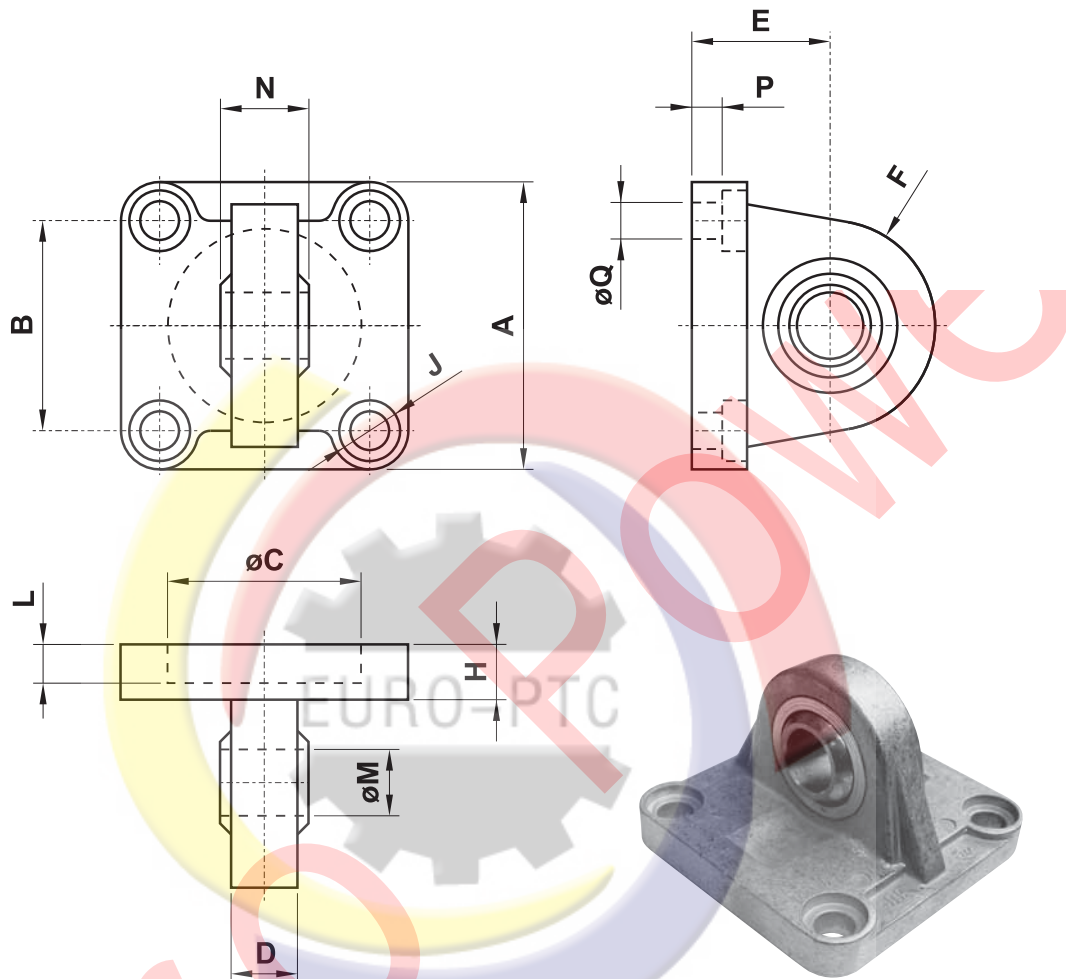
dal ø80 al ø125 : predisposti per la filettatura metrica mediante rullatura

Fixing holes

from ø32 to ø63 : prepared for metric thread through rolling or self-tapping screws

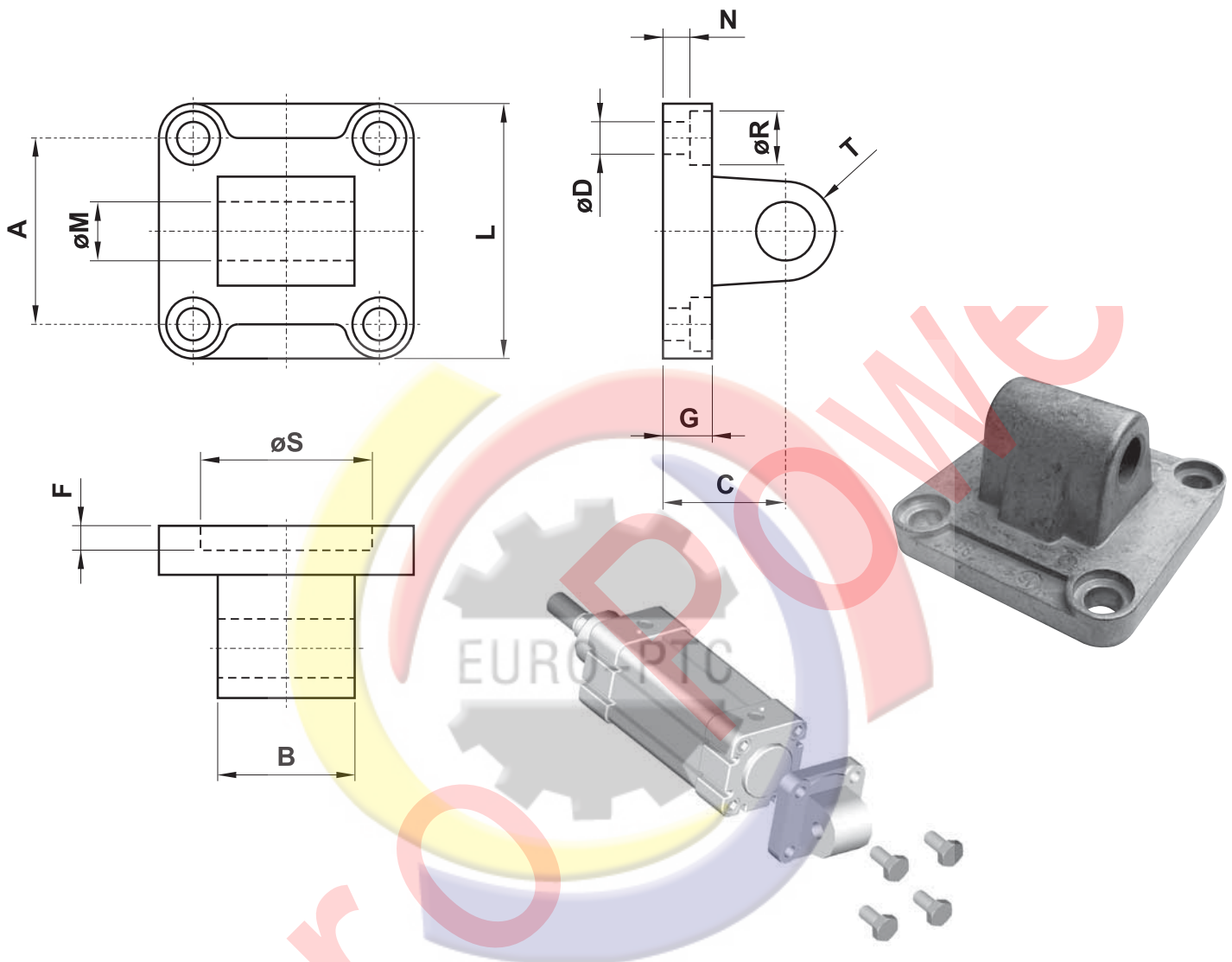
from ø80 to ø125 : prepared for metric thread through rolling

CERNIERA MASCHIO STRETTA CON TESTINA SNODATA DIN 648 K (narrow male hinge with articulated head DIN 648 K)



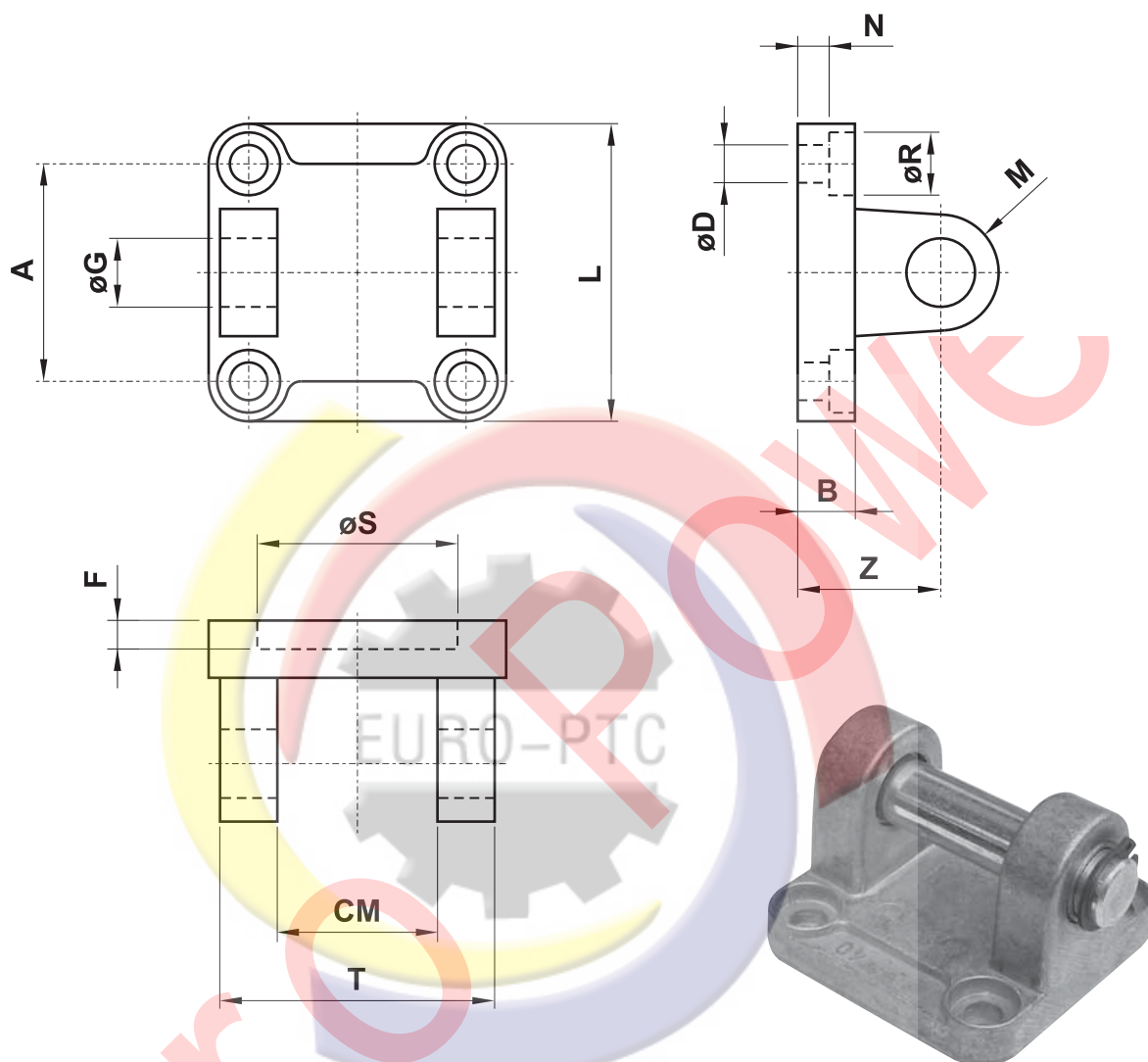
sigla part number	per alesaggio for bore	A	B	C	D	E	F	H	J	L	M	N	P	Q
CMSS032	32	45	32.5	30	10.5	22	16	9	∅11	5	10	14	5.5	6.6
CMSS040	40	52	38	35	12	25	19	9	∅11	5	12	16	5.5	6.6
CMSS050	50	65	46.5	40	15	27	21	11	∅15	5	16	21	6.5	9
CMSS063	63	75	56.5	45	15	32	24	11	∅15	5	16	21	6.5	9
CMSS080	80	95	72	45	18	36	28.5	14	∅18	5	20	25	10	11
CMSS100	100	115	89	55	18	41	30	14	∅18	5	20	25	10	11
CMSS125	125	140	110	60	25	50	40	20	∅20	7	30	37	10	13.5
CMSS160	160	180	140	65	28	55	45	20	∅26	7	35	43	10	18
CMSS200	200	220	175	75	28	60	48	25	∅26	7	35	43	11	18

CERNIERA MASCHIO MP4 (male hinge MP4)



sigla part number	sigla part number	per alesaggio for bore	A	B	C	D	F	G	L	M	N	R	S	T
standard	con boccia di bronzo													
CMIS032	CMKS032	32	32.5	26	22	6.6	5	9	45	10	5.5	11	30	10
CMIS040	CMKS040	40	38	28	25	6.6	5	9	52	12	5.5	11	35	12
CMIS050	CMKS050	50	46.5	32	27	9	5	11	65	12	6.5	15	40	12
CMIS063	CMKS063	63	56.5	40	32	9	5	11	75	16	6.5	15	45	16
CMIS080	CMKS080	80	72	50	36	11	5	14	95	16	10	18	45	16
CMIS100	CMKS100	100	89	60	41	11	5	14	115	20	10	18	55	20
CMIS125	CMKS125	125	110	70	50	14	7	20	140	25	10	20	60	25
CMIS160	CMKS160	160	140	90	55	18	7	20	180	30	10	26	65	25
CMIS200	CMKS200	200	175	90	60	18	7	25	220	30	11	26	75	25

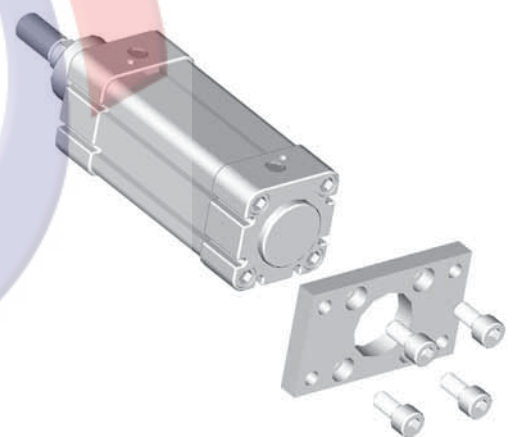
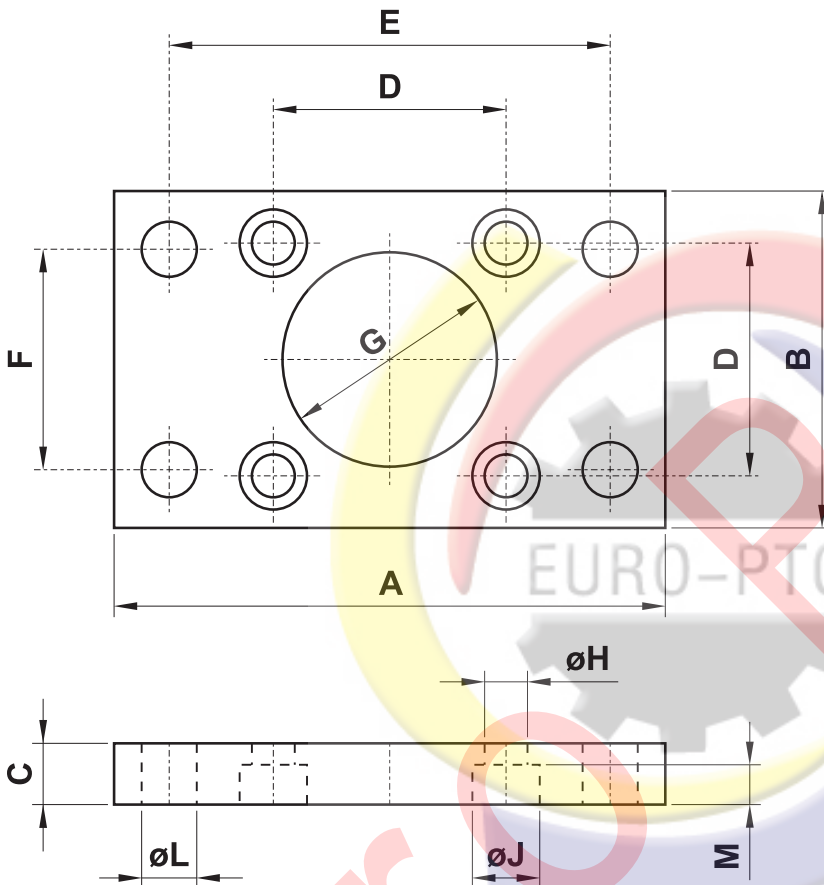
CERNIERA FEMMINA MP2 CON PERNO (female hinge MP2 with pin)



sigla part number	sigla part number	per alesaggio for bore	A	B	CM	D	F	G	L	M	N	R	S	T	Z
standard	con boccola di bronzo														
CFIS032	CFKS032	32	32.5	9	26	6.6	5	10	45	10	5.5	11	30	45	22
CFIS040	CFKS040	40	38	9	28	6.6	5	12	52	12	5.5	11	35	52	25
CFIS050	CFKS050	50	46.5	11	32	9	5	12	65	12	6.5	15	40	60	27
CFIS063	CFKS063	63	56.5	11	40	9	5	16	75	16	6.5	15	45	70	32
CFIS080	CFKS080	80	72	14	50	11	5	16	95	16	10	18	45	90	36
CFIS100	CFKS100	100	89	14	60	11	5	20	115	20	10	18	55	110	41
CFIS125	CFKS125	125	110	20	70	14	7	25	140	25	10	20	60	130	50
CFIS160	CFKS160	160	140	20	90	18	7	30	180	25	10	26	65	170	55
CFIS200	CFKS200	200	175	25	90	18	7	30	220	25	11	26	75	170	60

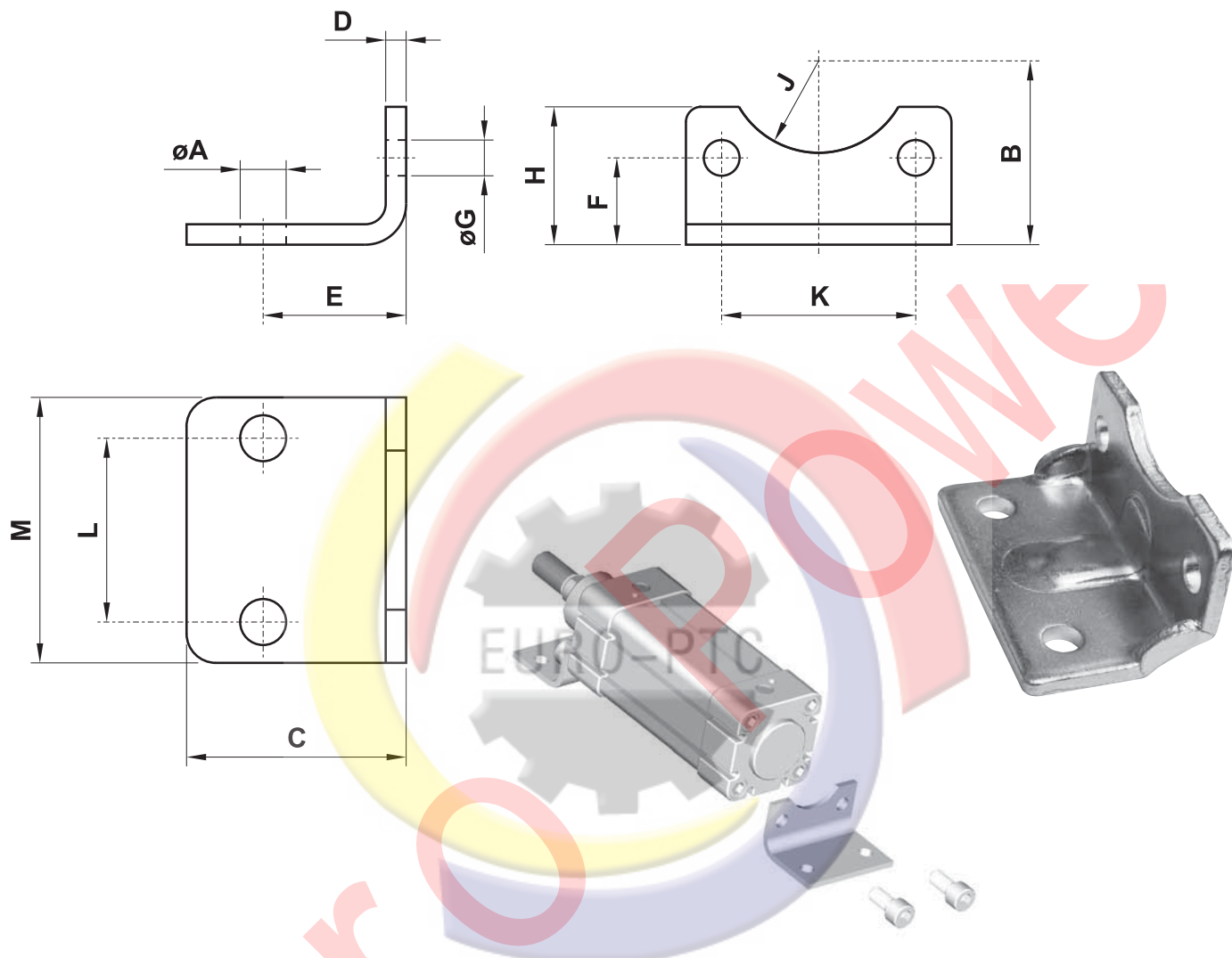


FLANGIA (flange)



sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M
FLIS032	32	80	45	10	32.5	64	32	ø30	6.6	10.5	7	6.5
FLIS040	40	90	52	10	38	72	36	ø35	6.6	11	9	6.5
FLIS050	50	110	65	12	46.5	90	45	ø40	9	15	9	8.5
FLIS063	63	120	75	12	56.5	100	50	ø45	9	15	9	8.5
FLIS080	80	150	95	16	72	126	63	ø45	11	18	12	10.5
FLIS100	100	170	115	16	89	150	75	ø55	11	18	14	10.5
FLIS125	125	205	140	20	110	180	90	ø60	13.5	20	16	12.5
FLIS160	160	260	180	20	140	230	115	ø65	18	26	18	16.5
FLIS200	200	300	220	25	175	270	135	ø75	18	26	22	16.5

PIEDINO (foot mounting)

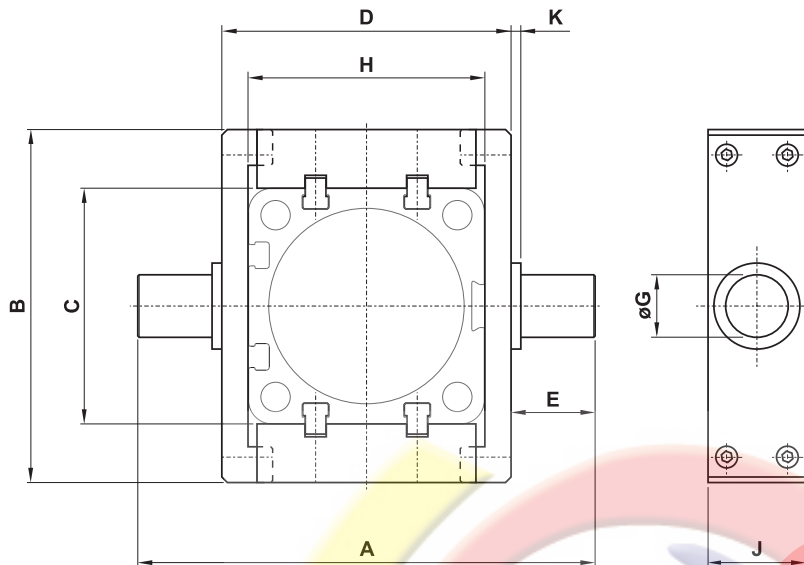


sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J	K	L	M
PBIS032	32	7	32	35	4	24	15.75	7	30	15	32.5	32	45
PBIS040	40	9	36	36	4	28	17	7	30	17.5	38	36	52
PBIS050	50	9	45	47	5	32	21.75	9	36	20	46.5	45	65
PBIS063	63	9	50	45	5	32	21.75	9	35	22.5	56.5	50	75
PBIS080	80	12	63	55	6	41	27	11	47	22.5	72	63	95
PBIS100	100	14	71	57	6	41	26.5	11	53	27.5	89	75	115
PBIS125	125	16	90	70	8	45	35	14	70	30	110	90	140
PBIS160	160	18	115	75	9	60	45	18	100	32.5	140	115	180
PBIS200	200	22	135	100	12	70	47.5	18	100	37.5	175	135	220

* La sigla si riferisce a un solo piedino e non alla coppia

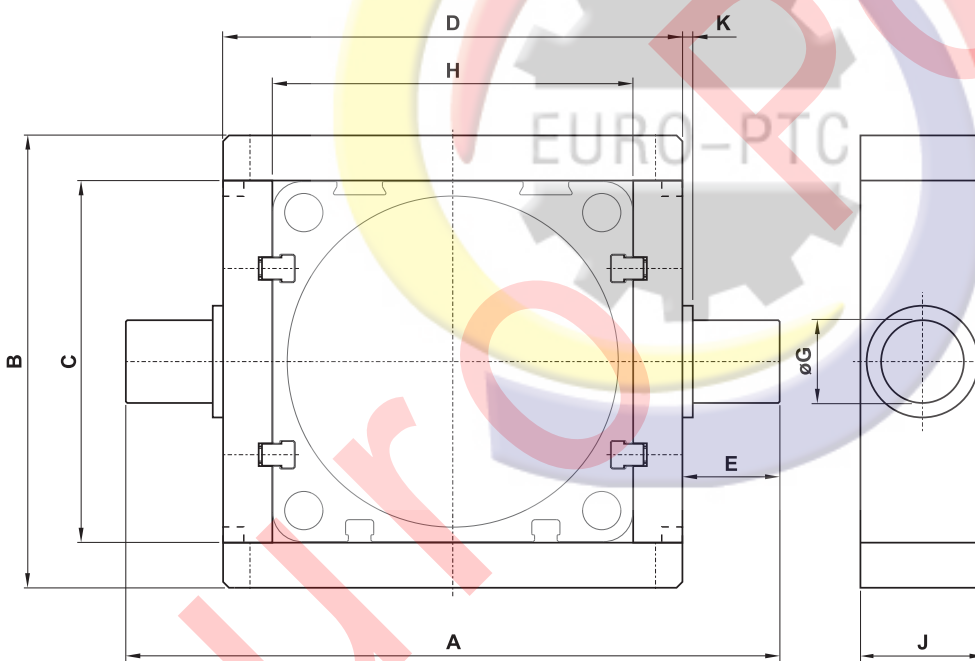
* The part number is referred to only one element and not to the couple

CERNIERA INTERMEDIA PER ESTRUSO - SOLO PER SERIE "N" (intermediate trunnion - ONLY FOR SERIES "N")



alesaggi: 32, 40, 50

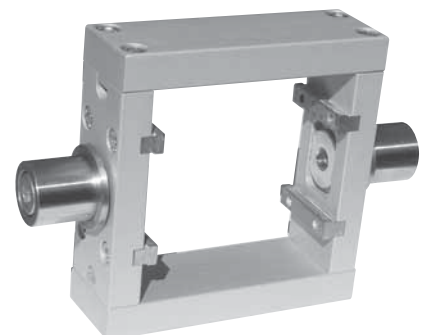
bores: 32, 40, 50



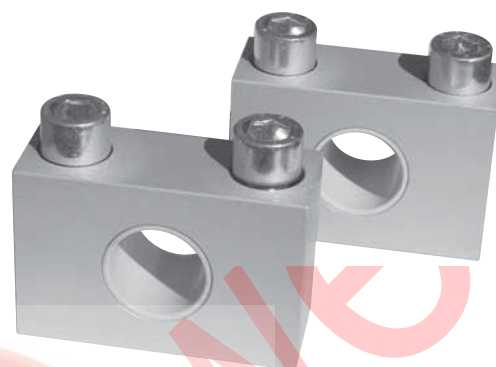
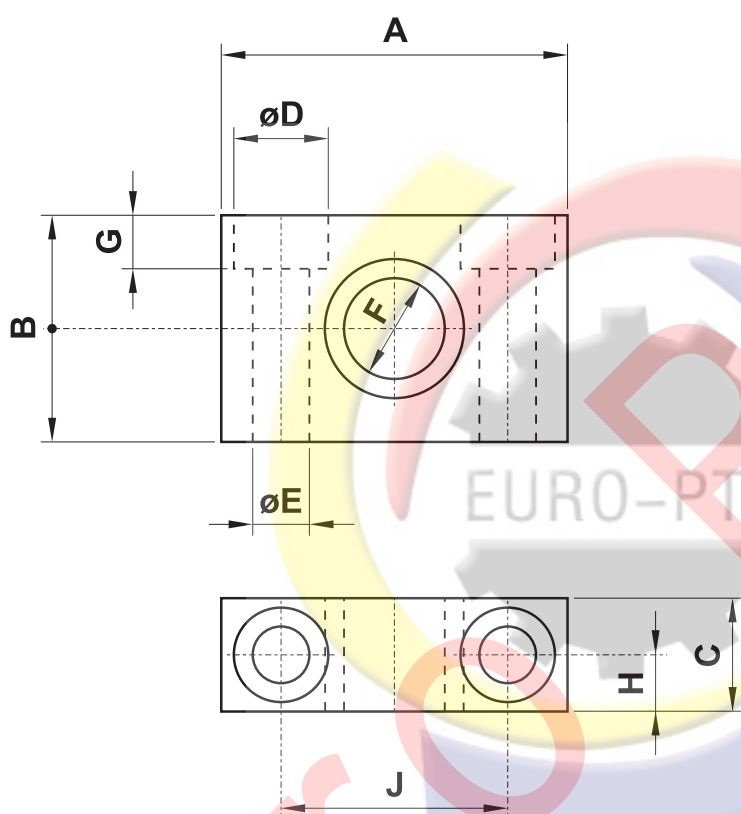
alesaggi: 63, 80, 100, 125

bores: 63, 80, 100, 125

sigla part number	per alesaggio for bore	A	B	C	D	E	G	H	J	K
CIN032	32	87	65	44.5	52	17.5	12	45	25	2
CIN040	40	105	74.8	50.5	62	21.5	16	51	25	2.5
CIN050	50	117	90.3	60.3	74	21.5	16	60.8	25	2.5
CIN063	63	136	94.5	70.5	91	22.5	20	70	30	2.5
CIN080	80	156	109.3	87.5	111	22.5	20	87	30	2.5
CIN100	100	195	134	106.6	129	33	25	106	40	2.5
CIN125	125	223	160	132.6	157	33	25	132	40	2.5



SNODO PER CERNIERA INTERMEDIA (support for intermediate trunnion)

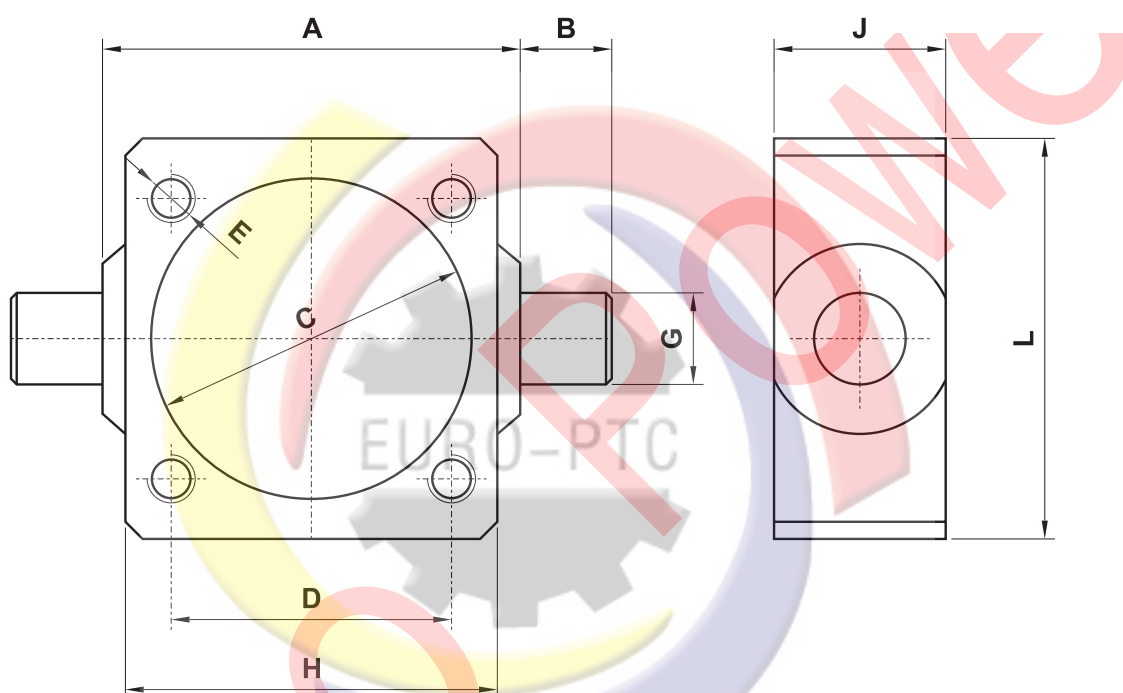


sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J
SNINT 032 B	32	46	30	15	10.5	6.5	∅12	6.5	7.5	32
SNINT 040-050 B	40-50	55	35	20	14	9	∅16	8	10	36
SNINT 063-080 B	63-80	65	40	20	17	11	∅20	12	10	42
SNINT 100-125 B	100-125	75	50	30	19	14	∅25	10	15	50

* La sigla si riferisce a una coppia di snodi

* The part number is referred to a couple of elements

CERNIERA INTERMEDIA FISSA (fixed intermediate trunnion) per cilindri da alesaggio 160 e 200 versione a tiranti

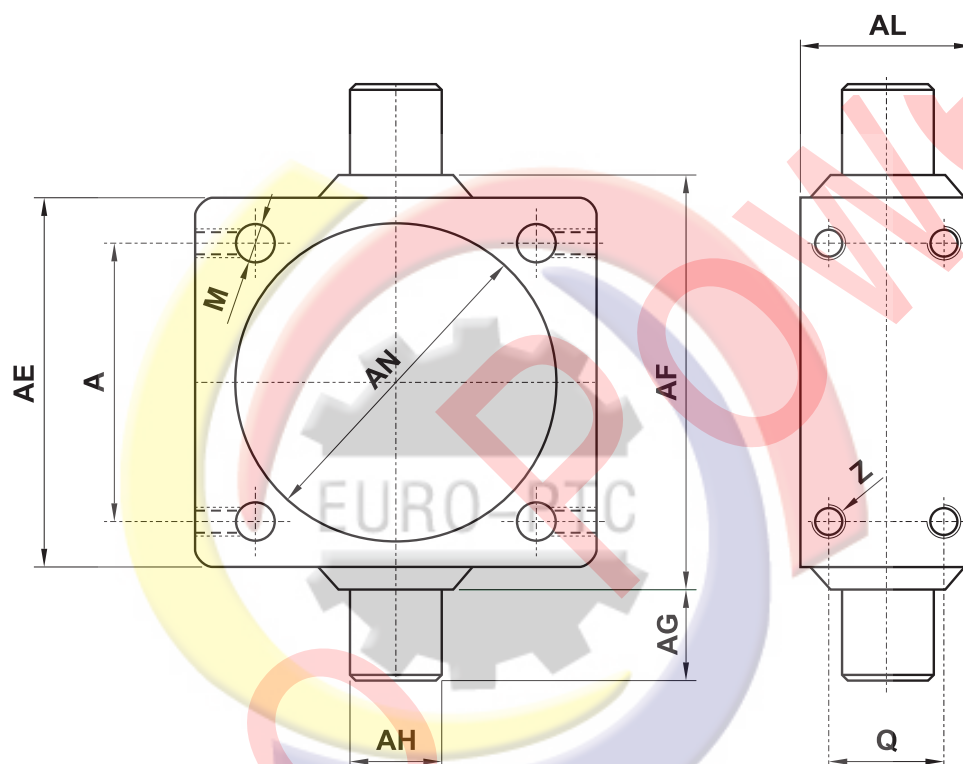


Questa cerniera intermedia può essere montata solo su cilindri a tubo tondo con tiranti. Al momento dell'ordine dei cilindri specificare chiaramente questa caratteristica, fornendo anche precise indicazioni riguardo alla posizione di montaggio della cerniera sul cilindro.

This fixing element can be mounted only on a cylinder with round barrel and tie-rods. The request for cylinders with tie-rods must be clearly specified on the order. On the order please specify also the position where the fixing element should be mounted on the cylinder.

sigla part number	per alesaggio for bore	A	B	C	D	E	G	H	J	L
CSIS160TI	160	200	32	ø171	140	M16	ø32	190	40	190
CSIS200TI	200	250	32	ø211	175	M16	ø32	240	40	240

CERNIERA INTERMEDIA REGOLABILE (adjustable intermediate trunnion) per cilindri da alesaggio 160 e 200 versione a tiranti



Questa cerniera intermedia può essere montata solo su cilindri a tubo tondo con tiranti.

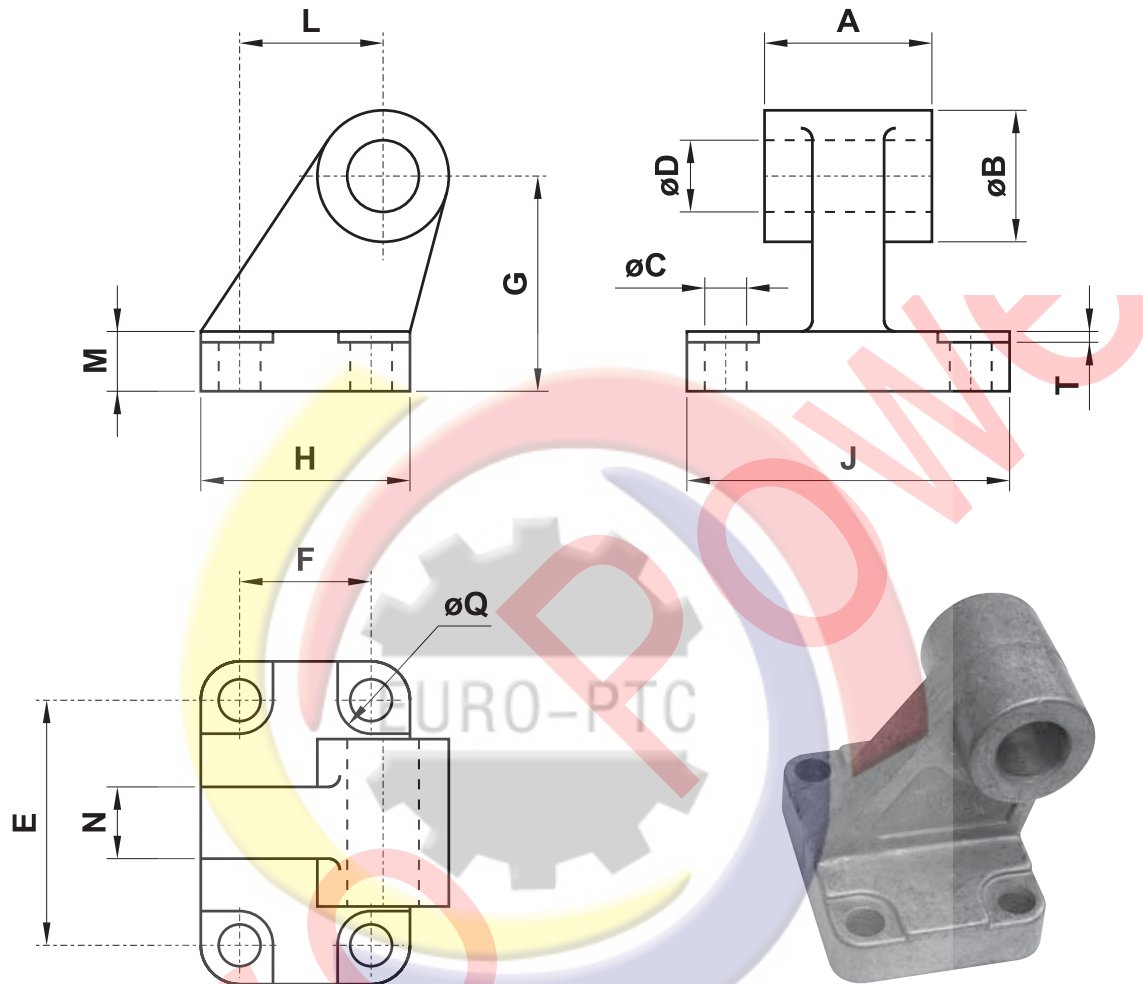
ATTENZIONE: La cerniera intermedia regolabile, anche se ben fissata sul cilindro, a motivo del carico può scivolare e causare spiacevoli inconvenienti. Per evitare tutto ciò si consiglia di usare una cerniera intermedia fissa!

This intermediate trunnion can be mounted only on a cylinder with round barrel and tie-rods.

ATTENTION: This adjustable intermediate trunnion, even if it is correctly mounted on the cylinder, because of the weight can move and cause very serious injury. To avoid this danger it is better to use a fixed intermediate trunnion!

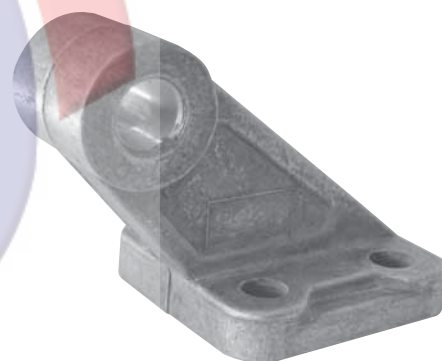
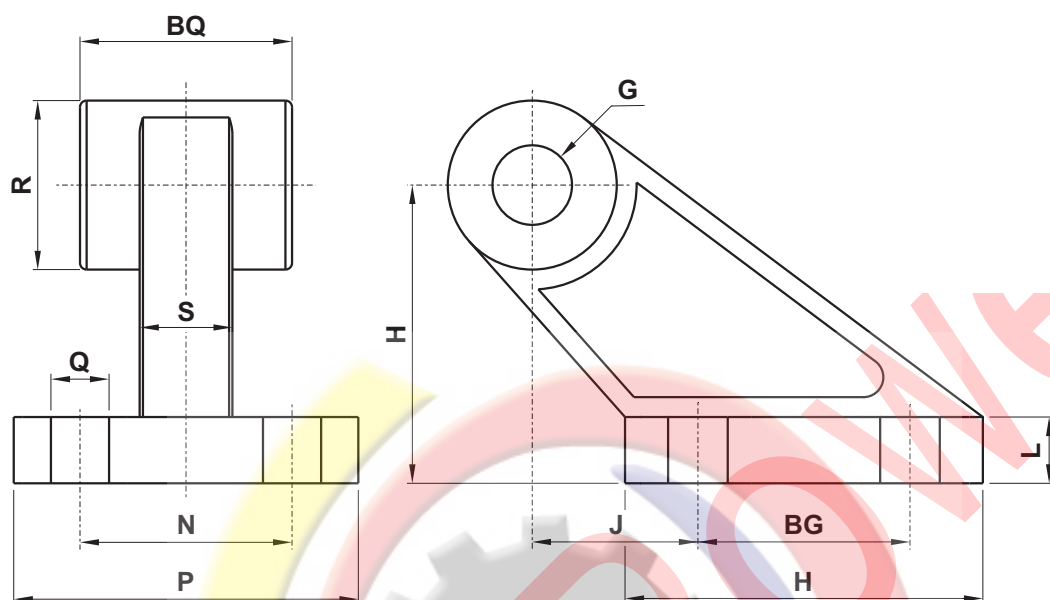
sigla part number	per alesaggio for bore	A	AE	AL	AH	AG	AF	AN	M	Q	Z
26.327.2N	160	140	190	40	ø32	32	200	ø171	ø16.25	18	M12
26.328.2N	200	175	240	40	ø32	32	250	ø211	ø16.25	18	M12

CONTROCERNIERA ORIZZONTALE A BASE RETTANGOLARE (rectangular joint) NORMA CETOP RP107P



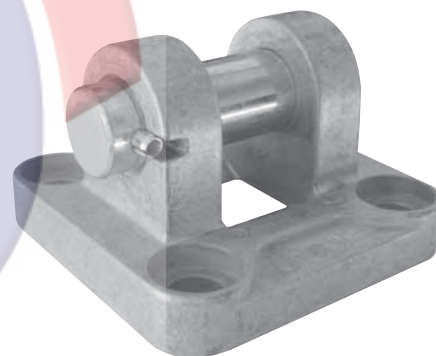
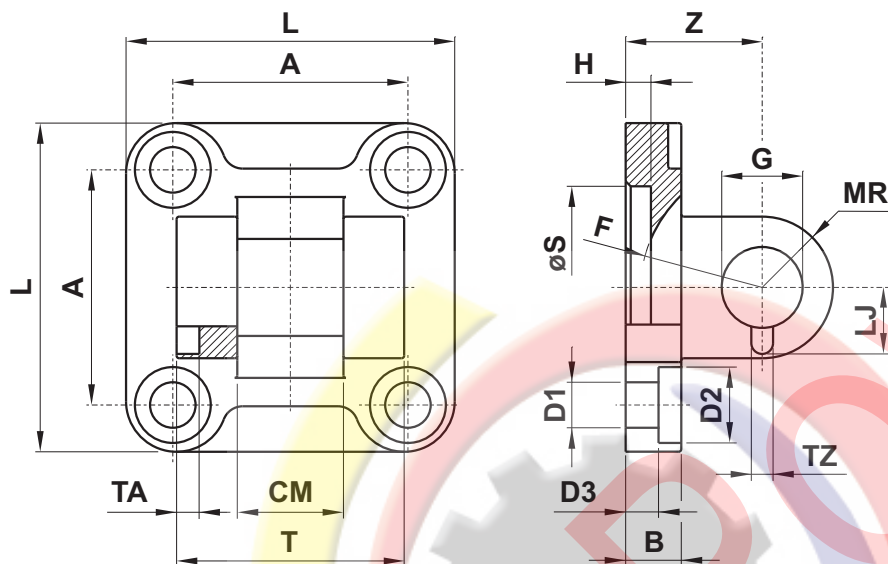
sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M	N	Q	T
COIS032	32	26	20	6.6	10	38	18	32	31	51	21	8	10	11	1.6
COIS040	40	28	22	6.6	12	41	22	36	35	54	24	10	15	11	1.6
COIS050	50	32	26	9	12	50	30	45	45	65	33	12	16	15	1.6
COIS063	63	40	30	9	16	52	35	50	50	67	37	14	16	15	1.6
COIS080	80	50	30	11	16	66	40	63	60	86	47	14	20	18	2.5
COIS100	100	60	38	11	20	76	50	71	70	96	55	17	20	18	2.5
COIS125	125	70	45	14	25	94	60	90	90	124	70	20	30	20	3.2
COIS160	160	90	63	14	30	118	88	115	126	156	97	25	36	20	4
COIS200	200	90	63	18	30	122	90	135	130	162	105	30	40	26	4

CONTROCERNIERA ORIZZONTALE A BASE RETTANGOLARE (rectangular joint) NORMA ISO 6431 - VDMA



codice part number	per alesaggio for bore	Q	BG	H	J	L	M	N	P	S	R	BQ	G
COVDMA32	32	ø7	20	37	18	8	32	25	41	9	19	26	ø10
COVDMA40	40	ø9	32	54	25	10	45	32	52	14	25.5	28	ø12
COVDMA50	50	ø9	32	54	25	10	45	32	52	14	25.5	32	ø12
COVDMA63	63	ø11	50	75	32	12	63	40	63	14	32	40	ø16
COVDMA80	80	ø11	50	75	32	12	63	40	63	14	32	50	ø16
COVDMA100	100	ø14	70	103	40	17	90	50	80	22	42	60	ø20
COVDMA125	125	ø14	70	103	40	17	90	50	80	22	46	70	ø25
COVDMA160	160	ø18	110	154	50	20	140	63	110	26	53.5	89	ø30
COVDMA200	200	ø18	110	154	50	20	140	63	110	26	53.5	89	ø30

CERNIERA FEMMINA STRETTA PER ARTICOLAZIONE CON TESTINA SNODATA DIN 648 K (narrow female hinge for joint with articulated head DIN 648 K)



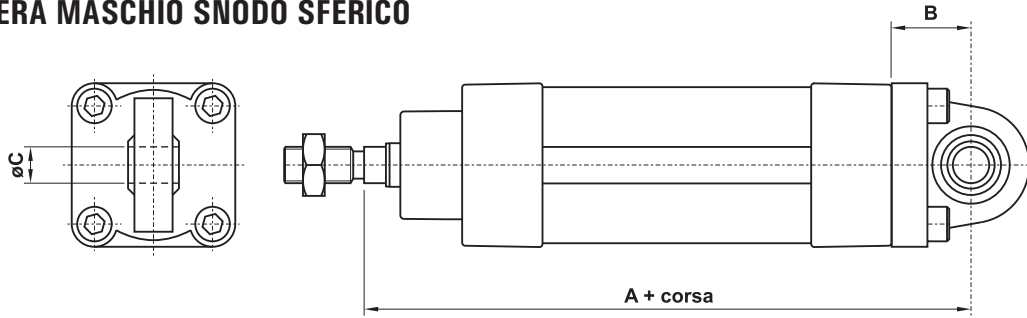
codice part number	per alesaggio for bore	L	T	CM	A	Z	H	B	D3	S	G	MR	D1	D2	TA	TZ	LJ	F
CFSIS032	32	45	34	14	32.5	22	5	9	5.5	30	ø10	10	ø6.6	ø11	3	3.3	11.5	17
CFSIS040	40	52	40	16	38	25	5	9	5.5	35	ø12	12	ø6.6	ø11	4	4.3	12	20
CFSIS050	50	65	45	21	46.5	27	5	11	6.5	40	ø16	14	ø9	ø15	4	4.3	14	22
CFSIS063	63	75	51	21	56.5	32	5	11	6.5	45	ø16	18	ø9	ø15	4	4.3	14	25
CFSIS080	80	95	65	25	72	36	5	14	10	45	ø20	20	ø11	ø18	4	4.3	16	30
CFSIS100	100	115	75	25	89	41	5	14	10	55	ø20	22	ø11	ø18	4	6.3	16	32
CFSIS125	125	140	97	37	110	50	7	20	10	60	ø30	25	ø14	ø20	6	6.3	24	42
CFSIS160	160	180	122	43	140	55	7	20	10	65	ø35	30	ø18	ø26	6	6.3	26.5	46
CFSIS200	200	220	122	43	175	60	7	25	11	75	ø35	30	ø18	ø26	6	6.3	26.5	49

fissaggi per cilindri ISO 6431 VDMA

fixing elements for cylinders ISO 6431 VDMA

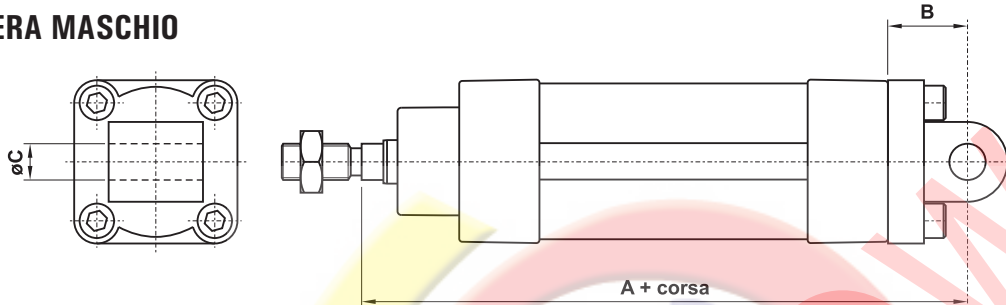


CERNIERA MASCHIO SNODO SFERICO



CMSS...

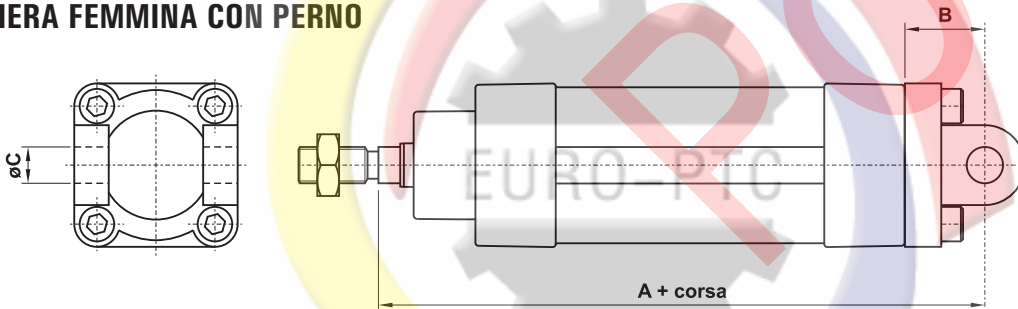
CERNIERA MASCHIO



CMIS...

CMKS...

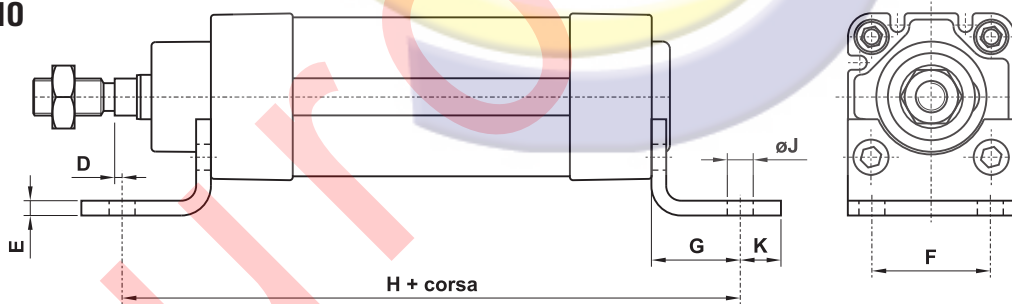
CERNIERA FEMMINA CON PERNO



CFIS...

CFKS...

PIEDINO



PBIS...

Ø	A	B	C	D	E	F	G	H	J	K
32	142	22	10	2	4	32	24	142	7	11
40	160	25	12	2	4	36	28	161	9	8
50	170	27	12	5	5	45	32	170	9	15
63	190	32	16	5	5	50	32	185	9	13
80	210	36	16	5	6	63	41	210	12	14
100	230	41	20	10	6	75	41	220	14	16
125	275	50	25	20	8	90	45	250	16	25
160	315	55	30	20	9	115	60	300	18	15
200	335	60	30	25	12	135	70	320	22	30

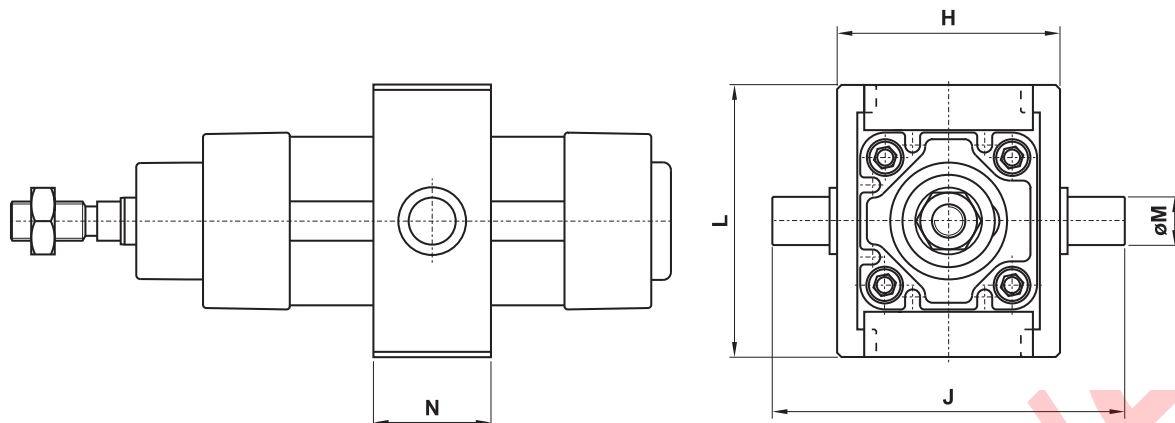
fissaggi per cilindri ISO 6431 VDMA

fixing elements for cylinders ISO 6431 VDMA



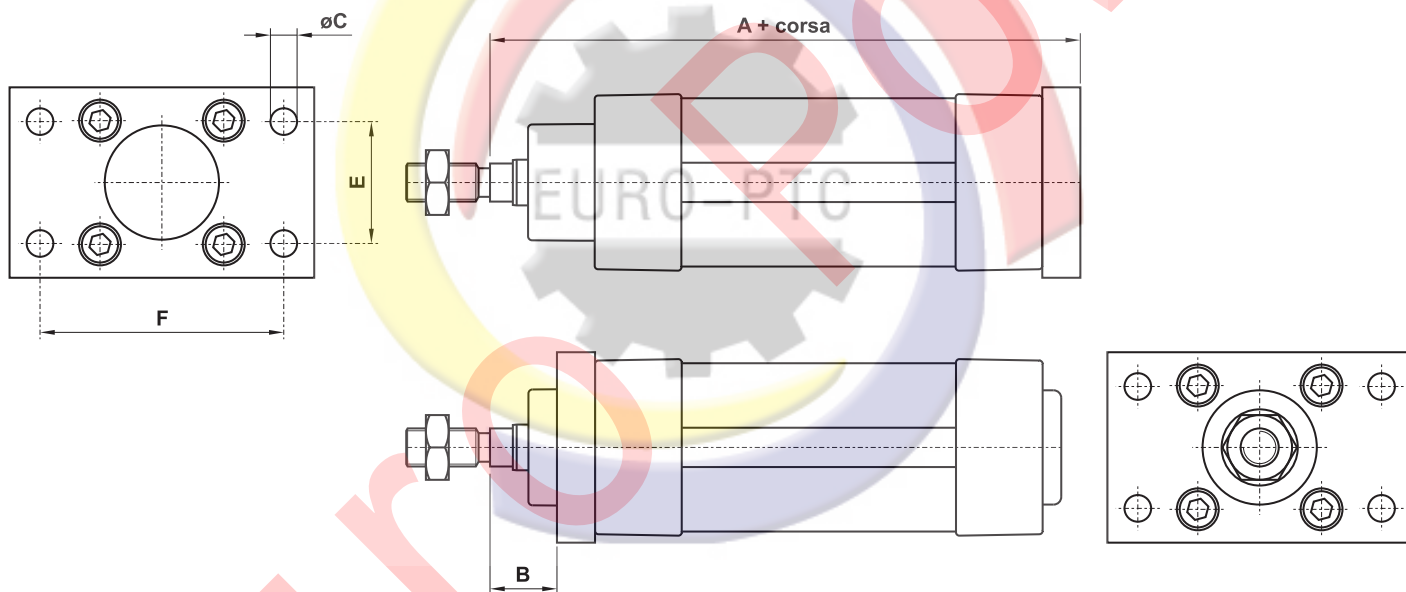
CERNIERA INTERMEDIA PER ESTRUSO - SOLO PER SERIE "N"

CIN...
CSIS...TI



FLANGIA

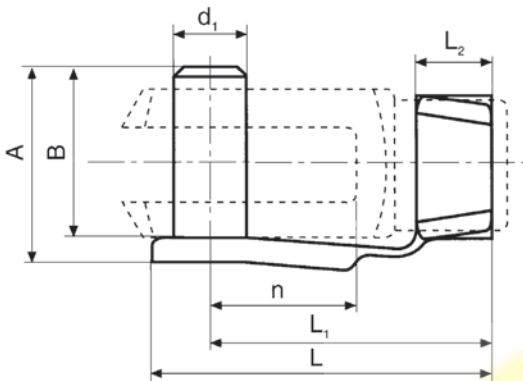
FLIS...



Ø	A	B	C	E	F	H	J	L	M	N
32	130	16	7	32	64	52	87	65	12	25
40	145	20	9	36	72	62	105	74.8	16	25
50	155	25	9	45	90	74	117	90.3	16	25
63	170	25	9	50	100	91	136	94.5	20	30
80	190	30	12	63	126	111	156	109.3	20	30
100	205	35	14	75	150	129	195	134	25	40
125	245	45	16	90	180	156.7	222.7	160	25	40
160	280	60	18	115	230	190	262	200	32	40
200	300	70	22	135	270	240	312	250	32	40

CLIPS PER FORCELLE

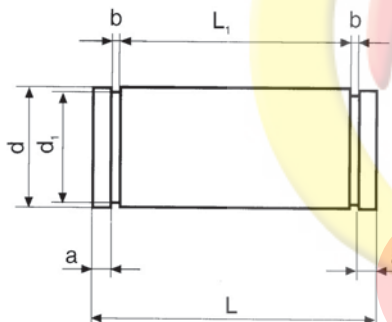
clips for forks



codice code	usata per forcella it is used for fork	d ₁	n	A	B	L	L ₁	L ₂
26.119.0	M4x0.7	4	8	11	9	19	15	5
26.120.0	M6x1	6	12	16	14	28	23	6
26.121.0	M8x1.25	8	16	22	19	37	31	8
26.122.0	M10x1.25	10	20	26	23	46	39	10
26.123.0	M12x1.25	12	24	32	28	55	47	12
26.124.0	M16x1.5	16	32	40	36	72	62	14
26.125.0	M20x1.5	20	40	48	44	88	72	16

PERNI PER FORCELLE

pins for forks



usato per forcella it is used for fork	d	L	d ₁	L ₁	a	b
M27x2	30	65	28.6	55	3.4	1.6
M36x2	35	84	33.4	70	5.4	1.6

DADI PER STELO

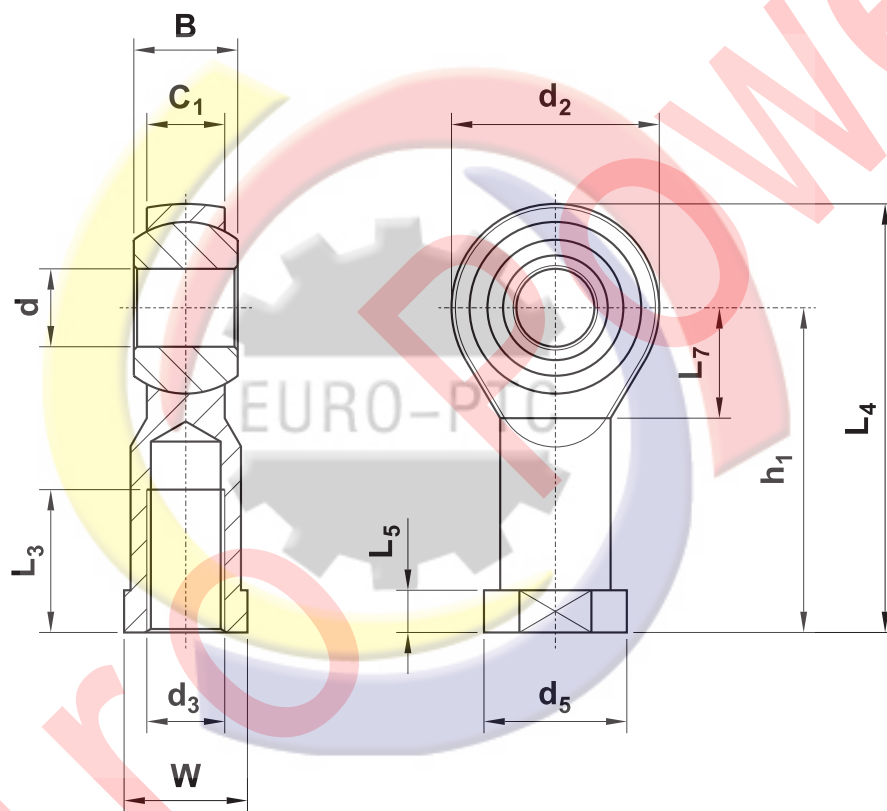
nuts for piston-rod



sigla part number	STANDARD	sigla part number	INOX	codice code	per alesaggio for bore	filetto thread	chiave key
DSMC8-10				26.196.2	8-10	M4x0.7	7
DSMC12-16				26.197.2	12-16	M6x1	10
DSMC20				26.198.2	20	M8x1.25	13
DSIS032		DSIS032X		21.750.0	25-32	M10x1.25	17
DSIS040		DSIS040X		21.751.0	40	M12x1.25	19
DSIS05063		DSIS05063X		21.752.0	50-63	M16x1.5	24
DSIS080100		DSIS080100X		21.753.0	80-100	M20x1.5	30
DSIS125		DSIS125X		21.754.0	125	M27x2	41
DSIS160200		DSIS160200X		21.755.0	160-200	M36x2	55

TESTE A SNODO

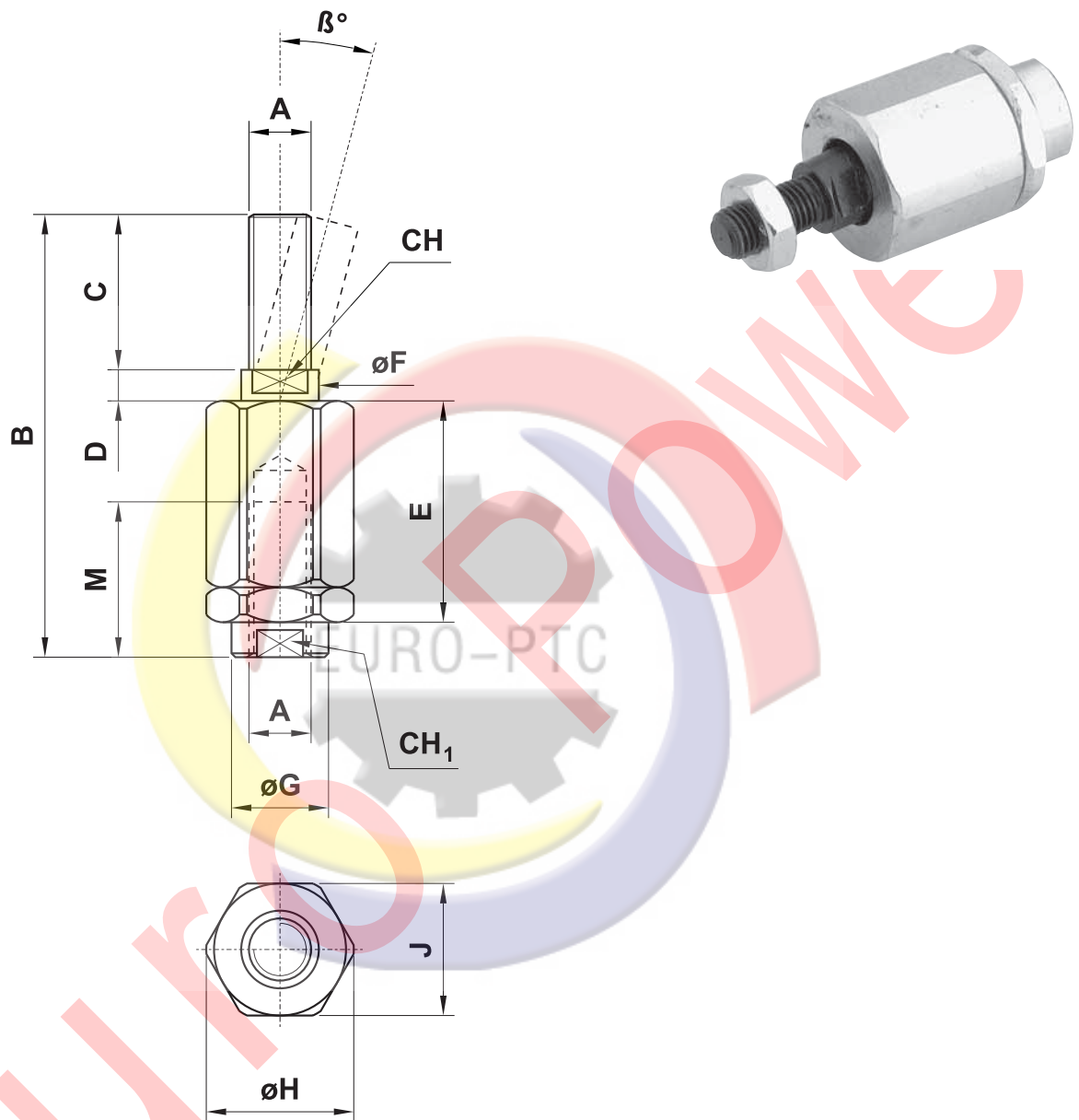
jointing balls



sigla part nr.	STANDARD	sigla part nr.	INOX	per alesaggi for bores	d ₃	d	B	C ₁	d ₂	d ₅	h ₁	L ₃	L ₄	L ₅	L ₇	W
TS8T10		TS8T10X		8-10	M4x0.7	ø5	8	6	18	ø11	27	10	36	4	10	9
TS12T16		TS12T16X		12-16	M6x1	ø6	9	6.75	20	ø13	30	12	40	5	11	11
TST20		TST20X		20	M8x1.25	ø8	12	9	24	ø16	36	16	48	5	13	14
TS25T32		TS25T32X		25-32	M10x1.25	ø10	14	10.5	28	ø19	43	20	57	6.5	15	17
TST40		TST40X		40	M12x1.25	ø12	16	12	32	ø22	50	22	66	6.5	17	19
TS50T63		TS50T63X		50-63	M16x1.5	ø16	21	15	42	ø27	64	28	85	8	23	22
TS80T100		TS80T100X		80-100	M20x1.5	ø20	25	18	50	ø34	77	33	102	10	27	30
TST125		TST125X		125	M27x2	ø30	37	25	70	ø50	110	51	145	15	36	41
TS160T200		TS160T200X		160-200	M36x2	ø35	43	28	80	ø58	125	56	165	17	41	50

SNODI AUTOALLINEANTI

self-aligning joints



sigla part number	per alesaggi for bores	A	B	C	D	E	F	G	H	J	M	CH	β°	CH ₁
SN12D16	12-16	M6x1	35	10	3.5	17.5	6	8.5	14.5	13	10	5	10	7
SND20	20	M8x1.25	57	20	4	28.5	8	12.5	19	17	20	7	10	11
SN25D32	25-32	M10x1.25	71	20	5	35	14	22	32	30	20	12	10	19
SND40	40	M12x1.25	75	24	5	35	14	22	32	30	20	12	10	19
SN50D63	50-63	M16x1.5	103	32	8	54	22	32	45	41	32	20	10	30
SN80D100	80-100	M20x1.5	119	40	8	54	22	32	45	41	40	20	10	30
SND125	125	M27x2	147	54	10	60	32	57	70	65	48	24	8	54

SOFFIETTI DI PROTEZIONE PER STELO

piston rod protection covers

Soffietto di protezione per stelo cilindri ISO 6431 VDMA, realizzato in stoffa cucita a doppio strato, resistente a polvere, acqua e olio. Colore: blu.

Il soffietto deve essere fissato al cilindro mediante due fascette (non fornite insieme al soffietto).

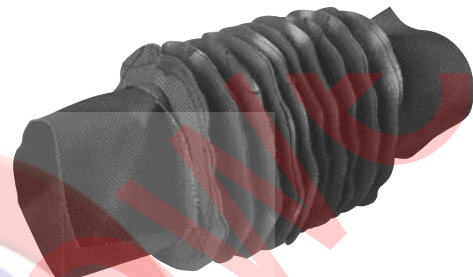
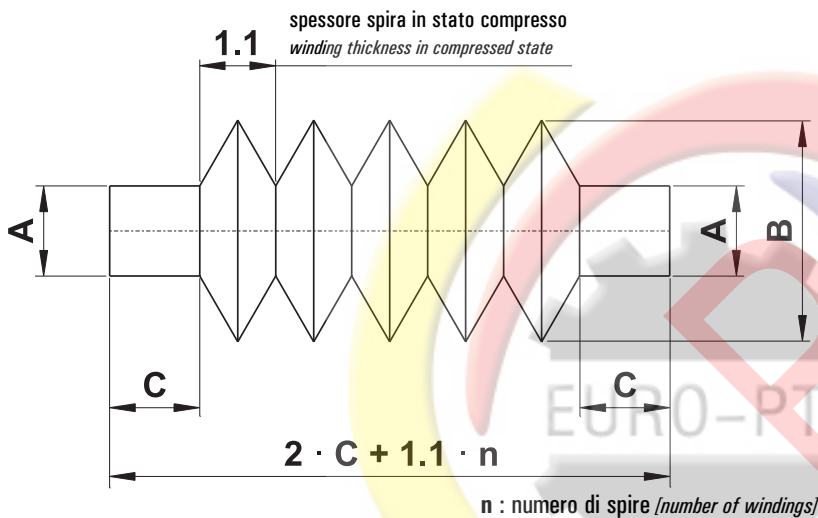
Piston rod protection cover for ISO 6431 VDMA cylinders, in double-sided hyped-up cloth (fabric). Water, oil and dust resistant. Colour: blue.

The protection cover must be fixed on the piston rod by two clamps, not provided with the protection cover.

SO	A	1	0
----	---	---	---

identificazione taglia
size identification

numero spire
number of windings



per cilindro ϕ for cylinder ϕ	A	B	C	spire per 100 mm di corsa number of windings for 100 mm stroke	identif. taglia size identification
32; 40	30	60	36	10	A
50; 63; 80	40	80	46	8	B
100; 125	55	130	40	4	C
160; 200	70	155	55	3	D

alesaggio bore	corsa massima (mm) maximum stroke (mm)	nr. corrispondente di spire corresponding number of windings
32	90	9
40	90	9
50	130	11
63	130	11
80	140	12
100	330	14
125	550	22
160	870	27
200	1170	36

Corsa massima del cilindro oltre la quale si consiglia di aumentare la quota D della sporgenza stelo (vedi pag. 414-415) di 1.1 mm per ogni spira del soffietto.

Esempio: per un cilindro alesaggio 80 corsa 300 sono necessarie 24 spire. Occorre dunque prolungare lo stelo di $(24-12) \times 1.1 \text{ mm} = 13.2 \text{ mm}$. Il cilindro con stelo prolungato deve essere ordinato come speciale all'ufficio commerciale.

If the cylinder stroke is longer than the value in this table, we advise to increase the dimension D of the piston rod length (refer to pages 414-415) by 1.1 mm for each winding.

Example: a cylinder bore 80 and stroke 300 needs 24 windings. It is necessary to increase the piston rod length by $(24-12) \times 1.1 \text{ mm} = 13.2 \text{ mm}$. The cylinder with longer piston rod must be ordered as special (please contact the commercial office).

bloccastelo

rod blocking device



Il bloccastelo è un dispositivo meccanico da applicare ai cilindri ISO 6431 VDMA (alesaggi da 32 a 125) e ai microcilindri ISO 6432 (alesaggi da 12 a 25).

È costituito da un sistema di due ganasce contrapposte che, sotto l'azione di molle opportunamente dimensionate, si oppongono allo scorrimento dello stelo del cilindro. Inviando un comando pneumatico l'azione delle molle viene neutralizzata e il cilindro si sblocca.

Pertanto è possibile posizionare il cilindro in punti intermedi della corsa o bloccarlo in caso di cadute di pressione.

The rod blocking device can be used with cylinders ISO 6431 VDMA (bores from 32 to 125) and with minicylinders ISO 6432 (bores from 12 to 25).

The device is normally locked. It is unlocked by applying a pneumatic signal. Therefore it is possible to block the cylinder in case of pressure drop or to stop the movement in intermediate positions.



Materiali

Corpo: alluminio anodizzato

Ganasce di bloccaggio: ottone

Pistoni: resina acetalica

Molle: acciaio armonico

Materials

Body: aluminium (anodize treatment)

Internal parts: brass

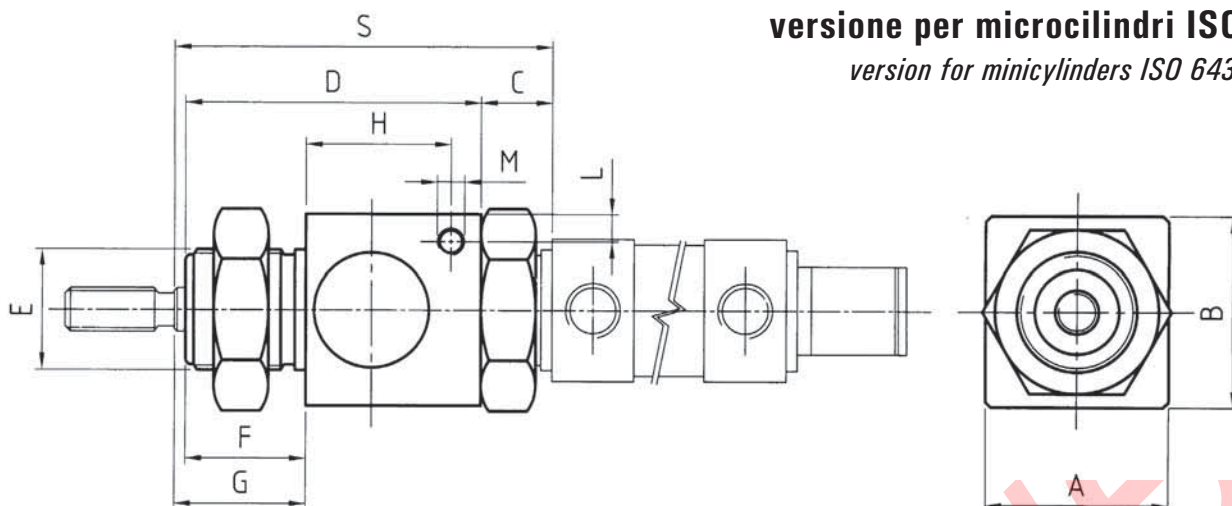
Pistons: polymer

Springs: steel

Pressione minima di pilotaggio <i>Minimum actuating pressure</i>		3 bar 0.3 MPa										
Temperatura di esercizio <i>Temperature range</i>		max +60°C										
Funzionamento <i>Construction type</i>		Meccanico bidirezionale <i>Mechanical bi-directional</i>										
Tipologia <i>Function</i>		NC (sblocco a comando pneumatico) <i>NC (pneumatic piloted unlock)</i>										
Forza di bloccaggio <i>Locking force</i>	Ø	12	16	20	25	32	40	50	63	80	100	125
	forza (N) <i>force (N)</i>	200	200	490	490	790	1240	1930	3060	5400	7700	12040
Fluido <i>Fluid</i>		Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>										

versione per microcilindri ISO 6432

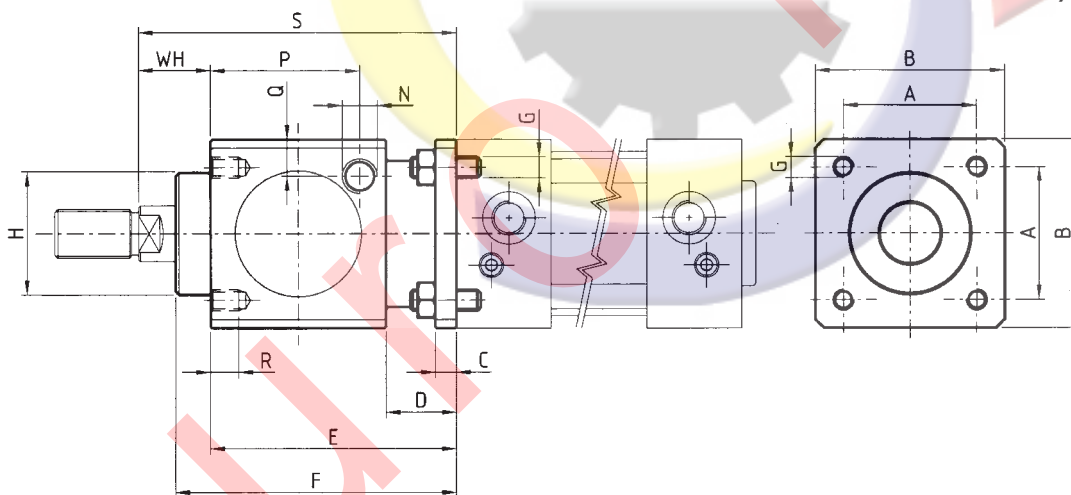
version for minicylinders ISO 6432



modello model	per alesaggi for bores	A	B	C	D	E	F	G	H	L	M
BM012	12-16	30	29.5	10.5	44.5	M16x1.5	17	22	24.5	4	M5
BM020	20	35	33.5	13	54	M22x1.5	22	24	26.5	4.5	M5
BM025	25	35	33.5	13	54	M22x1.5	22	28	26.5	4.5	M5

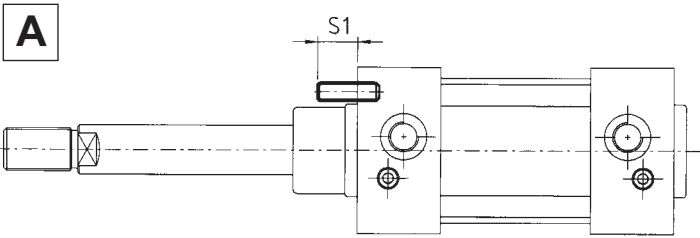
versione per cilindri ISO 6431

version for cylinders ISO 6431

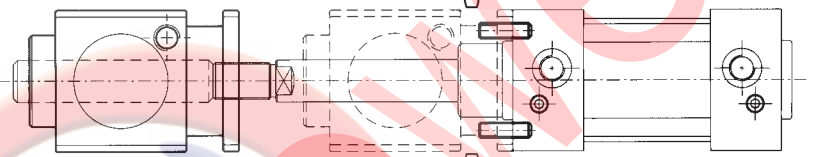


sigla part number	per alesaggi for bores	A	B	C	D	E	F	G	H	WH	N	P	Q	R	S
BM032	32	32.5	47	6	22.5	60	67.5	M6	30	26	G1/8"	33.5	9.5	8	86
BM040	40	38	54	6	20	70	80	M6	35	30	G1/8"	42.5	10.5	8	100
BM050	50	46.5	65	8	24	90	100	M8	40	32	G1/8"	58	12.5	12	122
BM063	63	56.5	75	8	24	90	100	M8	45	37	G1/8"	59	17.5	12	127
BM080	80	72	95	12	32	110	120	M10	45	46	G1/4"	69	17.5	16	156
BM100	100	89	114	12	32	110	120	M10	55	51	G1/4"	69	27	16	161
BM125	125	110	140	20	45	140	156	M12	60	65	G1/4"	84.5	20	20	205

schema di montaggio instructions for installation



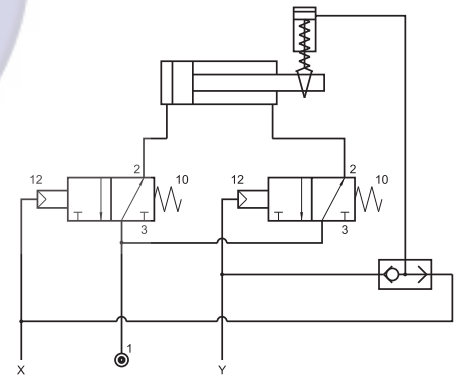
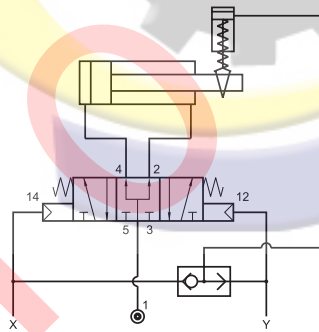
CILINDRO ϕ	32	40	50	63	80	100	125
S1	12	12	16	16	22	22	32



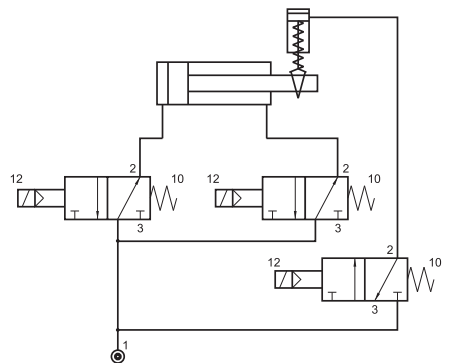
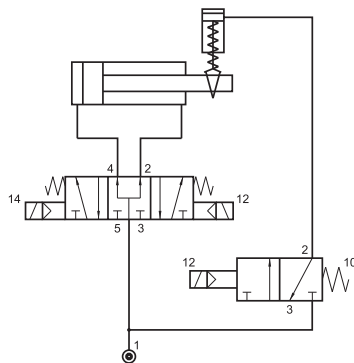
B

schema di collegamento connection scheme

comando pneumatico pneumatic control



comando elettropneumatico electropneumatic control



- Unità di guida per cilindri ISO 6431 e microcilindri ISO 6432
Guiding units for cylinders ISO 6431 and minicylinders ISO 6432
 - Versioni disponibili:
 - tipo "U" con bronzine (cod. **UB**...) - per cilindri da alesaggio 12 a 100
 - tipo "H" con bronzine (cod. **HB**...) - per cilindri da alesaggio 12 a 100
 - tipo "H" con cuscinetti a rotolamento (cod. **HS**...) - per cilindri da alesaggio 12 a 100
- Available versions:*
- type "U" with sintered bronze rod guide (code **UB**...) - cylinder bores from 12 to 100
 - type "H" with sintered bronze rod guide (code **HB**...) - cylinder bores from 12 to 100
 - type "H" with linear ball bearings (code **HS**...) - cylinder bores from 12 to 100
- Tipo "U" con bronzine: movimentazione con carichi medi e basse velocità
Type "U" with sintered bronze rod guide: movements with medium loads and low speeds
 - Tipo "H" con bronzine: movimentazione con carichi alti e basse velocità
Type "H" with sintered bronze rod guide: movements with heavy loads and low speeds
 - Tipo "H" con cuscinetti a rotolamento: movimentazione con carichi medi e alte velocità
Type "H" with linear ball bearings: movements with medium loads and high speeds

Materiali

Corpo: alluminio anodizzato

Steli: C40 cromato

Materials

Body: aluminium (anodize treatment)

Rods: C40 (chromium plated)

chiave di codifica

key to codes

H B 0 8 0 C 1 5 0

tipo
type

guida stelo
rod guide

corsa
stroke

alesaggio cilindro
cylinder bore

Tipo [type]

H tipo "H" [type "H"]

U tipo "U" [type "U"]

Guida stelo [rod guide]

B bronzine [sintered bronze]

S cuscinetti a rotolamento [linear ball bearings]

alesaggi e corse disponibili

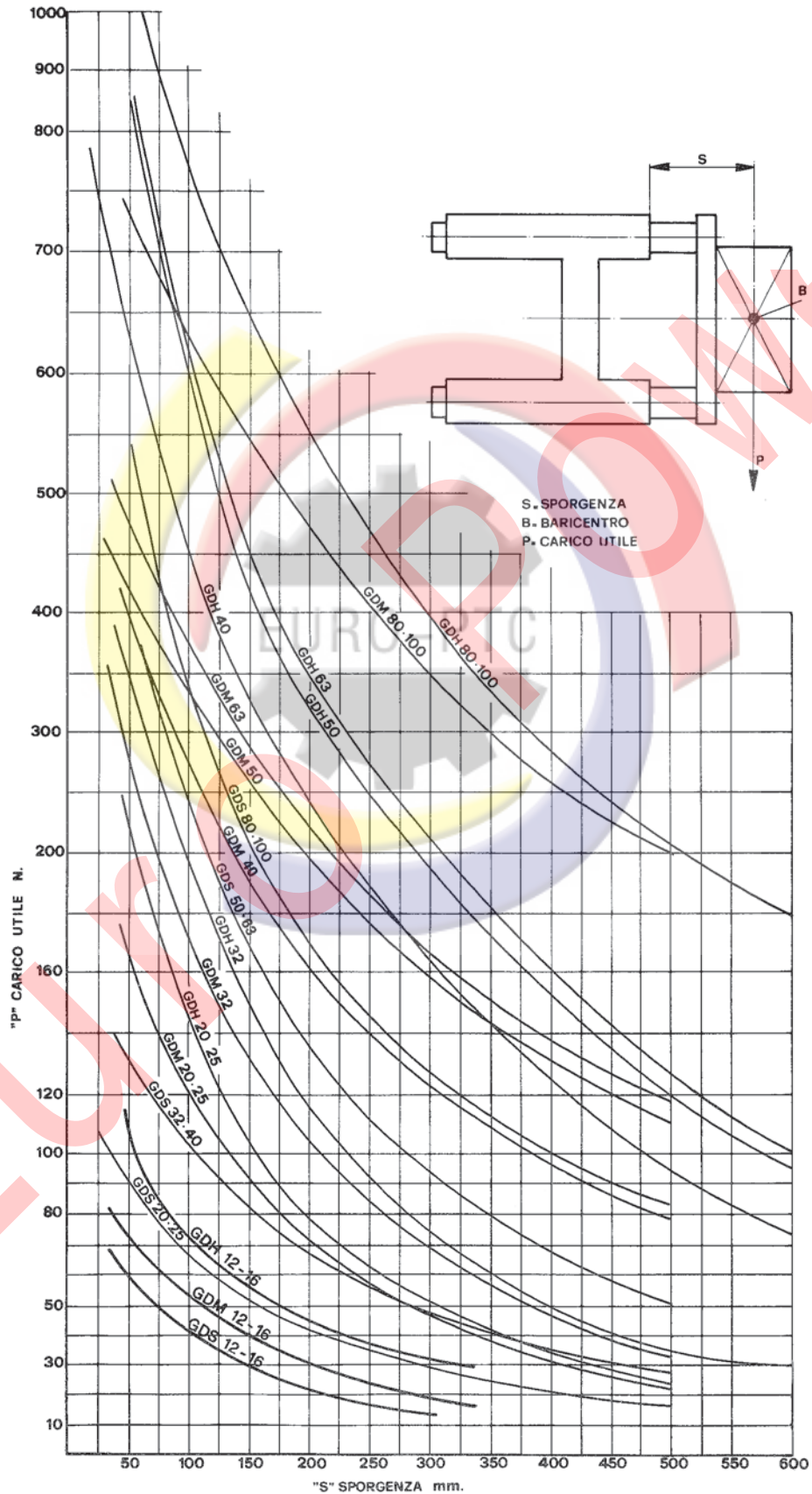
available bores and strokes

alesaggio corsa bore stroke	12*	16	20	25	32	40	50	63	80	100
50	X	X	X	X	X	X	X	X	X	X
100	X	X	X	X	X	X	X	X	X	X
150				X	X	X	X	X	X	X
160	X	X	X							
200	X	X	X	X	X	X	X	X	X	X
250	X	X	X	X	X	X	X	X	X	X
300				X	X	X	X	X	X	X
400				X	X	X	X	X	X	X
500				X	X	X	X	X	X	X

* L'unità di guida per l'alesaggio 12 si utilizza anche per l'alesaggio 16. Il codice rimane quello dell'alesaggio 12.

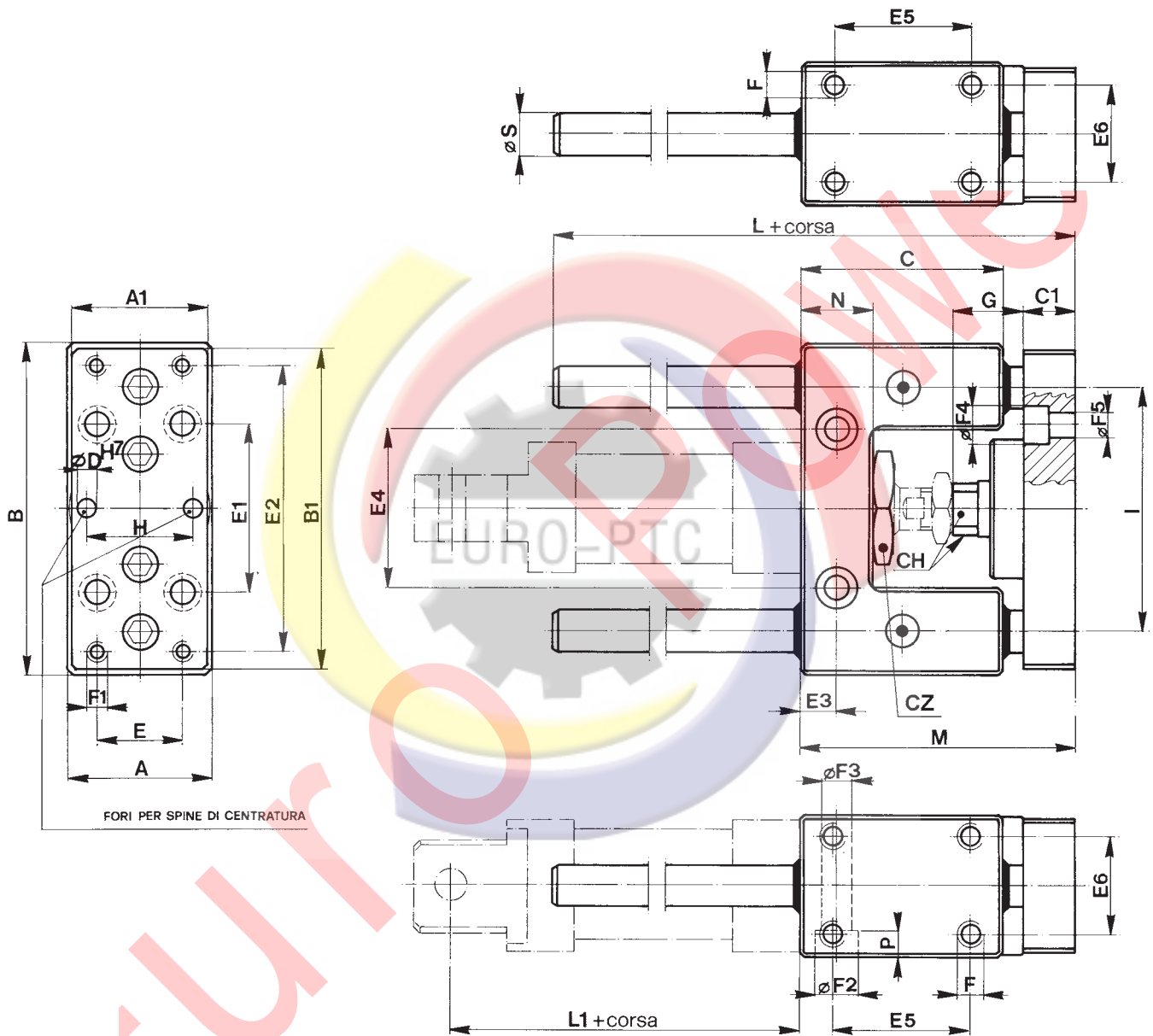
* The guiding unit for bore 12 is used also for bore 16, with the same code.

Carico ammissibile / Permissible loads



tipo "U" per microcilindri ISO 6432

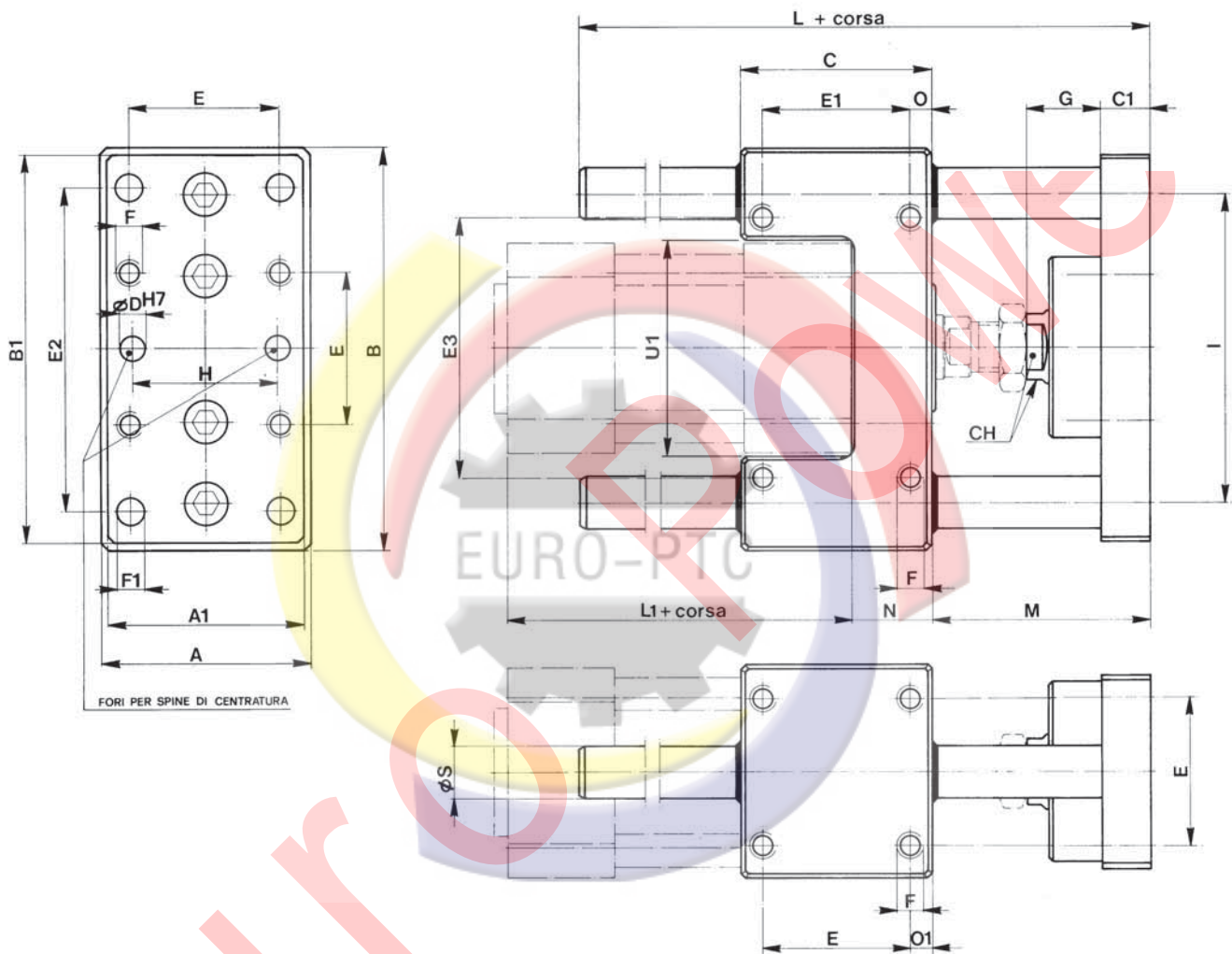
type "U" for minicylinders ISO 6432



∅ CIL	A	A1	B	B1	C	C1	CH	CZ	D	E	E1	E2	E3	E4	E5	E6	F	F1	F2	F3	F4	F5	G	H	I	L	L1	M	N	P	S
12 16	30	27	65	63	38	10	8	19	4	15	32	54	6.5	24	25	22	M4	M4	8.5	5.1	7.5	4.5	12	15	46	70	53	51	13	5.5	8
																											60				
20	34	32	79	76	48	12	12	27	6	20	40	68	8.5	38	32.5	23	M6	M5	10.5	6.5	9	5.5	22	20	58	83	71	65	17	6.5	10
25	34	32	79	76	48	12	12	27	6	20	40	68	8.5	38	32.5	23	M6	M5	10.5	6.5	9	5.5	17	20	58	83	76	65	17	6.5	10

tipo "U" per cilindri ISO 6431

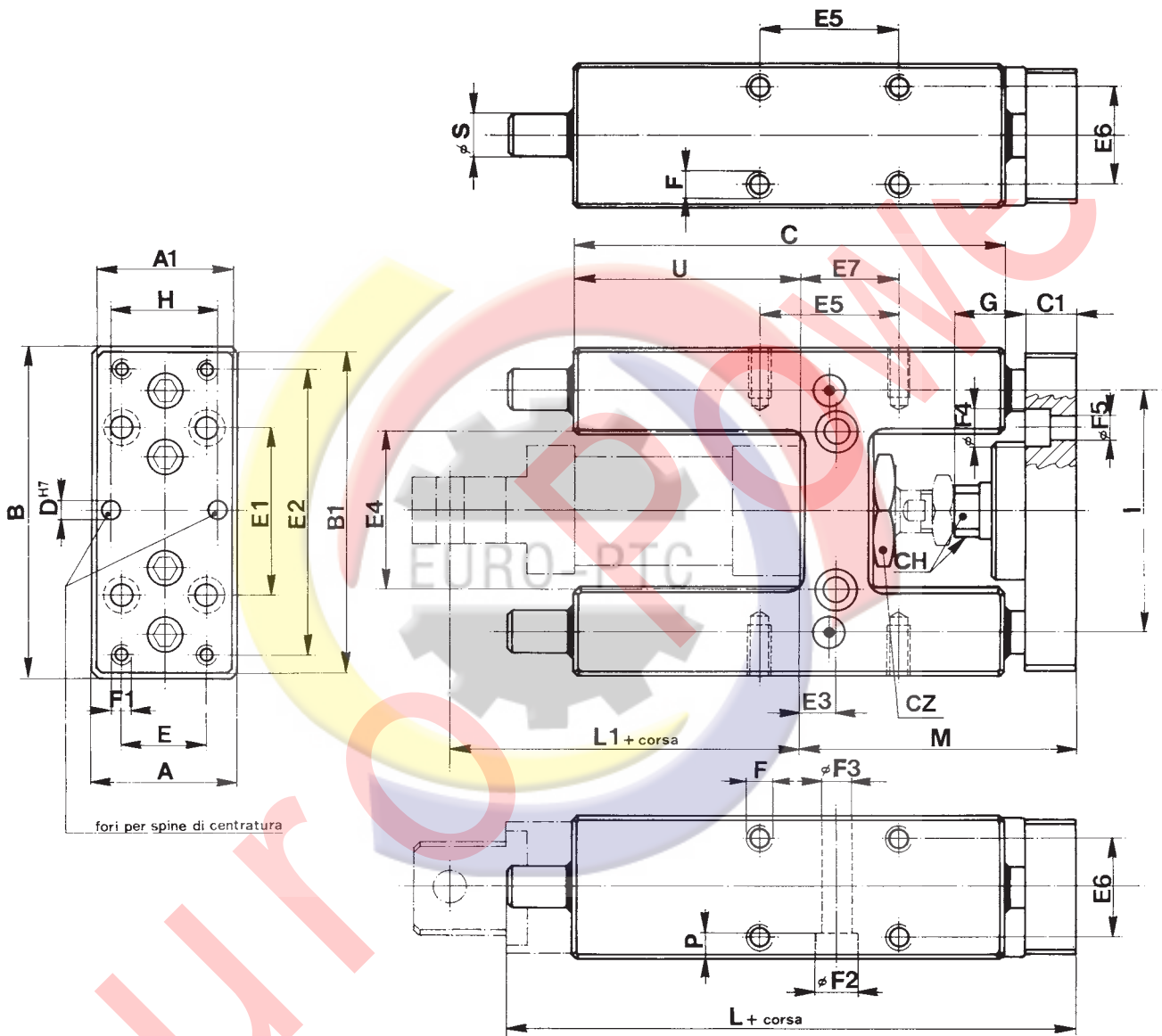
type "U" for cylinders ISO 6431



\varnothing CIL	A	A1	B	B1	C	C1	D	E	E1	E2	E3	F	F1	G	H	I	L	L1	M	N	O	O1	S	CH	U1
32	48	45	100	90	48	12	6	32.5	32.5	78	58	M6	6.5	20	31	74	106	94	54	17	7.8	7.8	12	13	48
40	56	50	106	105	58	12	6	38	38	84	64	M6	6.5	22	36	80	117	105	55	21	10	10	12	15	54
50	66	60	125	124	59	15	6	46.5	46.5	100	80	M8	9	23	45	96	129	106	68	25	6.3	6.3	16	21	67
63	76	70	132	125	76	15	6	56.5	56.5	105	95	M8	9	23	45	104	146	121	68	25	9.8	9.8	16	21	76
80	98	90	165	155	90	18	6	72	50	130	130	M10	11	30	56	130	170	128	78	34	20	9	20	27	97
100	118	110	185	175	110	18	6	89	70	150	150	M10	11	30	56	150	190	138	78	39	20	10.5	20	27	117

tipo "H" per microcilindri ISO 6432

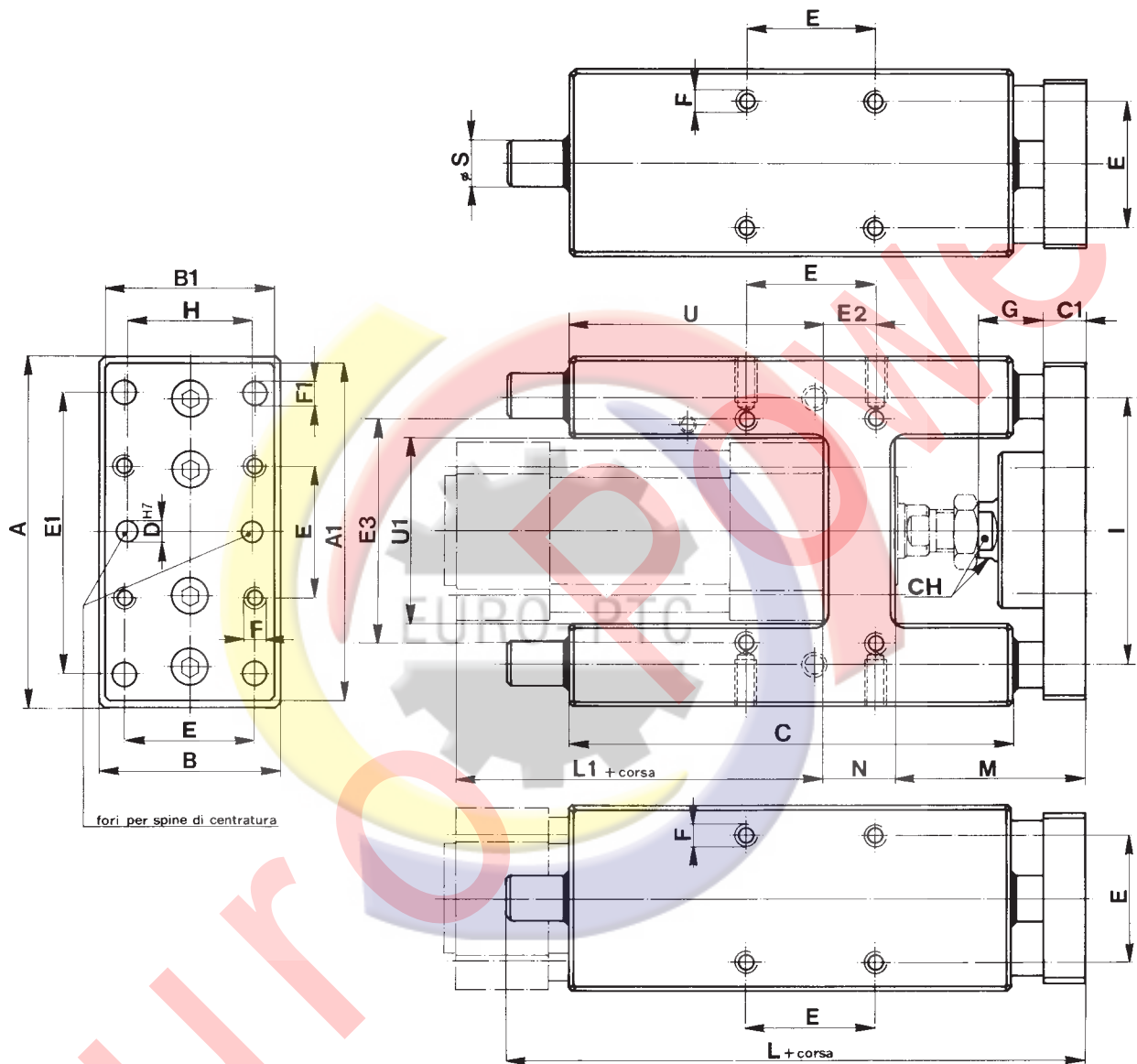
type "H" for minicylinders ISO 6432



∅ CIL	A	A1	B	B1	C	C1	CH	CZ	D	E	E1	E2	E3	E4	E5	E6	E7	F	F1	F2	F3	F4	F5	G	H	I	L	L1	M	P	S	U
12 16	30	27	65	63	75	10	8	19	4	15	32	54	6.5	24	32.5	22	11	M4	M4	8.5	5.1	7.5	4.5	12	15	46	130	53	51	5.5	8	37
																												60				
20	34	32	79	76	108	12	12	27	6	20	40	68	8.5	38	32.5	23	15	M6	M5	10.5	6.5	9	5.5	22	20	58	159	71	65	6.5	10	58
25	34	32	79	76	108	12	12	27	6	20	40	68	8.5	38	32.5	23	15	M6	M5	10.5	6.5	9	5.5	17	20	58	159	76	65	6.5	10	58

tipo "H" per cilindri ISO 6431

type "H" for cylinders ISO 6431



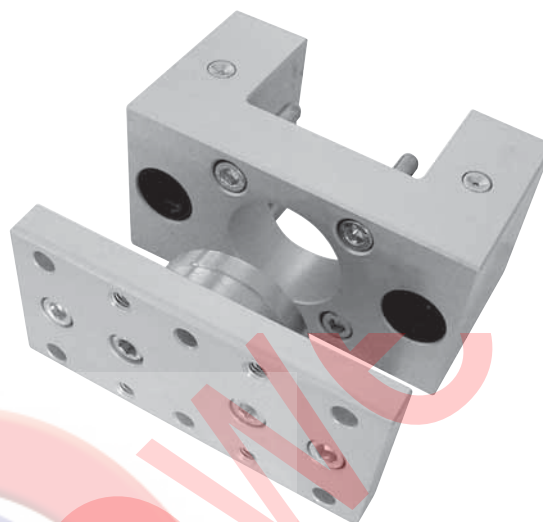
∅ CIL	A	A1	B	B1	C	C1	CH	D	E	E1	E2	E3	F	F1	G	H	I	L	L1	M	N	S	U	U1
32	97	90	50	45	125	12	13	6	32.5	78	4.3	61	M6	6.5	20	31	74	177	94	54	17	12	76	50.5
40	115	105	58	50	136	12	15	6	38	84	11	69	M6	6.5	22	36	87	192	105	55	21	16	81	58.5
50	137	124	70	60	144	15	21	6	46.5	100	18.5	85	M8	9	23	45	104	237	106	68	26	20	79	70.5
63	152	145	85	70	176	15	21	6	56.5	105	15.3	100	M8	9	23	45	119	237	121	68	26	20	111	85.5
80	189	180	105	100	215	20	27	6	72	130	21	130	M10	11	30	56	148	280	128	78	34	25	128	106
100	213	200	130	120	220	20	27	6	89	150	24.5	150	M10	11	30	56	173	280	138	78	39	25	128	131

kit unità di guida

kit for guiding units

Il kit comprende tutti i pezzi necessari per il montaggio escluso gli steli, per la cui realizzazione il disegno si trova sul sito internet: <http://www.azpneumatica.com/azweb/ita/kitguid.htm>

The kit includes all the necessary pieces. Rods are not included. The drawing for rod machining is available in internet at the following address: <http://www.azpneumatica.com/azweb/ita/kitguid.htm>



Tipo "U" con bronzine		
<i>type "U" with sintered bronze rod guide</i>		
per alesaggio for bore	sigla part number	codice code
12-16	KUB012-016	27.271.0
20	KUB020	27.272.0
25	KUB025	27.273.0
32	KUB032	27.274.0
40	KUB040	27.275.0
50	KUB050	27.278.0
63	KUB063	27.279.0
80	KUB080	27.280.0
100	KUB100	27.281.0

Tipo "H" con bronzine		
<i>type "H" with sintered bronze rod guide</i>		
per alesaggio for bore	sigla part number	codice code
12-16	KHB012-016	27.259.0
20	KHB020	27.250.0
25	KHB025	27.251.0
32	KHB032	27.252.0
40	KHB040	27.253.0
50	KHB050	27.254.0
63	KHB063	27.255.0
80	KHB080	27.256.0
100	KHB100	27.257.0

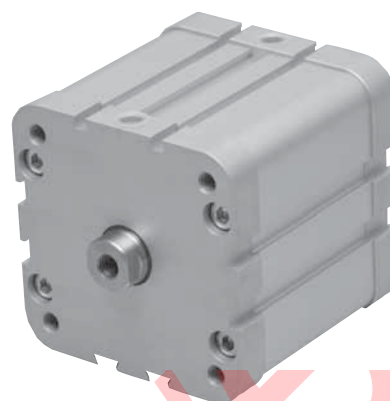
Tipo "H" con cuscinetti a rotolamento		
<i>type "H" with linear ball bearings</i>		
per alesaggio for bore	sigla part number	codice code
12-16	KHS012-016	27.260.0
20	KHS020	27.261.0
25	KHS025	27.268.0
32	KHS032	27.262.0
40	KHS040	27.263.0
50	KHS050	27.264.0
63	KHS063	27.265.0
80	KHS080	27.266.0
100	KHS100	27.267.0

cilindri compatti

compact cylinders



- Cilindri compatti con interasse ISO 6431 o UNITOP
Fixing dimensions are compliant to norm ISO 6431 or UNITOP
- Predisposti per i fissaggi normalizzati
To be installed with standard fixing elements
- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Esecuzioni e corse speciali a richiesta
Special versions and strokes on request



Materiali

Camicia: alluminio

Stelo: C45 cromato o INOX AISI 304

Testate: alluminio

Pistone: tecnopolimero (standard) o alluminio (su richiesta). Il pistone in tecnopolimero non è adatto per la versione ATEX.

Guarnizioni: poliuretano o VITON

Guarnizione stelo: poliuretano o VITON

Magnete: plastroferrite (non adatto per temperature oltre +60°C)

Materials

Barrel: aluminium

Piston-rod: C45 (chromium plated) or stainless steel

End-cups: aluminium

Piston: technopolymer (standard) or aluminium (on request). The piston in technopolymer is not suitable for ATEX.

Sealings: polyurethane or VITON

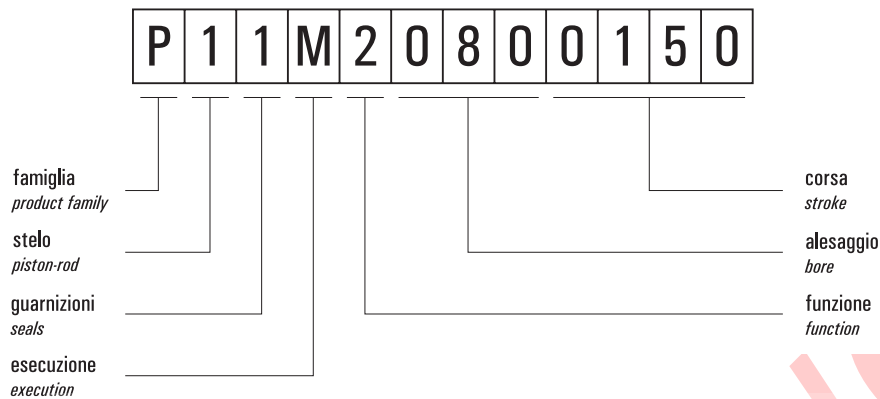
Piston-rod sealing: polyurethane or VITON

Magnet: magnetic iron compound (not suitable for temperatures over +60°C)

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	standard (poliuretano/NBR): max +60°C VITON: max +110°C
Alesaggi <i>Bores</i>	32; 40; 50; 63; 80; 100 mm
Tipo di costruzione <i>Construction type</i>	Profilo quadro con cava centrale e cave laterali <i>Square aluminium profile</i>
Corse <i>Strokes</i>	5 ... 200 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

chiave di codifica

key to codes



Famiglia [product family]

P cilindri compatti interasse ISO 6431
[compact cylinders with fixing distances ISO 6431]

R cilindri compatti interasse UNITOP
[compact cylinders with fixing distances UNITOP]

Stelo [piston-rod]

1 C45 cromato - filetto stelo femmina
[C45 chromium plated - female rod thread]

2 INOX - filetto stelo femmina
[stainless steel - female rod thread]

3 C45 cromato - filetto stelo maschio
[C45 chromium plated - male rod thread]

4 INOX - filetto stelo maschio
[stainless steel - male rod thread]

Guarnizioni [seals]

1 poliuretano [polyurethane]

2 tutte le guarnizioni in VITON [all seals in VITON]

3 guarnizioni dello stelo in VITON [rod seals in VITON]

Esecuzione [execution]

M magnetico [magnetic]

Funzione [function]

1 semplice effetto non ammortizzato molla anteriore
[single acting front spring without pneumatic cushioning]

2 doppio effetto non ammortizzato
[double acting without pneumatic cushioning]

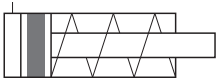
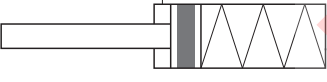
3 semplice effetto non ammortizzato molla posteriore
[single acting back spring without pneumatic cushioning]

4 doppio effetto non ammortizzato stelo passante
[double acting without pneumatic cushioning, with passing-through rod]

6

versioni disponibili

available versions

semplice effetto molla anteriore <i>single acting front spring</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio The standard is marked with grey background	
	corsa	bore								
	5	stroke	X	X	X	X	X	X	materiale stelo [piston-rod material] C45 cromato <i>C45 chromium plated</i>	
	10		X	X	X	X	X	X	INOX <i>stainless steel</i>	
	25		X	X	X	X	X	X	materiale guarnizioni [seals material]	
	30				X	X	X	X	poliuuret. tutte in VITON <i>all seals in VITON</i>	
	40								guarnizioni stelo in VITON <i>rod seals in VITON</i>	
	50								filetto stelo [rod thread]	
	75								filetto stelo femmina <i>female rod thread</i>	
	80								filetto stelo maschio <i>male rod thread</i>	
	100									
	125									
	150									
	160									
	200									
semplice eff. molla posteriore <i>single acting back spring</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio The standard is marked with grey background	
corsa	bore									
	5	stroke	X	X	X	X	X	X	materiale stelo [piston-rod material] C45 cromato <i>C45 chromium plated</i>	
	10		X	X	X	X	X	X	INOX <i>stainless steel</i>	
	25		X	X	X	X	X	X	materiale guarnizioni [seals material]	
	30				X	X	X	X	poliuuret. tutte in VITON <i>all seals in VITON</i>	
	40								guarnizioni stelo in VITON <i>rod seals in VITON</i>	
	50								filetto stelo [rod thread]	
	75								filetto stelo femmina <i>female rod thread</i>	
	80								filetto stelo maschio <i>male rod thread</i>	
	100									
	125									
	150									
	160									
	200									

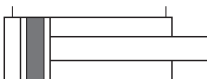
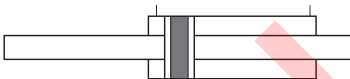
cilindri compatti

compact cylinders

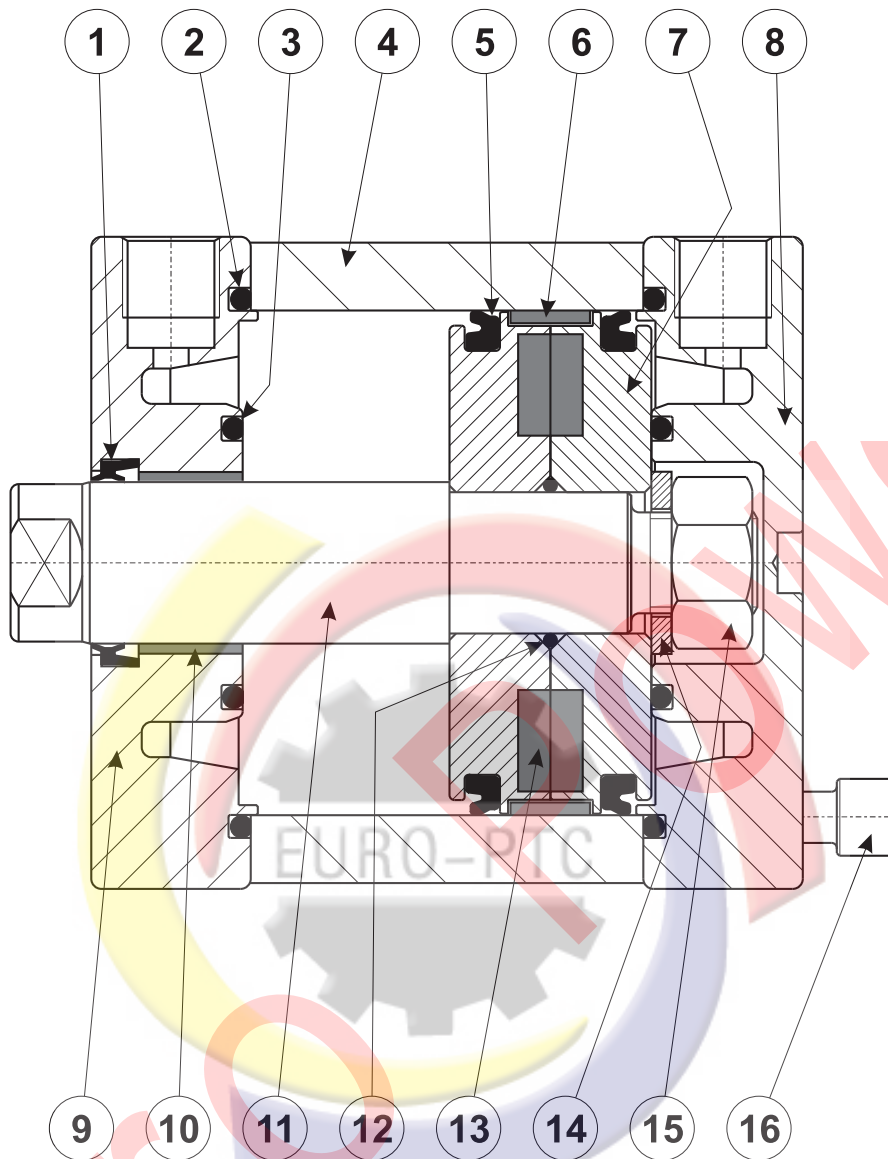


versioni disponibili

available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>							
	corsa	bore														
	5	stroke	X	X	X	X	X	X	materiale stelo [piston-rod material] <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni [seals material] <table border="1"> <tr> <td>poliuret.</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table> filetto stelo [rod thread] <table border="1"> <tr> <td>filetto stelo femmina <i>female rod thread</i></td> <td>filetto stelo maschio <i>male rod thread</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	poliuret.	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>	filetto stelo femmina <i>female rod thread</i>	filetto stelo maschio <i>male rod thread</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>														
	poliuret.	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>													
	filetto stelo femmina <i>female rod thread</i>	filetto stelo maschio <i>male rod thread</i>														
	10	X	X	X	X	X	X	X								
	25	X	X	X	X	X	X	X								
	30	X	X	X	X	X	X	X								
	40	X	X	X	X	X	X	X								
	50	X	X	X	X	X	X	X								
	75	X	X	X	X	X	X	X								
	80	X	X	X	X	X	X	X								
	100	X	X	X	X	X	X	X								
	125	X	X	X	X	X	X	X								
150	X	X	X	X	X	X	X									
160	X	X	X	X	X	X	X									
200	X	X	X	X	X	X	X									
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	alesaggio		32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>							
	corsa	bore														
	5	stroke	X	X	X	X	X	X	materiale stelo [piston-rod material] <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni [seals material] <table border="1"> <tr> <td>poliuret.</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table> filetto stelo [rod thread] <table border="1"> <tr> <td>filetto stelo femmina <i>female rod thread</i></td> <td>filetto stelo maschio <i>male rod thread</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	poliuret.	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>	filetto stelo femmina <i>female rod thread</i>	filetto stelo maschio <i>male rod thread</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>														
	poliuret.	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>													
	filetto stelo femmina <i>female rod thread</i>	filetto stelo maschio <i>male rod thread</i>														
	10	X	X	X	X	X	X	X								
	25	X	X	X	X	X	X	X								
	30	X	X	X	X	X	X	X								
	40	X	X	X	X	X	X	X								
	50	X	X	X	X	X	X	X								
	75	X	X	X	X	X	X	X								
	80	X	X	X	X	X	X	X								
	100	X	X	X	X	X	X	X								
	125	X	X	X	X	X	X	X								
150	X	X	X	X	X	X	X									
160	X	X	X	X	X	X	X									
200	X	X	X	X	X	X	X									

6



1. Guarnizione stelo: poliuretano o VITON
2. O-Ring per tenuta testata: NBR o VITON
3. O-Ring paracolpi: NBR o VITON
4. Camicia: alluminio profilato, calibrato e anodizzato
5. Guarnizione a labbro per pistone: poliuretano o VITON
6. Anello guida per pistone: bronzo PTFE (solo per pistone in alluminio)
7. Pistone: tecnopolimero o alluminio
8. Testata posteriore: alluminio
9. Testata anteriore: alluminio
10. Boccola guida: materiale autolubrificante
11. Stelo: acciaio C45 cromato o INOX AISI 304
12. O-Ring per tenuta pistone: NBR o VITON
13. Magnete: plastoferrite
14. Rondella piana
15. Dado per bloccaggio stelo
16. Vite per fissaggio testata

kit guarnizioni di ricambio

seals kit

MAGNETICO, guarnizioni standard

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	GP032	25.103.2	32	GP032P	25.113.2
40	GP040	25.104.2	40	GP040P	25.114.2
50	GP050	25.105.2	50	GP050P	25.115.2
63	GP063	25.106.2	63	GP063P	25.116.2
80	GP080	25.107.2	80	GP080P	25.117.2
100	GP100	25.108.2	100	GP100P	25.118.2

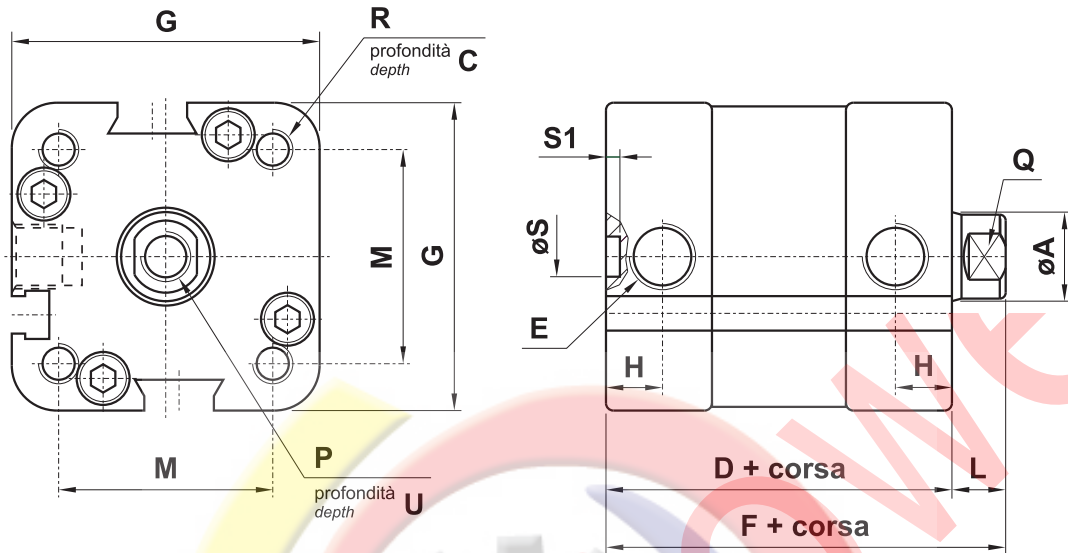
MAGNETICO, guarnizioni VITON

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	GP032V	25.123.2	32	GP032PV	25.133.2
40	GP040V	25.124.2	40	GP040PV	25.134.2
50	GP050V	25.125.2	50	GP050PV	25.135.2
63	GP063V	25.126.2	63	GP063PV	25.136.2
80	GP080V	25.127.2	80	GP080PV	25.137.2
100	GP100V	25.128.2	100	GP100PV	25.138.2

VERSIONE MAGNETICA, FILETTO STELO FEMMINA

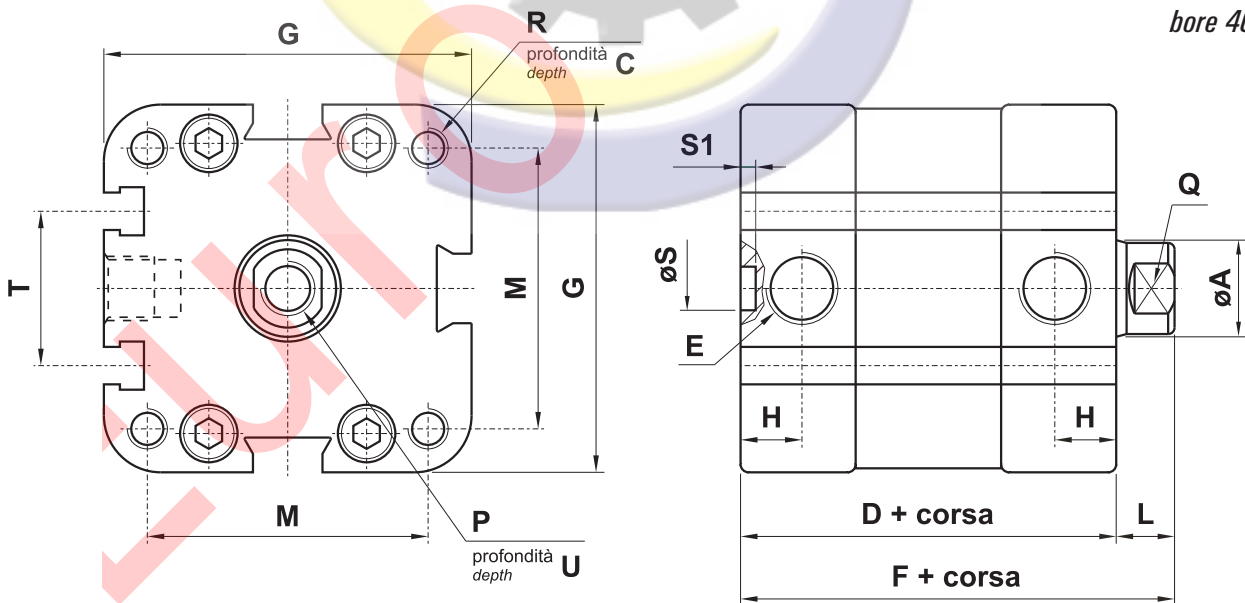
magnetic version, female rod thread

alesaggio 32
bore 32



ø	A	C	D	E	F*	G		H	L*	M		P	Q	R		S	S1	U
						ISO	UNITOP			ISO	UNITOP			ISO	UNITOP			
32	12	14	46	G1/8"	53	46	46	7	7	32.3	32.3	M8	ch 10	M6	M6	6	2.5	13.5

alesaggio 40 - 50 - 63
bore 40 - 50 - 63



ø	A	C	D	E	F*	G		H	L*	M		P	Q	R		S	S1	T	U
						ISO	UNITOP			ISO	UNITOP			ISO	UNITOP				
40	12	14	46	G1/8"	53	55	55	6.5	7	38	42	M8	ch 10	M6	M6	6	2.5	22	13.5
50	16	16	50	G1/8"	58	64.5	64.5	8	8	46.5	50	M10	ch 13	M8	M8	6	2.5	24	16
63	16	16	53	G1/8"	61	78	78	8	8	56.5	62	M10	ch 13	M8	M10	6	2.5	29	16

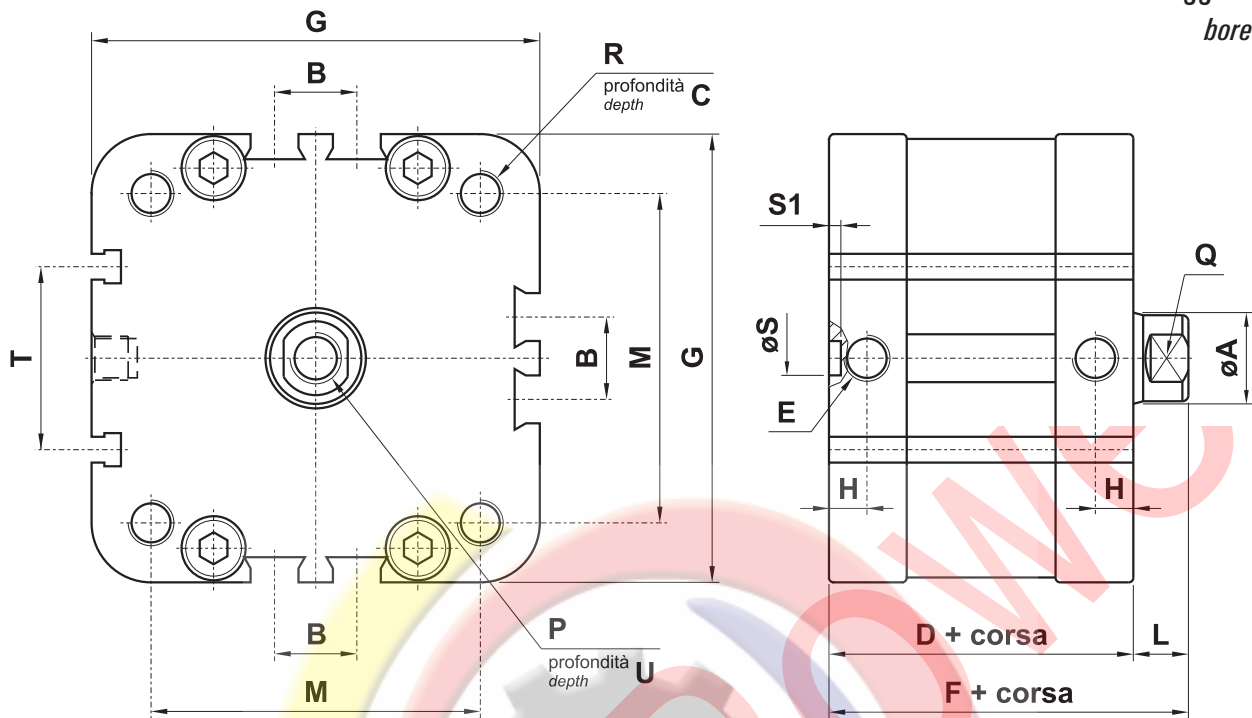
cilindri compatti

compact cylinders



alesaggio 80 - 100

bore 80 - 100



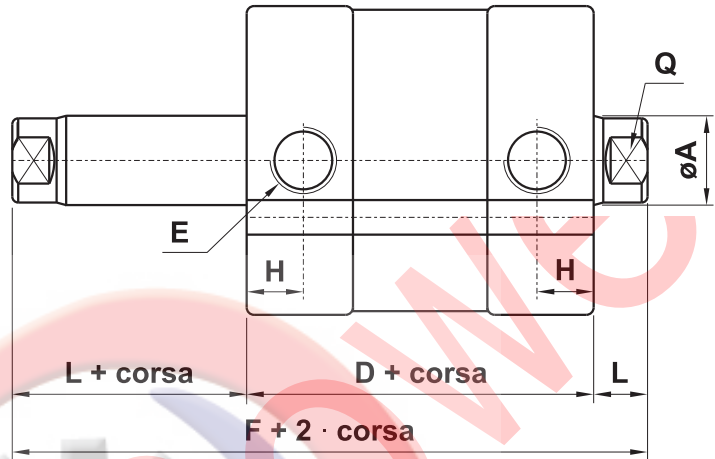
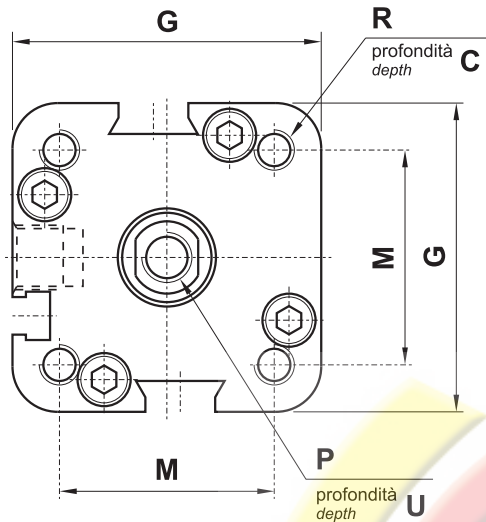
ø	A	B	C	D	E	F*	G		H	L*	M		P	Q	R		S	S1	T	U
							ISO	UNITOP			ISO	UNITOP			ISO	UNITOP				
80	20	18	17	56	G1/8"	66	99	99	8	10	72	82	M10	ch 17	M10	M10	8	4	40	20
100	25	28	17.5	67	G1/4"	77	119	119	9	10	89	103	M12	ch 22	M10	M10	8	4	40	24

F*, L*: In caso di cilindro semplice effetto molla posteriore aggiungere la lunghezza della corsa

F*, L*: In case of single acting cylinder with back spring add stroke length

VERSIONE MAGNETICA, FILETTO STELO FEMMINA, STELO PASSANTE

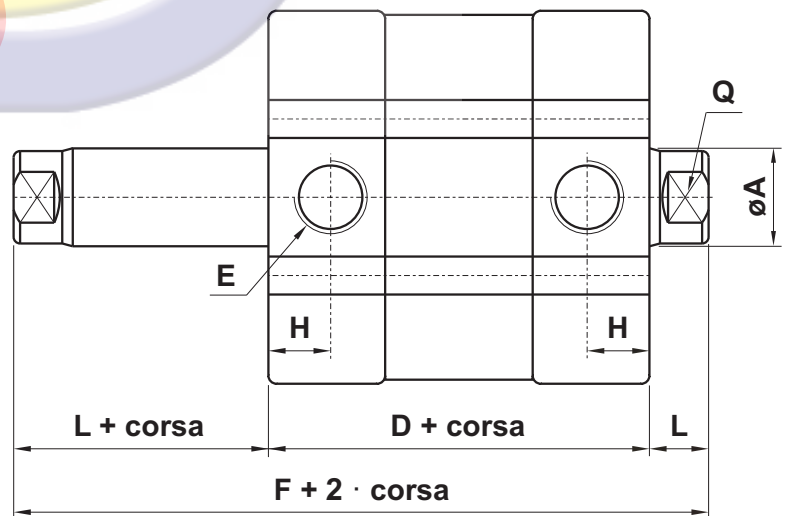
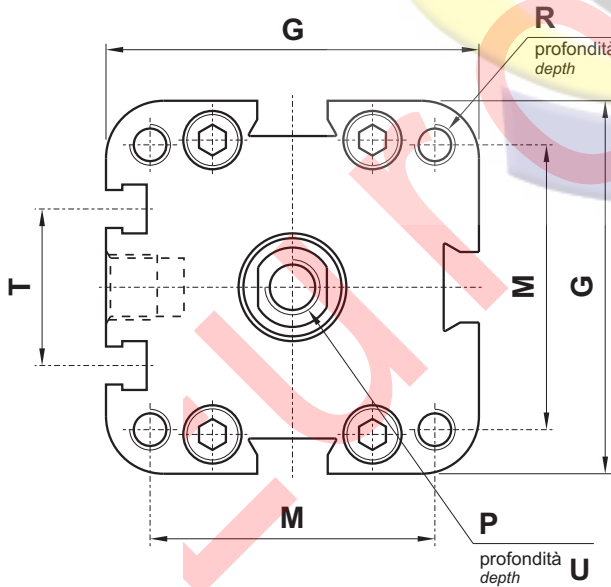
magnetic version, female rod thread, passing-through rod



alesaggio 32
bore 32

ø	A	C	D	E	F	G		H	L	M		P	Q	R		U
						ISO	UNITOP			ISO	UNITOP			ISO	UNITOP	
32	12	14	46	G1/8"	60	46	46	7	7	32.3	32.3	M8	ch 10	M6	M6	13.5

alesaggio 40 - 50 - 63
bore 40 - 50 - 63



ø	A	C	D	E	F	G		H	L	M		P	Q	R		T	U
						ISO	UNITOP			ISO	UNITOP			ISO	UNITOP		
40	12	14	46	G1/8"	60	55	55	6.5	7	38	42	M8	ch 10	M6	M6	22	13.5
50	16	16	50	G1/8"	66	64.5	64.5	8	8	46.5	50	M10	ch 13	M8	M8	24	16
63	16	16	53	G1/8"	69	78	78	8	8	56.5	62	M10	ch 13	M8	M10	29	16

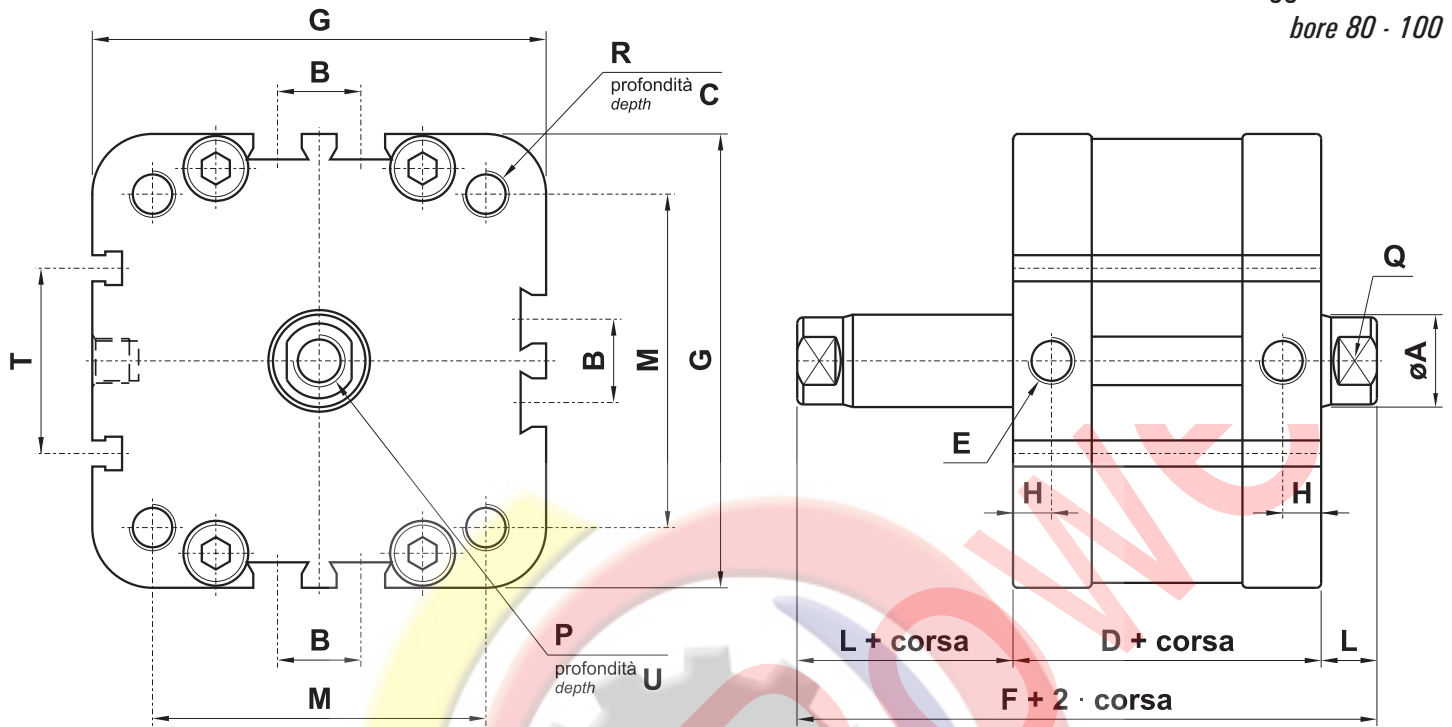
cilindri compatti

compact cylinders



alesaggio 80 - 100

bore 80 - 100



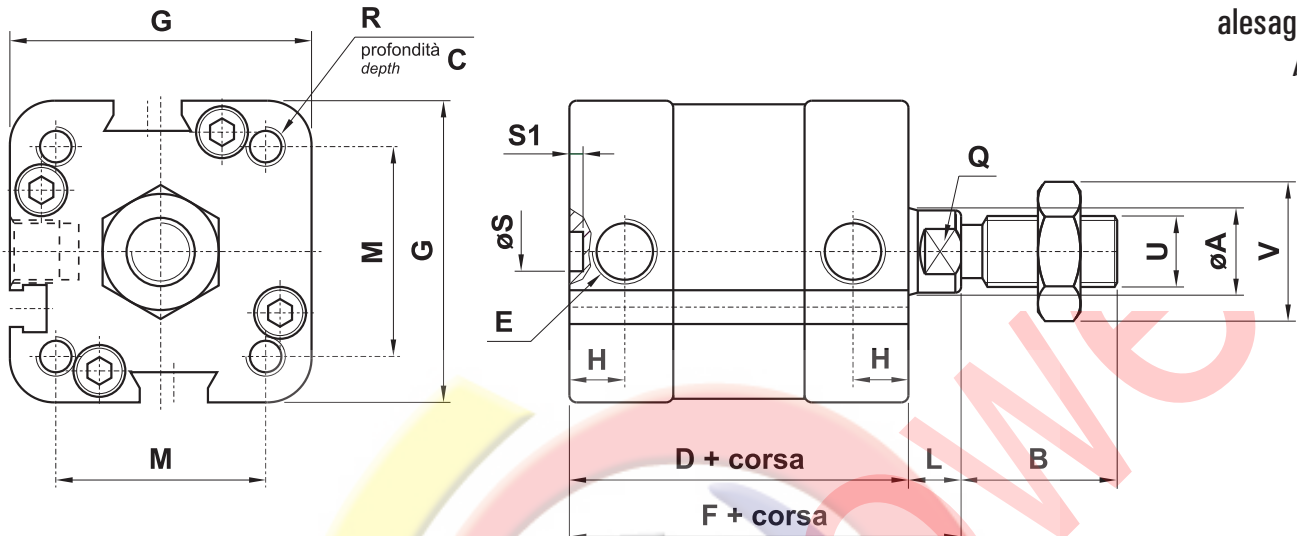
ø	A	B	C	D	E	F	G		H	L	M		P	Q	R		T	U
							ISO	UNITOP			ISO	UNITOP			ISO	UNITOP		
80	20	18	17	56	G1/8"	76	99	99	8	10	72	82	M10	ch 17	M10	M10	40	20
100	25	28	17.5	67	G1/4"	87	119	119	9	10	89	103	M12	ch 22	M10	M10	40	24

6

VERSIONE MAGNETICA, FILETTO STELO MASCHIO

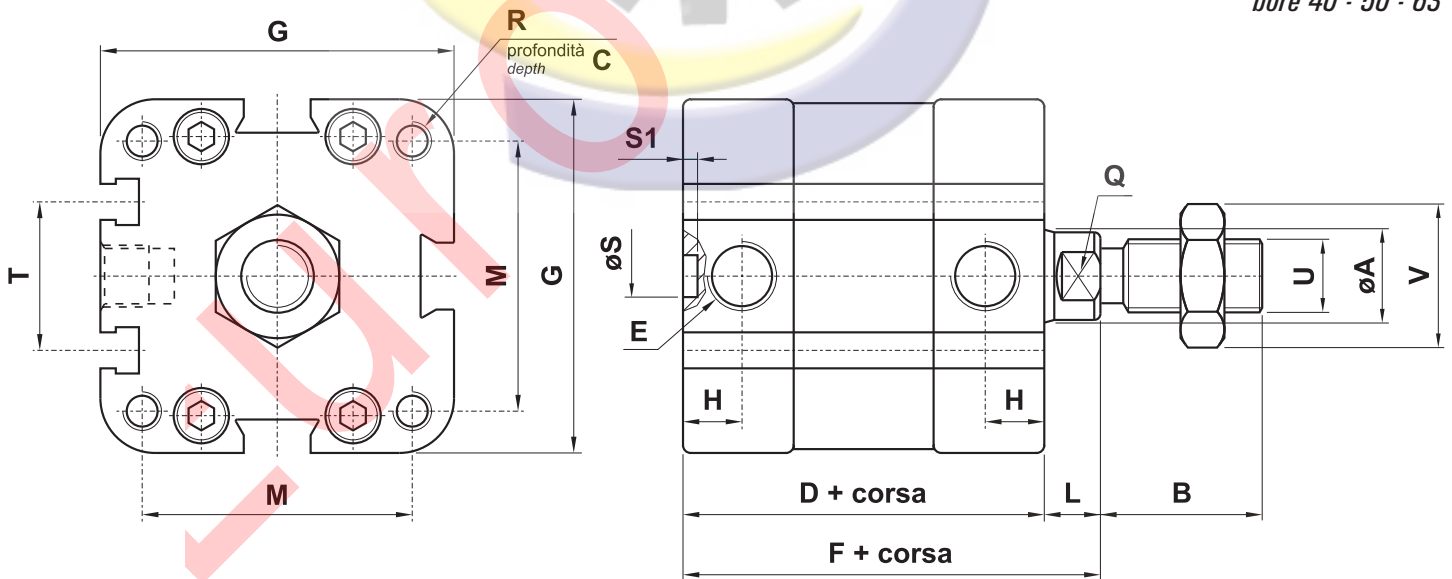
magnetic version, male rod thread

alesaggio 32
bore 32



ø	A	B	C	D	E	F*	G		H	L*	M		Q	R		S	S1	U	V
							ISO	UNITOP			ISO	UNITOP		ISO	UNITOP				
32	12	22	14	46	G1/8"	53	46	46	7	7	32.3	32.3	ch 10	M6	M6	6	2.5	M10x1.25	ch 17

alesaggio 40 - 50 - 63
bore 40 - 50 - 63



ø	A	B	C	D	E	F*	G		H	L*	M		Q	R		S	S1	T	U	V
							ISO	UNITOP			ISO	UNITOP		ISO	UNITOP					
40	12	22	14	46	G1/8"	53	55	55	6.5	7	38	42	ch 10	M6	M6	6	2.5	22	M10x1.25	ch 17
50	16	24	16	50	G1/8"	58	64.5	64.5	8	8	46.5	50	ch 13	M8	M8	6	2.5	24	M12x1.25	ch 19
63	16	24	16	53	G1/8"	61	78	78	8	8	56.5	62	ch 13	M8	M10	6	2.5	29	M12x1.25	ch 19

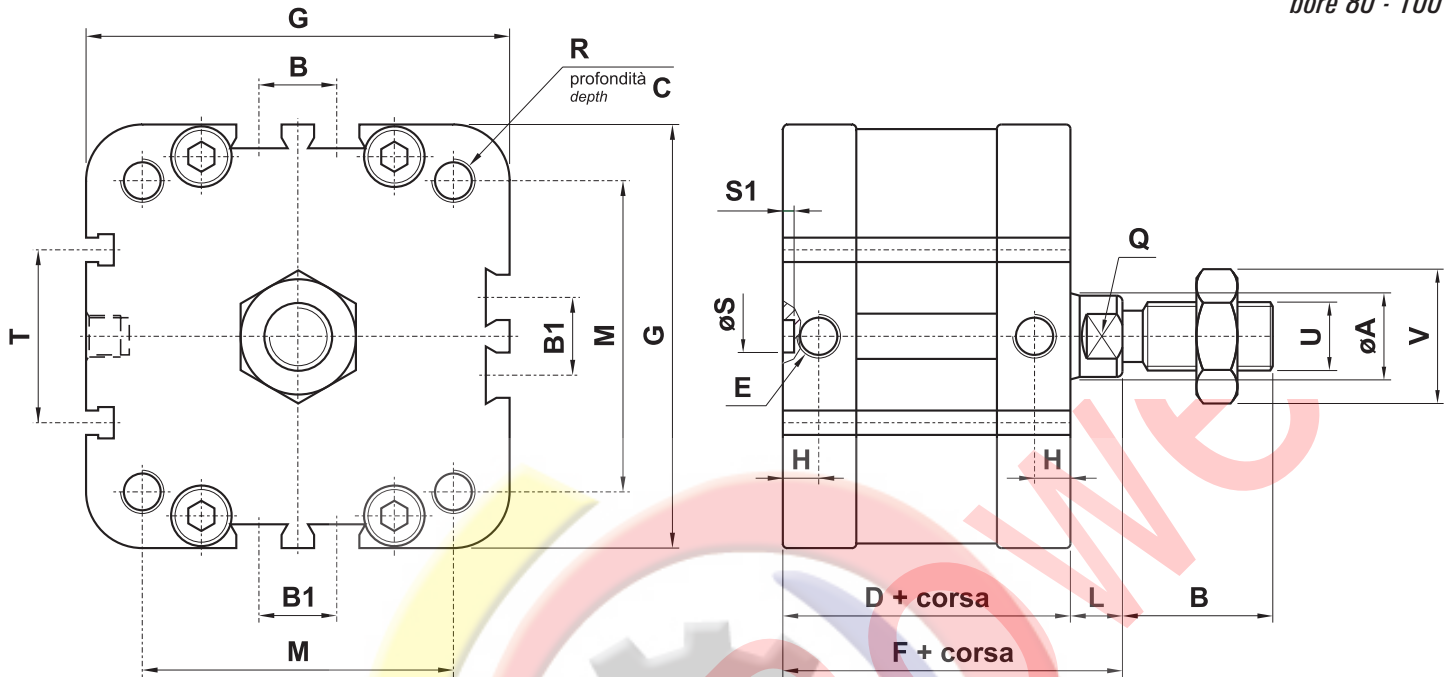
cilindri compatti

compact cylinders



alesaggio 80 - 100

bore 80 - 100



ø	A	B	B1	C	D	E	F*	G		H	L*	M		Q	R		S	S1	T	U	V
								ISO	UNITOP			ISO	UNITOP		ISO	UNITOP					
80	20	32	18	17	56	G1/8"	66	99	99	8	10	72	82	ch 17	M10	M10	8	4	40	M16x1.5	ch 24
100	25	40	28	17.5	67	G1/4"	77	119	119	9	10	89	103	ch 22	M10	M10	8	4	40	M20x1.5	ch 30

F*, L*: In caso di cilindro semplice effetto molla posteriore aggiungere la lunghezza della corsa

F*, L*: In case of single acting cylinder with back spring add stroke length

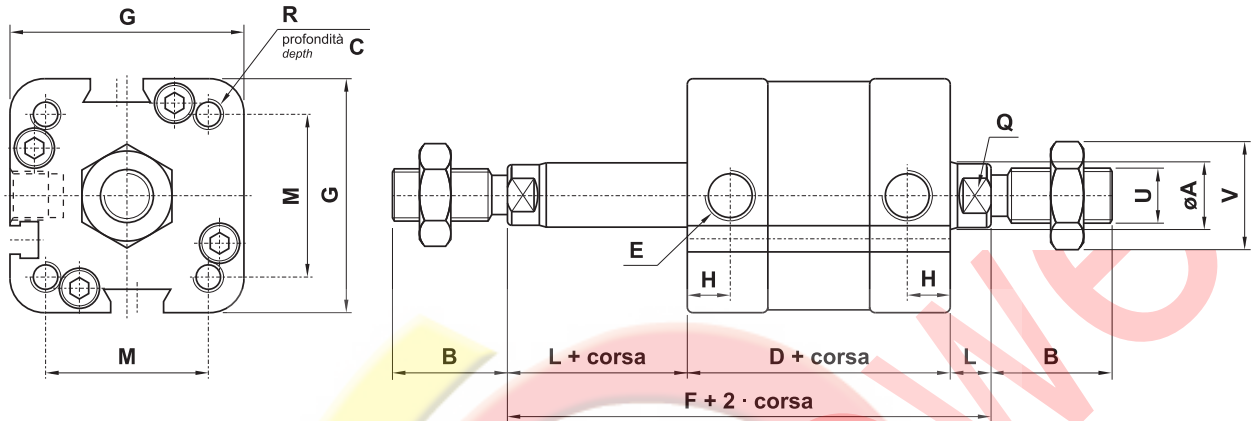
6

VERSIONE MAGNETICA, FILETTO STELO MASCHIO, STELO PASSANTE

magnetic version, male rod thread, passing-through rod

alesaggio 32

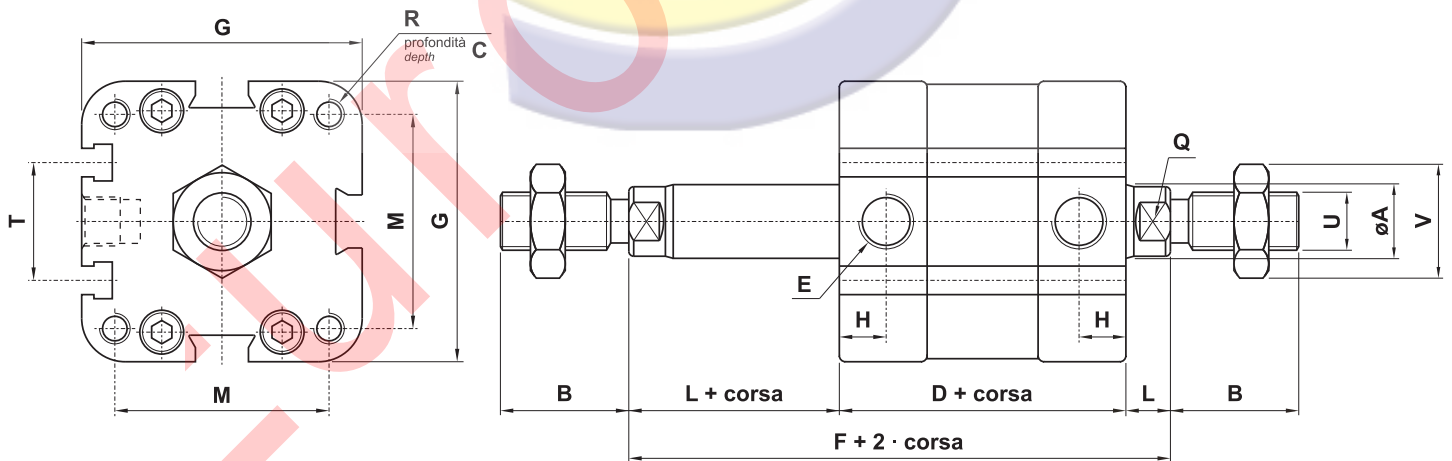
bore 32



ø	A	B	C	D	E	F	G		H	L	M		Q	R		U	V
							ISO	UNITOP			ISO	UNITOP		ISO	UNITOP		
32	12	22	14	46	G1/8"	60	46	46	7	7	32.3	32.3	ch 10	M6	M6	M10x1.25	ch 17

alesaggio 40 - 50 - 63

bore 40 - 50 - 63



ø	A	B	C	D	E	F	G		H	L	M		Q	R		T	U	V
							ISO	UNITOP			ISO	UNITOP		ISO	UNITOP			
40	12	22	14	46	G1/8"	60	55	55	6.5	7	38	42	ch 10	M6	M6	22	M10x1.25	ch 17
50	16	24	16	50	G1/8"	66	64.5	64.5	8	8	46.5	50	ch 13	M8	M8	24	M12x1.25	ch 19
63	16	24	16	53	G1/8"	69	78	78	8	8	56.5	62	ch 13	M8	M10	29	M12x1.25	ch 19

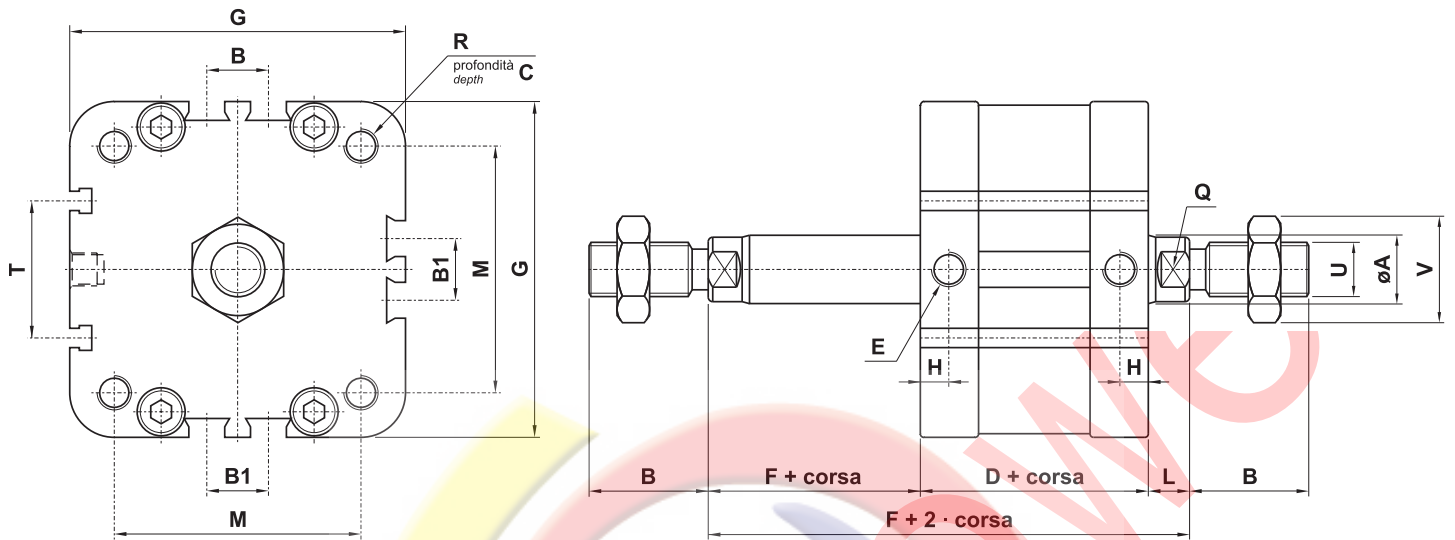
cilindri compatti

compact cylinders



alesaggio 80 - 100

bore 80 - 100



ø	A	B	B1	C	D	E	F	G		H	L	M		Q	R		T	U	V
								ISO	UNITOP			ISO	UNITOP		ISO	UNITOP			
80	20	32	18	17	56	G1/8"	76	99	99	8	10	72	82	ch 17	M10	M10	40	M16x1.5	ch 24
100	25	40	28	17.5	67	G1/4"	87	119	119	9	10	89	103	ch 22	M10	M10	40	M20x1.5	ch 30

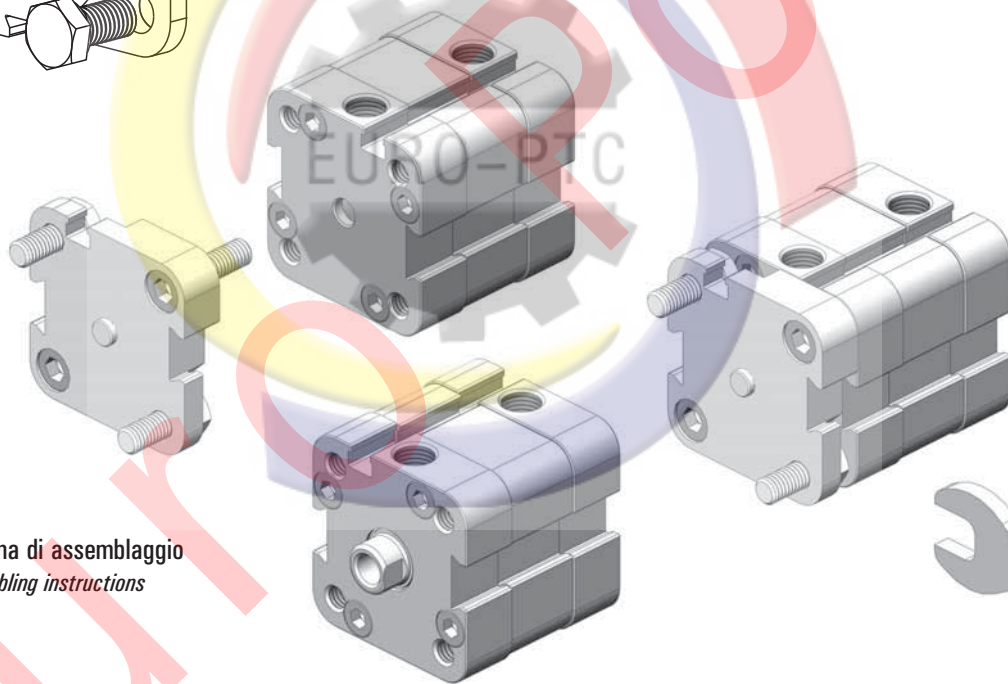
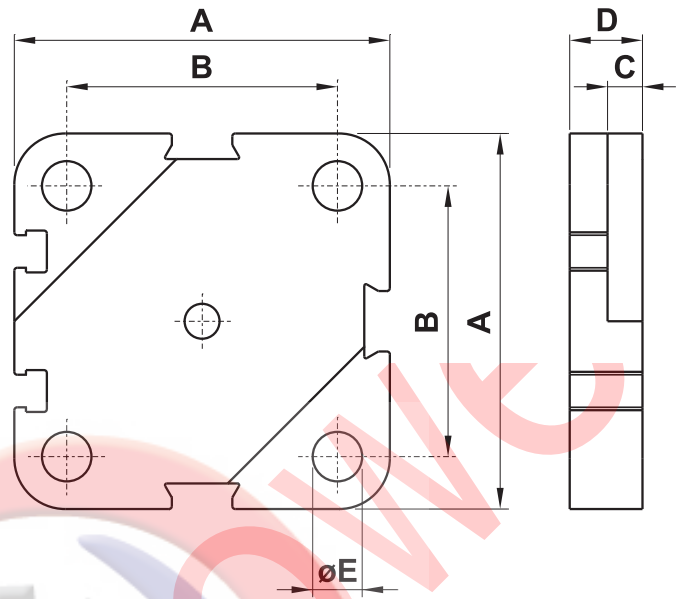
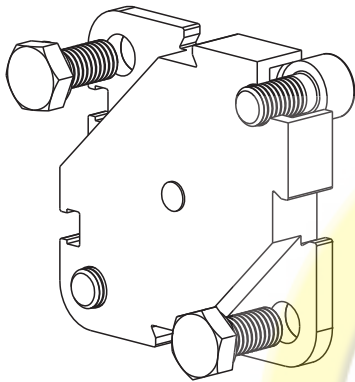
6

flangia intermedia per cilindri compatti contrapposti

intermediate flange for opposite compact cylinders

Questa flangia intermedia deve essere inserita tra due cilindri compatti per formare un cilindro contrapposto. È venduta in kit con tutti i particolari necessari al suo assemblaggio.

This intermediate flange is inserted between two compact cylinders to form an opposite cylinder. It is sold in kit with all necessary pieces for installation.



Schema di assemblaggio
Assembling instructions

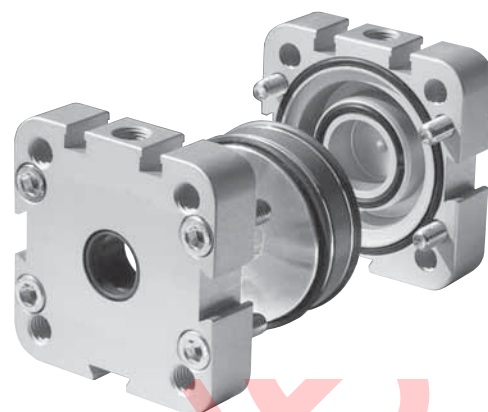
codice code		per alesaggio for bore	A	B		C	D	E
ISO	UNITOP			ISO	UNITOP			
25.082.2	25.082.2	32	46	32.3	32.3	5	10.5	6.5
25.083.2	25.088.2	40	55	38	42	6	12.5	6.5
25.084.2	25.089.2	50	64.5	46.5	50	6	12.5	8.5
25.085.2	25.090.2	63	78	56.5	62	7	13.5	8.5
25.086.2	25.091.2	80	98	72	82	7	15	10.5
25.087.2	25.092.2	100	119	89	103	7	15	10.5

kit cilindro compatto

compact cylinder kit

Il kit comprende:

- testate premontate
- pistone con magnete, guarnizioni e anello di guida (per pistone in alluminio)
- viti
- tutte le guarnizioni necessarie



MAGNETICO, guarnizioni standard

normale					stelo passante [passing-through rod]				
per alesaggio for bore	ISO		UNITOP		per alesaggio for bore	ISO		UNITOP	
	sigla part number	codice code	sigla part number	codice code		sigla part number	codice code	sigla part number	codice code
32	KP032	25.004.3	KR032	25.104.3	32	KP032P	25.014.3	KR032P	25.114.3
40	KP040	25.005.3	KR040	25.105.3	40	KP040P	25.015.3	KR040P	25.115.3
50	KP050	25.006.3	KR050	25.106.3	50	KP050P	25.016.3	KR050P	25.116.3
63	KP063	25.007.3	KR063	25.107.3	63	KP063P	25.017.3	KR063P	25.117.3
80	KP080	25.008.3	KR080	25.108.3	80	KP080P	25.018.3	KR080P	25.118.3
100	KP100	25.009.3	KR100	25.109.3	100	KP100P	25.019.3	KR100P	25.119.3

MAGNETICO, guarnizioni VITON

normale					stelo passante [passing-through rod]				
per alesaggio for bore	ISO		UNITOP		per alesaggio for bore	ISO		UNITOP	
	sigla part number	codice code	sigla part number	codice code		sigla part number	codice code	sigla part number	codice code
32	KP032V	25.024.3	KR032V	25.124.3	32	KP032PV	25.034.3	KR032PV	25.134.3
40	KP040V	25.025.3	KR040V	25.125.3	40	KP040PV	25.035.3	KR040PV	25.135.3
50	KP050V	25.026.3	KR050V	25.126.3	50	KP050PV	25.036.3	KR050PV	25.136.3
63	KP063V	25.027.3	KR063V	25.127.3	63	KP063PV	25.037.3	KR063PV	25.137.3
80	KP080V	25.028.3	KR080V	25.128.3	80	KP080PV	25.038.3	KR080PV	25.138.3
100	KP100V	25.029.3	KR100V	25.129.3	100	KP100PV	25.039.3	KR100PV	25.139.3

Maggiori informazioni sono disponibili all'indirizzo internet <http://www.azpneumatica.com/azweb/ita/kitcilc.htm>

More information is available at the internet address <http://www.azpneumatica.com/azweb/ita/kitcilc.htm>

barre per camicia cilindri compatti

barrel for compact cylinders



	codice di ordinazione order code	dimensioni - dimensions [mm]					peso weight [kg/m]
		A	B	C	D	E	
	000.523.7	$\varnothing 32^{+0.16}$	32.5	45	14.5	20.5	2.368
	000.524.7	$\varnothing 40^{+0.16}$	38	53	22	-	2.984
	000.525.7	$\varnothing 50^{+0.19}$	46.5	63	24	-	3.823
	000.526.7	$\varnothing 63^{+0.19}$	56.5	76.5	29	-	5.686
	000.527.7	$\varnothing 80^{+0.22}$	72	95	40	18	7.544
	000.528.7	$\varnothing 100^{+0.45}$	89	115	40	28	10.919

composizione chimica chemical composition	Cu	Fe	Mn	Mg	Si	Zn	Cr	Ti	Al resto
	≤ 0.10	0.10 ÷ 0.30	≤ 0.10	0.35 ÷ 0.60	0.30 ÷ 0.60	≤ 0.15	≤ 0.05	≤ 0.10	

Fori di fissaggio

dal $\varnothing 32$ al $\varnothing 100$: predisposti per la filettatura metrica mediante rullatura

Fixing holes

from $\varnothing 32$ to $\varnothing 100$: prepared for metric thread through rolling

fissaggi per cilindri compatti ISO

fixing elements for ISO compact cylinders



Per altre informazioni vedi le pagine 426-430 (fissaggi per cilindri ISO 6431 VDMA)

For more information refer to pages 426-430 (fixing elements for cylinders ISO 6431 VDMA)

<p>CERNIERA MASCHIO SNODO SFERICO</p>		<p>CMSS...</p>
<p>CERNIERA MASCHIO</p>		<p>CMIS... CMKS...</p>
<p>CERNIERA FEMMINA CON PERNO</p>		<p>CFIS... CFKS...</p>

∅	A1	B1	C	D1
32	75	22	10	26
40	78	25	12	28
50	85	27	12	32
63	93	32	16	40
80	102	36	16	50
100	118	41	20	60

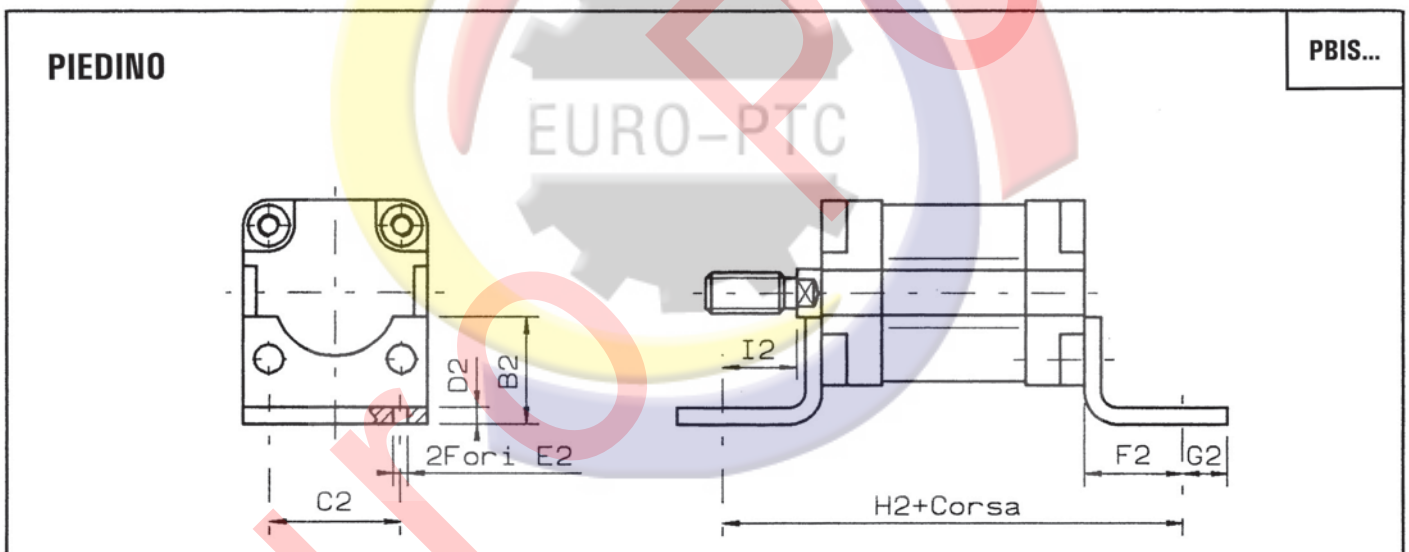
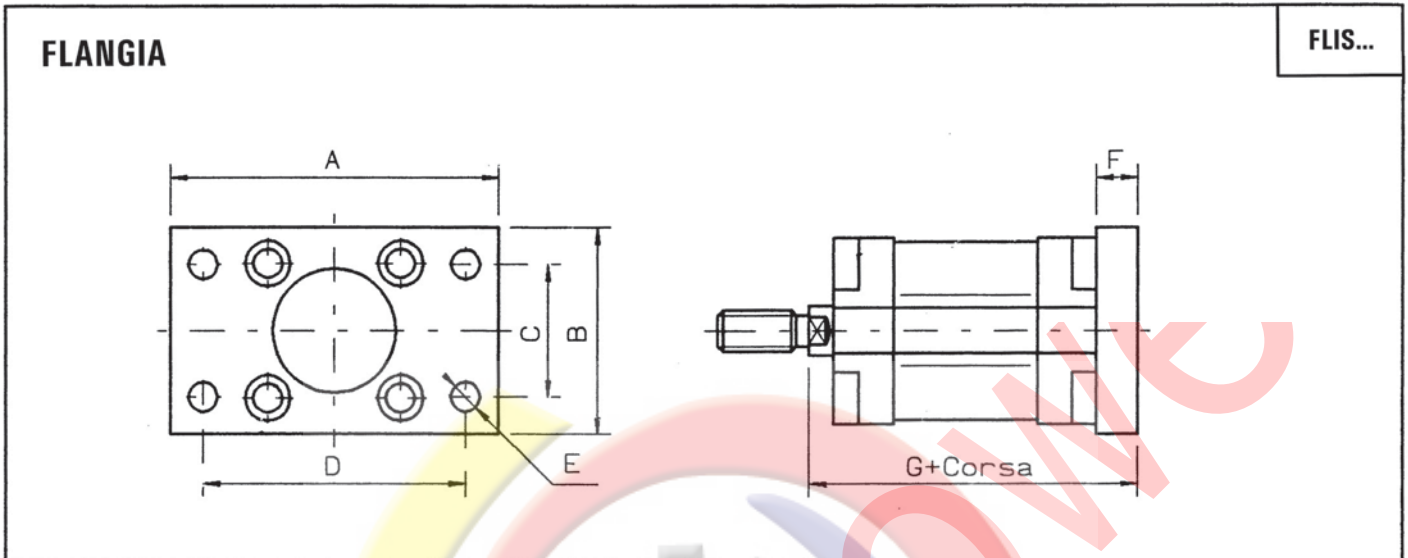
fissaggi per cilindri compatti ISO

fixing elements for ISO compact cylinders



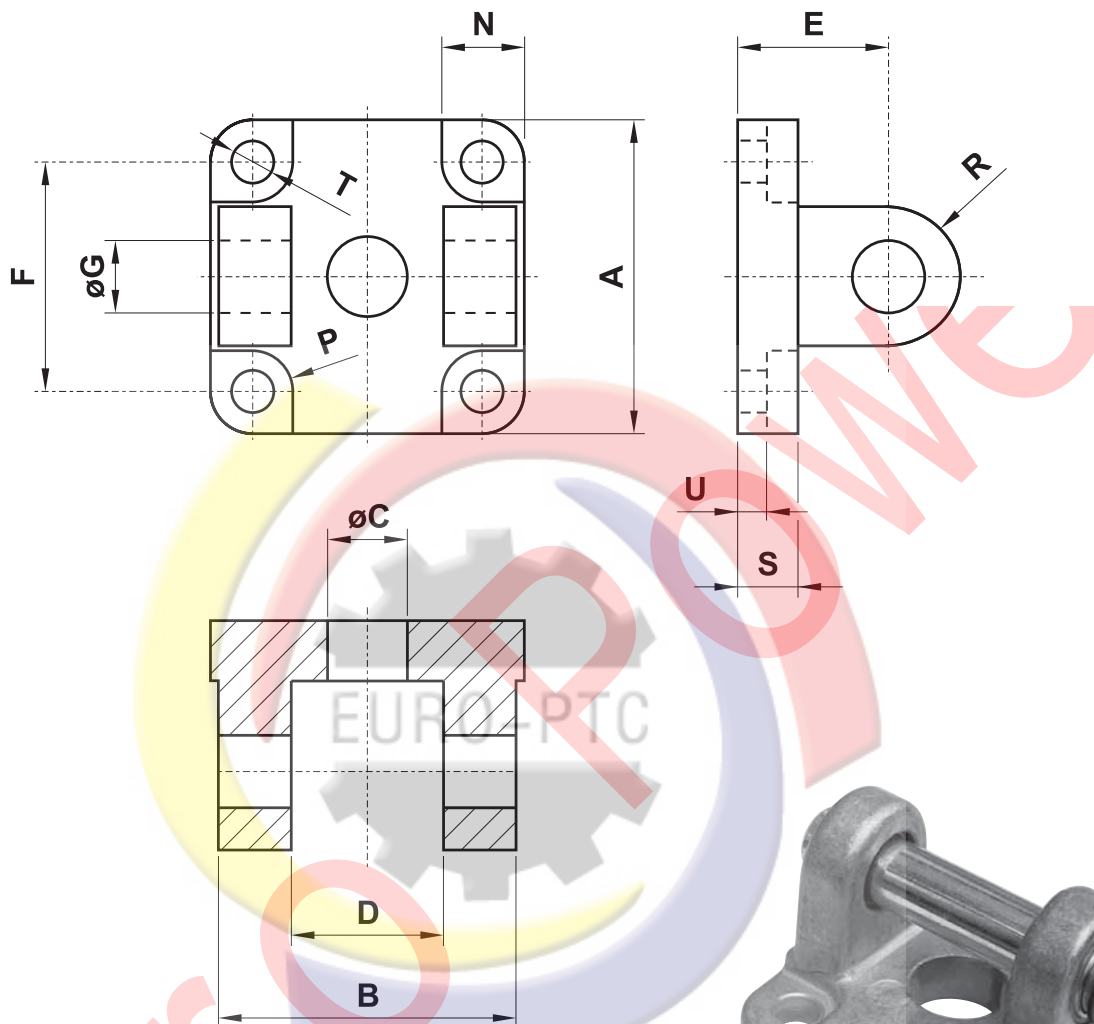
Per altre informazioni vedi le pagine 426-430 (fissaggi per cilindri ISO 6431 VDMA)

For more information refer to pages 426-430 (fixing elements for cylinders ISO 6431 VDMA)



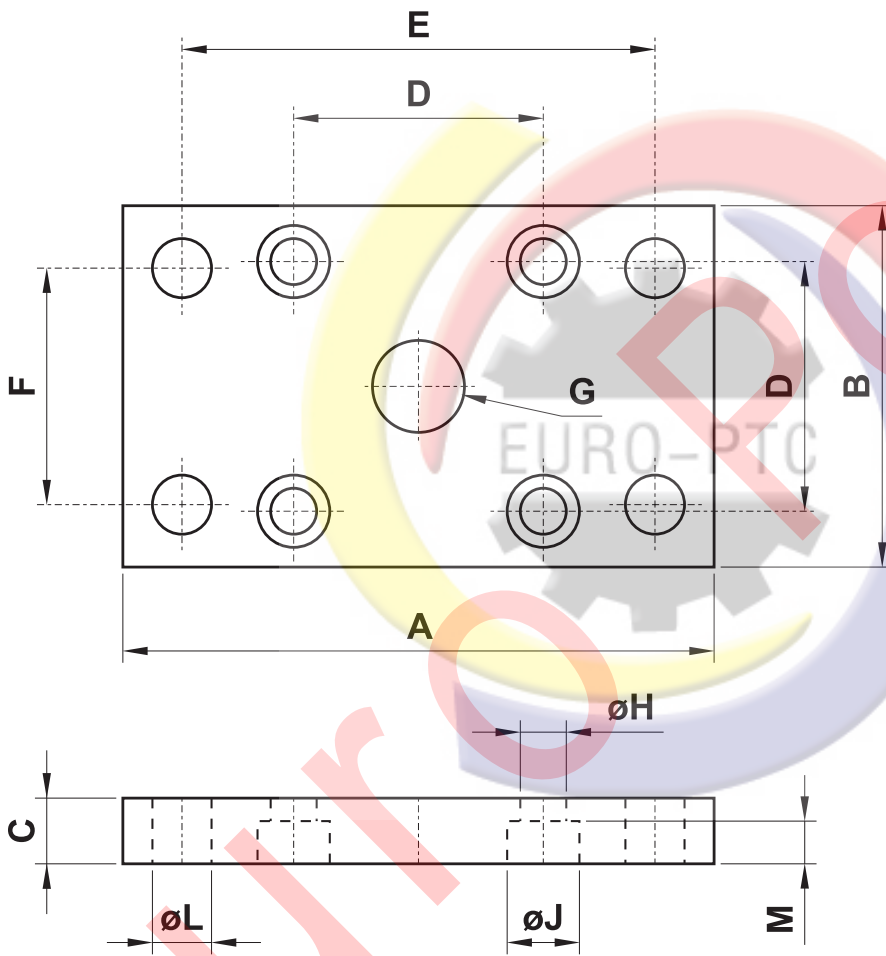
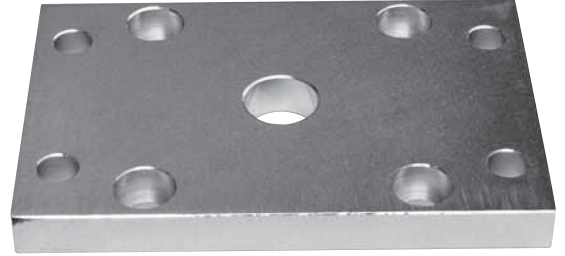
G	F	E	D	C	B	A	∅	B2	C2	D2	E2	F2	G2	H2	I2
63	10	7	64	32	45	80	32	30	32.5	4	7	24	11	94	17
63	10	9	72	36	52	90	40	30	38	4	9	28	8	102	21
70	12	9	90	45	65	110	50	36	46.5	5	9	32	15	114	24
73	12	9	100	50	75	120	63	35	56.5	5	9	32	13	117	24
82	16	12	126	63	95	150	80	47	72	6	12	41	14	138	31
93	16	14	150	75	115	170	100	53	89	6	14	41	16	149	31

CERNIERA FEMMINA CON PERNO



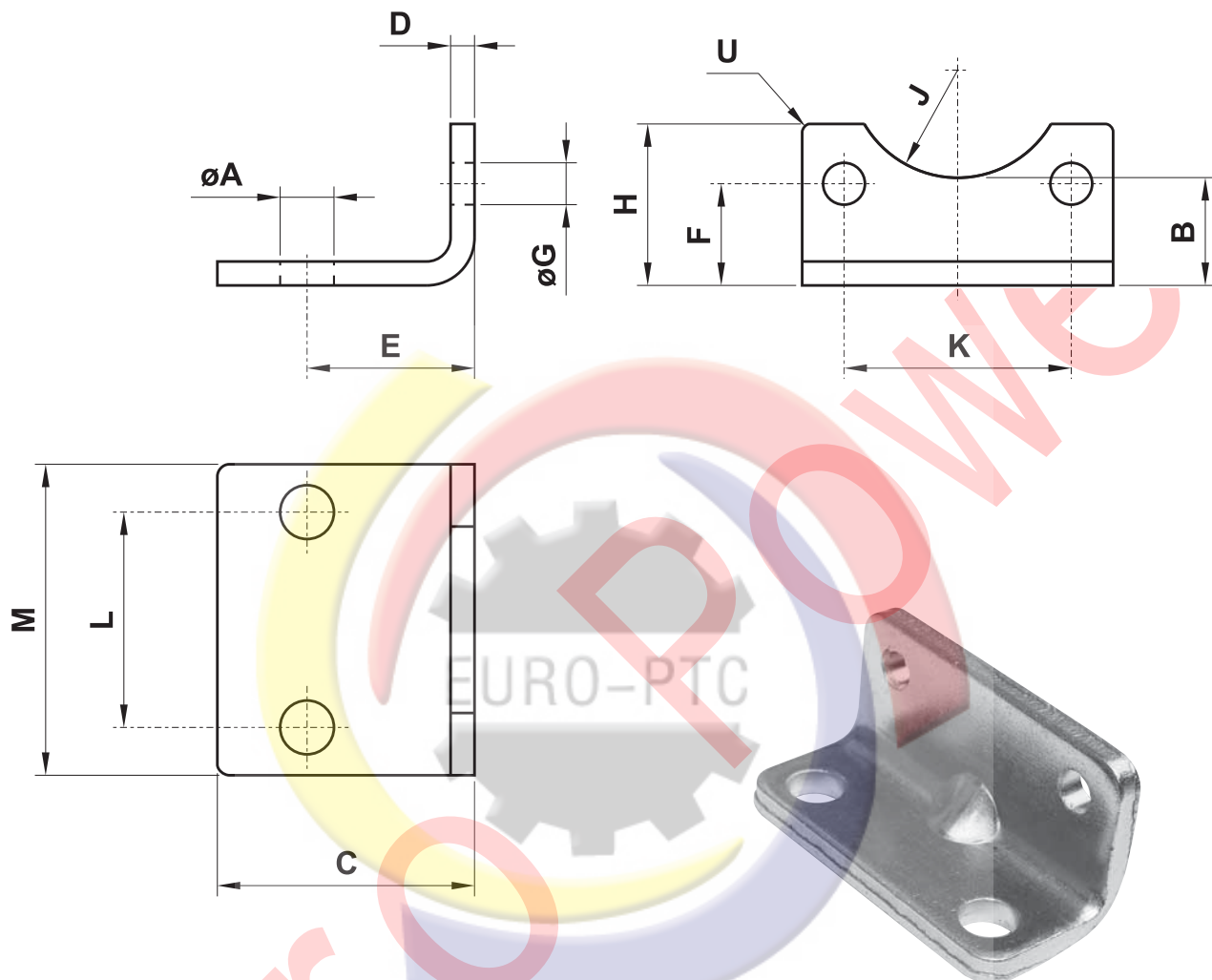
sigla part number	sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	N	P	R	S	T	U
standard	con boccola di bronzo														
CFUN032	CFKN032	32	48	45	14	26	22	32	10	13.5	5.5	10	9	6.6	5.5
CFUN040	CFKN040	40	58	52	14	28	25	42	12	13.5	5.5	12.5	9	6.6	5.5
CFUN050	CFKN050	50	66	60	18	32	27	50	12	15.5	7.5	12.5	11	9	6.5
CFUN063	CFKN063	63	83	70	18	40	32	62	16	18	7.5	15	11	11	6.5
CFUN080	CFKN080	80	102	90	23	50	36	82	16	19	9	15	13	11	10
CFUN100	CFKN100	100	123	110	28	60	41	103	20	19	9	20	15	11	10

FLANGIA



sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M
FLUN032	32	80	50	10	32	65	32	ø14	6.6	11	7	6.4
FLUN040	40	102	60	10	42	82	36	ø14	6.6	11	9	6.4
FLUN050	50	110	68	12	50	90	45	ø18	9	15	9	8.6
FLUN063	63	130	87	15	62	110	50	ø18	11	15	9	8.6
FLUN080	80	160	107	15	82	135	63	ø23	11	18	12	10.6
FLUN100	100	190	128	15	103	163	75	ø28	11	18	14	10.6

PIEDINO



sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J	K	L	M	U
PBUN032	32	6.6	20	26	5	18	16	6.6	24	12	32	32	50	2
PBUN040	40	9	-	28	5	20	21.5	6.6	29.5	-	42	42	60	5
PBUN050	50	9	-	32	6	24	22	9	30	-	50	50	68	5
PBUN063	63	11	-	39	6	27	28.5	11	39	-	62	62	84	5
PBUN080	80	11	-	42	8	30	24.5	11	36.5	-	82	82	102	5
PBUN100	100	13.5	-	45	8	33	26.5	11	38.5	-	103	103	123	5

* La sigla si riferisce a un solo piedino e non alla coppia

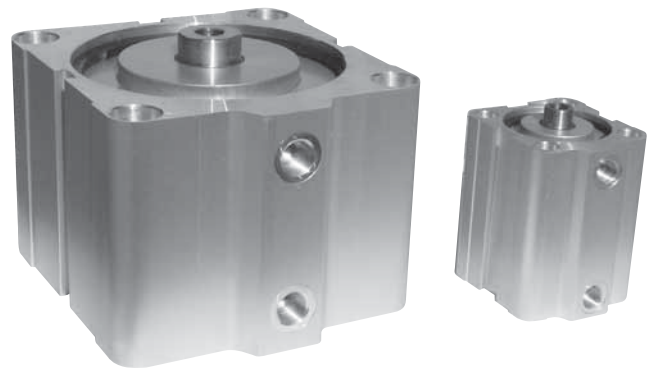
* The part number is referred to only one element and not to the couple

cilindri corsa breve

short stroke cylinders



- Dimensioni di ingombro ridotte
Reduced external dimensions
- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Esecuzioni e corse speciali a richiesta
Special versions and strokes on request



Materiali

Camicia: alluminio

Stelo: C45 cromato o INOX AISI 304

Testate: alluminio con boccia guida stelo

Pistone: ottone fino all'alesaggio 25; tecnopolimero dall'alesaggio 32 al 100 (alluminio su richiesta). Il pistone in tecnopolimero non è adatto per la versione ATEX.

Guarnizioni: poliuretano o VITON

Guarnizione stelo: poliuretano o VITON

Magnete: neodimio fino all'alesaggio 25

plastroferrite dall'alesaggio 32 al 100

Il magnete non è adatto per temperature oltre +60°C

Materials

Barrel: aluminium

Piston-rod: C45 (chromium plated) or stainless steel

End-cups: aluminium with rod guide

Piston: brass from bore 16 to 25; technopolymer from bore 32 to 100 (aluminium on request). The piston in technopolymer is not suitable for ATEX.

Sealings: polyurethane or VITON

Piston-rod sealing: polyurethane or VITON

Magnet: neodymium from bore 16 to 25

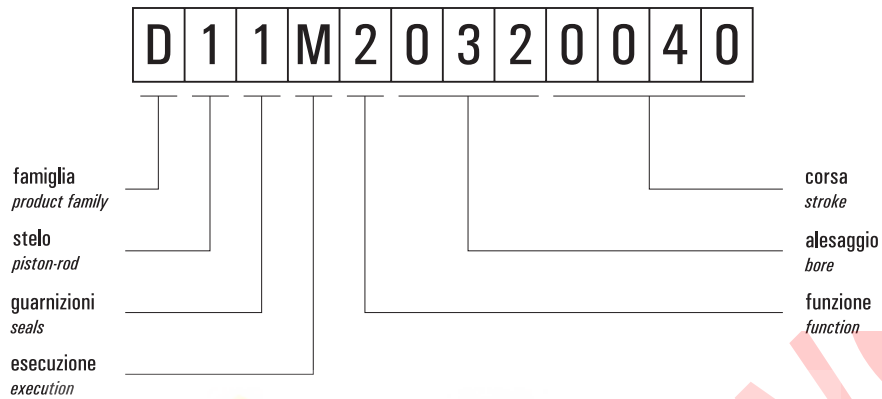
magnetic iron compound from bore 32 to 100

The magnet is not suitable for temperatures over +60°C

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	standard (poliuretano/NBR): max +60°C VITON: max +110°C
Alesaggi <i>Bores</i>	16; 20; 25; 32; 40; 50; 63; 80; 100 mm
Corse <i>Strokes</i>	5 ... 100 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

chiave di codifica

key to codes



Famiglia [product family]

D cilindri corsa breve [short stroke cylinders]

Stelo [piston-rod]

1 C45 cromato [C45 chromium plated]

2 INOX [stainless steel]

Guarnizioni [seals]

1 poliuretano

2 tutte le guarnizioni in VITON
[all seals in VITON]

3 guarnizioni dello stelo in VITON [rod seals in VITON]

Esecuzione [execution]

M magnetico [magnetic]

Funzione [function]

1 semplice effetto non ammortizzato molla anteriore
[single acting front spring without pneumatic cushioning]

2 doppio effetto non ammortizzato
[double acting without pneumatic cushioning]

3 semplice effetto non ammortizzato molla posteriore
[single acting back spring without pneumatic cushioning]

4 doppio effetto non ammortizzato stelo passante
[double acting without pneumatic cushioning, with passing-through rod]

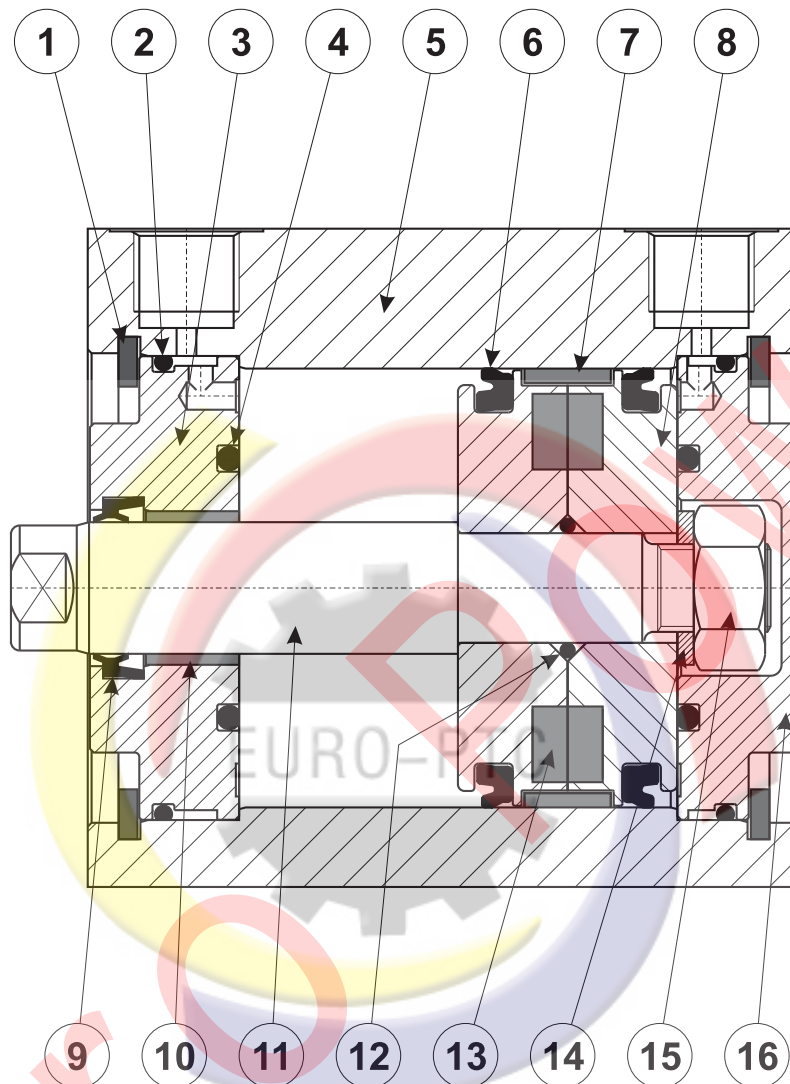
6

cilindri corsa breve

short stroke cylinders



disegno valido dall'alesaggio 32 all'alesaggio 100
the drawing is valid from bore 32 to bore 100



1. Anello SEEGER per fissaggio testata
2. O-Ring per tenuta testata: NBR o VITON
3. Testata anteriore: alluminio
4. O-Ring paracolpi: NBR o VITON
5. Camicia: alluminio profilato, calibrato e anodizzato
6. Guarnizione a labbro per pistone: poliuretano o VITON
7. Anello guida per pistone: bronzo PTFE (solo per pistone in alluminio)
8. Pistone: tecnopolimero o alluminio
9. Guarnizione stelo: poliuretano o VITON
10. Boccola guida: materiale autolubrificante
11. Stelo: acciaio C45 cromato o INOX AISI 304
12. O-Ring per tenuta pistone: NBR o VITON
13. Magnete: plastoferrite
14. Rondella piana
15. Dado per bloccaggio stelo
16. Testata posteriore: alluminio

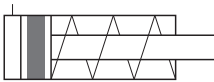
cilindri corsa breve

short stroke cylinders



versioni disponibili

available versions

semplice effetto molla anteriore <i>single acting front spring</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio										
	corsa	bore	16	20	25	32	40	50	63	80	100
	5		X	X	X	X	X	X	X	X	X
	10		X	X	X	X	X	X	X	X	X
	25		X	X	X	X	X	X	X	X	X
	30							X	X	X	X
	40										
	50										
	75										
	100										
semplice eff. molla posteriore <i>single acting back spring</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio										
	corsa	bore	16	20	25	32	40	50	63	80	100
	5		X	X	X	X	X	X	X	X	X
	10		X	X	X	X	X	X	X	X	X
	25		X	X	X	X	X	X	X	X	X
	30							X	X	X	X
	40										
	50										
75											
100											

OPZIONI <i>options</i>		
Lo standard è evidenziato in grigio The standard is marked with grey background		
materiale stelo (piston-rod material)		
C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
materiale guarnizioni (seals material)		
poliuret.	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>

OPZIONI <i>options</i>		
Lo standard è evidenziato in grigio The standard is marked with grey background		
materiale stelo (piston-rod material)		
C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
materiale guarnizioni (seals material)		
poliuret.	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>

6

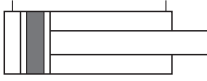
cilindri corsa breve

short stroke cylinders



versioni disponibili

available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio										
	corsa	bore	16	20	25	32	40	50	63	80	100
	5		X	X	X	X	X	X	X	X	X
	10		X	X	X	X	X	X	X	X	X
	25		X	X	X	X	X	X	X	X	X
	30		X	X	X	X	X	X	X	X	X
	40		X	X	X	X	X	X	X	X	X
	50			X	X	X	X	X	X	X	X
	75								X	X	X
	100									X	X
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	5		X	X	X	X	X	X	X	X	X
	10		X	X	X	X	X	X	X	X	X
	25		X	X	X	X	X	X	X	X	X
	30		X	X	X	X	X	X	X	X	X
	40		X	X	X	X	X	X	X	X	X
	50			X	X	X	X	X	X	X	X
	75								X	X	X
	100									X	X

OPZIONI <i>options</i>		
Lo standard è evidenziato in grigio The standard is marked with grey background		
materiale stelo (piston-rod material)		
C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
materiale guarnizioni (seals material)		
poliuret.	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>

OPZIONI <i>options</i>		
Lo standard è evidenziato in grigio The standard is marked with grey background		
materiale stelo (piston-rod material)		
C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
materiale guarnizioni (seals material)		
poliuret.	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>

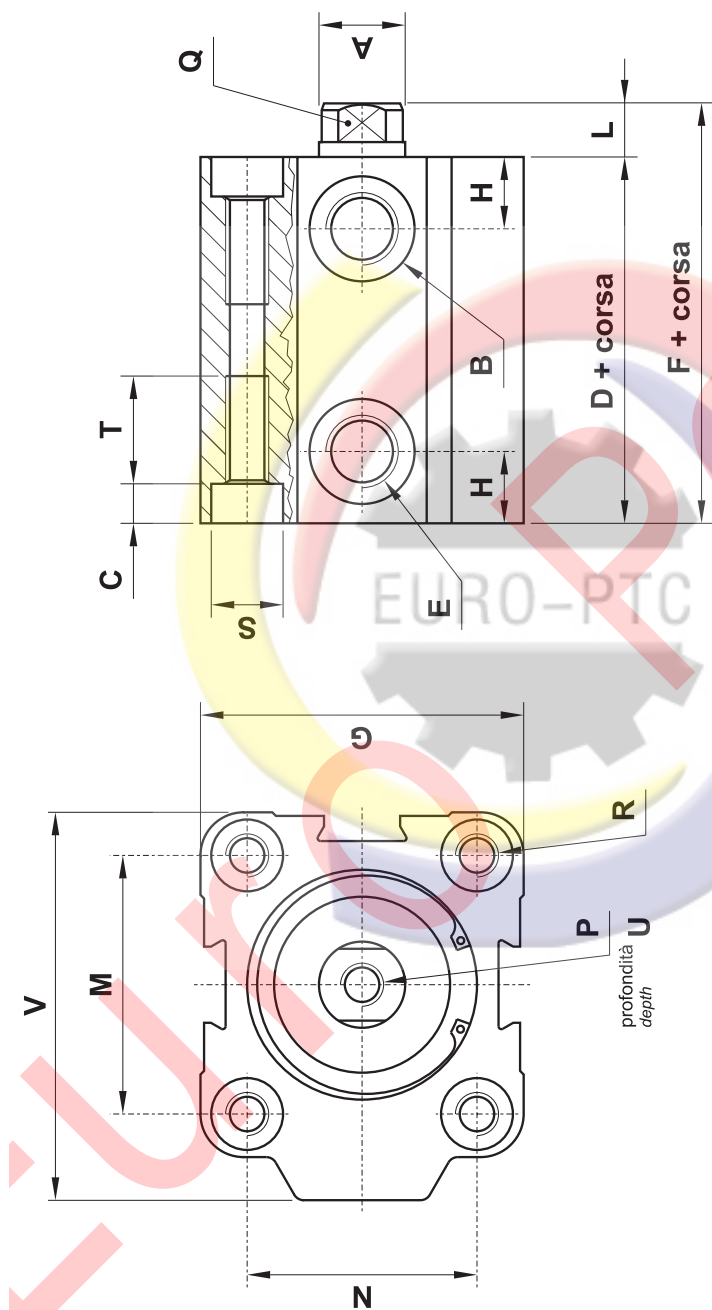
cilindri corsa breve

short stroke cylinders



VERSIONE NORMALE

Normal version



Ø	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
16	Ø8	-	3.5	36	M5	41.5	28	8	5.5	20	20	5.5	20	20	M5	M5	CH 7	M4	Ø6	10	10	31
20	Ø10	-	4.5	36	M5	41.5	32	8.5	5.5	22	22	5.5	22	22	M5	M5	CH 8	M5	Ø7	12	10	35
25	Ø10	Ø14	4.5	38	G1/8"	43.5	38	9	5.5	28	26	5.5	28	26	M5	M5	CH 8	M5	Ø7	12	10	44.5
32	Ø12	Ø14	5.5	46.2	G1/8"	53.2	45	9	7	36	32	7	36	32	M8	M8	CH 10	M6	Ø9	17	13.5	54
40	Ø12	Ø14	5.5	46.2	G1/8"	53.2	54.5	10	7	40	40	7	40	40	M8	M8	CH 10	M6	Ø9	17	13.5	60
50	Ø16	Ø14	6.5	50	G1/8"	58	65	11.5	8	50	50	8	50	50	M10	M10	CH 13	M8	Ø11	20	16	72.5
63	Ø16	Ø14	8.5	53	G1/8"	61	80	11.5	8	62	62	8	62	62	M10	M10	CH 13	M10	Ø14	20	16	88
80	Ø20	Ø19	8.5	56.4	G1/4"	66.2	100	13.8	9.8	82	82	9.8	82	82	M10	M10	CH 17	M10	Ø14	22.5	20	110
100	Ø25	Ø19	11	67	G1/4"	77	124	17	10	103	103	10	103	103	M12	M12	CH 22	M12	Ø17	24	24	134

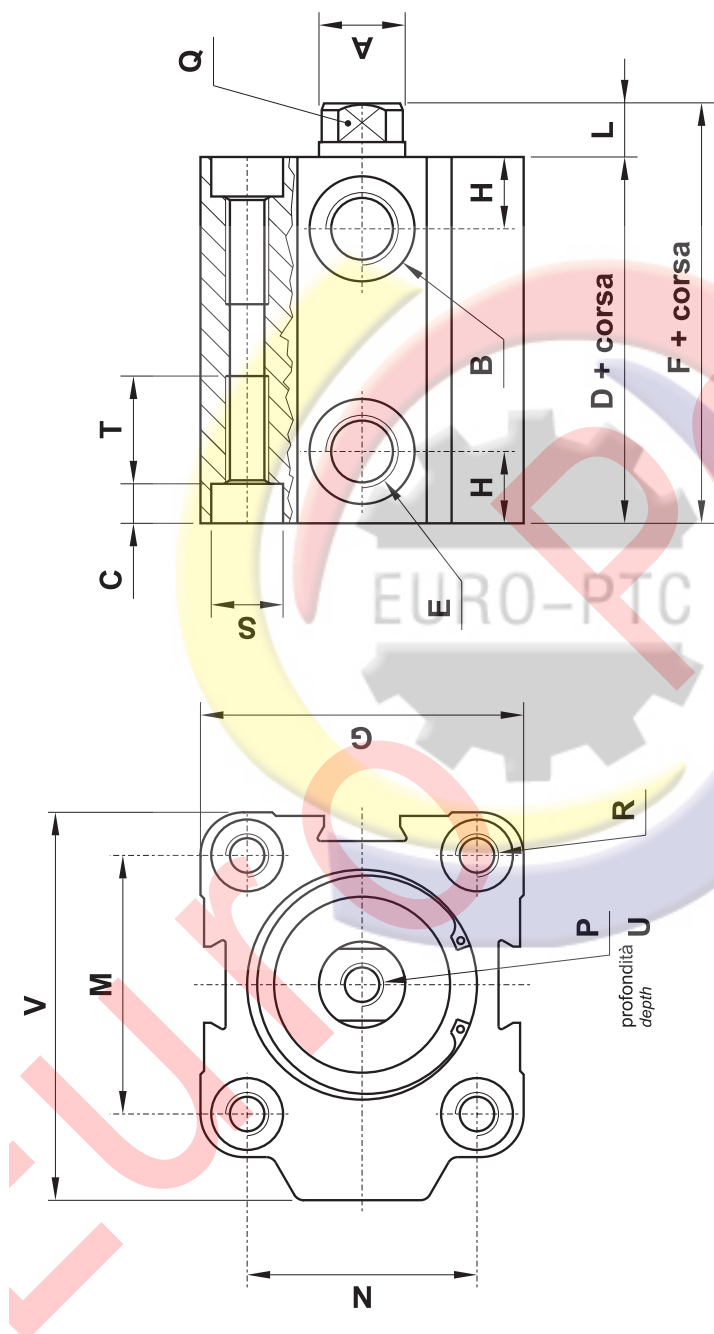
cilindri corsa breve

short stroke cylinders



VERSIONE SEMPLICE EFFETTO MOLLA ANTERIORE

Single acting version, front spring



Ø	A	B	C	D	E	F	G	H	L	M	N	P	Q	R	S	T	U	V
16	Ø8	-	3.5	51	M5	56.5	28	8	5.5	20	20	M5	CH 7	M4	Ø6	10	10	31
20	Ø10	-	4.5	51	M5	56.5	32	8.5	5.5	22	22	M5	CH 8	M5	Ø7	12	10	35
25	Ø10	Ø14	4.5	53	G1/8"	58.5	38	9	5.5	28	26	M5	CH 8	M5	Ø7	12	10	44.5
32	Ø12	Ø14	5.5	46.2	G1/8"	53.2	45	9	7	36	32	M8	CH 10	M6	Ø9	17	13.5	54
40	Ø12	Ø14	5.5	46.2	G1/8"	53.2	54.5	10	7	40	40	M8	CH 10	M6	Ø9	17	13.5	60
50	Ø16	Ø14	6.5	50	G1/8"	58	65	11.5	8	50	50	M10	CH 13	M8	Ø11	20	16	72.5
63	Ø16	Ø14	8.5	53	G1/8"	61	80	11.5	8	62	62	M10	CH 13	M10	Ø14	20	16	88
80	Ø20	Ø19	8.5	56.4	G1/4"	66.2	100	13.8	9.8	82	82	M10	CH 17	M10	Ø14	22.5	20	110
100	Ø25	Ø19	11	67	G1/4"	77	124	17	10	103	103	M12	CH 22	M12	Ø17	24	24	134

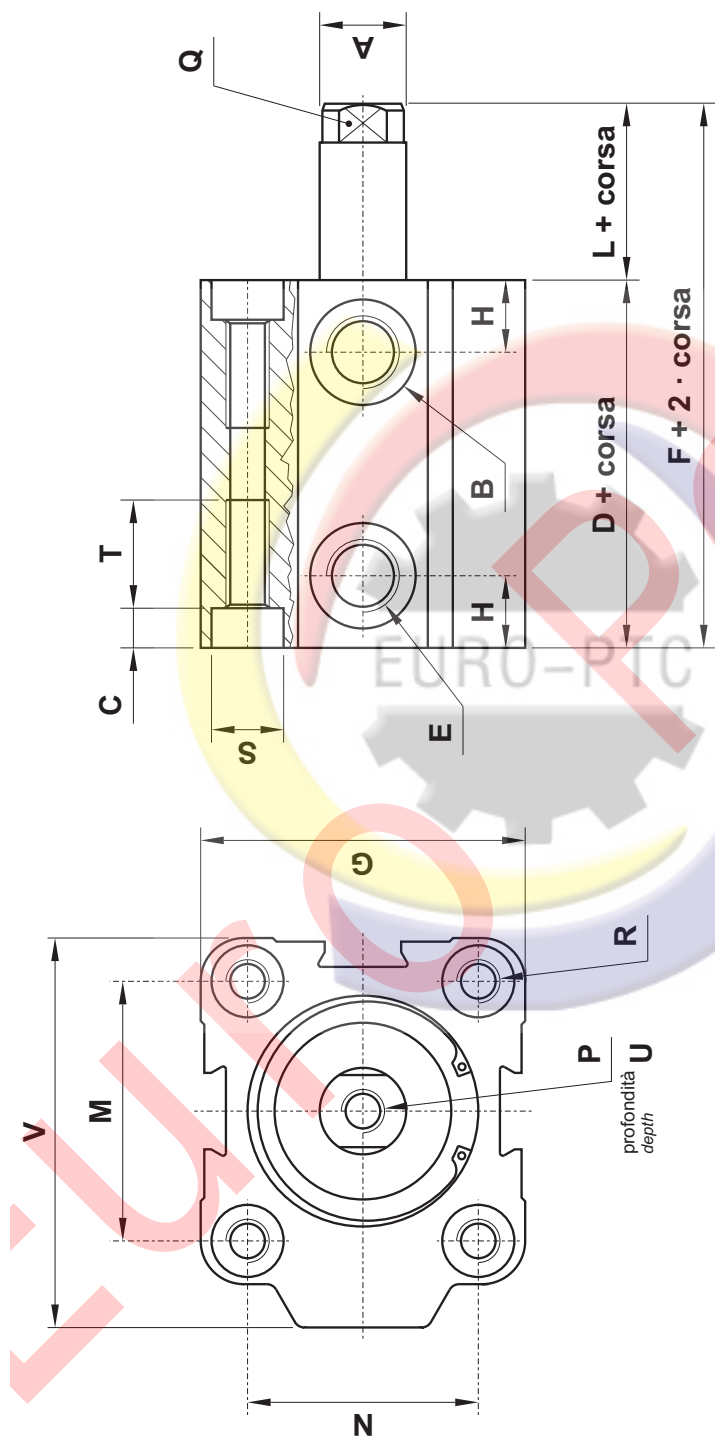
cilindri corsa breve

short stroke cylinders



VERSIONE SEMPLICE EFFETTO MOLLA POSTERIORE

Single acting version, back spring



Ø	A	B	C	D	E	F	G	H	L	M	N	O	P	R	S	T	U	V
16	Ø8	-	3.5	51	M5	56.5	28	8	5.5	20	20	CH 7	M5	M4	Ø6	10	10	31
20	Ø10	-	4.5	51	M5	56.5	32	8.5	5.5	22	22	CH 8	M5	M5	Ø7	12	10	35
25	Ø10	Ø14	4.5	53	G1/8"	58.5	38	9	5.5	28	26	CH 8	M5	M5	Ø7	12	10	44.5
32	Ø12	Ø14	5.5	46.2	G1/8"	53.2	45	9	7	36	32	CH 10	M8	M6	Ø9	17	13.5	54
40	Ø12	Ø14	5.5	46.2	G1/8"	53.2	54.5	10	7	40	40	CH 10	M8	M6	Ø9	17	13.5	60
50	Ø16	Ø14	6.5	50	G1/8"	58	65	11.5	8	50	50	CH 13	M10	M8	Ø11	20	16	72.5
63	Ø16	Ø14	8.5	53	G1/8"	61	80	11.5	8	62	62	CH 13	M10	M10	Ø14	20	16	88
80	Ø20	Ø19	8.5	56.4	G1/4"	66.2	100	13.8	9.8	82	82	CH 17	M10	M10	Ø14	22.5	20	110
100	Ø25	Ø19	11	67	G1/4"	77	124	17	10	103	103	CH 22	M12	M12	Ø17	24	24	134

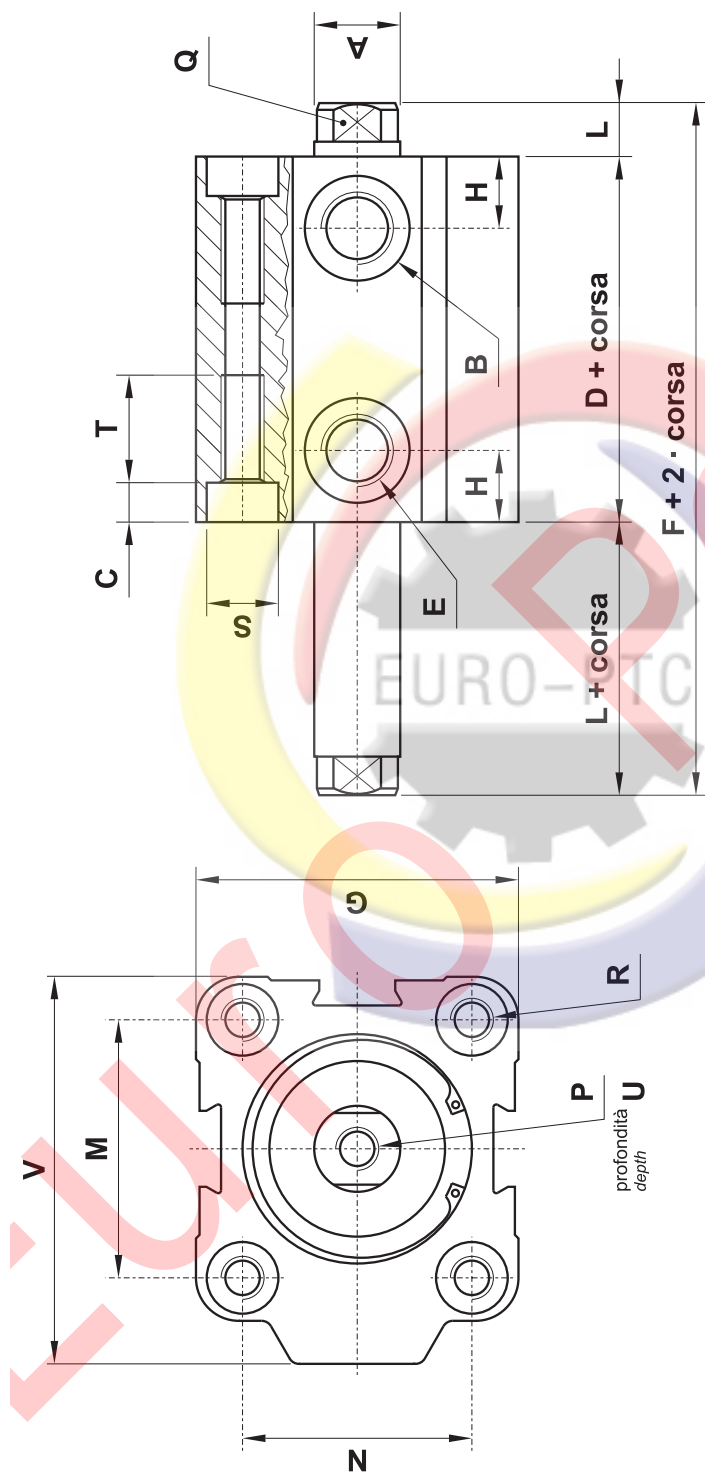
cilindri corsa breve

short stroke cylinders



VERSIONE CON STELO PASSANTE

Version with passing-through rod



Ø	A	B	C	D	E	F	G	H	L	M	N	P	Q	R	S	T	U	V
16	Ø8	-	3.5	36	M5	47	28	8	5.5	20	20	M5	CH 7	M4	Ø6	10	10	31
20	Ø10	-	4.5	36	M5	47	32	8.5	5.5	22	22	M5	CH 8	M5	Ø7	12	10	35
25	Ø10	Ø14	4.5	38	G1/8"	49	38	9	5.5	28	26	M5	CH 8	M5	Ø7	12	10	44.5
32	Ø12	Ø14	5.5	46.2	G1/8"	60.2	45	9	7	36	32	M8	CH 10	M6	Ø9	17	13.5	54
40	Ø12	Ø14	5.5	46.2	G1/8"	60.2	54.5	10	7	40	40	M8	CH 10	M6	Ø9	17	13.5	60
50	Ø16	Ø14	6.5	50	G1/8"	66	65	11.5	8	50	50	M10	CH 13	M8	Ø11	20	16	72.5
63	Ø16	Ø14	8.5	53	G1/8"	69	80	11.5	8	62	62	M10	CH 13	M10	Ø14	20	16	88
80	Ø20	Ø19	8.5	56.4	G1/4"	76	100	13.8	9.8	82	82	M10	CH 17	M10	Ø14	22.5	20	110
100	Ø25	Ø19	11	67	G1/4"	87	124	17	10	103	103	M12	CH 22	M12	Ø17	24	24	134

kit guarnizioni di ricambio

seals kit

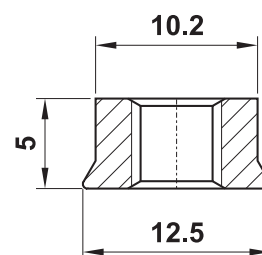
MAGNETICO, guarnizioni standard					
normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
16	GD016	22.100.2	16	GD016P	22.110.2
20	GD020	22.101.2	20	GD020P	22.111.2
25	GD025	22.102.2	25	GD025P	22.112.2
32	GD032	22.103.2	32	GD032P	22.113.2
40	GD040	22.104.2	40	GD040P	22.114.2
50	GD050	22.105.2	50	GD050P	22.115.2
63	GD063	22.106.2	63	GD063P	22.116.2
80	GD080	22.107.2	80	GD080P	22.117.2
100	GD100	22.108.2	100	GD100P	22.118.2
MAGNETICO, guarnizioni VITON					
normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
16	GD016V	22.120.2	16	GD016PV	22.130.2
20	GD020V	22.121.2	20	GD020PV	22.131.2
25	GD025V	22.122.2	25	GD025PV	22.132.2
32	GD032V	22.123.2	32	GD032PV	22.133.2
40	GD040V	22.124.2	40	GD040PV	22.134.2
50	GD050V	22.125.2	50	GD050PV	22.135.2
63	GD063V	22.126.2	63	GD063PV	22.136.2
80	GD080V	22.127.2	80	GD080PV	22.137.2
100	GD100V	22.128.2	100	GD100PV	22.138.2

dado per fissaggio in cava

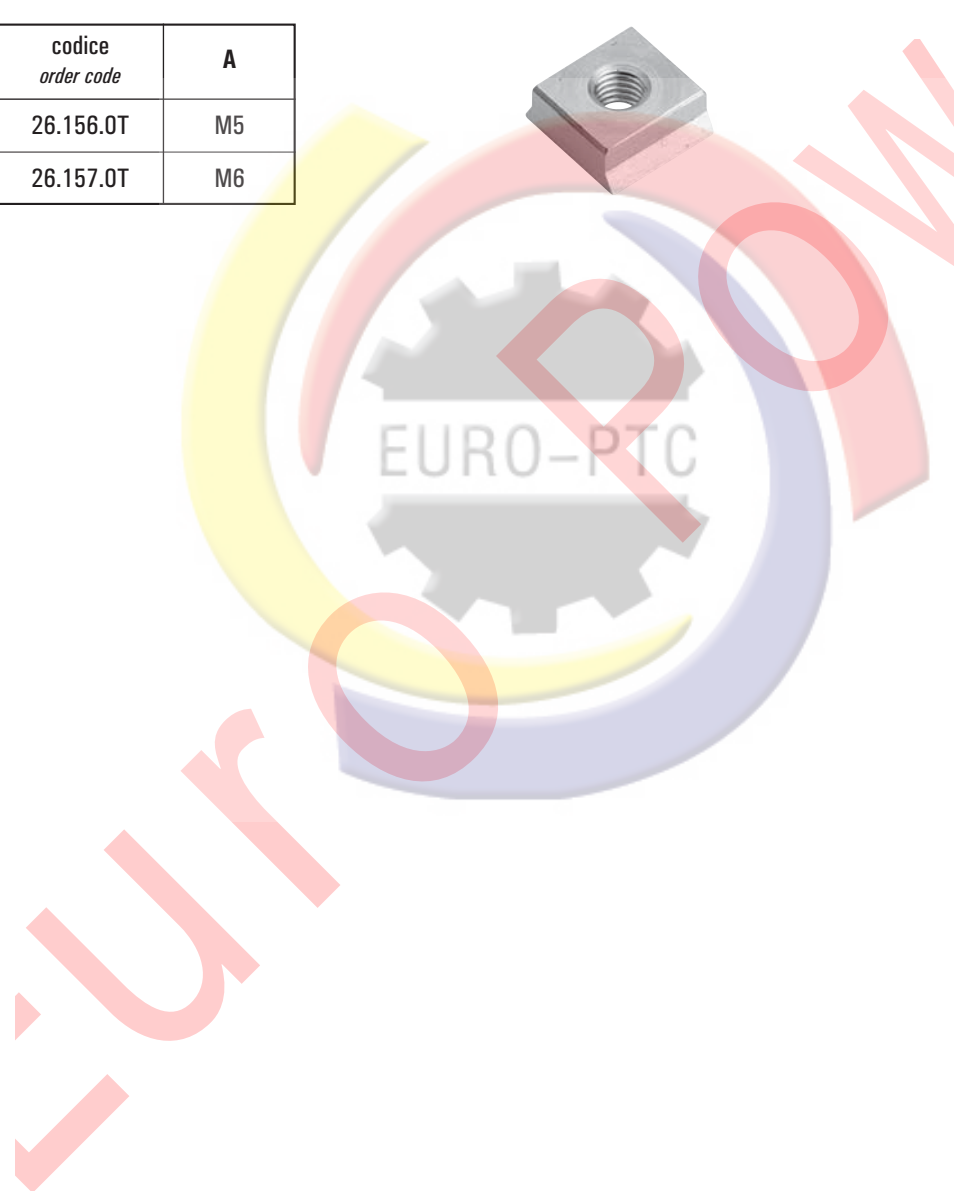
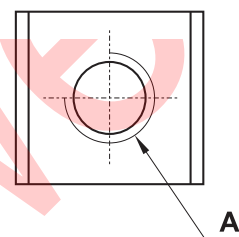
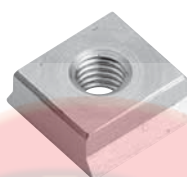
fixing nut

Permette di fissare un cilindro a parete o di fissare sul cilindro le interfacce per valvole, di cui alle pagine 163 e 199. È utilizzabile anche per i cilindri ISO 6431 VDMA fino al $\varnothing 125$ e per i cilindri compatti.

It can be used to fix a cylinder on the side or to mount on the cylinder an interface for valves (refer to page 163 and 199). It can be used also for ISO 6431 VDMA cylinders (up to bore 125) and for compact cylinders.



sigla part number	codice order code	A
DCCB 16/32	26.156.0T	M5
DCCB 32/100	26.157.0T	M6



cilindri corsa breve

short stroke cylinders



versione antirotazione

version anti-rotation

D 1 1 L 2 0 3 2 0 0 4 0

famiglia
product family

stelo
piston-rod

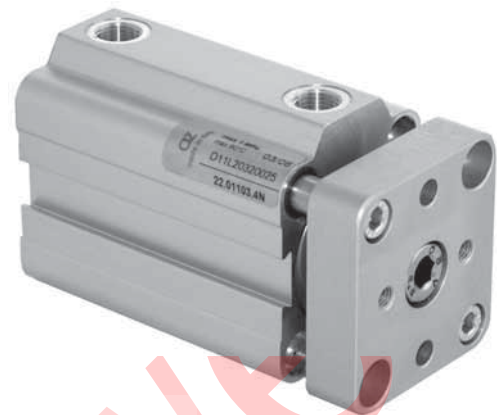
guarnizioni
seals

esecuzione
execution

corsa
stroke

alesaggio
bore

funzione
function



Famiglia [product family]

D cilindri corsa breve [short stroke cylinders]

Stelo [piston-rod]

1 C45 cromato [C45 chromium plated]

Guarnizioni [seals]

- 1** poliuretano
- 2** tutte le guarnizioni in VITON
[all seals in VITON]
- 3** guarnizioni dello stelo in VITON [rod seals in VITON]

Materiali

Camicia: alluminio

Stelo: C45 cromato

Testate: alluminio con boccola guida stelo

Pistone: ottone fino all'alesaggio 25; tecnopolimero dall'alesaggio 32 al 100 (alluminio su richiesta).

Guarnizioni: poliuretano o VITON

Guarnizione stelo: poliuretano o VITON

Magnete: neodimio fino all'alesaggio 25
plastroferrite dall'alesaggio 32 al 100

Il magnete non è adatto per temperature oltre +60°C

Esecuzione [execution]

L magnetico antirotazione [magnetic anti-rotation]

Funzione [function]

2 doppio effetto non ammortizzato
[double acting without pneumatic cushioning]

Materials

Barrel: aluminium

Piston-rod: C45 (chromium plated)

End-cups: aluminium with rod guide

Piston: brass from bore 16 to 25; technopolymer from bore 32 to 100 (aluminium on request).

Sealings: polyurethane or VITON

Piston-rod sealing: polyurethane or VITON

Magnet: neodymium from bore 16 to 25
magnetic iron compound from bore 32 to 100

The magnet is not suitable for temperatures over +60°C

Pressione di esercizio Working pressure	max 10 bar max 1 MPa
Temperatura di esercizio Temperature range	standard (poliuretano/NBR): max +60°C VITON: max +110°C
Alesaggi Bores	16; 20; 25; 32; 40; 50; 63; 80; 100 mm
Corse Strokes	5 ... 100 mm
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

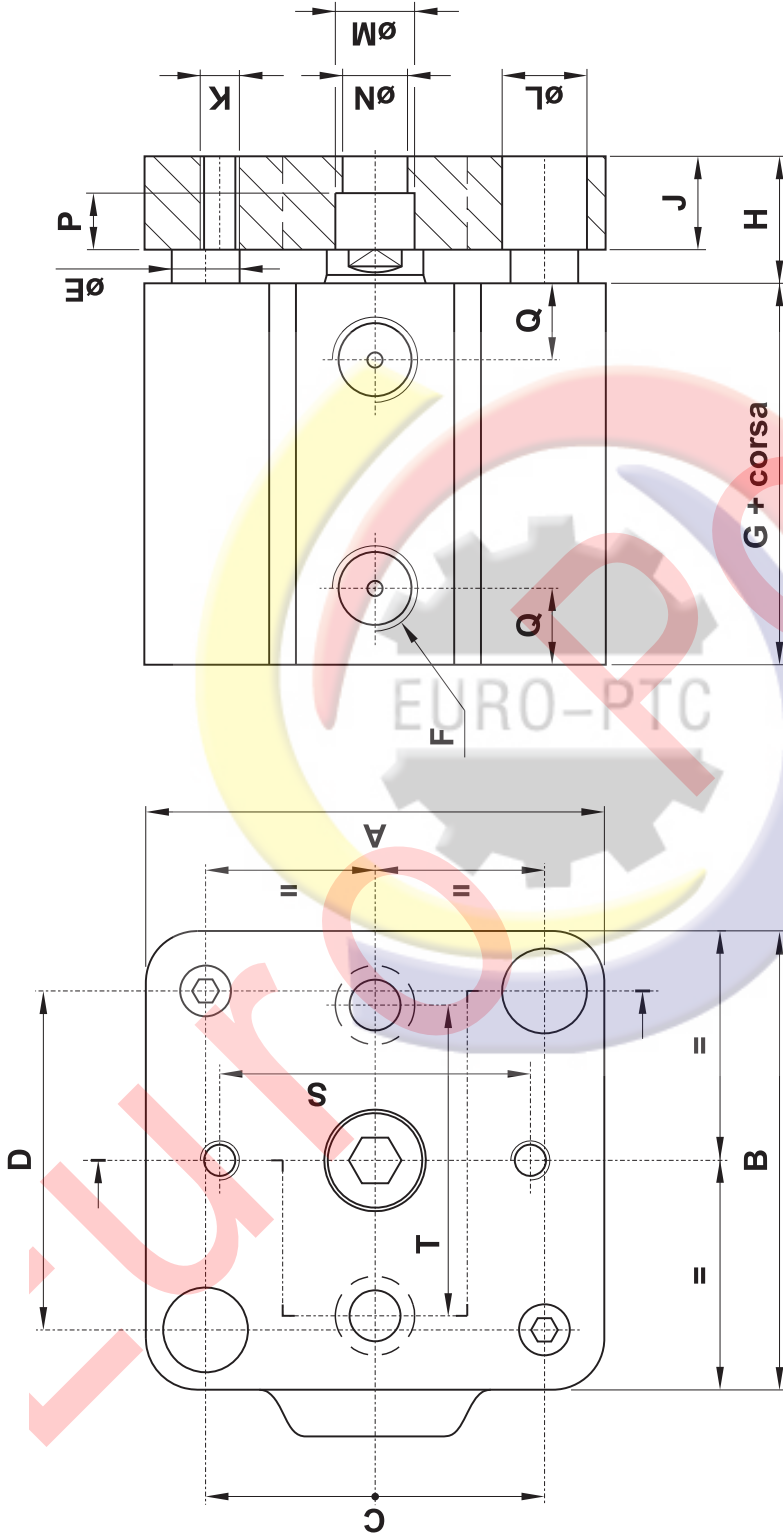
cilindri corsa breve

short stroke cylinders



VERSIONE ANTIROTAZIONE - alesaggio 16, 20, 25, 32, 40, 50, 63, 80, 100

Version anti-rotation - bore 16, 20, 25, 32, 40, 50, 63, 80, 100



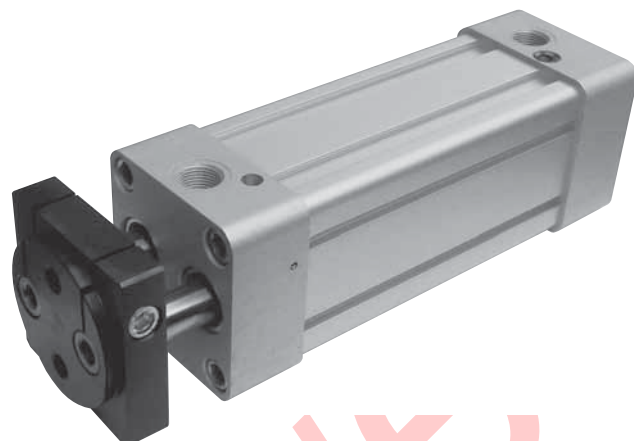
Ø	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	S	T
16	28	28	20	20	4	M5	36	13.5	11	M3	6.5	6.5	3.5	3.5	8	15	20
20	32	32	22	22	6	M5	36	13.5	11	M4	8	8	4.8	5	8.5	18	22
25	38	38	26	28	6	G1/8"	38	13.5	11	M4	8	8	4.8	5	9	22	22
32	45	48	32	36	8	G1/8"	46.2	17	13	M5	10	10	5.5	6	9	26	36
40	54	54	40	40	8	G1/8"	46.2	17	13	M5	10	10	5.5	6	10	34	34
50	64.6	64.6	50	50	10	G1/8"	50	20	15	M6	11	11	6.5	6.5	11.5	43	43
63	79.6	79.6	62	62	10	G1/8"	53	20.5	15.5	M6	15	14	9	8.5	11.5	55	55
80	99	99	82	82	12	G1/4"	56.4	23.8	16.5	M8	15	14	9	9	13.8	70	70
100	119.6	119.6	103	103	12	G1/4"	67	26	20	M8	.	14	9	9	17	94	94

cilindri ad asta gemellata

twin rod cylinders



- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Ammortizzo pneumatico standard su tutta la gamma
Pneumatic cushioning standard on the whole range
- Esecuzioni e corse speciali a richiesta
Special versions and strokes on request



Materiali

Camicia: alluminio

Steli: C45 cromato

Testate: alluminio

Pistone: alluminio

Guarnizioni: NBR

Flangia: acciaio brunito

Boccole guida stelo: bronzo sinterizzato

Guida pistone: PTFE a basso attrito

Materials

Barrel: aluminium

Piston-rods: C45 (chromium plated)

End-cups: aluminium

Piston: aluminium

Sealings: NBR

Flange: burnished steel

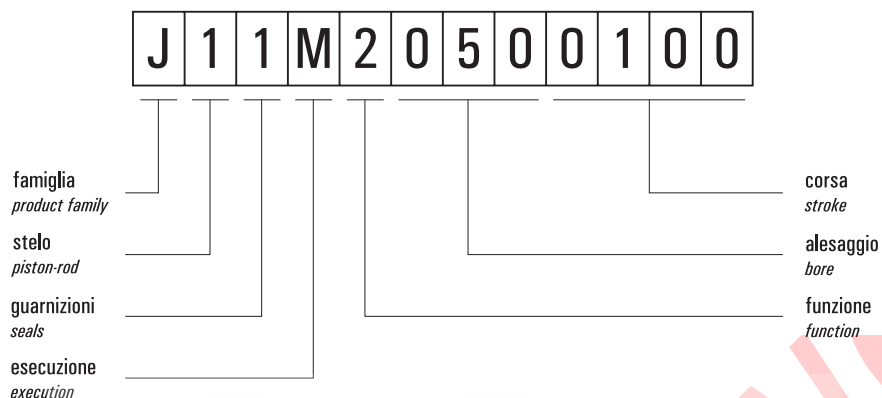
Rod guides: sintered bronze

Piston guide: low friction PTFE

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	32; 40; 50; 63; 80; 100 mm
Corse <i>Strokes</i>	25; 50; 80; 100; 125; 150; 160; 200; 250; 300; 320; 400; 500 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

chiave di codifica

key to codes



Famiglia *[product family]*

J cilindri ad asta gemellata
[twin rod cylinders]

Steli *[piston-rods]*

1 C45 cromato *[C45 chromium plated]*

Guarnizioni *[seals]*

1 NBR

Esecuzione *[execution]*

M magnetico *[magnetic]*

Funzione *[function]*

2 doppio effetto ammortizzato
[double acting with pneumatic cushioning]

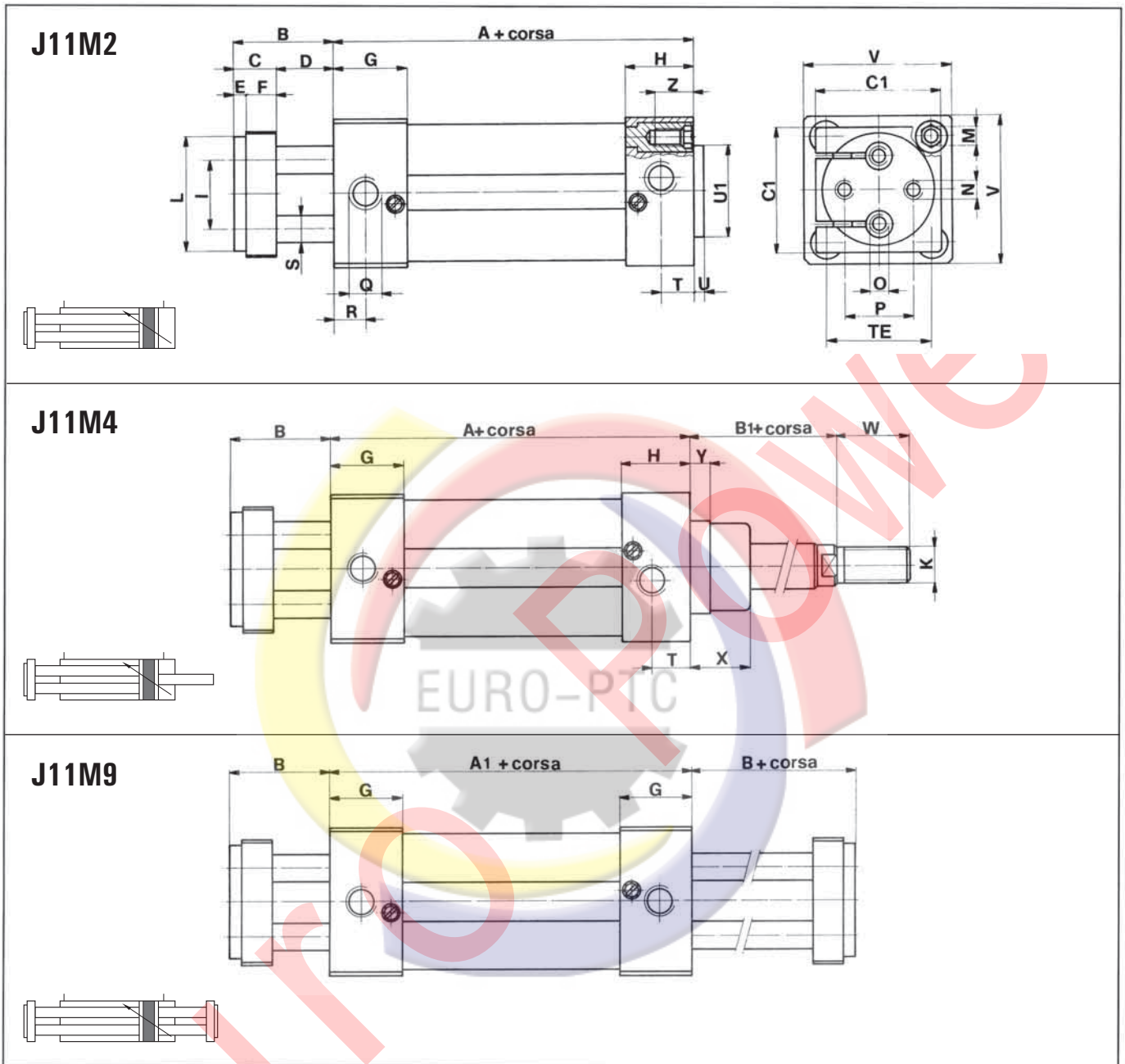
4 doppio effetto ammortizzato stelo passante ISO
[double acting with pneumatic cushioning, with ISO passing-through rod]

9 doppio effetto ammortizzato asta gemellata passante
[double acting with pneumatic cushioning, with twin passing-through rod]

EURO-PTC

cilindri ad asta gemellata

twin rod cylinders



Ø	A	A1	B	B1	C	C1	D	E	F	G	H	I	L	M	N	O	P	Q
32	100	111	40	26	15	45	25	4	11	30	24,5	18	32	M6	M6	-	19	G1/8
40	101	104	40	30	15	50	25	4	11	26,5	27,5	22	40	M6	M8	-	22	G1/4
50	108,5	113	43	37	18	55	25	5	13	32	31	30	50	M8	M8	M8	30	G1/4
63	119	125	47	37	22	70	25	5	17	34	35,5	38	63	M8	M10	M10	38	G3/8
80	134	135	50	46	25	90	25	5	20	38	40	48	80	M10	M12	M12	50	G3/8
100	144	142	50	51	25	110	25	5	20	36	43	60	100	M10	M12	M12	70	G1/2
Ø	R	S	T	TE	U	U1	V	Z	W	Y	X	K						
32	13	10	14	32,5	4	30	45	18	22	6	20	M10X1,25						
40	11,5	10	17	38	4	35	52	18	24	6	22	M12X1,25						
50	14	12	18	46,5	4	40	65	23	32	8	26	M16X1,5						
63	14	16	17,5	56,5	4	45	75	23	32	8	26	M16X1,5						
80	15	22	20,5	72	4	45	95	30	40	10	40	M20X1,5						
100	15	22	18	89	4	55	115	30	40	10	40	M20X1,5						

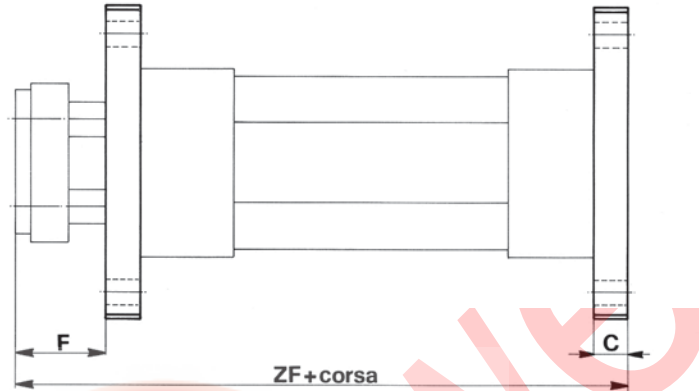
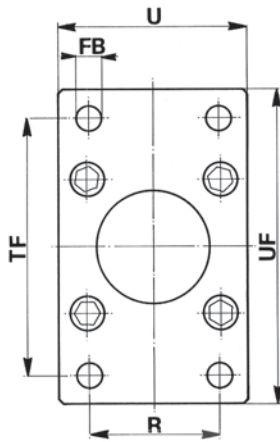
cilindri ad asta gemellata

twin rod cylinders



FLANGIA

FLIS...



DIM.	C	F	R	U	FB	TF	UF	ZF
32	10	30	32	45	7	64	80	150
40	10	30	36	52	9	72	90	151
50	12	31	45	65	9	90	110	163,5
63	12	35	50	75	9	100	120	178
80	16	34	63	95	12	126	150	200
100	16	34	75	115	14	150	170	210

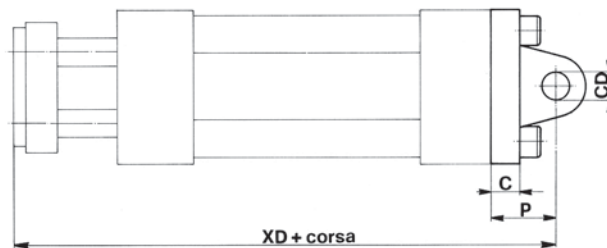
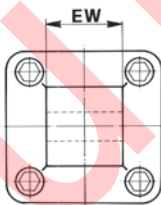
La flangia ISO standard si può montare sulla testata posteriore di tutti gli alesaggi. Sulla testata anteriore si può montare solo sugli alesaggi 32 e 40. Per gli altri alesaggi contattare l'ufficio commerciale.

The standard ISO flange can be mounted on the back end-cup for all bores. On the front end-cup it can be mounted only for bore 32 and 40. For other bores please contact our commercial office.

CERNIERA MASCHIO

CMIS...

CMKS...



DIM.	C	CD	P	EW	XD
32	9	10	22	26	162
40	9	12	25	28	166
50	11	12	27	32	178,5
63	11	16	32	40	198
80	14	16	36	50	220
100	14	20	41	60	235

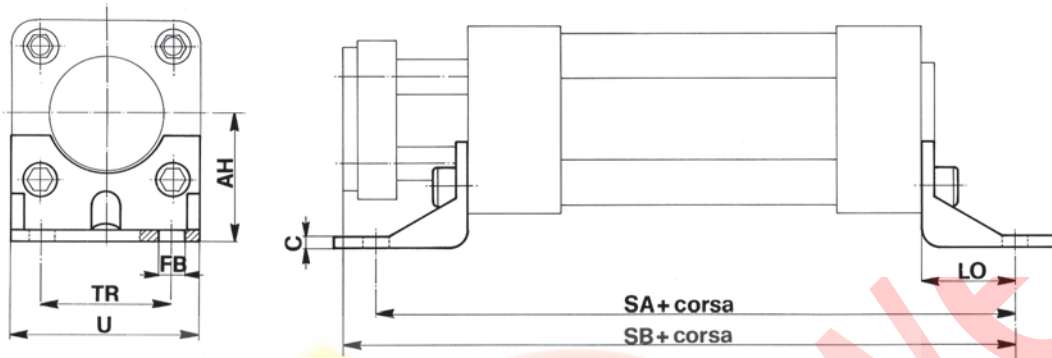
cilindri ad asta gemellata

twin rod cylinders



PIEDINO

PBIS...

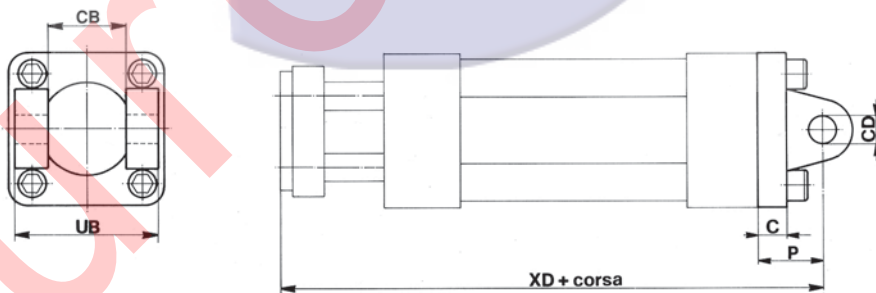


ø	DIM.	C	AH	FB	LO	SA	SB	TR	U
32		4	32	7	24	148	164	32	45
40		4	36	9	28	157	169	36	52
50		5	45	9	32	172,5	183,5	45	65
63		5	50	9	32	183	198	50	75
80		6	63	12	41	216	225	63	95
100		6	71	14	41	226	235	75	115

CERNIERA FEMMINA CON PERNO

CFIS...

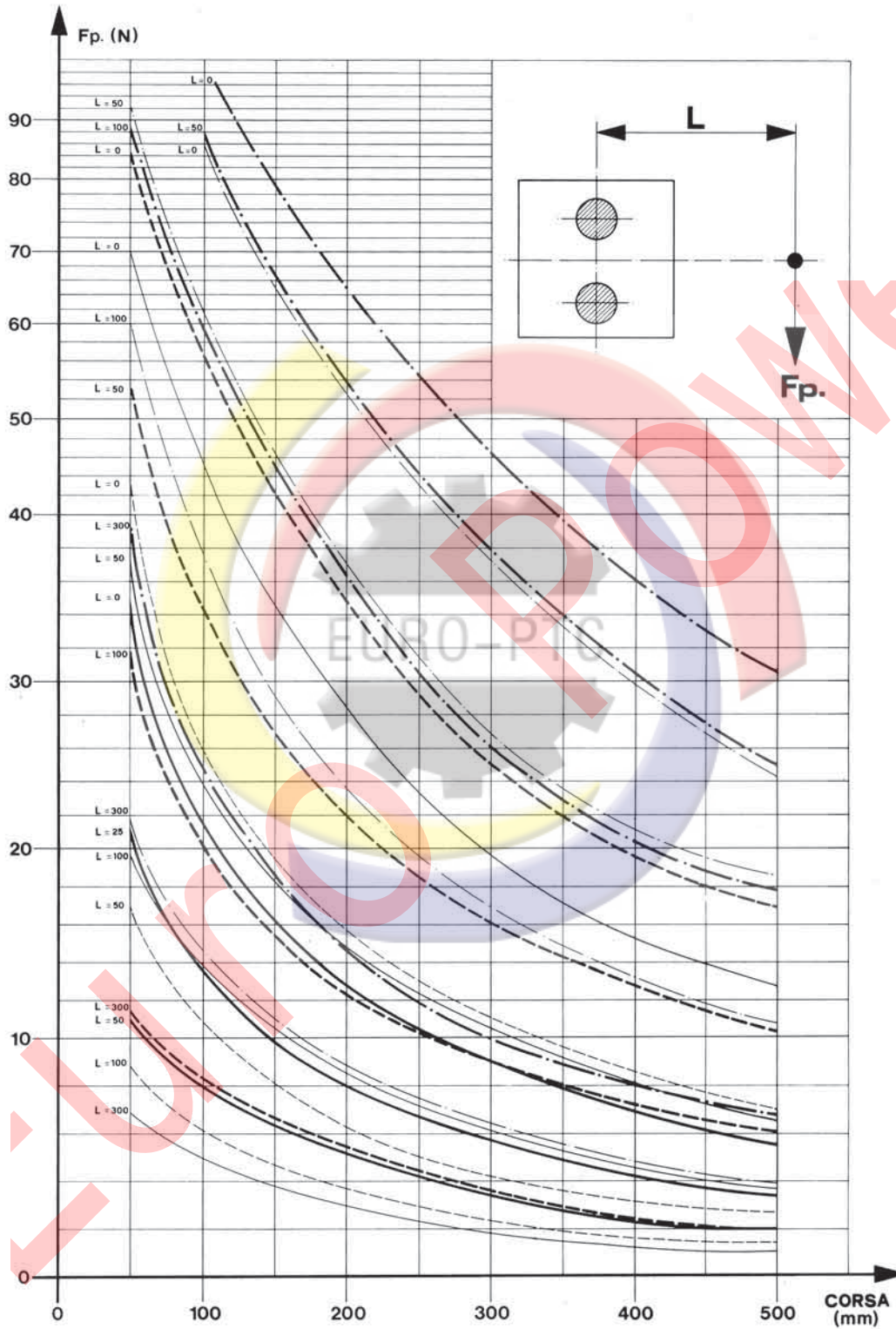
CFKS...



ø	DIM.	C	CD	P	CB	UB	XD
32		9	10	22	26	45	162
40		9	12	25	28	52	166
50		11	12	27	32	60	178,5
63		11	16	32	40	70	198
80		14	16	36	50	90	220
100		14	20	41	60	110	235

momenti flettenti

bending moments



cilindri ad asta gemellata

twin rod cylinders

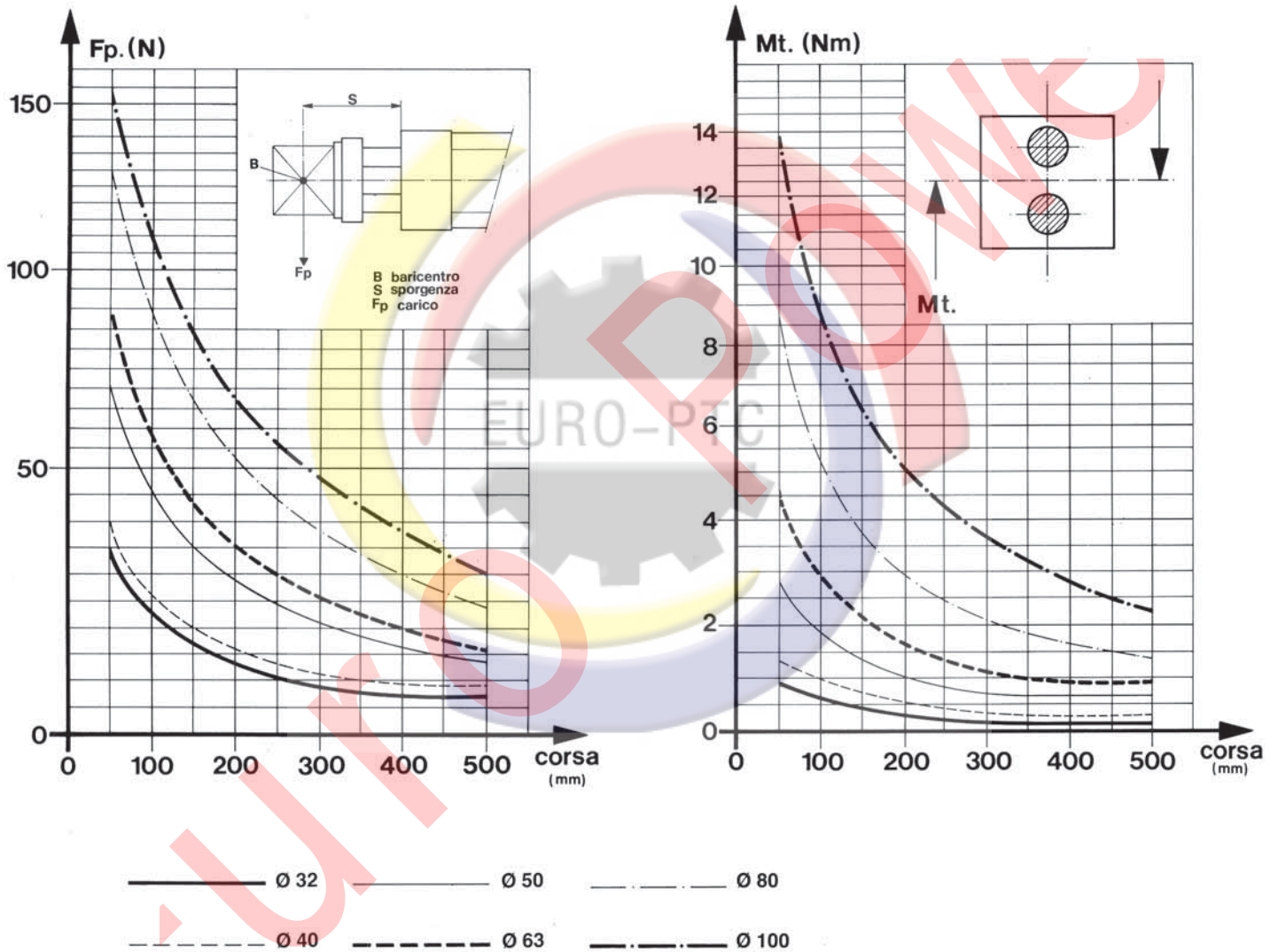


carichi a flessione

flexion loads

momenti torcenti

twisting moments



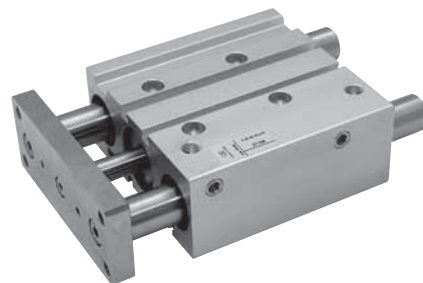
6

cilindri compatti guidati

guided compact cylinders



- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Sensori magnetici standard (pag. 532-535)
Standard magnetic sensors (pages 532-535)
- Alimentazione laterale o dorsale
Air ports on the top or on the side



CG	B	B	1	6	-	0	1	0
----	---	---	---	---	---	---	---	---

famiglia
product family

tipo
type

corsa
stroke

alesaggio
bore

Famiglia [product family]

CG cilindri compatti guidati [*guided compact cylinders*]

Tipo [type]

B con bronzine [*with sintered bronze rod guide*]

BB con cuscinetti a rotolamento [*with linear ball bearings*]

Materiali

Corpo: alluminio anodizzato

Stelo: C40 cromato

Piastra: acciaio nichelato

Guarnizioni: NBR e poliuretano

Guarnizione stelo: poliuretano

Materials

Body: aluminium (anodize treatment)

Piston-rod: C40 (chromium plated)

Carrier plate: nickel plated steel

Sealings: NBR and polyurethane

Piston-rod sealing: polyurethane

corse disponibili *available strokes*

alesaggio corsa stroke	bore	16	20	25	32	40	50	63
10		X						
20		X	X	X				
25					X	X	X	X
30		X	X	X				
40		X	X	X				
50		X	X	X	X	X	X	X
75		X	X	X	X	X	X	X
100		X	X	X	X	X	X	X
125			X	X	X	X	X	X
150			X	X	X	X	X	X
175			X	X	X	X	X	X
200			X	X	X	X	X	X

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	16; 20; 25; 32; 40; 50; 63 mm
Corse <i>Strokes</i>	Vedi tabella in questa pagina <i>See table in this page</i>
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

cilindri compatti guidati

guided compact cylinders



Ø	B	C	DA	F	GA	GB	GC	H	J	K	L	MM	ML	NN	P	PW	Q	R	S	T	U	V	X	YY	YL	YE	YH	YI	Z	XF	XA	XP	XB	XC	a	b	c	d
16	4.6	3.3	8	8	11	8	18	6.4	5	30	22	M5	12	M5	M5	19	16	5.4	2.5	6.2	4.6	5.6	2.4	M5	10	8	4.5	4.3	5	2.4	3	6	3.5	3	7.4	3.7	4.4	6.2
20	5.3	3.7	10	10	10.5	8.5	24.5	8.3	6.5	36	24	M5	13	M5	G1/8	25	18	70	30	8.1	5.4	7.2	28	M6	12	9.5	5.5	5.6	17	28	3	6	3.5	3	8.4	4.5	5.5	7.3
25	5.3	3.7	10	10	11.5	9	25	9.3	7.5	4.2	30	M6	15	M6	G1/8	28.5	26	78	38	9.1	6.4	8.2	34	M6	12	9.5	5.5	5.6	17	34	4	6	4.5	3	8.4	4.5	5.5	7.5
32	5.9	3.7	12	12	12.5	9	30.5	11.2	9	4.8	34	M8	20	M8	G1/8	34	30	96	4.4	110	7.8	98	4.2	M8	16	11	7.5	6.6	21	4.2	4	6	4.5	3	10.5	5.5	6.5	9
40	6.6	4.4	12	12	14	10	31	120	9	5.4	40	M8	20	M8	G1/8	38	30	10.4	4.4	118	8.6	106	50	M8	16	11	7.5	6.6	22	50	4	6	4.5	3	10.5	5.5	6.5	9
50	7.2	4.4	16	16	14	11	35	14.8	9.5	6.4	4.6	M10	22	M10	G1/4	4.7	40	130	60	14.6	110	130	66	M10	20	14	9	8.6	22	66	5	8	6	4	13.5	7.5	8.5	12
63	7.7	4.9	16	16	16.5	13.5	35	16.2	11	7.8	5.8	M10	22	M10	G1/4	5.5	50	130	70	15.8	12.4	14.2	80	M10	20	14	9	8.6	24	80	5	8	6	4	17.8	10	11	16.5

con bronzine with sintered bronze rod guide			
Ø	quota A (CORSE-STROKES)	quota E (CORSE-STROKES)	DB
16	4.6 (10-50)	0 (10-50)	18.5 (75-100)
20	5.3 (20-50)	0 (20-50)	31.5 (75-200)
25	5.3 (20-50)	0 (20-50)	31.5 (75-200)
32	9.7 (25-50)	37.5 (25-50)	47.5 (75-200)
40	9.7 (25-50)	31 (25-50)	41 (75-200)
50	10.6 (25-50)	118 (75-200)	4.6 (75-200)
63	10.6 (25-50)	118 (75-200)	4.1 (75-200)

con cuscinetti a rotolamento with linear ball bearings			
Ø	quota A (CORSE-STROKES)	quota E (CORSE-STROKES)	DB
16	4.6 (10-30)	0 (10-30)	20 (40-100)
20	5.3 (20-30)	0 (20-30)	32.5 (40-200)
25	5.3 (20-30)	0 (20-30)	32.5 (40-200)
32	9.7 (25-50)	37.5 (25-50)	47.5 (75-200)
40	9.7 (25-50)	31 (25-50)	41 (75-200)
50	10.6 (25-50)	118 (75-200)	4.6 (75-200)
63	10.6 (25-50)	118 (75-200)	4.1 (75-200)

quote W e W1 dimensions W and W1			
Ø	quota W (CORSE-STROKES)	quota W1 (CORSE-STROKES)	
16	2.4 (10-30)	4.4 (40-100)	17 (10-30)
20	2.4 (20-30)	4.4 (40-100)	29 (20-30)
25	2.4 (20-30)	4.4 (40-100)	29 (20-30)
32	2.4 (25)	4.8 (50-100)	33 (25)
40	2.4 (25)	4.8 (50-100)	34 (25)
50	2.4 (25)	4.8 (50-100)	36 (25)
63	2.8 (25)	5.2 (50-100)	38 (25)

peso in grammi [weight in grams]

Ø	10	20	25	30	40	50	75	100	125	150	175	200
16	352	402		452	502	552	752	902				
20		689		830	910	990	1310	1510	1625	1740	1855	1970
25		870		990	1080	1260	1680	2100	2500	2900	3300	3700
32			1770			2120	2770	3080	3408	3737	4066	4395
40			1990			2390	2940	3050	3460	3880	4300	4720
50			3355			3955	4755	5355	5955	6555	7155	7755
63			4030			5070	5786	6505	7224	7943	8662	9380

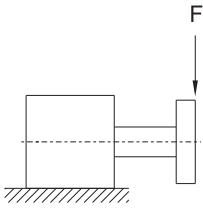
cilindri compatti guidati

guided compact cylinders

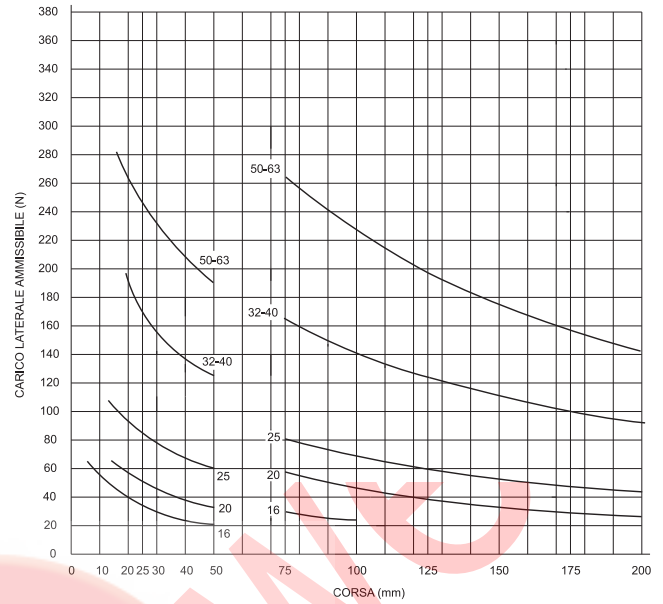


carichi laterali ammissibili con bronzine autolubrificanti

permissible lateral loads with self-lubricating sintered bronze guide



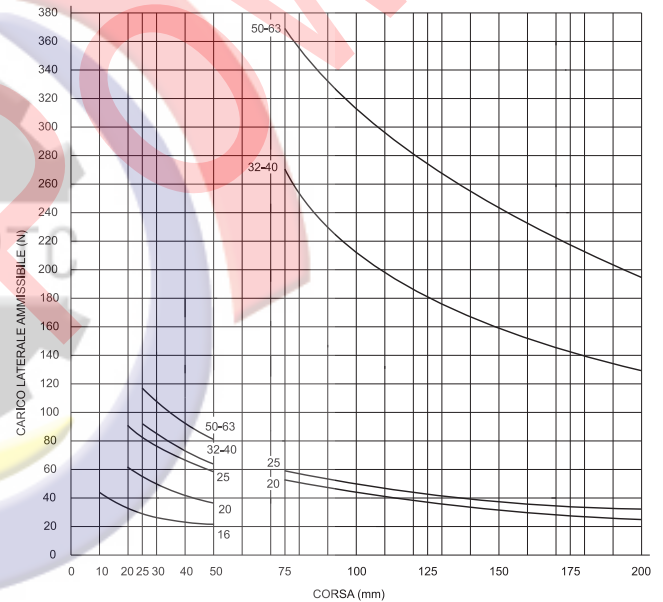
Ø mm	CARICO (N)												
16	56	40		30	25	21	30	24					
20		57		46	38	33	55	45	38	33.5	30	27	
25		93		78	68	60	81	67	60	54	48	43	
32			170			125	166	142	124	110	99	90	
40			170			125	166	142	124	110	99	90	
50			250			190	265	227	197	177	156	141	
63			250			190	265	227	197	177	156	141	
CORSE →	10	20	25	30	40	50	75	100	125	150	175	200	



carichi laterali ammissibili con cuscinetti a rotolamento

permissible lateral loads with linear ball bearings

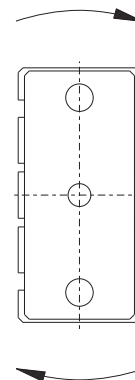
Ø mm	CARICO (N)												
16	44	34		27	23	21							
20		62		50	42	36	53	42	36	31	27	25	
25		94		79	68	60	59	50	43	39	35	33	
32			84			58	270	213	180	159	142	130	
40			92			64	270	213	180	159	142	130	
50			117			81	370	312	275	243	216	193	
63			117			81	370	312	275	243	216	193	
CORSE →	10	20	25	30	40	50	75	100	125	150	175	200	



momento torcente ammissibile con bronzine autolubrificanti

permissible torque with self-lubricating sintered bronze guide

Ø mm	MOMENTO (Nm)												
16	0,65	0,51		0,42	0,36	0,32							
20		0,99		0,84	0,71	0,64	0,97	0,78	0,63	0,54	0,48	0,43	
25		1,98		1,67	1,45	1,28	1,73	1,43	1,31	1,18	1,05	0,94	
32			4,10			3,19	3,97	3,36	2,46	2,2	2	1,84	
40			4,51			3,51	4,38	3,70	2,46	2,2	2	1,84	
50			6,60			5,19	6,68	5,72	4,68	4,25	3,88	3,5	
63			6,60			5,19	6,68	5,72	4,68	4,25	3,88	3,5	
CORSE →	10	20	25	30	40	50	75	100	125	150	175	200	



momento torcente ammissibile con cuscinetti a rotolamento

permissible torque with linear ball bearings

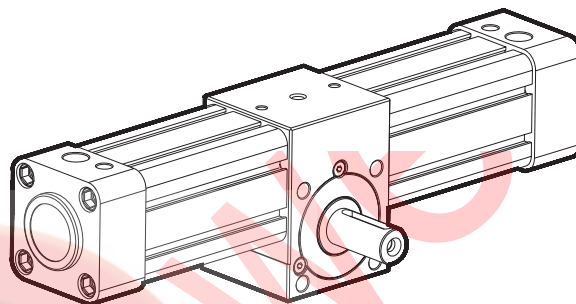
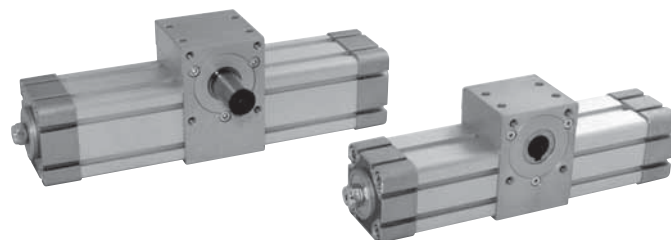
Ø mm	MOMENTO (Nm)												
16	0,83	0,65		0,52	0,44	0,40							
20		1,20		0,96	0,81	0,69	1,02	0,93	0,82	0,71	0,64	0,58	
25		2,00		1,69	1,45	1,28	1,26	1,09	0,98	0,87	0,79	0,70	
32			2,04			1,41	6,58	5,19	4,49	3,87	3,58	3,17	
40			2,47			1,72	7,25	5,72	4,49	3,87	3,58	3,17	
50			3,22			2,22	10,17	8,58	7,75	6,86	5,99	5,30	
63			3,22			2,22	10,17	8,58	7,75	6,86	5,99	5,30	
CORSE →	10	20	25	30	40	50	75	100	125	150	175	200	

cilindri rotanti

rotary cylinders



- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Sensori magnetici standard (pag. 532-535)
Standard magnetic sensors (pages 532-535)
- Ammortizzo pneumatico integrato
Integrated pneumatic cushioning



AR M 1 8 0 - 0 3 2

famiglia
product family

pignone
pinion

alesaggio
bore

angolo di rotazione
rotation angle

Famiglia [product family]

AR cilindri rotanti [rotary cylinders]

Pignone [pinion]

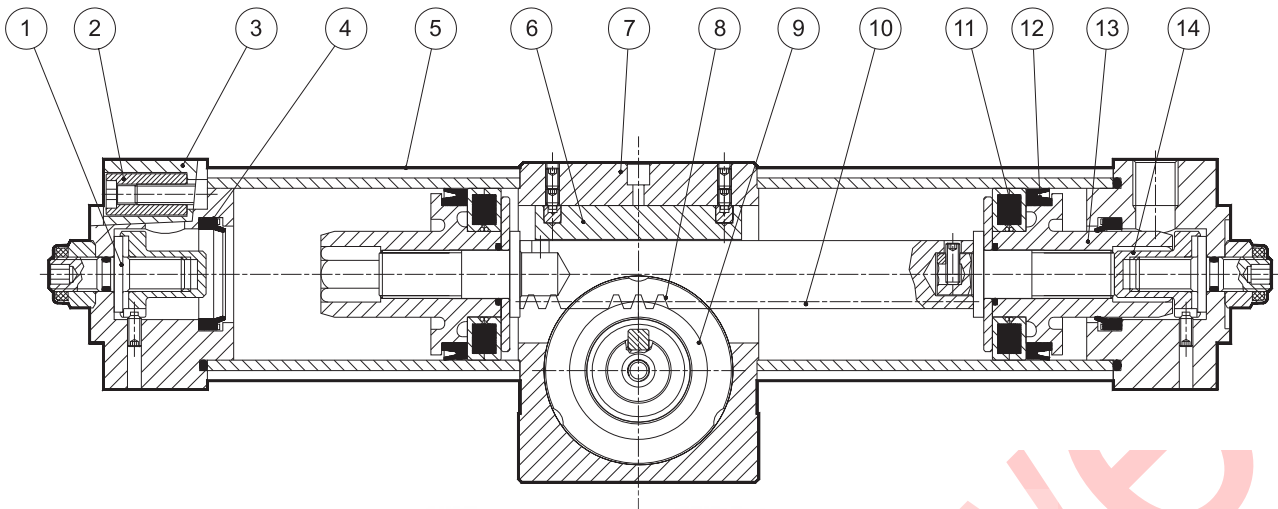
M pignone maschio [male pinion]

F pignone femmina [female pinion]

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	32; 40; 50; 63; 80; 100; 125 mm
Angolo di rotazione <i>Rotation angle</i>	90°; 180°; 270°; 360° regolazione angolo: 10° [angle adjustment: 10°]
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione 50μ filtered, lubricated or non lubricated air

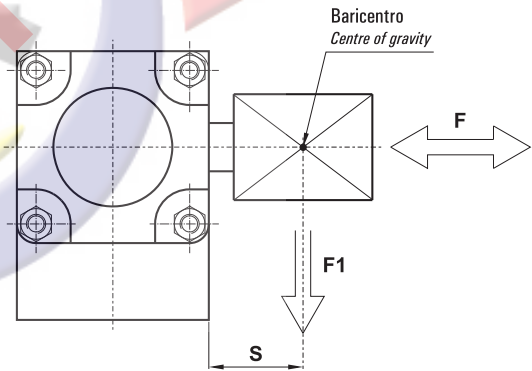
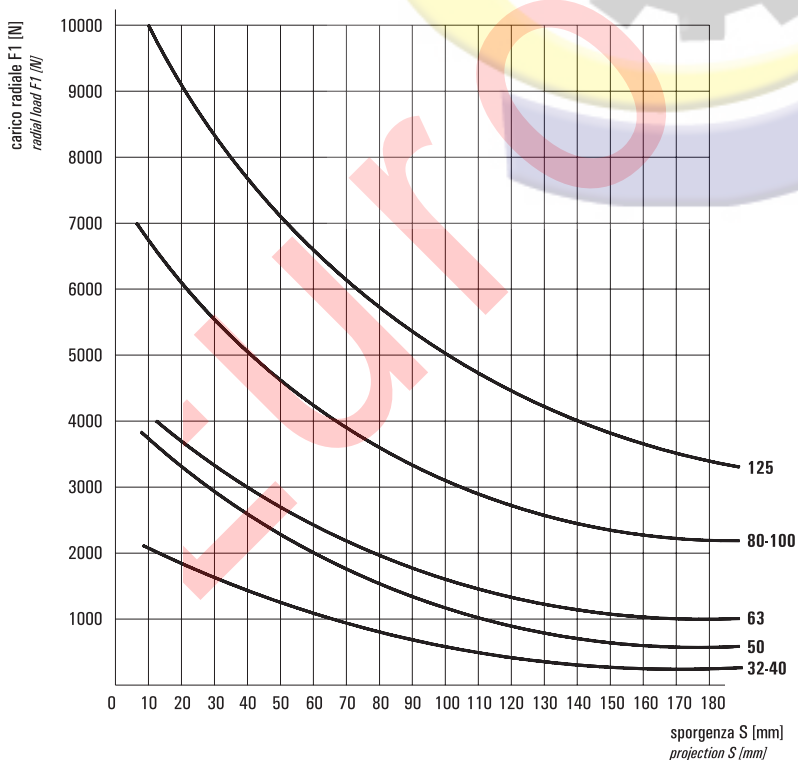
cilindri rotanti

rotary cylinders



- | | |
|---|--|
| 1. Vite di regolazione: acciaio zincato | 8. Pignone: acciaio nitrurato |
| 2. Vite per fissaggio testata: acciaio zincato | 9. Cuscinetto a sfera |
| 3. Testata cilindro: alluminio pressofuso | 10. Cremagliera: acciaio normalizzato |
| 4. Guarnizione ammortizzo: NBR | 11. Anello magnetico: plastoferrite |
| 5. Camicia: estruso in lega alluminio anodizzato | 12. Guarnizione pistone: NBR |
| 6. Piattino di guida cremagliera: resina acetalica Delrin | 13. Pistone: alluminio pressofuso |
| 7. Corpo cilindro rotante: alluminio anodizzato | 14. Vite bloccaggio pistone: acciaio zincato |

Massimo carico radiale F1 con F=0
Maximum radial load F1 with F=0



Massimo carico assiale F con F1=0
Maximum axial load F with F1=0

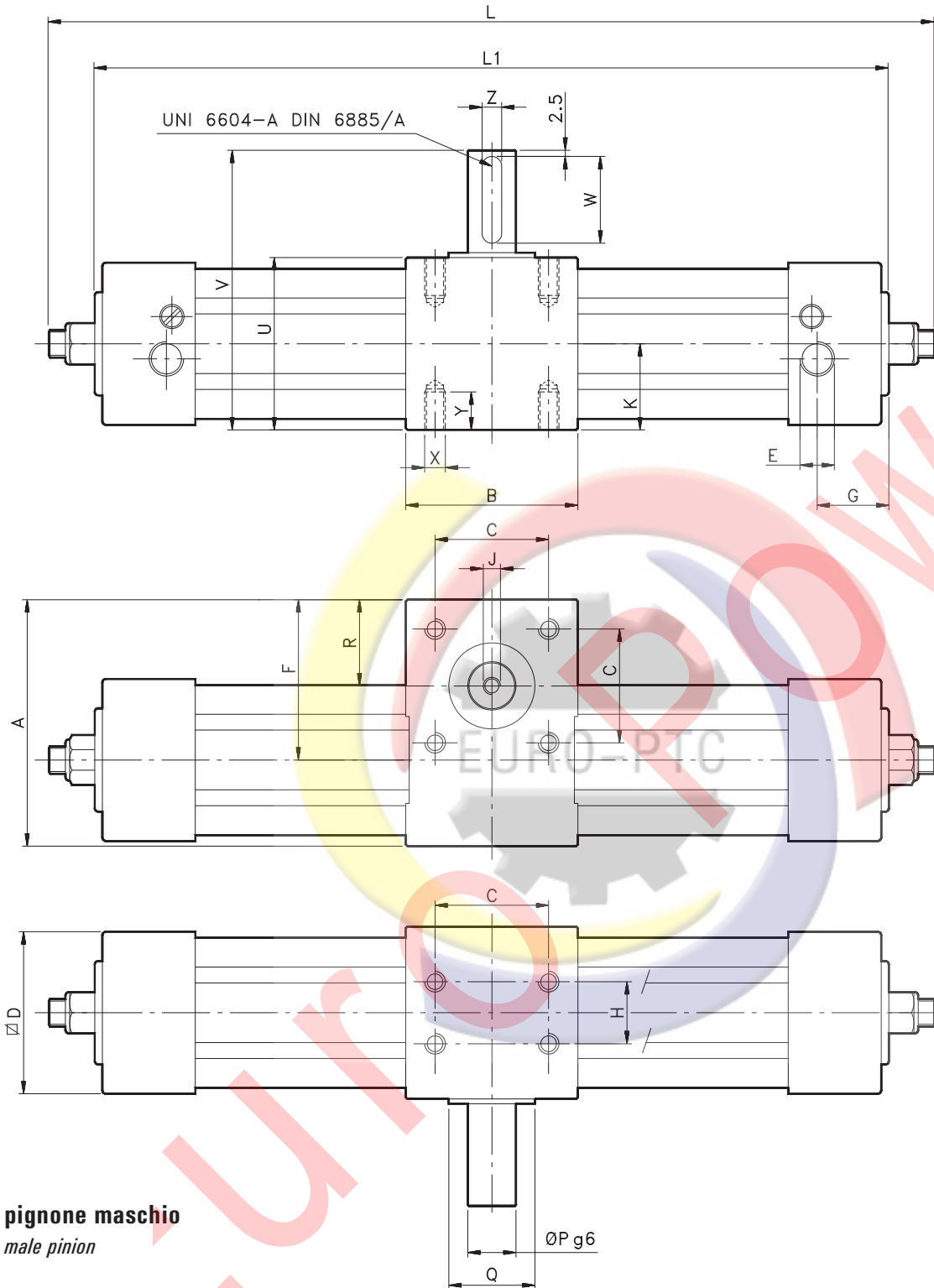
alesaggio bore	F
32	100 N
40	100 N
50	120 N
63	120 N
80	200 N
100	250 N
125	300 N

Momento torcente
Torque

alesaggio bore	M (1 bar)	M (6 bar)
32	1.2 Nm	7.2 Nm
40	2.25 Nm	13.5 Nm
50	3.9 Nm	23.4 Nm
63	7.3 Nm	43.8 Nm
80	15.7 Nm	94.2 Nm
100	26.35 Nm	158.1 Nm
125	51 Nm	306 Nm

cilindri rotanti

rotary cylinders



pignone maschio
male pinion

rotazione 90° 90° rotation		
Ø CIL.	L	L1
32	238	219
40	282	261
50	306	284
63	353	330
80	408	380
100	451	419
125	520	490

rotazione 180° 180° rotation		
Ø CIL.	L	L1
32	285	266
40	339	318
50	369	347
63	428	405
80	507	479
100	558	526
125	652	622

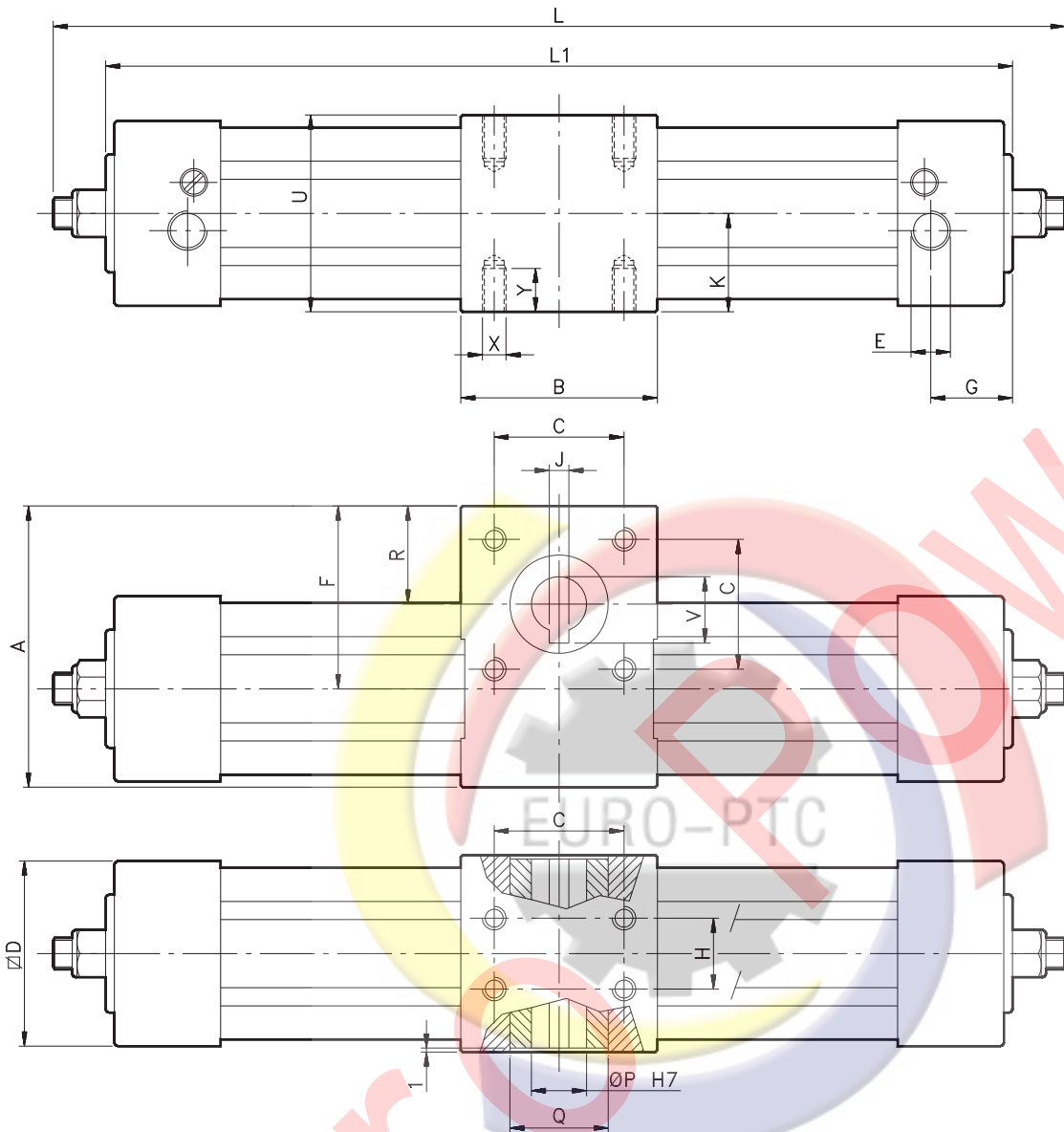
rotazione 270° 270° rotation		
Ø CIL.	L	L1
32	332	313
40	396	375
50	432	410
63	503	480
80	606	578
100	665	633
125	784	754

rotazione 360° 360° rotation		
Ø CIL.	L	L1
32	379	360
40	453	432
50	495	473
63	578	555
80	705	677
100	772	740
125	916	886

Ø CIL.	A	B	C	D	E	F	G	H	J	K	P	Q	R	U	V	W	X	Y	Z
32	71.5	50	33	48	G1/8"	46.5	18	18	M5	25	14	25	25	50	81	25	M6	10	5
40	82	60	40	54	G1/4"	54.5	21	22	M5	30	14	25	30	60	91	25	M6	10	5
50	93	70	50	67	G1/4"	60.5	24	25	M6	32.5	19	30	32.5	65	106	35	M8	13	6
63	109	75	60	78	G3/8"	70.8	26	35	M8	37.5	24	30	37	75	116	35	M8	13	8
80	142	99	80	97	G3/8"	93.5	26	50	M8	49.5	28	45	50	99	150	45	M10	16	8
100	156.5	115	80	115	G1/2"	99	30	60	M10	57.5	38	50	54	115	166	45	M10	16	10
125	188	125	90	140	G1/2"	118	32	70	M10	70	38	60	60	140	191	45	M12	20	10

cilindri rotanti

rotary cylinders



rotazione 90° 90° rotation		
ø CIL.	L	L1
32	238	219
40	282	261
50	306	284
63	353	330
80	408	380
100	451	419
125	520	490
rotazione 180° 180° rotation		
ø CIL.	L	L1
32	285	266
40	339	318
50	369	347
63	428	405
80	507	479
100	558	526
125	652	622
rotazione 270° 270° rotation		
ø CIL.	L	L1
32	332	313
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50	432	410
63	503	480
80	606	578
100	665	633
125	784	754
rotazione 360° 360° rotation		
ø CIL.	L	L1
32	379	360
40	453	432
50	495	473
63	578	555
80	705	677
100	772	740
125	916	886

pignone femmina

female pinion

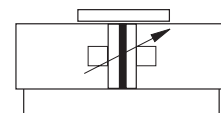
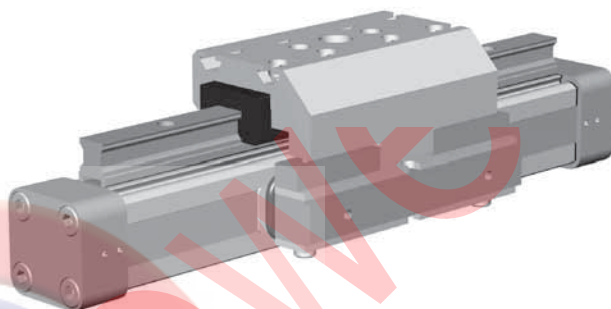
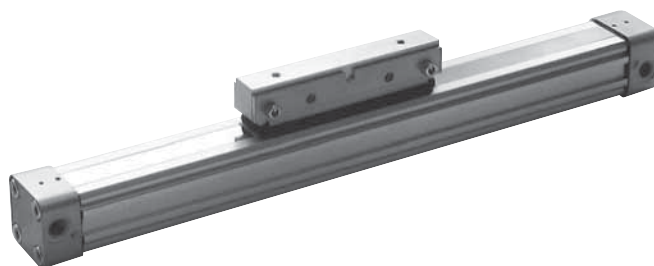
ø CIL.	A	B	C	D	E	F	G	H	J	K	P	Q	R	U	V	X	Y
32	71.5	50	33	47	G1/8"	46.5	20	18	5	25	14	25	25	50	16.3	M6	10
40	82	60	40	53	G1/4"	54.5	19	22	5	30	14	25	30	60	16.3	M6	10
50	93	70	50	65	G1/4"	60.5	22	25	6	32.5	19	30	32.5	65	21.8	M8	13
63	109	75	60	76	G3/8"	70.8	24	35	6	37.5	19	30	37	75	21.8	M8	13
80	142	99	80	94	G3/8"	93.5	24	50	8	49.5	24	45	50	99	27.3	M10	16
100	156.5	115	80	112.5	G1/2"	99	22	60	8	57.5	28	50	54	115	31.3	M10	16
125	188	125	90	136.5	G1/2"	118	29	70	8	70	28	60	60	140	31.3	M12	20

cilindri senza stelo

rodless cylinders



- Versione standard magnetica
Standard magnetic version
- Grande affidabilità e lunga durata
High reliability and long life time
- Elevata resistenza ai carichi e basso attrito
Low friction and good resistance to loads
- Grande versatilità di installazione in qualsiasi posizione
Installation in any position
- Fissaggi e sensori magnetici ordinabili separatamente
Mounting elements and switches can be ordered separately
- Versione con guida esterna a ricircolo di sfere
Version with recirculating ball bearing guide



Caratteristiche generali

I cilindri senza stelo AZ Pneumatica consistono di un profilo estruso con due testate e un pistone che scorre all'interno del profilo. Il profilo presenta un'incisione lungo tutta la sua lunghezza. Sul lato interno di questa incisione scorre un sottile nastro di acciaio anticorrosione che passa attraverso il pistone e assicura una tenuta metallica praticamente perfetta. Sulla parte esterna, un altro nastro del medesimo materiale protegge l'incisione da eventuali parti estranee che potrebbero penetrarvi. La piastra esterna sulla quale vengono fissati i carichi da movimentare è solidamente connessa al pistone. Ciò permette di minimizzare gli attriti e le perdite di energia; inoltre, per aumentare la rigidità, il foro in cui scorre il pistone è eccentrico rispetto all'asse del profilo estruso. Il pistone è munito di un magnete permanente, e il cilindro è dotato di ammortizzo regolabile. Il profilo estruso è dotato di apposite cave per il montaggio dei sensori tramite staffe di fissaggio.

I cilindri senza stelo sono disponibili in sette taglie: $\varnothing 16$; 25; 32; 40; 50; 63; 80.

Due sono le versioni: il tipo base, la cui sigla comincia con **OPL**, adatto per carichi medio-piccoli, e il tipo con guida esterna a ricircolo di sfere, la cui sigla comincia con **OPL-KF**, adatto per grandi carichi e precisione.

Features

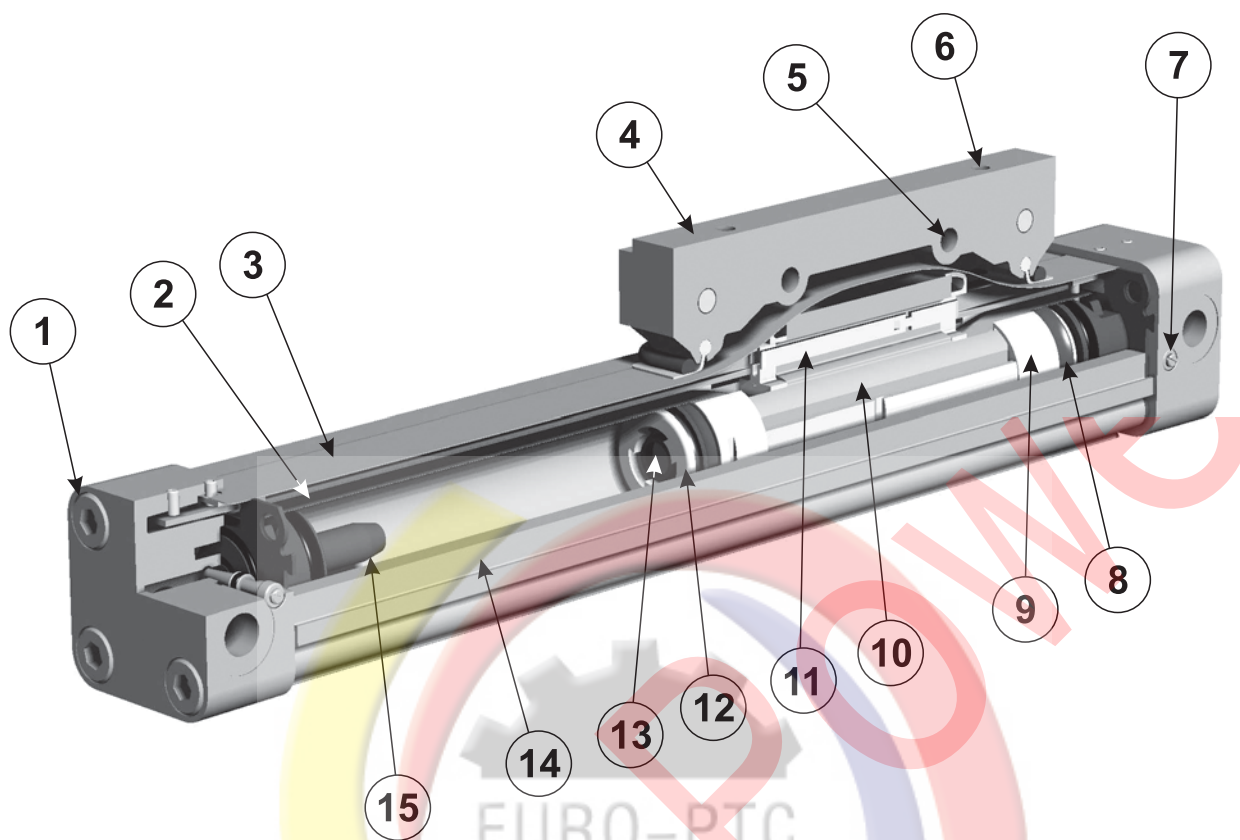
The cylinder barrel of extruded anodized aluminium has a slot along its entire length. To provide rigidity, the bore is eccentric to the outside diameter. A flexible corrosion resistant steel inner band running along the entire length of the bore and passing through the piston provides a near-zero-leakage metal to metal seal. An outer band of the same material acts as a cover over the slot preventing foreign particles to enter into the cylinder. The aluminium piston is fitted with synthetic bearing rings and houses the internal magnet. A physical connection through the slot between the piston and the external mounting plate allows the power transmission outwards. This solid connection permits the acceptance of big external forces and moments, and minimizes frictional losses.

Magnetic switches can be mounted on the aluminium profile with mounting brackets.

The cylinder is available in seven sizes: $\varnothing 16$; 25; 32; 40; 50; 63; 80. Two versions are available: the basic version (part number begins with **OPL**), suitable for small and medium loads, and the version with recirculating ball bearing guide (part number begins with **OPL-KF**), suitable for big loads and precision.

cilindri senza stelo

rodless cylinders



- | | |
|---|--|
| 1. Vite per assemblaggio testata
<i>Screw for assembling cylinder head</i> | 8. Guarnizione di tenuta del pistone
<i>Piston sealing</i> |
| 2. Nastro interno di tenuta, in acciaio resistente alla corrosione
<i>Corrosion resistant steel inner sealing band</i> | 9. Anello guida, in materiale a basso attrito
<i>Bearing ring, low friction material</i> |
| 3. Nastro esterno di tenuta, in acciaio resistente alla corrosione
<i>Corrosion resistant steel outer sealing band</i> | 10. Magnete permanente
<i>Magnet</i> |
| 4. Piastra standard per il montaggio del carico esterno
<i>Standard mounting plate for external loads</i> | 11. Pattino di scorrimento
<i>Slide shoes</i> |
| 5. Foro passante per il fissaggio del carico esterno
<i>Passing-through hole to fasten the external loads</i> | 12. Pistone
<i>Piston</i> |
| 6. Fori filettati per il fissaggio del carico esterno
<i>Threaded holes to fasten the external loads</i> | 13. Guarnizione di ammortizzo
<i>Cushion seal</i> |
| 7. Vite di regolazione ammortizzo
<i>Screw for adjustable end cushioning</i> | 14. Camicia: profilo estruso con cave per il montaggio dei sensori
<i>Cylinder barrel: extruded profile with grooves for magnetic sensors</i> |
| | 15. Cono di ammortizzo
<i>Cushion pipe</i> |

chiave di codifica

key to codes

OPL 2 5 - 0 0 0 0 0 - 0 2 3 6 0

famiglia
product family

alesaggio
bore

attacco aria
air connection

corsa
stroke

viti
screws

grasso
grease

guarnizioni
seals

Famiglia [product family]

OPL cilindri senza stelo versione base

[rodless cylinders - basic version]

OPL-KF cilindri senza stelo con guida a ricircolo di sfere

[rodless cylinders with recirculating ball bearing guide]

Attacco aria [air connection]

opzione disponibile solo per OPL-KF

option available only for OPL-KF

0 lato opposto rispetto alla guida [opposite side guide rail]

1 stesso lato della guida [same side guide rail]

Guarnizioni [seals]

0 NBR

Grasso [grease]

0 standard [standard grease]

1 speciale per basse velocità [special grease for low speed]

Viti [screws]

0 standard in acciaio zincato [standard screws in galvanized steel]

Lo standard è rappresentato dalla cifra 0
Number 0 means standard version

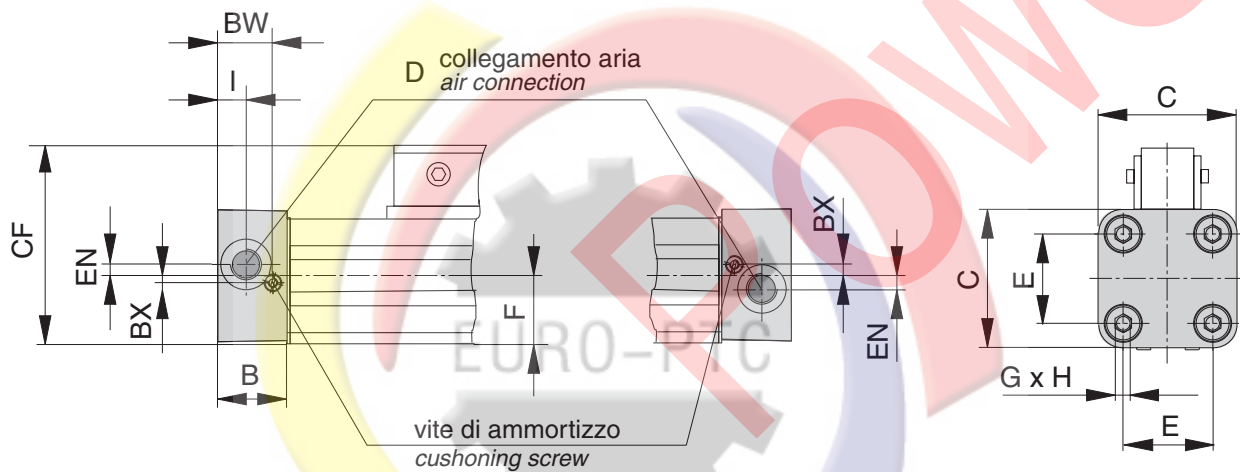
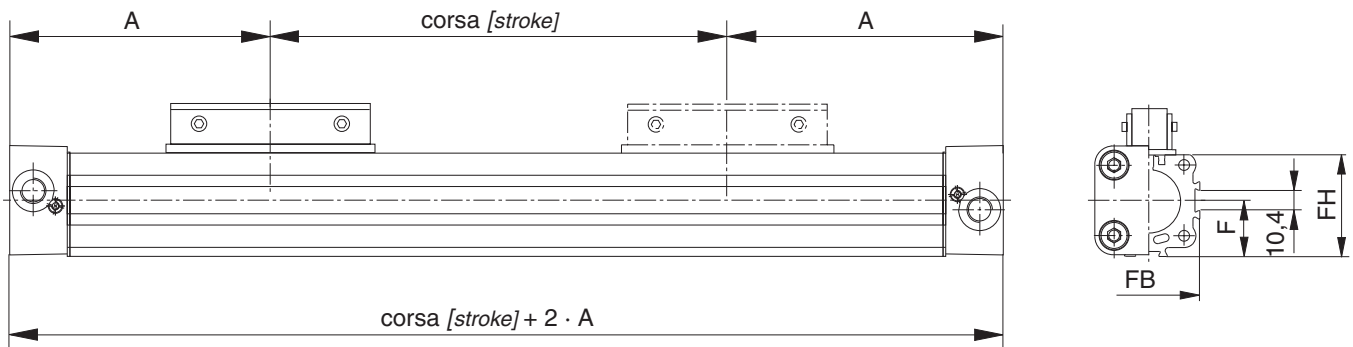
cilindri senza stelo tipo OPL

rodless cylinders type OPL



Dimensioni globali per alesaggio 16 ... 32

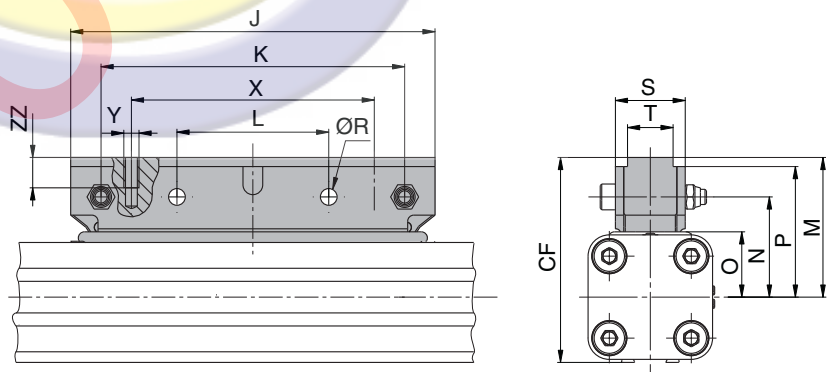
Overall dimensions - bore 16 ... 32



vite di ammortizzo
cushoning screw

Piastra di montaggio carico esterno per alesaggio 16 ... 32

Standard mounting plate for external loads
bore 16 ... 32



∅	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
16	65	14	30	M5	18	15	M3	9	5.5	76	64	32	30	24	17	29
25	100	22	41	G1/8"	27	21.5	M5	15	9	120	100	50	46	33	22.5	43
32	125	25.5	52	G1/4"	36	28.5	M6	15	11.5	160	120	60	59.8	45.8	28.5	54.3

∅	R	S	T	X	Y	BW	BX	CF	EN	FB	FH	ZZ				
16	4.5	18	10.5	48	M4	10.8	1.8	45	3	30	27.2	8				
25	5.5	23	17.5	80	M5	17.5	2.2	67.5	3.6	40	39.5	10				
32	7	27	18	90	M6	20.5	2.5	88.3	5.5	52	51.7	15				

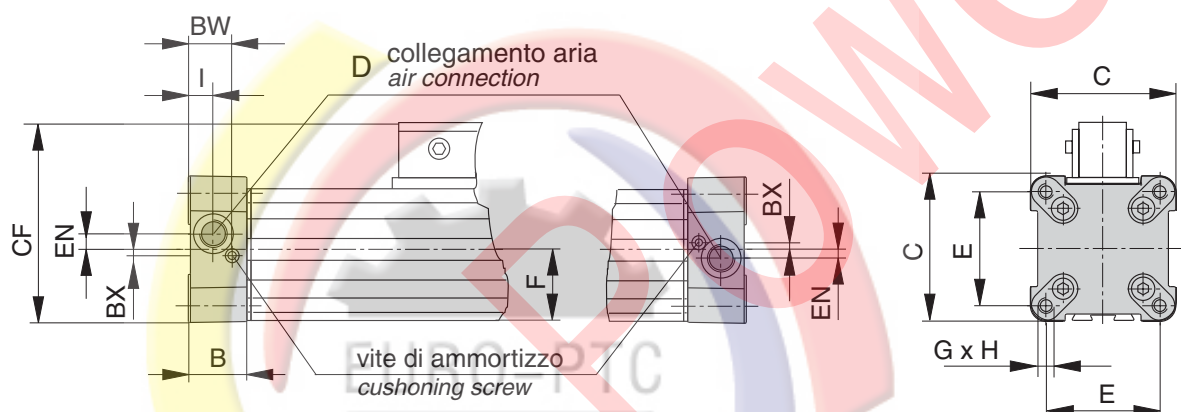
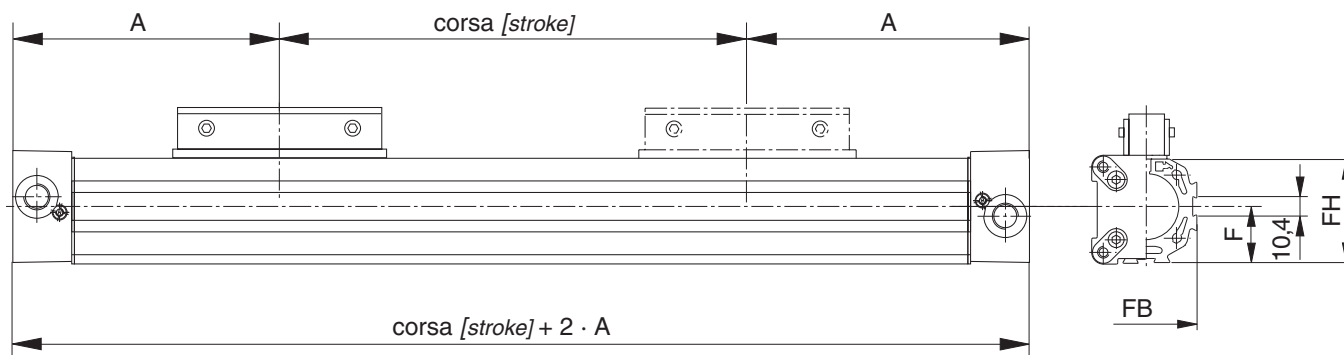
cilindri senza stelo tipo OPL

rodless cylinders type OPL



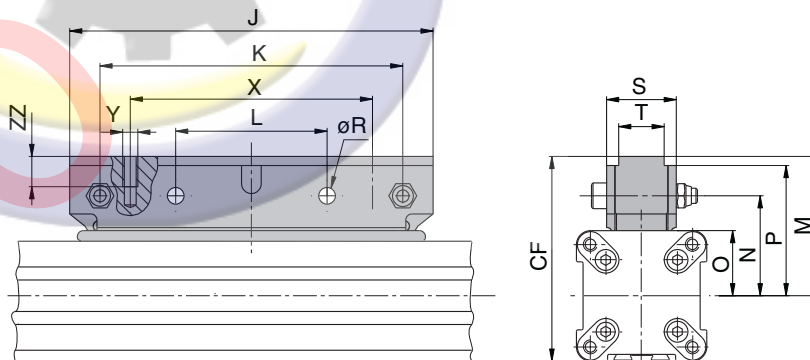
Dimensioni globali per alesaggio 40 ... 80

Overall dimensions - bore 40 ... 80



Piastra di montaggio carico esterno per alesaggio 40 ... 80

Standard mounting plate for external loads
bore 40 ... 80



∅	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
40	150	28	69	G1/4"	54	34	M6	15	12	150	110	55	60.8	48.8	35	56.8
50	175	33	87	G1/4"	70	43	M6	15	14.5	180	140	70	69	57	40	65
63	215	38	106	G3/8"	78	54	M8	21	14.5	220	180	90	82.8	67.8	50	77.8
80	260	47	132	G1/2"	96	67	M10	25	22	280	240	120	101	83	57	95

∅	R	S	T	X	Y	BW	BX	CF	EN	FB	FH	ZZ				
40	7	28	18	90	M6	21	3	95.3	7.5	62	63	12				
50	7	28	18	110	M6	27	-	112.5	11	76	77	12				
63	9	30	19	140	M8	30	-	136.8	12	96	96	16				
80	11	32	20	180	M10	37.5	-	168	16.5	122	122	20				

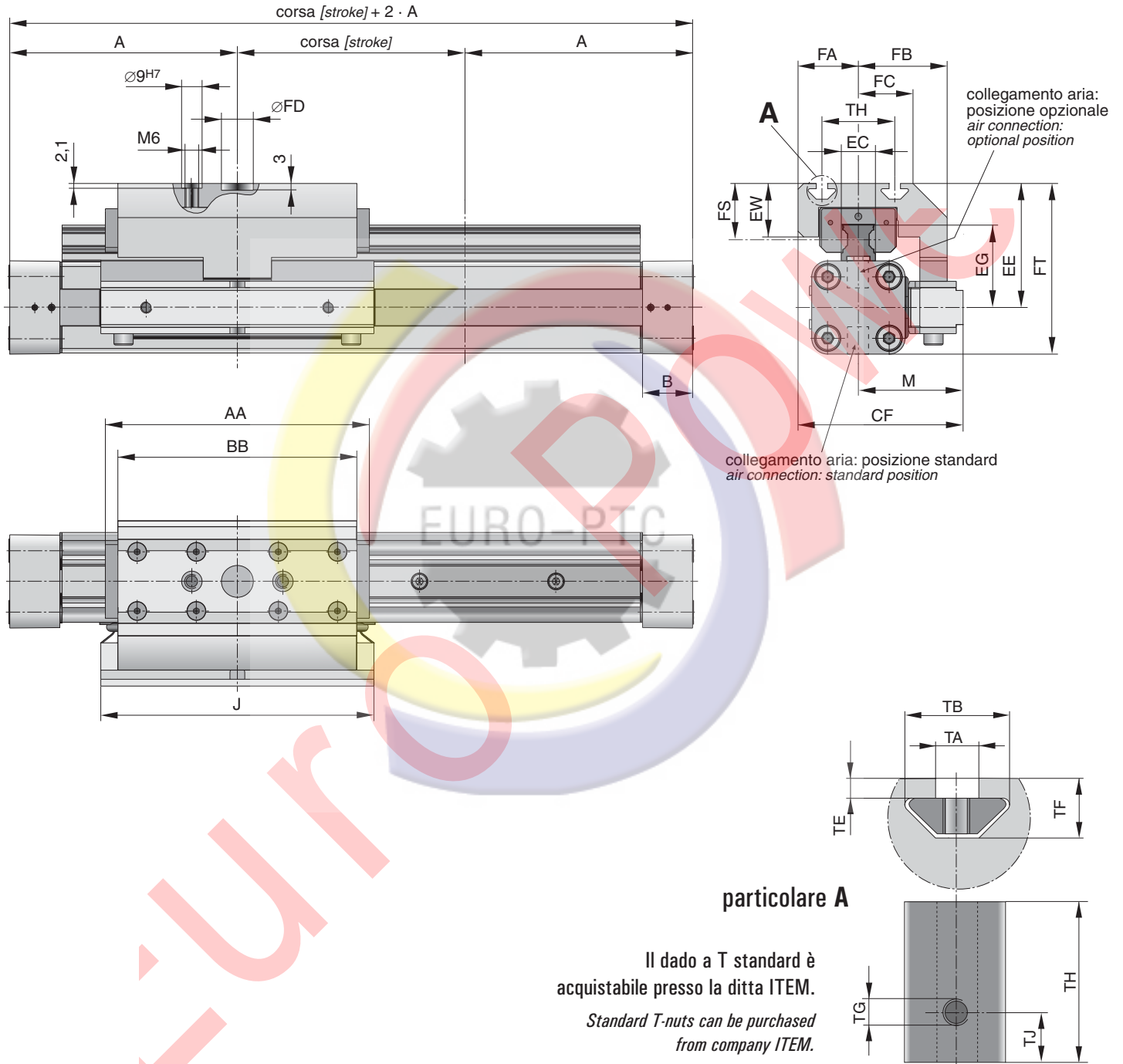
cilindri senza stelo tipo OPL-KF

rodless cylinders type OPL-KF



Dimensioni globali; per le dimensioni qui non riportate vedi pag. 508-509

Overall dimensions; for other dimensions refer to pages 508-509



∅	A	B	J	AA	BB	CF	DD	EC	EE	EG	EW	JJ	GG	M	FA	FB
16	65	14	76	93	85	48	50	15	41	24.6	10	-	25	30	17.7	29
25	100	22	120	120.2	105	72.5	40	15	54.5	36.2	23.5	-	-	46	26.5	39
32	125	25.5	160	146.2	131	93.8	40	15	60.5	42.2	23.5	-	20	59.8	34	53.8
40	150	28	150	188.5	167	103.3	40	20	69.5	51.6	26.5	120	20	60.8	42.5	56.8
50	175	33	180	220.2	202	121	40	23	90.5	62.3	32.5	120	40	69	52	65

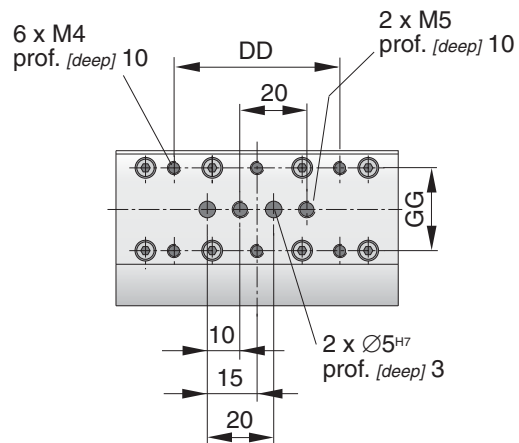
cilindri senza stelo tipo OPL-KF

rodless cylinders type OPL-KF



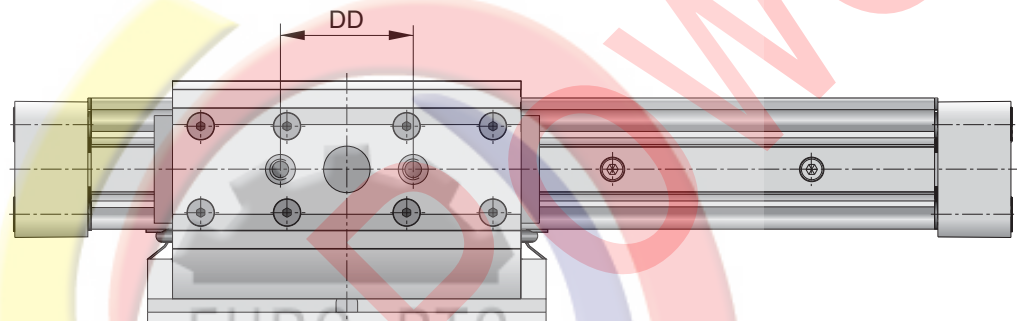
Fori fissaggio carico alesaggio 16

Load fixing bores for cylinder $\varnothing 16$



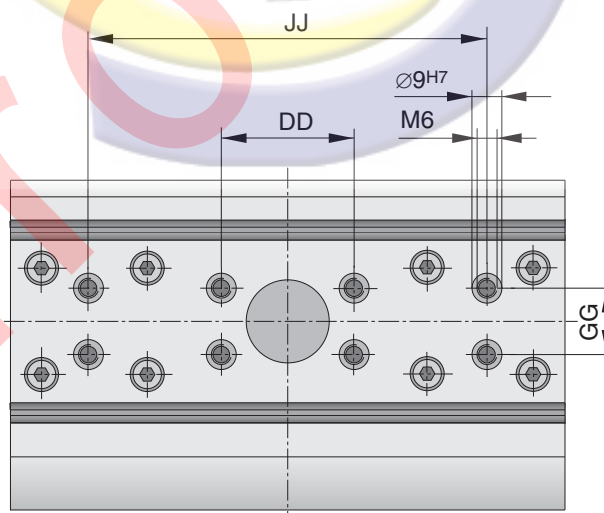
Fori fissaggio carico alesaggio 25

Load fixing bores for cylinder $\varnothing 25$



Fori fissaggio carico alesaggio 32; 40; 50

Load fixing bores for cylinder $\varnothing 32$; 40; 50



\varnothing	FC	FD	FT	FS	TA	TB	TE	TF	TG	TH	TJ				
16	16.5	-	56	19	-	-	-	-	-	-	-				
25	24	14 ^{G7}	75	24.7	5	12.1	2.3	6.9	M5	11.5	4				
32	34	25 ^{G7}	86.5	24.7	5	12.1	1.8	6.4	M5	11.5	4				
40	41	25 ^{G7}	104	26	6	12.8	1.8	8.4	M6	17	5.5				
50	50	25 ^{G7}	134	38	8	21.1	4.5	12.5	M8	23	7.5				

fissaggi per cilindri senza stelo OPL

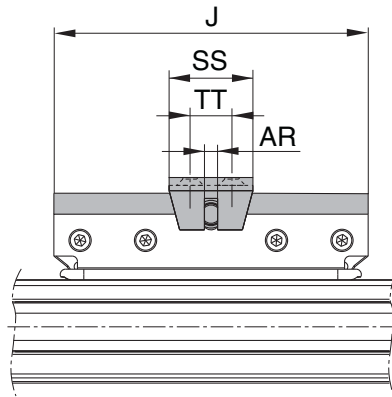
mounting elements for rodless cylinders OPL



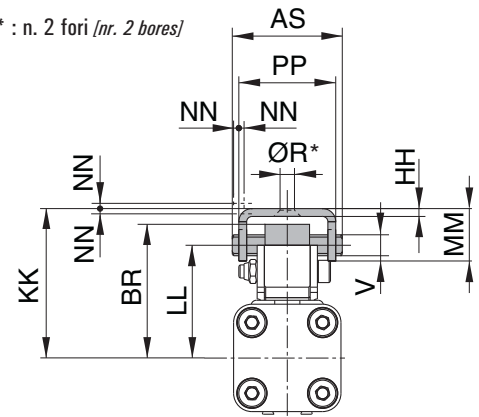
sostegno articolato

clevis mounting

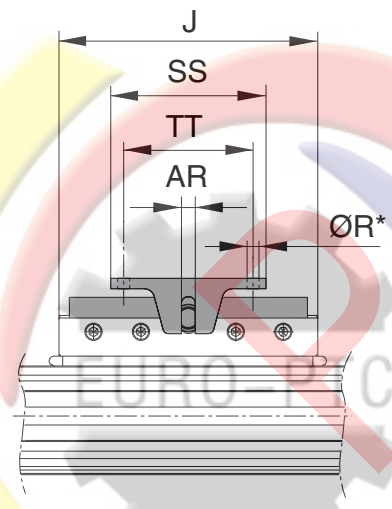
alesaggio bore	sigla part number
16	21054
25	21055
32	21056



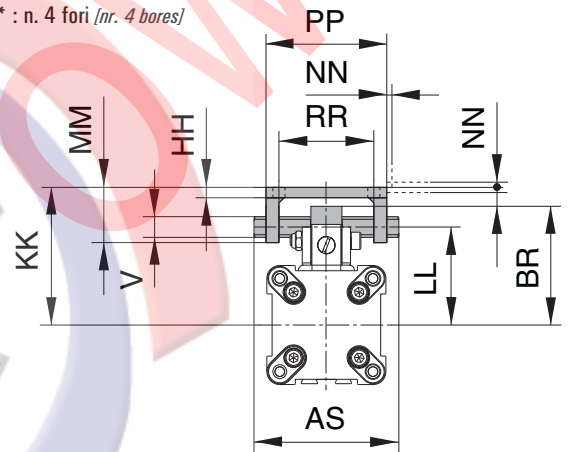
* : n. 2 fori [nr. 2 bores]



alesaggio bore	sigla part number
40	21057
50	21058
63	21059
80	21060



* : n. 4 fori [nr. 4 bores]



Se si usa una guida esterna, eventuali deviazioni di parallelismo possono dare luogo a sforzi meccanici sul pistone. Ciò si può evitare utilizzando un sostegno articolato che consente libertà di movimento nelle forme seguenti:

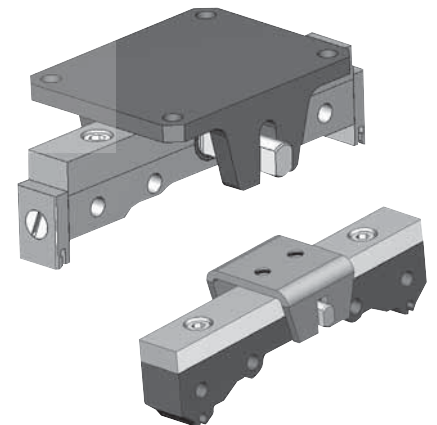
- Oscillazione nella direzione del movimento
- Compensazione verticale
- Oscillazione laterale
- Compensazione orizzontale

When external guides are used, parallelism deviations can lead to mechanical strain on the piston.

This can be avoided by the use of a clevis mounting.

Freedom of movement is provided as follows:

- Tilting in direction of movement
- Vertical compensation
- Tilting sideways
- Horizontal compensation



Ø	J	ØR	V	AR	AS	BR	HH	KK	LL	MM	NN	PP	RR	SS	TT
16	76	4.5	5	3	28	34	2	38	29	13	1.5	25	-	20	10
25	120	5.5	8	5	42	51	3	57	43	20	1.5	37	-	32	16
32	160	6.6	12	8	55	65.5	4	74	54.5	30	3	44	-	60	40
40	150	7	12	8	84	69	6	80	57	32	3.5	70	55	90	75
50	180	7	12	8	84	77	6	88	65	32	3.5	70	55	90	75
63	220	9	16	10	90	98	8	112.5	83	40	3	90	70	120	100
80	280	11	20	13	110	118	8	137.5	101	48	4	110	85	150	125

fissaggi per cilindri senza stelo OPL

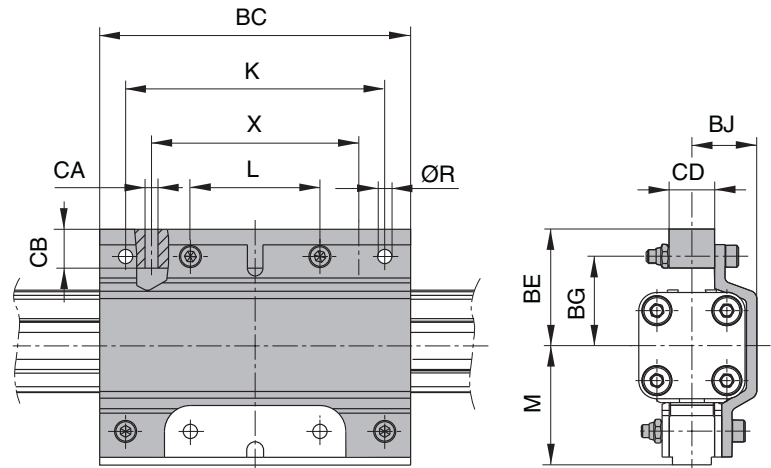
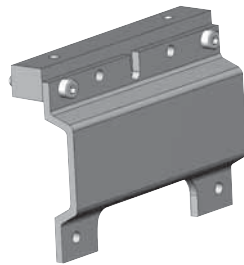
mounting elements for rodless cylinders OPL



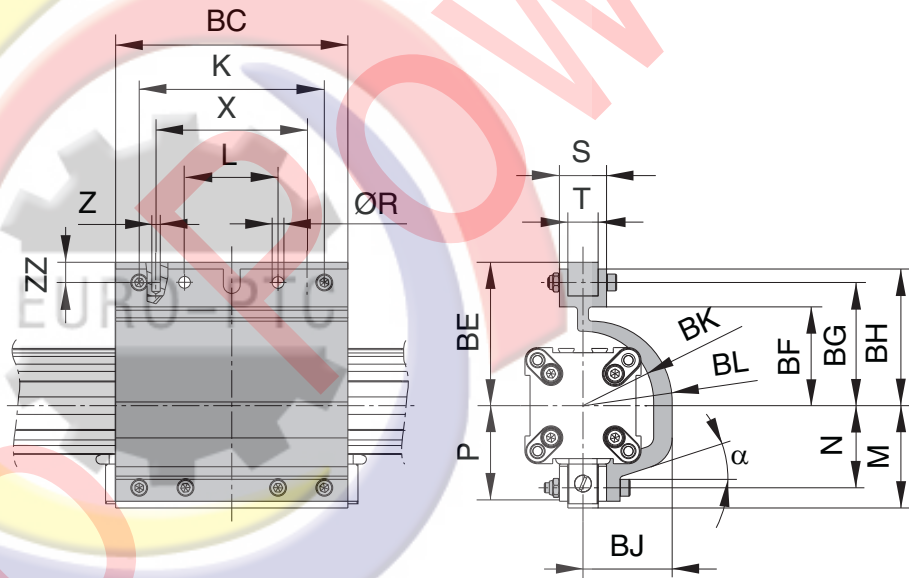
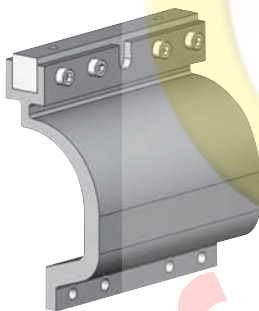
inversore di carico

inversion mounting

alesaggio <i>bore</i>	sigla <i>part number</i>
32	3510



alesaggio <i>bore</i>	sigla <i>part number</i>
40	4510
50	5510
63	6510
80	8510



∅	K	L	M	N	P	∅R	S	T	X	Z	BC
32	140	60	60	-	-	7	-	-	90	-	160
40	110	55	61	49	57	7	28	18	90	M6	138
50	140	70	69	57	65	7	28	18	110	M6	168
63	180	90	83	68	78	9	30	19	140	M8	208
80	240	120	101	83	95	11	32	20	180	M10	268

∅	BE	BF	BG	BH	BJ	BK	BL	CA	CB	CD	ZZ	α
32	58	-	44	-	33	-	-	M8	25	20	-	-
40	85	58.5	73	81	53	42	48	-	-	-	12	22°
50	97	70	85	93	62	50	56	-	-	-	12	18°
63	117	82	102	112	77	62	71	-	-	-	16	15°
80	143	102	125	137	96	78	88	-	-	-	20	15°

In ambienti sporchi o nel caso di particolari problemi di spazio si raccomanda di collocare il cilindro sottosopra. Questo accessorio per l'inversione di carico sposta l'applicazione del movimento sul lato opposto del cilindro. La dimensione e l'interasse dei fori di fissaggio del carico sono uguali a quelli del cilindro standard.

Gli altri componenti come il supporto intermedio e i sensori magnetici possono essere montati sul lato libero del cilindro.

In dirty environments, or where there are special space problems, inversion of the cylinder is recommended.

The inversion bracket transfers the driving force to the opposite side of the cylinder. The size and position of the mounting holes are the same as on the standard cylinder.

Note: other components such as mid-section supports, magnetic switches can still be mounted on the free side of the cylinder.

fissaggi per cilindri senza stelo OPL

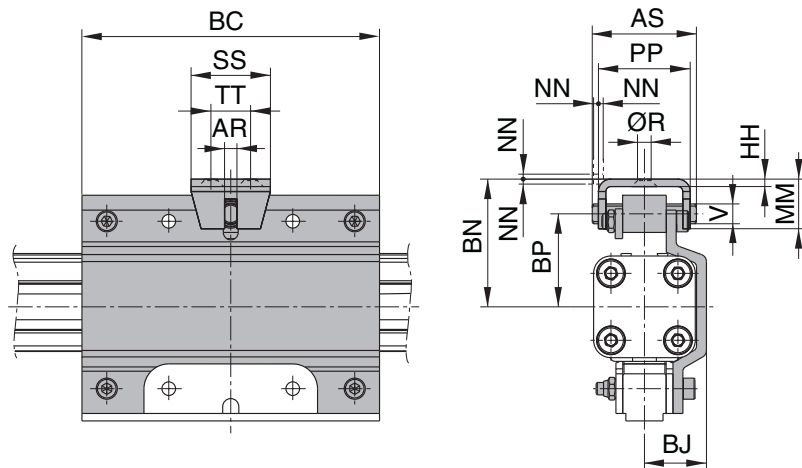
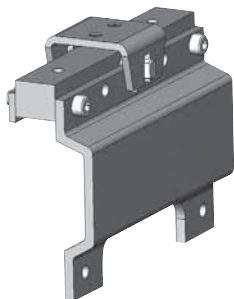
mounting elements for rodless cylinders OPL



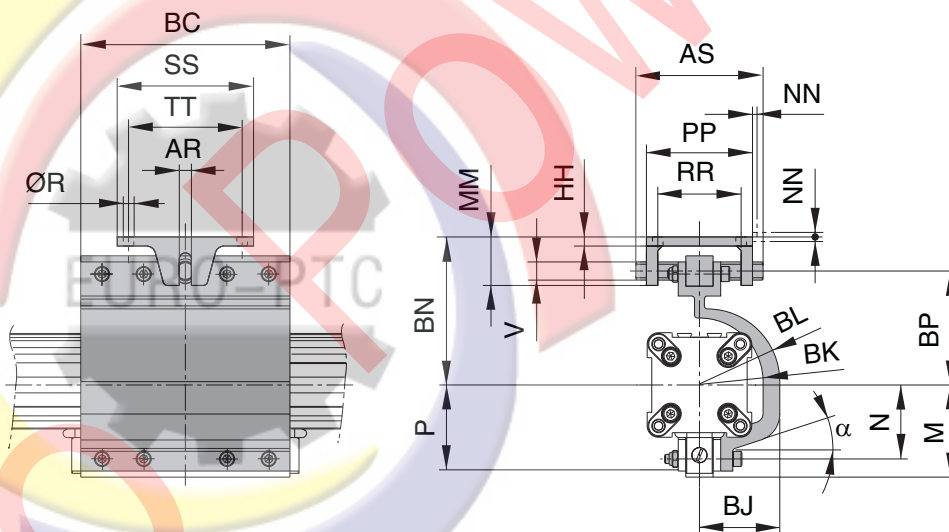
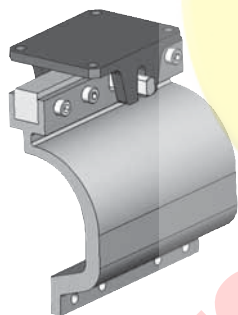
sostegno articolato con inversione

clevis mounting with inversion

alesaggio bore	sigla part number
16	21063
25	21064
32	3550



alesaggio bore	sigla part number
40	4530
50	5530
63	6530
80	8530



∅	M	N	P	∅R	V	AR	AS	BC	BJ	BK
16	-	-	-	4.5	5	3	28	76	21.5	-
25	-	-	-	5.5	8	5	42	120	26	-
32	-	-	-	6.6	12	8	55	160	33	-
40	61	49	57	7	12	8	84	138	53	42
50	69	57	65	7	12	8	84	168	62	50
63	83	68	78	9	16	10	90	208	77	62
80	101	83	95	11	20	13	110	268	96	78

In ambienti sporchi o nel caso di particolari problemi di spazio si raccomanda di collocare il cilindro sottosopra. Questo accessorio sposta l'applicazione del movimento al lato opposto del cilindro e fornisce i vantaggi di movimento propri del sostegno articolato (vedi pag. 512). La dimensione e l'interasse dei fori di fissaggio del carico sono uguali a quelli del sostegno articolato.

Gli altri componenti come il supporto intermedio e i sensori magnetici possono essere montati sul lato libero del cilindro.

∅	BL	BN	BP	HH	MM	NN	PP	RR	SS	TT	α
16	-	38.5	29	2	13	1.5	25	-	20	10	-
25	-	48	34	3	20	1.5	37	-	32	16	-
32	-	67	46.5	4	30	3	44	-	60	40	-
40	48	99	75	6	32	3.5	70	55	90	75	22°
50	56	111	87	6	32	3.5	70	55	90	75	18°
63	71	134	104.5	8	40	3	90	70	120	100	15°
80	88	163	128	8	48	4	110	85	150	125	15°

In dirty environments, or where there are special space problems, inversion of the cylinder is recommended. The inversion bracket transfers the driving force to the opposite side of the cylinder and the clevis mounting gives a number of movement possibilities (refer to page 512). The size and position of the mounting holes are the same as on the clevis mounting.

Note: other components such as mid-section supports, magnetic switches can still be mounted on the free side of the cylinder.

fissaggi per cilindri senza stelo OPL

mounting elements for rodless cylinders OPL

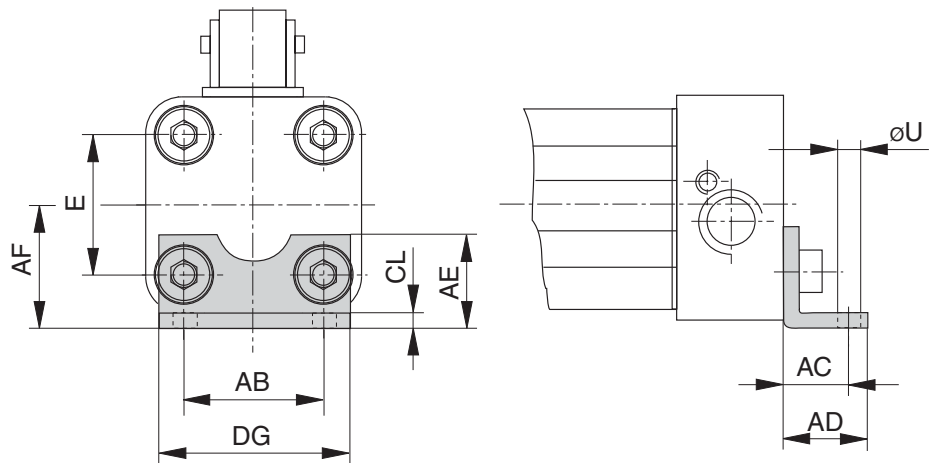


pedino

end cap foot mounting

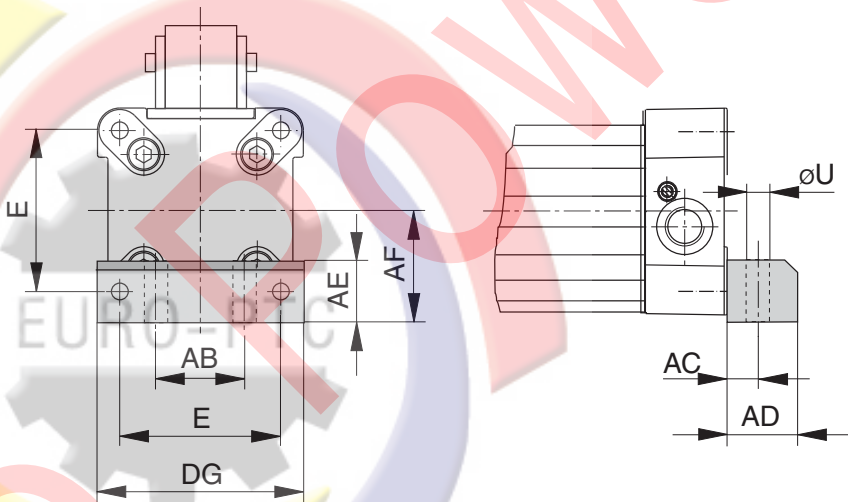
alesaggio bore	sigla part number
16	20408
25	2010
32	3010

Materiale: acciaio galvanizzato
Material: galvanized steel



alesaggio bore	sigla part number
40	4010
50	5010
63	6010
80	8010

Materiale: alluminio anodizzato
Material: anodized aluminium



Su ogni testata ci sono quattro fori per il fissaggio del cilindro. Gli interassi formano un quadrato, in modo che il pedino possa essere montato sulla parte inferiore, superiore o laterale indipendentemente dalla posizione dell'attacco dell'aria.

On the end-face of each end cap there are four threaded holes for mounting the cylinder. The hole layout is square, so that the mounting can be fitted to the bottom, top or either side, regardless of the position chosen for the air connection.

The foot mountings are supplied in pairs.

I codici di ordinazione si riferiscono a una coppia di pedini.



ø	E	øU	AB	AC	AD	AE	AF	CL	DG								
16	18	3.6	18	10	14	12.5	15	1.6	26								
25	27	5.8	27	16	22	18	22	2.5	39								
32	36	6.6	36	18	26	20	30	3	50								
40	54	9	30	12.5	24	24	38	-	68								
50	70	9	40	12.5	24	30	48	-	86								
63	78	11	48	15	30	40	57	-	104								
80	96	14	60	17.5	35	50	72	-	130								

fissaggi per cilindri senza stelo OPL

mounting elements for rodless cylinders OPL



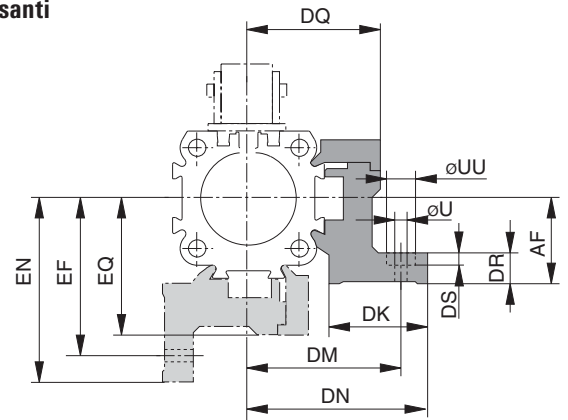
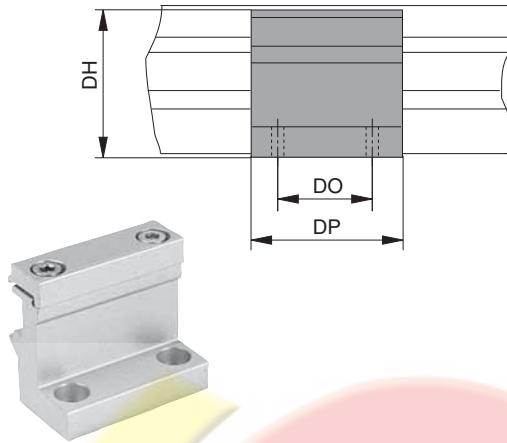
supporto intermedio

mid support

Fissaggio dall'alto o dal basso mediante viti passanti

Mounting from above or below using passing-through screws

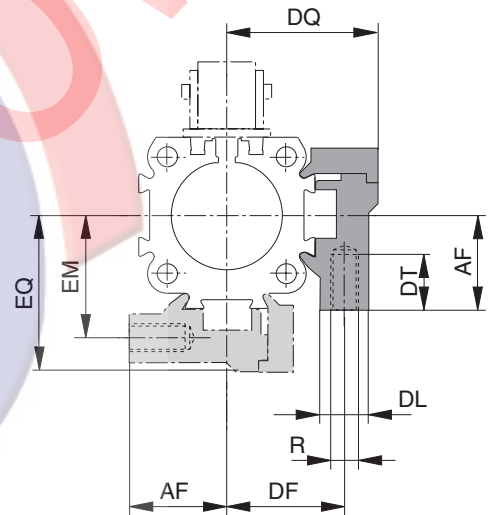
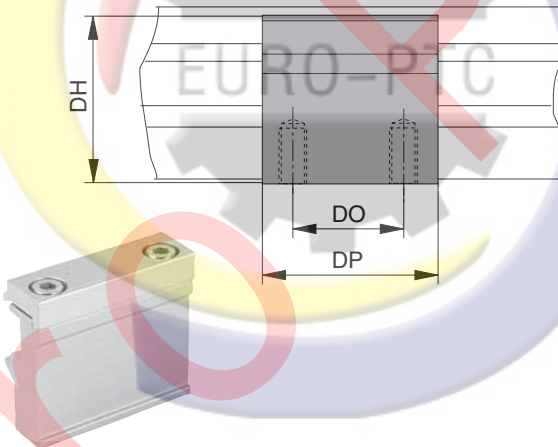
alesaggio bore	sigla part number
16	20435
25	20009
32	20158
40	20028
50	20163
63	20452
80	20482



alesaggio bore	sigla part number
16	20434
25	20008
32	20157
40	20027
50	20162
63	20451
80	20480

Fissaggio dal basso mediante due filetti

Mounting from below using two threads



Il supporto intermedio può essere montato anche sulla parte inferiore del cilindro, nel qual caso la distanza dal centro del cilindro cambia (vedi disegno).

The mid support can also be mounted on the underside of the cylinder. In this case its distance from the centre of the cylinder is different (see drawing).

For more information about installation, refer to page 528.

Per le modalità di installazione vedi pag. 528.

ø	R	øU	øUU	AF	DF	DH	DK	DM	DN	DO	DP	DL	DQ	DR	DS	DT	EF	EM	EN	EQ
16	M3	3.4	6	15	20	29.2	24	32	36.4	18	30	14.6	27	6	3.4	6.5	32	20	36.4	27
25	M5	5.5	10	22	27	38	26	40	47.5	36	50	13	34.5	8	5.7	10	41.5	28.5	49	36
32	M5	5.5	10	30	33	46	27	46	54.5	36	50	13	40.5	10	5.7	10	48.5	35.5	57	43
40	M6	7	-	38	35	61	34	53	60	45	60	19	45	10	-	11	56	38	63	48
50	M6	7	-	48	40	71	34	59	67	45	60	19	52	10	-	11	64	45	72	57
63	M8	9	-	57	47.5	91	44	73	83	45	65	24	63	12	-	16	79	53.5	89	69
80	M10	11	-	72	60	111.5	63	97	112	55	80	32	81	15	-	25	103	66	118	87

fissaggi per cilindri senza stelo OPL e OPL-KF

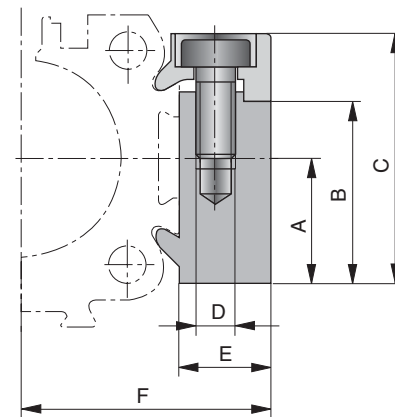
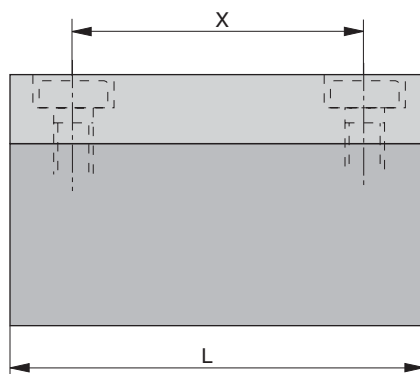
mounting elements for rodless cylinders OPL and OPL-KF



profilo di fissaggio

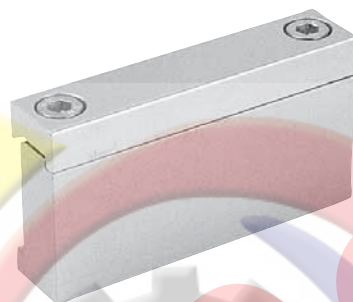
mounting profile

alesaggio bore	sigla part number
16	20432
25-32	20006
40-50	20025



Profilo universale in materiale pieno (alluminio) forabile per il fissaggio al cilindro di vari elementi.

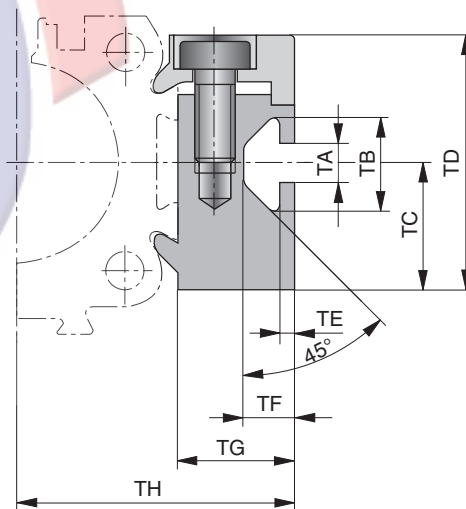
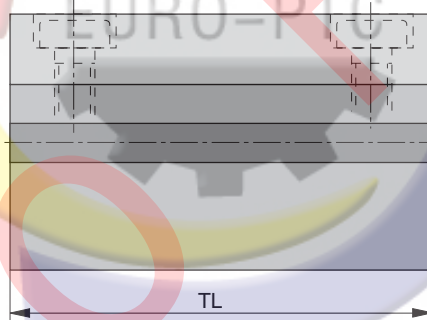
Universal profile in full solid aluminium which can be bored for mounting of various elements on the cylinder.



profilo con cava a T

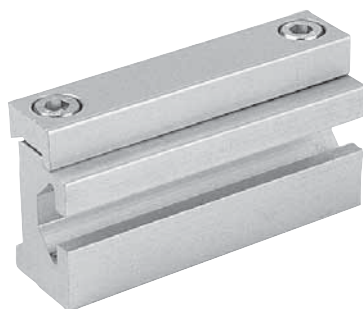
T-nut profile

alesaggio bore	sigla part number
16	20433
25-32	20007
40-50	20026



Profilo universale per il fissaggio al cilindro di vari elementi mediante dado a T standard, acquistabile presso la ditta ITEM.

Universal profile for mounting of various elements on the cylinder with standard T-nuts, to be purchased from company ITEM.



∅	A	B	C	D	E	F	L	X	TA	TB	TC	TD	TE	TF	TG	TH	TL
16	14	20.5	28	M3	12	27	50	38	5	11.5	14	28	1.8	6.4	12	27	50
25	16	23	32	M5	10.5	30.5	50	36	5	11.5	16	32	1.8	6.4	14.5	34.5	50
32	16	23	32	M5	10.5	36.5	50	36	5	11.5	16	32	1.8	6.4	14.5	40.5	50
40	20	33	43	M6	14	45	80	65	8.2	20	20	43	4.5	12.3	20	51	80
50	20	33	43	M6	14	52	80	65	8.2	20	20	43	4.5	12.3	20	58	80

fissaggi per cilindri senza stelo OPL-KF

mounting elements for rodless cylinders OPL-KF

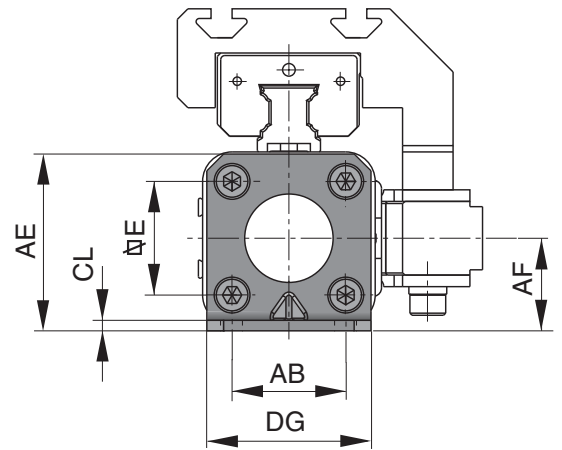
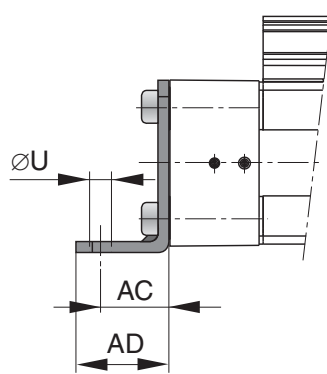


pedino in acciaio galvanizzato

end cap foot mounting (galvanized steel)

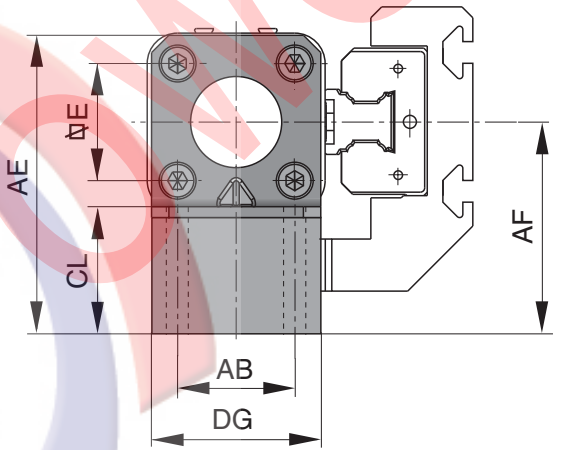
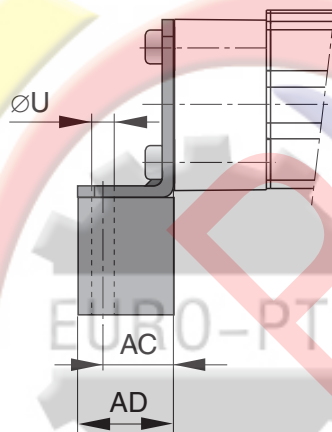
alesaggio bore	sigla part number
16	21135
25	20311
32	20313

∅	AE	AF	CL
16	28	15	2
25	42	22	2.5
32	55	30	3



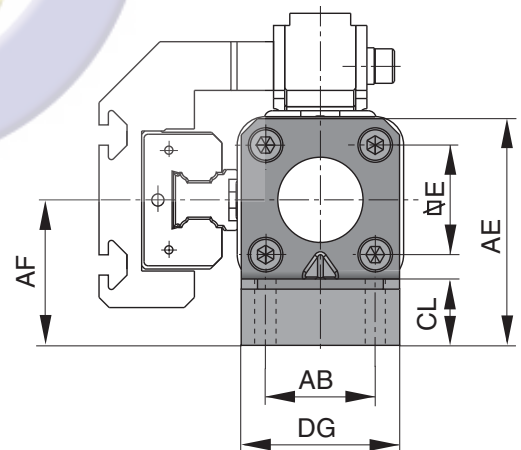
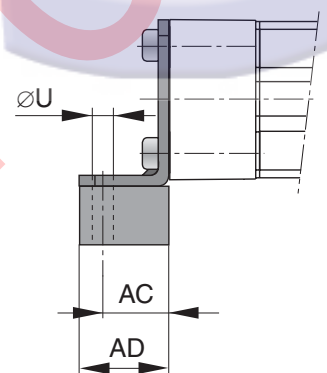
alesaggio bore	sigla part number
16	21137
25	21139
32	21141

∅	AE	AF	CL
16	55	42	29
25	69	49	29.5
32	90	65	9



alesaggio bore	sigla part number
16	21136
25	21138
32	21140

∅	AE	AF	CL
16	43	30	17
25	57	37	17.5
32	69	44	17



Materiali: pedino in acciaio galvanizzato, sostegno in alluminio anodizzato.

I codici di ordinazione si riferiscono a una coppia di piedini.

Materials: foot mounting in galvanized steel, support in anodized aluminium.

The foot mountings are supplied in pairs.

∅	E	∅U	AB	AC	AD	DG
16	18	3.6	18	10	14	26
25	27	5.8	27	16	22	39
32	36	6.6	36	18	26	50



fissaggi per cilindri senza stelo OPL-KF

mounting elements for rodless cylinders OPL-KF

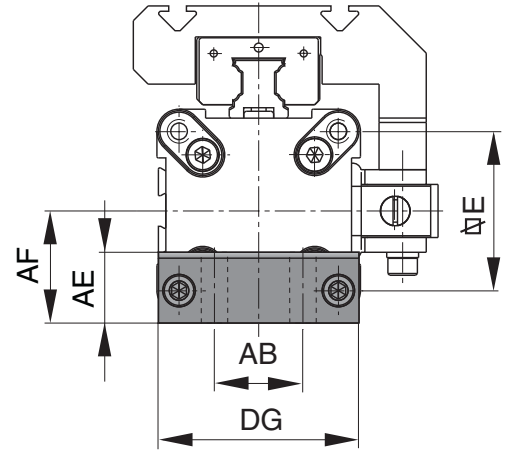
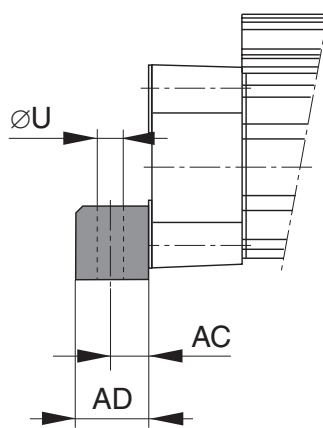


pedino in alluminio anodizzato

end cap foot mounting (anodized aluminium)

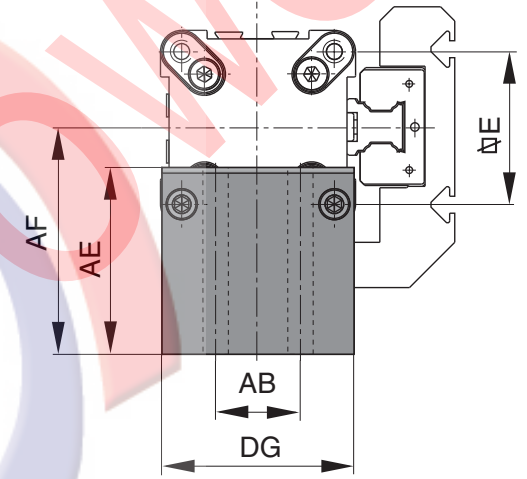
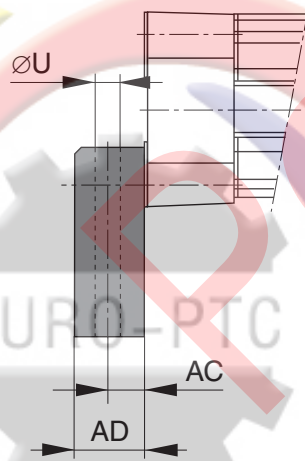
alesaggio bore	sigla part number
40	4010
50	5010

∅	AE	AF
40	24	38
50	30	48



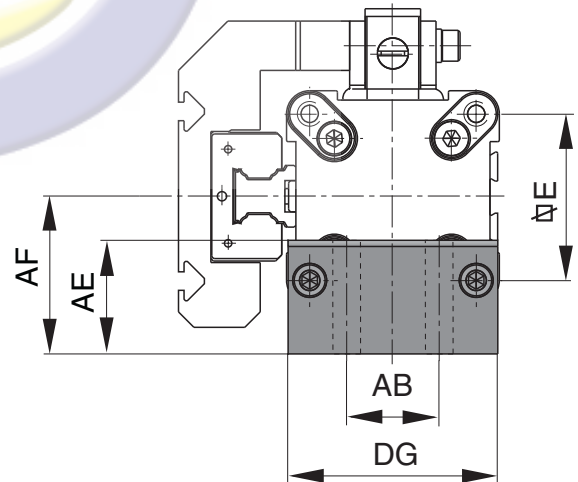
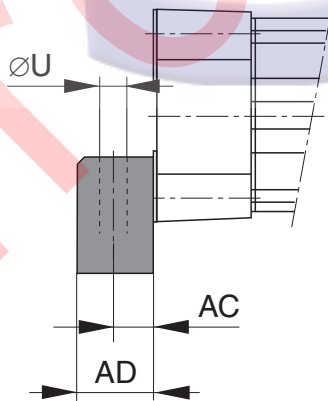
alesaggio bore	sigla part number
40	20340
50	20350

∅	AE	AF
40	56	70
50	54	72



alesaggio bore	sigla part number
40	20338
50	20349

∅	AE	AF
40	37	51
50	39	57



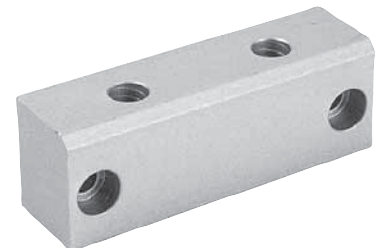
Materiale: alluminio anodizzato

I codici di ordinazione si riferiscono a una coppia di piedini.

Material: anodized aluminium

The foot mountings are supplied in pairs.

∅	E	∅U	AB	AC	AD	DG
40	54	9	30	12.5	24	68
50	70	9	40	12.5	24	86



fissaggi per cilindri senza stelo OPL-KF

mounting elements for rodless cylinders OPL-KF



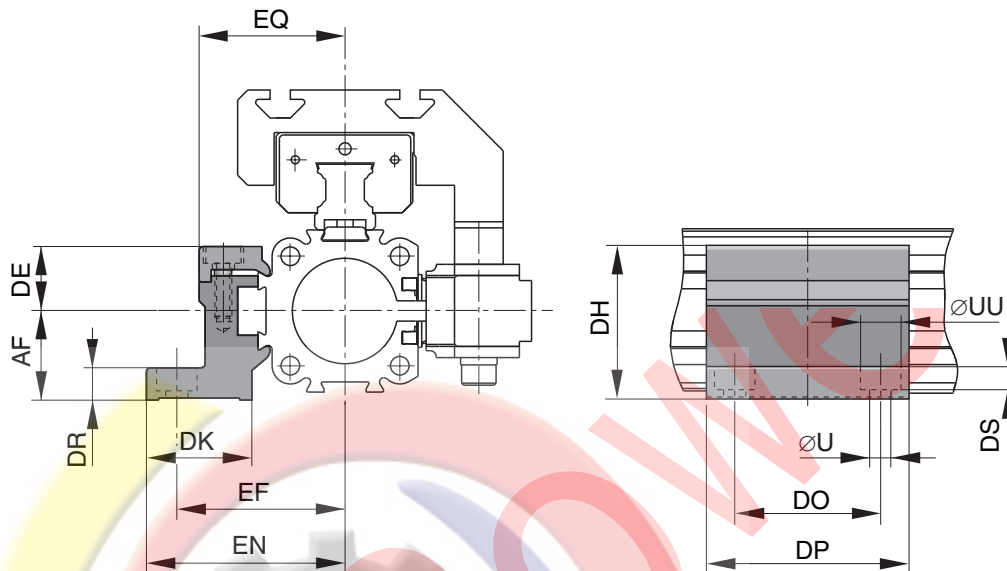
supporto intermedio

mid support

alesaggio bore	sigla part number
16	21130
25	21131
32	21132
40	21133
50	21134

∅	AF	DR
16	15	6
25	22	8
32	30	10
40	38	10
50	48	10

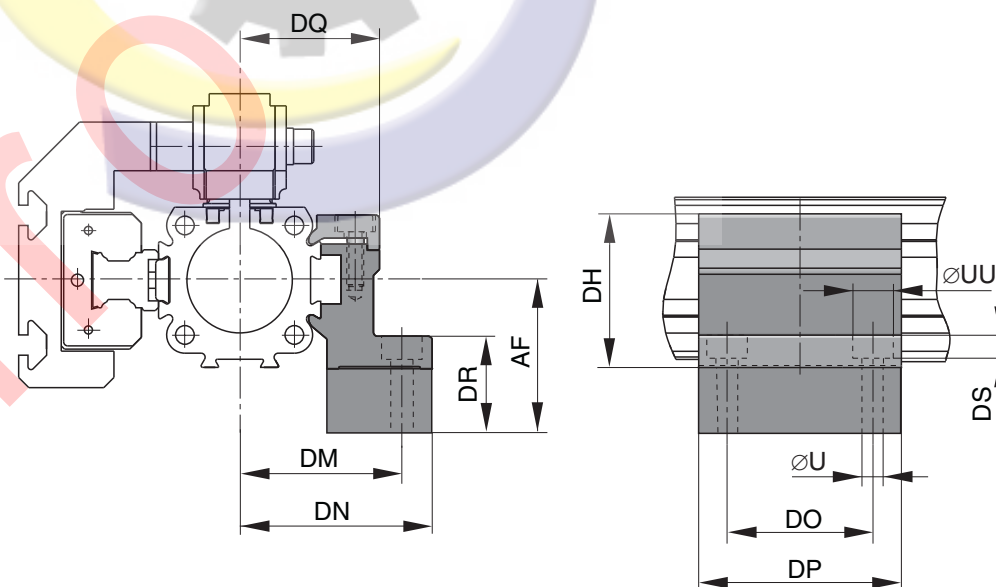
Fissaggio dall'alto o dal basso mediante viti passanti
Mounting from above or below using passing-through screws



alesaggio bore	sigla part number
16	21142
25	21143
32	21144
40	21145
50	21146

∅	AF	DR
16	30	21
25	37	23
32	44	24
40	51	23
50	57	19

Fissaggio dall'alto o dal basso mediante viti passanti
Mounting from above or below using passing-through screws



∅	∅U	∅UU	DE	DH	DK	DM	DN	DO	DP	DQ	DS	EF	EN	EQ
16	3.4	6	14.2	29.2	24	32	36.4	18	30	27	3.4	32	36.4	27
25	5.5	10	16	38	26	40	47.5	36	50	34.5	5.7	41.5	49	36
32	5.5	10	16	46	27	46	54.5	36	60	40.5	5.7	48.5	57	43
40	7	-	23	61	34	53	60	45	60	45	-	56	63	48
50	7	-	23	71	34	59	67	45	60	52	-	64	72	57

fissaggi per cilindri senza stelo OPL-KF

mounting elements for rodless cylinders OPL-KF



supporto intermedio

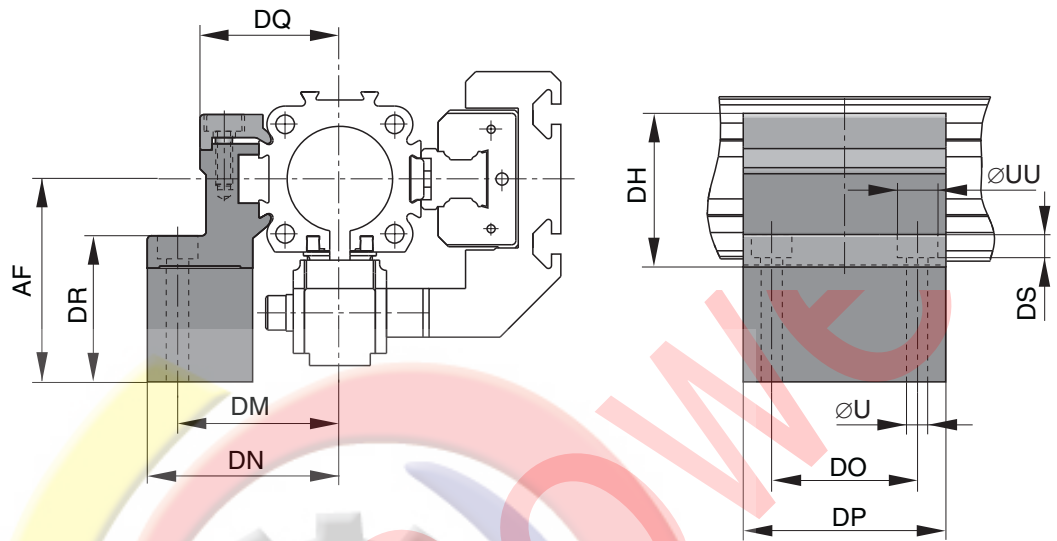
mid support

alesaggio bore	sigla part number
25	21148
32	21151
40	21150
50	21149

∅	AF	DR
25	49	35
32	65	45
40	70	42
50	72	34

Fissaggio dall'alto o dal basso mediante viti passanti

Mounting from above or below using passing-through screws



Materiale: alluminio anodizzato

Per le modalità di installazione vedi pag. 529.

Material: anodized aluminium

For more information about installation, refer to page 529.



∅	∅U	∅UU	DE	DH	DK	DM	DN	DO	DP	DQ	DS	EF	EN	EQ		
16	3.4	6	14.2	29.2	24	32	36.4	18	30	27	3.4	32	36.4	27		
25	5.5	10	16	38	26	40	47.5	36	50	34.5	5.7	41.5	49	36		
32	5.5	10	16	46	27	46	54.5	36	60	40.5	5.7	48.5	57	43		
40	7	-	23	61	34	53	60	45	60	45	-	56	63	48		
50	7	-	23	71	34	59	67	45	60	52	-	64	72	57		

fissaggi per cilindri senza stelo OPL-KF

mounting elements for rodless cylinders OPL-KF



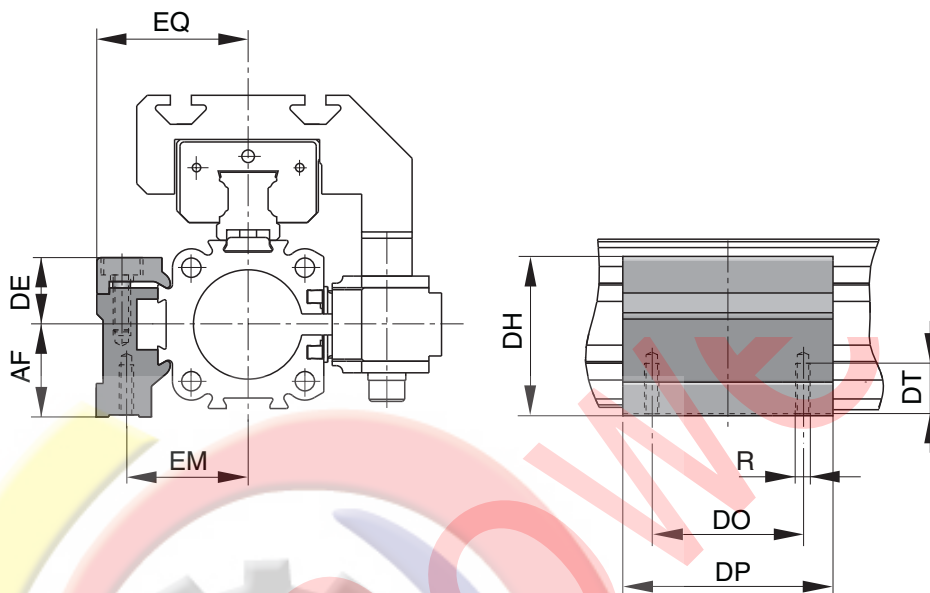
supporto intermedio

mid support

alesaggio bore	sigla part number
16	21125
25	21126
32	21127
40	21128
50	21129

Fissaggio dal basso mediante due filetti

Mounting from below using two threads



Il supporto intermedio può essere montato anche sulla parte inferiore del cilindro, nel qual caso la distanza dal centro del cilindro cambia.

The mid support can also be mounted on the underside of the cylinder. In this case its distance from the centre of the cylinder is different.

For more information about installation, refer to page 529.

Per le modalità di installazione vedi pag. 529.



∅	R	AF	DE	DH	DO	DP	DT	EM	EQ							
16	M3	15	14.2	29.2	18	30	6.5	20	27							
25	M5	22	16	38	36	50	10	28.5	36							
32	M5	30	16	46	36	60	10	35.5	43							
40	M6	38	23	61	45	60	11	38	48							
50	M6	48	23	71	45	60	11	45	57							

fissaggi per cilindri senza stelo OPL-KF

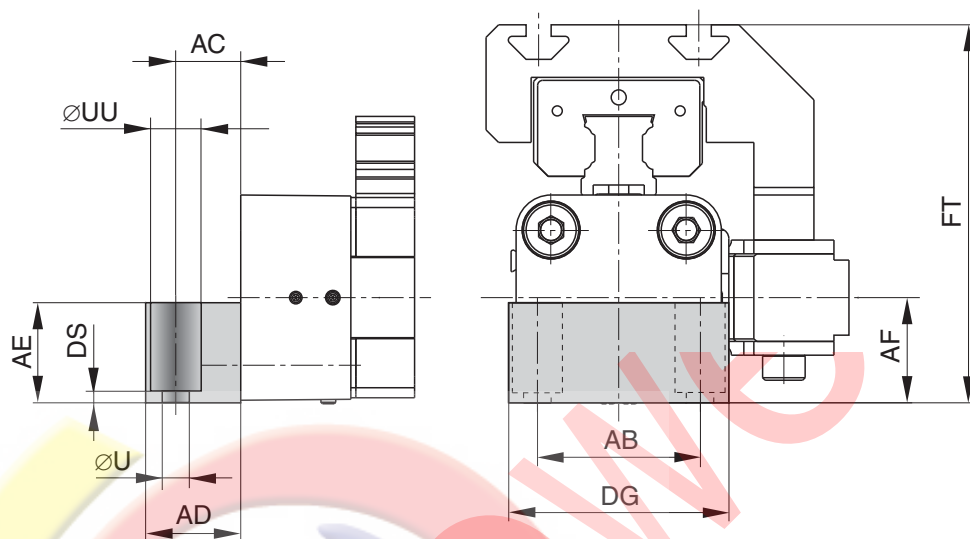
mounting elements for rodless cylinders OPL-KF



pedino per intercambiabilità cilindro

end cap foot mounting for cylinder interchangeability

alesaggio bore	sigla part number
25	21107
32	21108
40	21109
50	21110



Materiale: alluminio anodizzato.

I codici di ordinazione si riferiscono a una coppia di piedini.

Assemblando il pedino con la slitta orientata come raffigurato nel disegno, il cilindro risulta intercambiabile con gran parte dei cilindri presenti sul mercato europeo.

Material: anodized aluminium.

The foot mountings are supplied in pairs.

If the end cap foot mounting is assembled with the cylinder oriented as shown in the drawing, the cylinder is interchangeable with the most part of cylinders in the European market.

∅	∅U	AB	AC	AD	AE	AF	DG	DS	FT	∅UU						
25	5.5	32.5	13	19	20	21	44	2	75.5	10						
32	6.6	38	17	24	24	27	52	3	87.5	11						
40	6.6	45	17.5	24	24	35	68	2	104.5	11						
50	9	65	25	35	35	48	86	6	138.5	15						

fissaggi per cilindri senza stelo OPL-KF

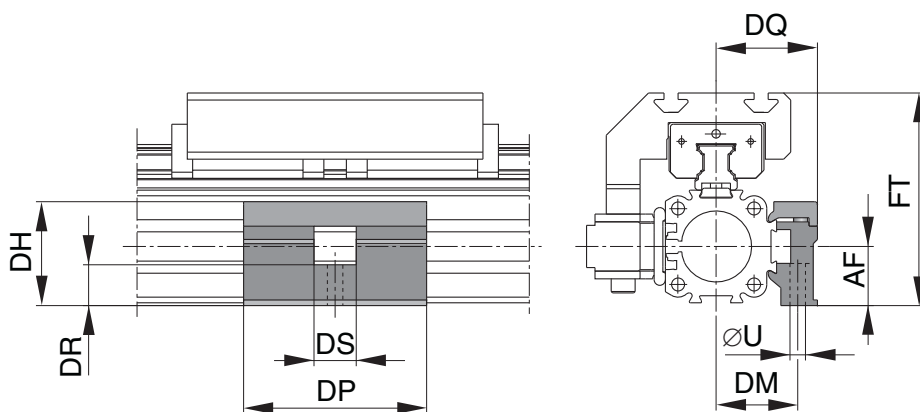
mounting elements for rodless cylinders OPL-KF



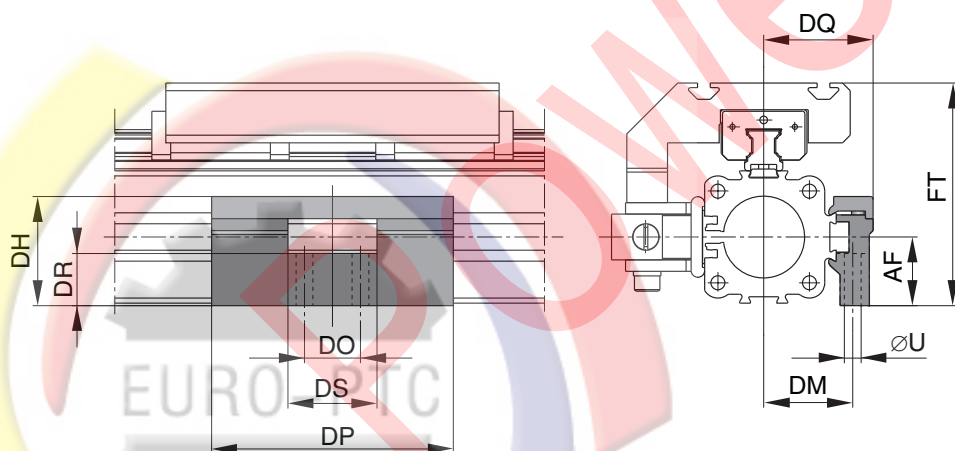
supporto intermedio per intercambiabilità cilindro

mid support for cylinder interchangeability

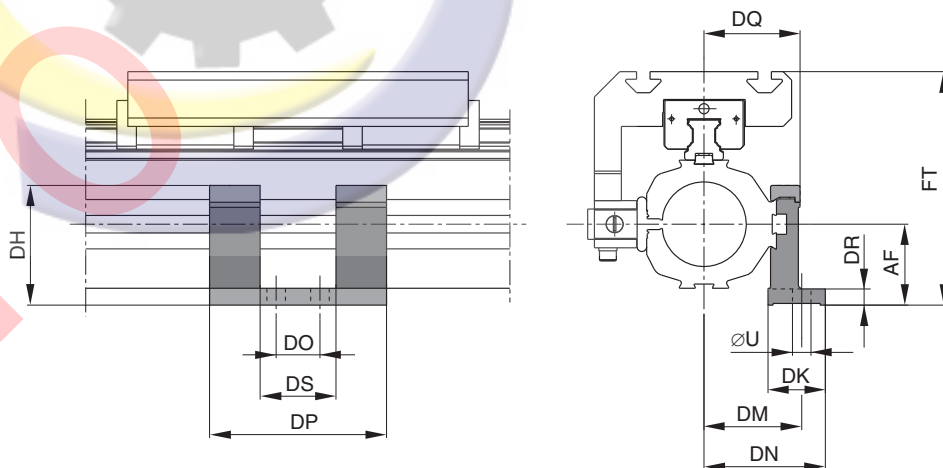
alesaggio bore	sigla part number
25	21119



alesaggio bore	sigla part number
32	21120
40	21121



alesaggio bore	sigla part number
50	21122



Materiale: alluminio anodizzato

Assemblando il supporto intermedio con la slitta orientata come raffigurato nel disegno, il cilindro risulta intercambiabile con gran parte dei cilindri presenti sul mercato europeo.

Per le modalità di installazione vedi pag. 529.

Material: anodized aluminium

If the mid support is assembled with the cylinder oriented as shown in the drawing, the cylinder is interchangeable with the most part of cylinders in the European market.

For more information about installation, refer to page 529.

ø	øU	AF	DH	DK	DM	DN	DO	DP	DQ	DR	DS	FT				
25	5.5	21	36.9	-	29	-	-	65	36	14.5	15	75.5				
32	6.6	27	42.9	-	35	-	22	95	43	20.5	35	87.5				
40	6.6	35	58	-	40	-	22	95	48	28.5	35	104.5				
50	11	48	71	34	58	72	26	105	57	10	45	138.5				

DIMENSIONAMENTO DEI CILINDRI SENZA STELO

Per la scelta del modello e della taglia adatta, è necessario considerare nell'ordine i seguenti elementi:

1. Carichi, forze e momenti
2. Carico combinato
3. Ammortizzo pneumatico di fine corsa
4. Massima lunghezza libera e collocazione di supporti intermedi

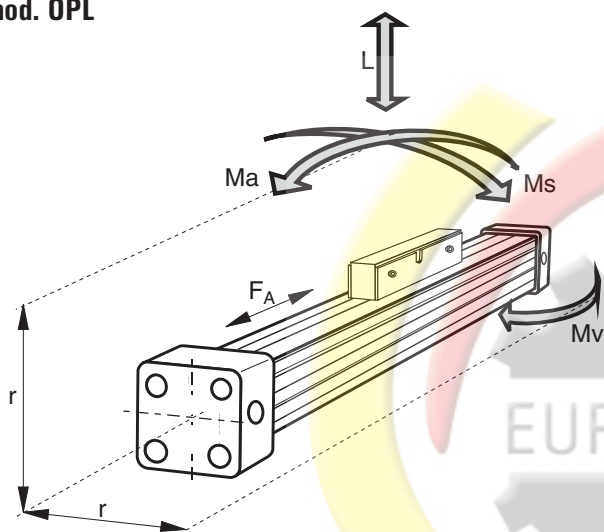
Sizing of rodless cylinders

The following steps are recommended to select the suitable type and size of cylinder for the required application:

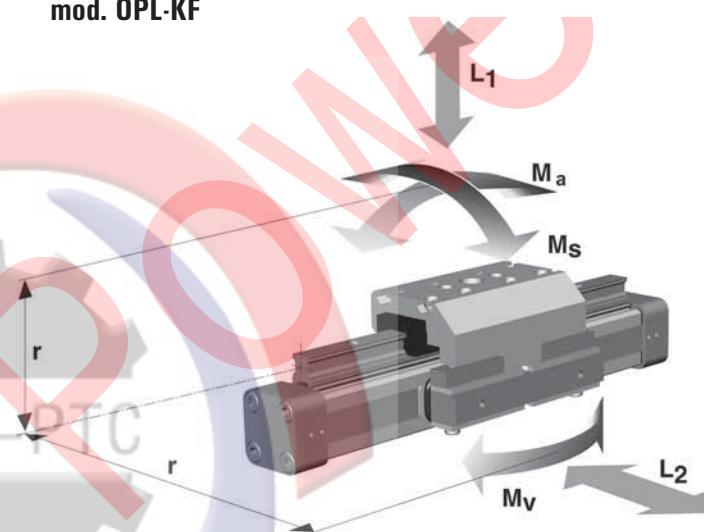
1. Loads, forces and moments
2. Combined loadings
3. End-stroke pneumatic cushioning
4. Allowable unsupported length - placing of mid supports

CARICHI, FORZE E MOMENTI - Loads, forces and moments

mod. OPL



mod. OPL-KF



$$M = F \cdot r$$

Il raggio r , da utilizzare per il calcolo del momento, esce dal centro dell'asse di scorrimento del cilindro. F indica la forza.

Bending moments are calculated from the centre of the cylinder or guide rail (radius r), and F indicates the force.

La scelta del cilindro e il suo dimensionamento si basa prima di tutto sulla valutazione adeguata di:

- carichi permissibili, forze e momenti in gioco;
- capacità di ammortizzo pneumatico di fine corsa. Fondamentale da valutare è la massa da ammortizzare e la velocità nei pressi dell'ammortizzo (non applicabile nel caso di ammortizzo tramite deceleratori montati esternamente).

La tabella seguente fornisce i valori massimi di carico e momento per un movimento libero e senza strappi, e questi valori non devono mai essere superati.

I momenti e i carichi qui indicati si riferiscono a una velocità di 0.2 m/s per la serie OPL e alla velocità indicata in tabella per la serie OPL-KF.

I valori teorici della forza attiva sono identici sia per la serie OPL che per la serie OPL-KF.

Per avere un movimento controllato con un buon margine di riserva raccomandiamo di diminuire il valore teorico delle forze attive di circa il 50%.

Choice of cylinder is decided by:

- permissible loads, forces and moments;
- performance of the pneumatic end cushions. The main factors here are the mass to be cushioned and the piston speed at start of cushioning (unless external cushioning is used, e.g. hydraulic shock absorbers).

The following table gives the maximum values for light, shock-free operation, which must not be exceeded.

Load and moment data are based on speed 0.2 m/s for series OPL, and on the speed indicated in the table for series OPL-KF.

The theoretical values of action forces are the same both for series OPL and OPL-KF.

To achieve a fully controlled movement and good force margins, we recommend to utilize 50% of the theoretical action forces.

cilindri senza stelo

rodless cylinders



modello model	alesaggio bore	forza attiva teorica a 6 bar [N] theoretical action force at 6 bar [N]	forza attiva reale a 6 bar [N] real action force at 6 bar [N]	carico massimo [N] maximum load [N]	momento massimo [Nm] max. moment [Nm]		
		F	F _a	L	M _a	M _s	M _v
OPL	16	120	78	120	4	0.3	0.5
	25	295	250	300	15	1	3
	32	483	420	450	30	2	5
	40	754	640	750	60	4	8
	50	1178	1000	1200	115	7	15
	63	1870	1550	1650	200	8	24
	80	3016	2600	2400	360	16	48

modello model	alesaggio bore	velocità massima [m/s] maximum speed [m/s]	carico massimo [N] maximum load [N]		momento massimo [Nm] max. moment [Nm]		
		v	L ₁	L ₂	M _a	M _s	M _v
OPL-KF	16	3	1000	1000	25	12	25
	25	5	3100	3100	90	35	90
	32	5	3100	3100	133	44	133
	40	3	7100	4000	346	119	346
	50	5	7500	4000	480	170	480

LUNGHEZZA DELLA CORSA - Stroke length

I cilindri tipo OPL possono essere forniti con corsa a libera scelta fino a 5500 mm; i cilindri OPL-KF fino a 3700 mm.

Corse più lunghe a richiesta.

The stroke length of the cylinders type OPL can be chosen up to 5500 mm; for type OPL-KF maximum stroke 3700 mm.

Longer strokes on request.

TOLLERANZE - Tolerances

lunghezza totale della camicia total length of cylinder barrel	alesaggio cilindro [cylinder bore]						
	16	25	32	40	50	63	80
0 ... 1000 mm	+1.8 -0	+1.8 -0	+1.8 -0	+1.8 -0	+1.8 -0	+1.8 -0	+1.9 -0
1001 ... 2000 mm	+1.9 -0	+1.9 -0	+1.9 -0	+1.9 -0	+1.9 -0	+1.9 -0	+2 -0
2001 ... 4000 mm	+2.1 -0	+2.1 -0	+2.1 -0	+2.1 -0	+2.1 -0	+2.1 -0	+2.2 -0
4001 ... 6000 mm	+2.3 -0	+2.3 -0	+2.3 -0	+2.3 -0	+2.3 -0	+2.3 -0	+2.4 -0
> 6000 mm	+2.8 -0	+2.8 -0	+2.8 -0	+2.8 -0	+2.8 -0	+2.8 -0	+2.9 -0

CARICO COMBINATO

Il carico massimo consentito può essere ricavato dalle tabelle riportate in questa pagina. Tuttavia, prima di utilizzare il cilindro, la seguente disequazione deve essere soddisfatta sostituendo i corrispondenti valori di carico e momento.

Le tabelle indicano i valori massimi di carico e momento per un movimento libero e senza strappi. Questi valori non devono mai essere superati.

La massa della slitta deve essere sempre aggiunta alla massa del carico in movimento.

Combine loadings

The maximum allowable loads and moments can be found in the tables in this page. Before using the cylinder, also the following inequation must be fulfilled. The tables show the maximum loads and moments for light, shock-free operation, which must never be exceeded.

The mass of the carriage has to be added to the total moving mass.

$$\frac{L_1}{L_1(\max)} + \frac{L_2}{L_2(\max)} + \frac{M_a}{M_a(\max)} + \frac{M_s}{M_s(\max)} + \frac{M_v}{M_v(\max)} \leq 1$$

cilindri senza stelo

rodless cylinders



Peso del cilindro

Cylinder weight

tipo type	alesaggio bore	peso cilindro corsa 0 weight of cylinder stroke 0	supplemento per 100 mm di corsa add per 100 mm of stroke	peso slitta* weight of carriage*
OPL	16	0.25 kg	0.1 kg	-
	25	0.74 kg	0.197 kg	-
	32	1.62 kg	0.354 kg	-
	40	2.10 kg	0.415 kg	-
	50	3.74 kg	0.566 kg	-
	63	6.12 kg	0.925 kg	-
	80	12.42 kg	1.262 kg	-
OPL-KF	16	0.558 kg	0.21 kg	0.228 kg
	25	1.522 kg	0.369 kg	0.607 kg
	32	2.673 kg	0.526 kg	0.896 kg
	40	4.167 kg	0.701 kg	1.531 kg
	50	7.328 kg	0.936 kg	2.760 kg

* Il peso della slitta deve essere sommato al peso del carico per il calcolo delle forze e dei momenti, nonché per la stima dell'ammortizzo pneumatico di fine corsa (vedi grafico in questa pagina).

* Weight of carriage must be added to the load weight to calculate forces and moments, and when using the cushioning diagram.

AMMORTIZZO PNEUMATICO DI FINE CORSA

End-stroke pneumatic cushioning

Calcolare la massa totale in movimento (la massa della slitta va aggiunta alla massa del carico in movimento) e trovare sul grafico la velocità massima consentita all'inizio dell'ammortizzo pneumatico di fine corsa.

Calculate your expected moving mass (the mass of the carriage has to be added to the total moving mass) and find the maximum permissible speed at start of cushioning.

In alternativa è possibile partire conoscendo la velocità e la massa in movimento e sulla base di ciò trovare il cilindro adatto.

Alternatively, take your desired speed and expected mass and find the cylinder size required.

Nota bene che la velocità del pistone all'inizio del cono di ammortizzo è circa il 50% più alta della velocità media, e che per il dimensionamento del cilindro va presa in considerazione questa velocità più alta. Se si superano i valori massimi consentiti si devono utilizzare deceleratori meccanici montati esternamente e collocati nell'area del baricentro della massa in movimento.

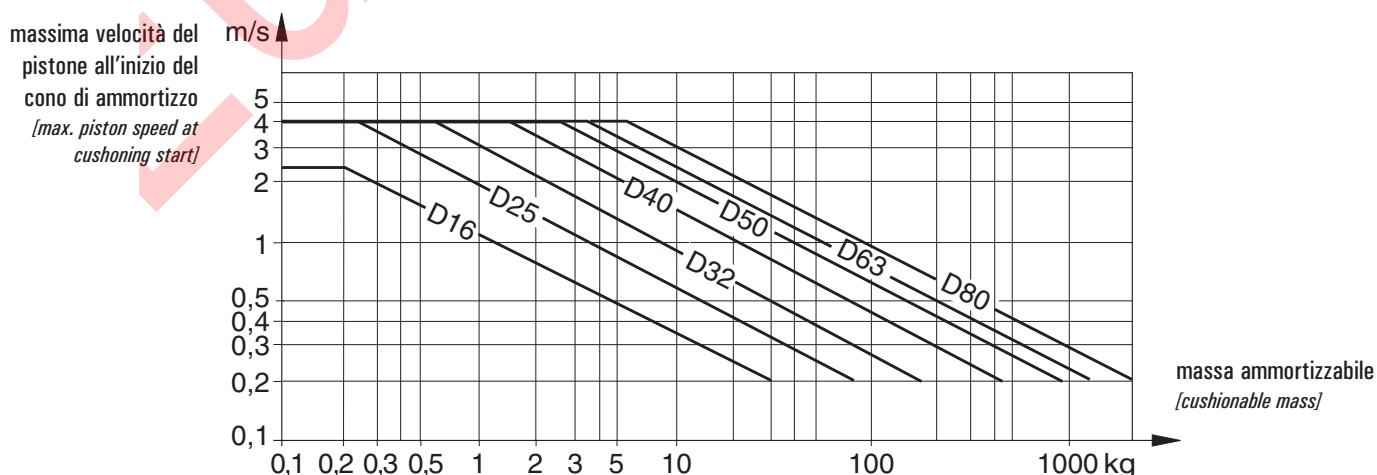
Please note that piston speed at start of cushioning is typically ca. 50% higher than the average speed, and this higher speed determines the choice of cylinder.

If the permitted limit values are exceeded, additional shock absorbers should be fitted in the area of the centre of mass.

Lunghezza tratto ammortizzato

Cushion length

alesaggio bore	tratto ammortizzato cushion length
16	11 mm
25	17 mm
32	20 mm
40	27 mm
50	30 mm
63	32 mm
80	39 mm



SUPPORTI INTERMEDI

Per evitare una flessione e oscillazione eccessiva del cilindro è indispensabile collocare uno o più supporti intermedi a distanze determinate.

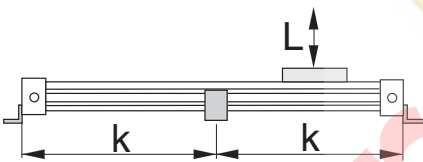
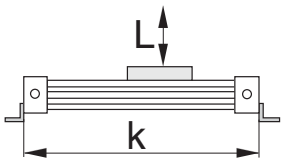
I diagrammi indicano la lunghezza massima (non la corsa!), in relazione al carico, oltrepassata la quale il cilindro non può essere utilizzato senza supporti intermedi, e la distanza massima consentita tra un supporto e l'altro.

Tra due supporti è consentita una flessione massima di 0.5 mm. I supporti si fissano all'esterno del profilo del cilindro e contribuiscono a supportare le forze assiali.

In ogni caso, in presenza di velocità superiori a 0.5 m/s la distanza libera non deve mai superare 1 metro.

Per la serie OPL-KF sono dati due grafici, da utilizzare rispettivamente nel caso in cui il cilindro sia posizionato secondo lo schema 1 o lo schema 2.

Per i modelli e le dimensioni dei supporti intermedi vedi le pagine precedenti.



k = massima distanza permessa tra i fissaggi e/o tra i supporti fissi in relazione a un dato carico (L).

k = maximum allowable distance between mountings and/or mid-section supports, related to a given load (L).

Mid-section supports

To avoid excessive bending and oscillation of the cylinder, mid-section supports are required in relation to stroke length and applied load.

The diagrams show the maximum possible length (not the stroke!), depending on the load, without mid-section support and between two supports.

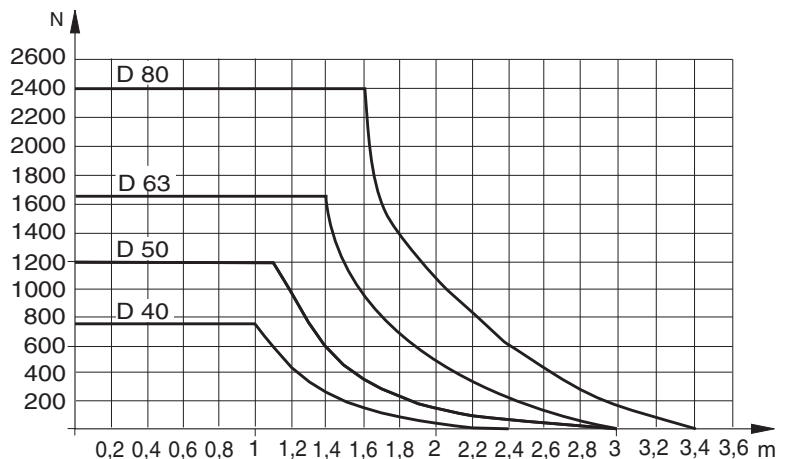
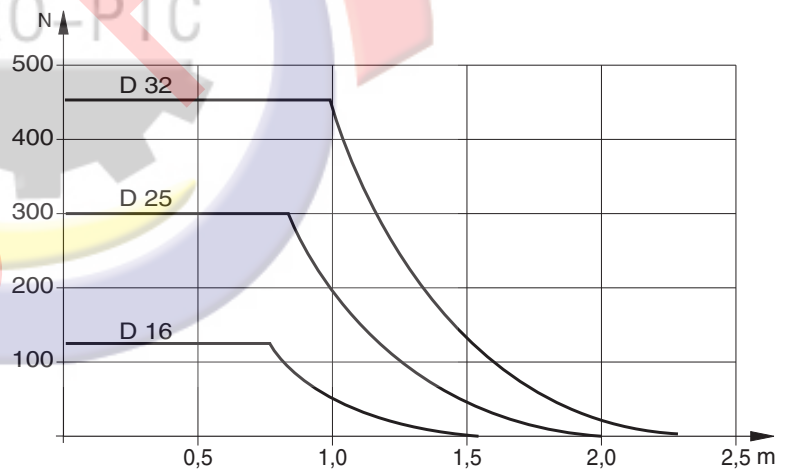
Bending up to max. 0.5 mm is permissible between supports. The mid-section supports are clamped onto the cylinder profile and they can also help to support axial forces.

Anyway, for speeds $v > 0.5$ m/s the free distance should not be more than 1 meter.

For the series OPL-KF two graphics are given: one should be used if the cylinder is positioned according to drawing 1, the other one if the cylinder is positioned according to drawing 2.

For types and dimensions of mid-section supports see previous pages.

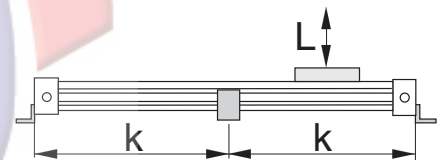
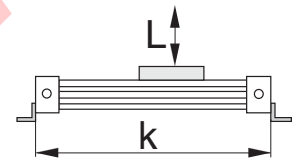
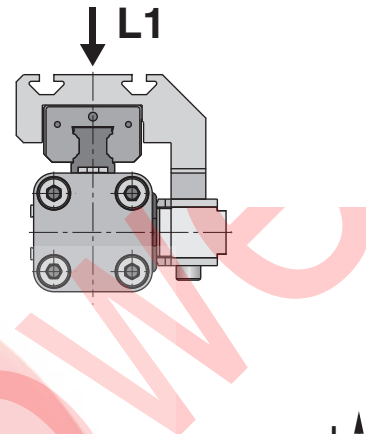
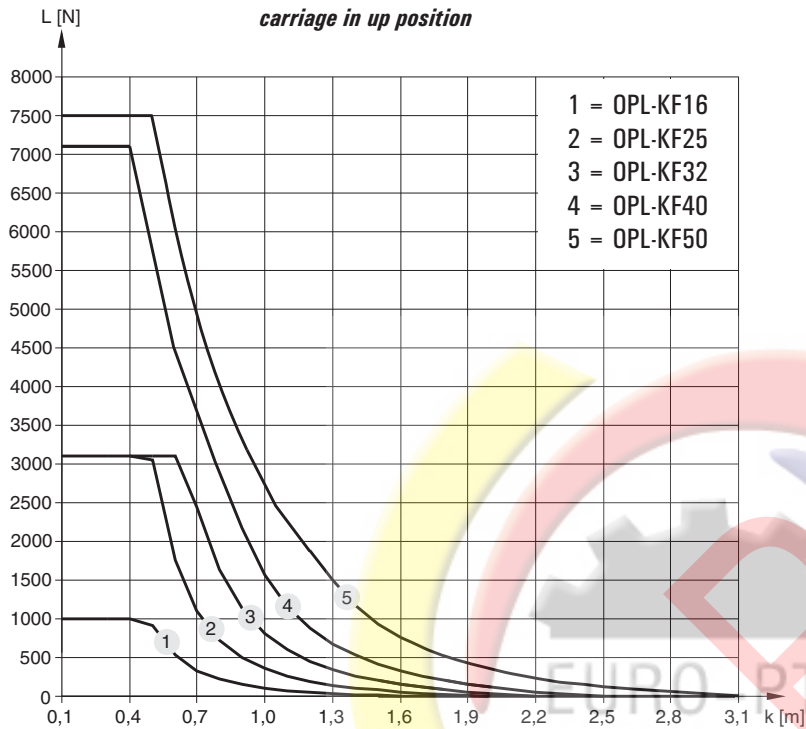
SERIE OPL - series OPL



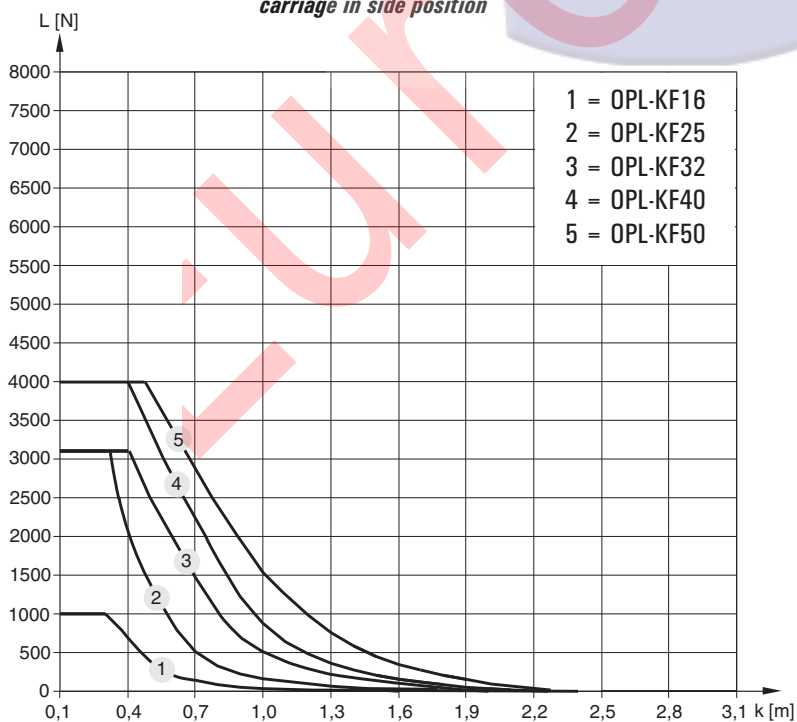
SUPPORTI INTERMEDI SERIE OPL-KF

Mid-section supports series OPL-KF

SLITTA IN ALTO carriage in up position

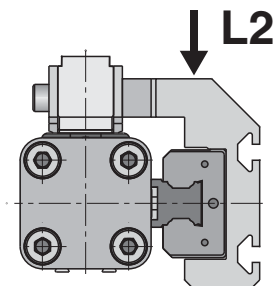


SLITTA IN POSIZIONE LATERALE carriage in side position



k = massima distanza permessa tra i fissaggi e/o tra i supporti fissi in relazione a un dato carico (L).

k = maximum allowable distance between mountings and/or mid-section supports, related to a given load (L).



Materiali

Profilo estruso, pistone: alluminio anodizzato

Testate: alluminio

Guarnizioni: gomma nitrilica NBR

Anelli guida: materiale plastico

Pattini di scorrimento: materiale plastico

Nastro di tenuta: acciaio resistente alla corrosione

Viti, dadi: acciaio zincato

Fissaggi: acciaio zincato e alluminio

Guida esterna su profilo sagomato

Profilo sagomato: acciaio indurito

Ambienti corrosivi

Viti in acciaio inossidabile sono disponibili come opzione (non per la versione OPL-KF).

Intervallo di temperatura ambiente

Versione standard: $-10^{\circ}\text{C} \dots +80^{\circ}\text{C}$

Caratteristiche dell'aria

Pressione di lavoro: max 8 bar

Aria filtrata 50μ e essiccata

I cilindri sono inizialmente lubrificati con grasso e non hanno bisogno, in un regime di lavoro normale, di alcuna lubrificazione aggiuntiva. Nel caso di lubrificazione a olio, essa deve essere sempre mantenuta e mai interrotta.

Manutenzione

Vita del cilindro: 6000 km in condizioni standard e manutenzione effettuata a regola d'arte. In seguito il cilindro può essere facilmente ricondizionato acquistando un pacchetto di manutenzione contenente i necessari pezzi di ricambio.

In normali condizioni di funzionamento si deve periodicamente controllare ed eventualmente lubrificare la guida esterna del cilindro (OPL-KF). Deve essere sempre presente una quantità adeguata di grasso nel carrello e la superficie del binario di scorrimento deve essere sempre coperta da un velo di grasso.

Si deve evitare di spruzzare liquidi detergenti direttamente verso il nastro di tenuta esterno poiché il liquido o altre particelle possono penetrare all'interno del cilindro. Dopo aver pulito le guide esterne occorre sempre lubrificarle.

Materials

Cylinder profile, piston: anodized aluminium

End caps: aluminium

Seals: NBR

Support rings: plastic material

Slide shoes: plastic material

Sealing bands: corrosion resistant steel

Screws, nuts: galvanized steel

Mountings: galvanized steel and aluminium

External guide rail

Guideway: hardened steel

Corrosive environments

Stainless steel screws can be supplied as option (not for version OPL-KF).

Ambient temperature range

Standard version: $-10^{\circ}\text{C} \dots +80^{\circ}\text{C}$

Supply air treatment

Operating pressure: max 8 bar

Medium: 50μ filtered and dried compressed air

The cylinders are grease lubricated, additional oil mist lubrication is normally not required. If oil mist lubrication is present, it must be present all the time and never interrupted.

Maintenance

Lifetime: 6000 km in standard condition and perfect maintenance. After that, the cylinder can be very easily renewed with a service-package which contains all necessary spare parts.

In normal operating environments we recommend to periodically check and, if necessary, re-lubricate the external guide rail of the cylinder (OPL-KF). Sufficient grease must be always present in the carriages; check that a grease film is visible on the running surface of the guide rail.

To prevent contamination such as fluid ingress, avoid direct spraying toward the outer sealing band. The guide way should always be re-lubricated after any cleaning.

cilindri senza stelo

rodless cylinders



Velocità del cilindro

I cilindri nella versione standard sono previsti per velocità del pistone tra 0.2 m/s e 5.0 m/s.

Versione per bassa velocità

Per velocità inferiori a 0.2 m/s il cilindro deve essere ordinato con lubrificazione con grasso speciale per basse velocità in modo da consentire un movimento senza strappi.

Velocità minima raggiungibile con il grasso speciale: 0.005 m/s.

Alta velocità del cilindro

Per velocità superiori a 5.0 m/s rivolgersi all'ufficio commerciale.

Avvertenze per l'installazione

Per il fissaggio del cilindro si possono usare i fori filettati presenti nelle testate. Controllare sempre se è necessario un supporto intermedio. Quando si utilizza il supporto intermedio, almeno una delle due testate deve essere rigidamente fissata per evitare che il cilindro scivoli in senso assiale.

I cilindri possono essere installati in una qualsiasi posizione. Per evitare che, per esempio, fluidi o sostanze liquide penetrino nel cilindro, esso può essere collocato sottosopra con i nastri di tenuta rivolti verso il basso.

Messa in esercizio

I prodotti di cui alla presente documentazione tecnica non devono essere messi in esercizio prima che la macchina nella quale dovranno essere installati come parte costituente sia stata dichiarata rispondente alle raccomandazioni della direttiva macchine e della legge vigente.

Importante: nel caso in cui, nelle vicinanze del cilindro o sulla macchina ove il cilindro è montato, si effettui una saldatura ad arco è obbligatorio rimuovere fisicamente il cilindro e allontanarlo. In caso contrario il cilindro viene irrimediabilmente danneggiato e non è riparabile in garanzia.

Speed related versions

The standard version of the cylinder is designed for piston speeds from 0.2 m/s to 5.0 m/s.

Slow speed option

Specially formulated grease lubrication facilitates slow, smooth and uniform piston travel in the speed range below 0.2 m/s. This slow speed version is available on request.

Minimum speed with special grease 0.005 m/s.

High speed

For speeds exceeding 5.0 m/s please contact our commercial office.

Installation instructions

Use the threaded holes in the end caps to install the cylinder. Check if mid supports are needed. At least one end cap must be secured to prevent axial sliding when mid support is used.

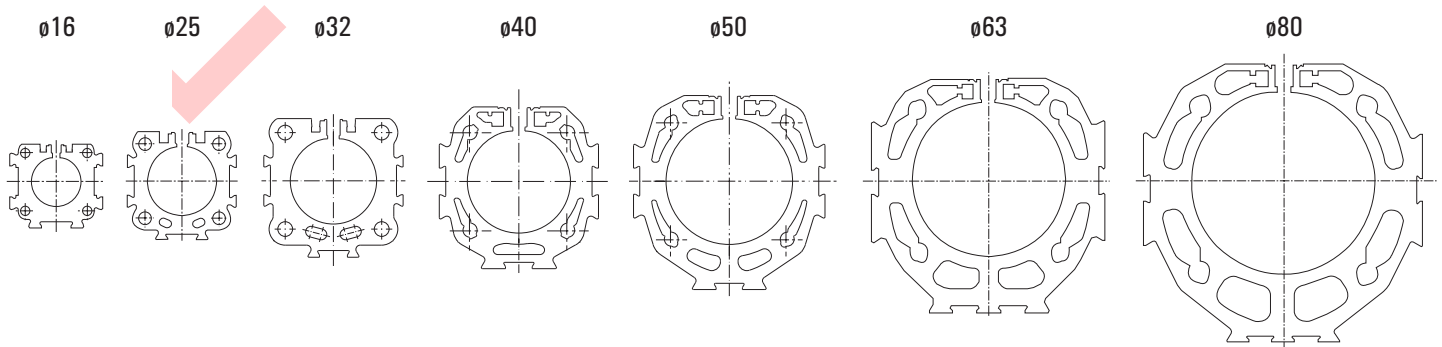
The cylinder can be installed in any position. To prevent contamination such as fluid ingress, the cylinder should be installed with its sealing band facing downwards.

Start up

The products in this data sheet should not be operated until the machine/application in which they are used has passed necessary inspection according to law regulations.

Important: in case of electric arc welding in the area next to the cylinder or on the machine where the cylinder is installed, the cylinder must be insulated and removed. Otherwise the welding causes permanent damage to the cylinder and the warranty expires.

Profilo camicia - Barrel profile



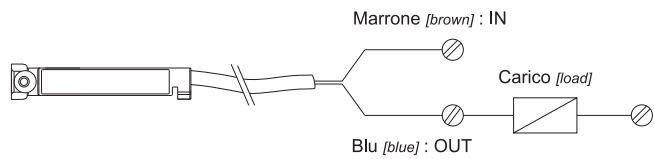
sensori per cilindri

magnetic sensors for cylinders



Schema di collegamento: 2 fili

Wiring diagram: 2 wires



Modello Model	RS1-A	RS2-A	RS5-C	RS3-A	RS4-A
Funzione Function	Reed NA Reed NO	Reed NA Reed NO	Reed NC Reed NC	Reed NA Reed NO	Reed NA Reed NO
Numero fili Number of wires	2	2	2	2	2
Lunghezza cavo Length of wires	standard: 2 m (5 m: RS1-A 5MT)	30 cm	2 m	2 m	30 cm
Connettore Connector	-	M8	-	-	M12
Tensione di esercizio Working tension	5-130V AC-DC	5-50V AC-DC	5-130V AC-DC	5-230V AC-DC	5-230V AC-DC
Corrente massima Max. current	200 mA	200 mA	200 mA	200 mA	200 mA
Potenza massima Max. power	6 W	6 W	6 W	10 W	10 W
Caduta di tensione Tension drop	3 V	3 V	-	3 V	3 V
Segnalazione stato uscita ON Output display ON	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED
Tempo di commutazione ON IN time	0.3 ms max				
Tempo di commutazione OFF OUT time	0.1 ms max				
Frequenza massima di commutazione Max. commutation frequency	400 Hz				
Resistenza di isolamento Insulation resistance	> 100 MΩ				
Resistenza alle vibrazioni Resistance to vibrations	2 kHz				
Vita elettrica: cicli Electric life: cycles	10 ⁷				
Temperatura di esercizio Temperature range	max +60°C				
Cavo tipo CEI 2022 II OR Cable type CEI 2022 II OR	2 x 0.14				
Grado di protezione Protection degree	IP 65				

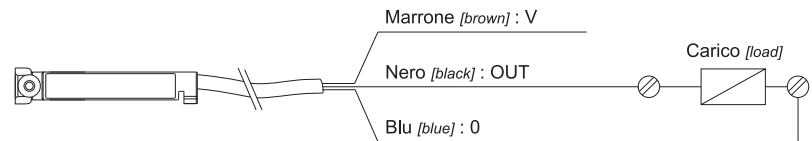
sensori per cilindri

magnetic sensors for cylinders



Schema di collegamento: 3 fili

Wiring diagram: 3 wires



Modello Model	RS6-3F	RS7-3F	SH1-P	SH2-P
Funzione Function	Reed NA Reed NO	Reed NA Reed NO	Hall PNP Hall PNP	Hall PNP Hall PNP
Numero fili Number of wires	3	3	3	3
Lunghezza cavo Length of wires	2 m	30 cm	2 m	30 cm
Connettore Connector	-	M8	-	M8
Tensione di esercizio Working tension	5-30V AC-DC	5-30V AC-DC	5-30V DC	5-30V DC
Corrente massima Max. current	500 mA	500 mA	200 mA	200 mA
Potenza massima Max. power	6 W	6 W	4 W	4 W
Caduta di tensione Tension drop	0.1 V	0.1 V	0.7 V max	0.7 V max
Segnalazione stato uscita ON Output display ON	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED
Tempo di commutazione ON IN time	0.3 ms max		0.8 ms max	
Tempo di commutazione OFF OUT time	0.1 ms max		0.3 ms max	
Frequenza massima di commutazione Max. commutation frequency	400 Hz		1 kHz	
Resistenza di isolamento Insulation resistance	> 100 MΩ		> 100 MΩ	
Resistenza alle vibrazioni Resistance to vibrations	2 kHz		2 kHz	
Vita elettrica: cicli Electric life: cycles	10 ⁷		10 ¹¹	
Temperatura di esercizio Temperature range	max +60°C		max +60°C	
Cavo tipo CEI 2022 II OR Cable type CEI 2022 II OR	3 x 0.14		3 x 0.14	
Grado di protezione Protection degree	IP 65		IP 65	

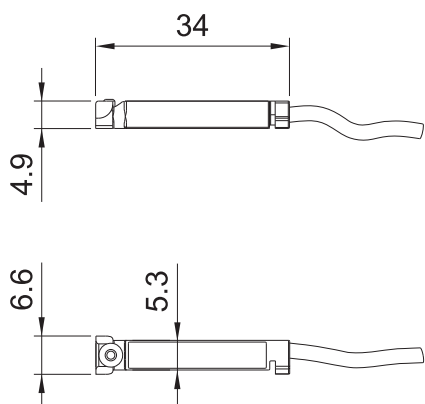
sensori per cilindri

magnetic sensors for cylinders



Dimensioni di ingombro

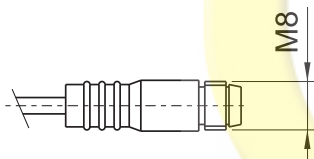
Overall dimensions



Dimensioni e schema connettore

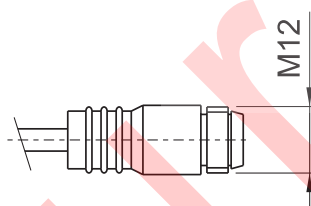
Connector layout and dimensions

RS2-A



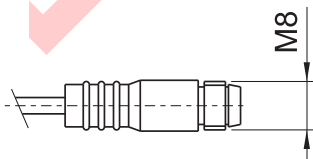
- 1 (marrone - brown) : IN
- 4 (nero - black) : OUT
- 3 (blu - blue) : non utilizzato [unused]

RS4-A



- 1 (marrone - brown) : IN
- 2 (bianco - white) : non utilizzato [unused]
- 3 (blu - blue) : non utilizzato [unused]
- 4 (nero - black) : OUT

RS7-3F SH2-P

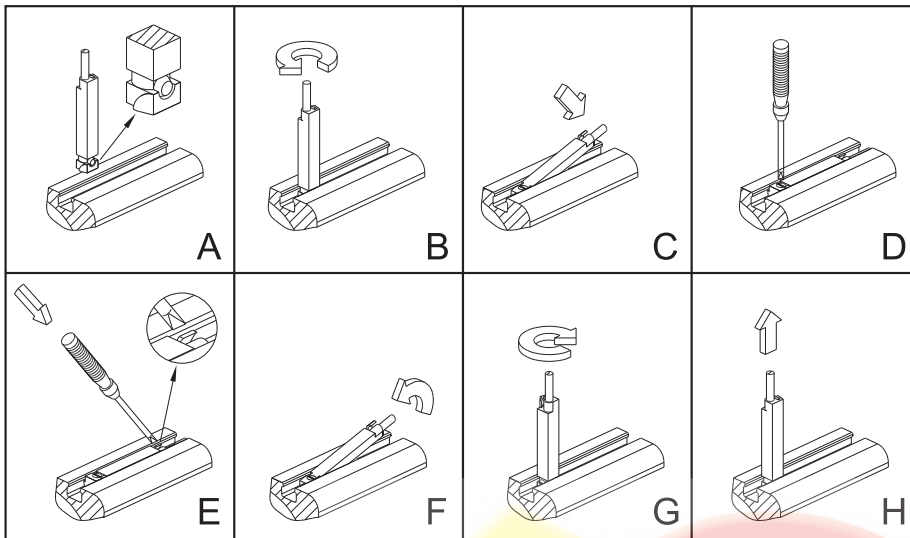


- 1 (marrone - brown) : V+
- 4 (nero - black) : OUT
- 3 (blu - blue) : V-

PROLUNGHE PER CAVO

Extensions for cable

	lunghezza length	codice di ordinazione order code
M8 3x0.25	3 m	26.164.0
	5 m	26.165.0
M12 3x0.34	3 m	26.166.0
	5 m	26.167.0



MONTAGGIO DEI SENSORI SUI CILINDRI ISO 6431

mounting of sensor on cylinders ISO 6431

Istruzioni per l'installazione:

- A. Inserire dall'alto il sensore come indicato in figura
- B. Ruotare di 90° il corpo del sensore
- C. Alloggiare il sensore nella cava tenendo in vista il taglio del grano
- D. Individuare la posizione di lettura, quindi avvitare il grano

Istruzioni per la rimozione:

- E. Una volta allentato il grano, agire sul dentino di blocco posteriore
- F. Contemporaneamente sollevare il sensore aiutandosi con il cavo
- G. Ruotare di 90° il corpo del sensore
- H. Estrarre il sensore dalla cava

Instructions for installation:


- A. Insert the sensor from above as indicated in the image
- B. Rotate the body of the sensor by 90°
- C. Put the sensor in the groove keeping the head of the screw in sight
- D. When the reading position has been found, tighten the screw

Instructions for removal:

- E. Loosen the screw and apply pressure on the back fixing element
- F. At the same time lift the sensor using the cable for help
- G. Rotate the sensor by 90°
- H. Remove the sensor from the groove

UTILIZZO DEI SENSORI E STAFFE DI MONTAGGIO

usage of sensors and mounting brackets

CILINDRO	STAFFA [mounting bracket]
microcilindri ISO 6432 minicylinders ISO 6432	ø10 : 26.039.0 ø12 : 26.040.0 ø16 : 26.041.0 ø20 : 26.042.0 ø25 : 26.229.0
cilindri tondi round cylinders	ø32 : 26.230.0 ø40 : 26.231.0 ø50 : 26.232.0
cilindri compatti compact cylinders	su cava a T : montaggio diretto su cava a coda di rondine : 26.147.0
cilindri corsa breve short stroke cylinders	26.147.0 
cilindri ISO 6431 ø32 ... 125	montaggio diretto direct mounting
cilindri ISO 6431 ø160-200	26.219.2
cilindri ad asta gemellata twin rod cylinders	montaggio diretto direct mounting

La tabella a lato indica per quali tipi di cilindro si possono utilizzare i sensori di cui alle pagine 532-533, specifica se e quali staffe di montaggio devono essere utilizzate e ne fornisce il codice di ordinazione. Le staffe di montaggio vanno ordinate separatamente.

I nostri sensori possono essere utilizzati anche su cilindri con profilo diverso dal nostro standard. Per le staffe di fissaggio vedi pagina seguente.

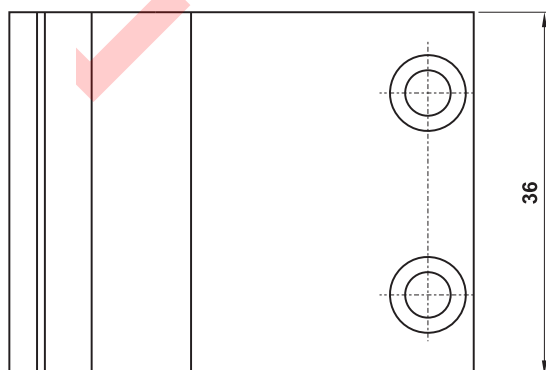
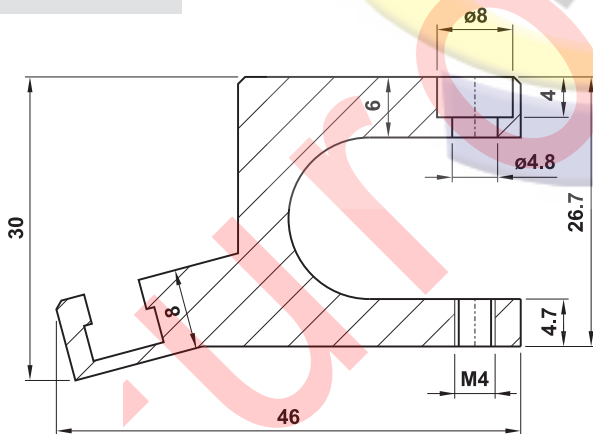
The table shows for which types of cylinder the sensors on pages 532-533 can be used. It indicates also whether a mounting bracket must be used, and gives the order code. Mounting brackets must be ordered separately.

Our sensors can be mounted also on cylinders with profile different from our standard. For mounting brackets see the following page.

staffa per cilindri ISO 6431 ø160-200

mounting bracket for cylinders ISO 6431 ø160-200

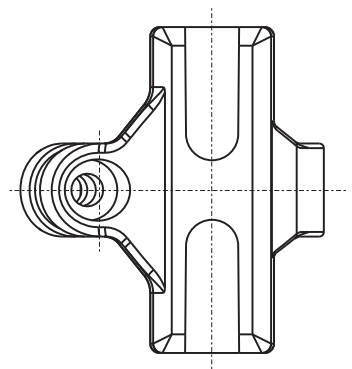
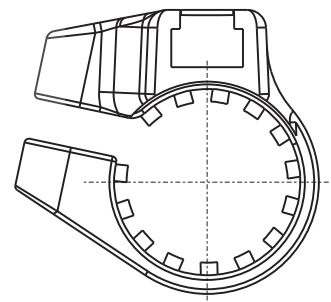
26.219.2



staffe per microcilindri ISO 6432

mounting brackets for minicylinders ISO 6432

ø10 : 26.039.0
 ø12 : 26.040.0
 ø16 : 26.041.0
 ø20 : 26.042.0
 ø25 : 26.229.0

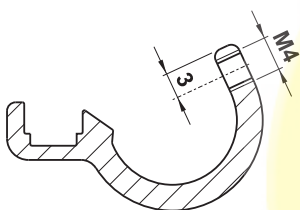
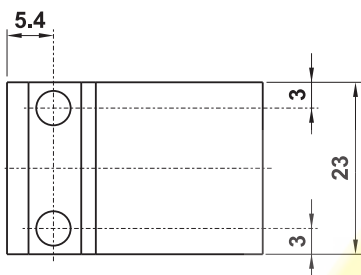
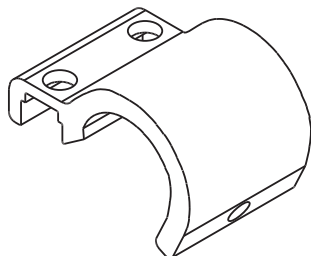


staffe per cilindri con profilo Mickey Mouse

mounting brackets for cylinders with Mickey Mouse profile

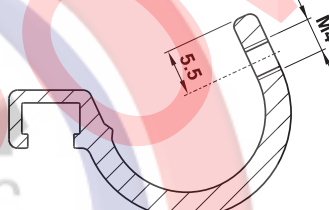
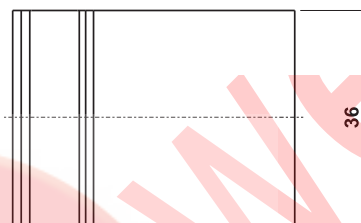
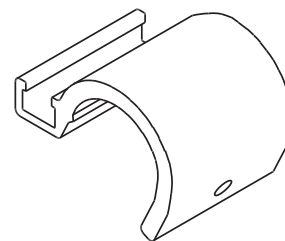
26.194.0

ø32 ... 63



26.145.0

ø80-100

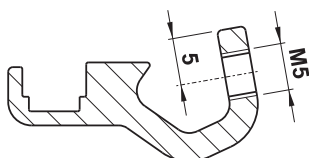
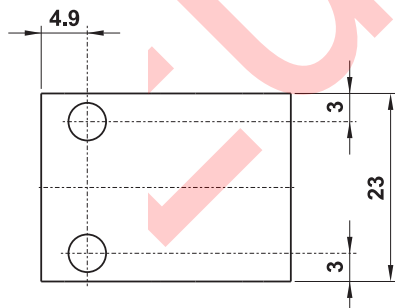
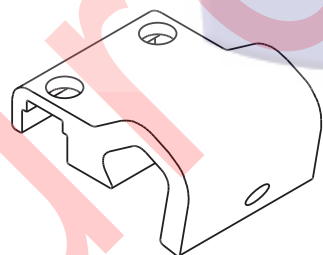


staffe per cilindri con tubo tondo e tiranti

mounting brackets for cylinders with round profile and tie-rods

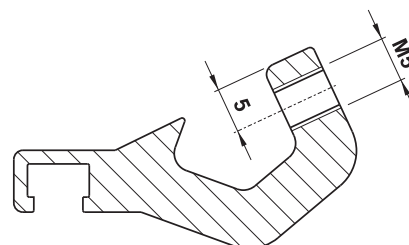
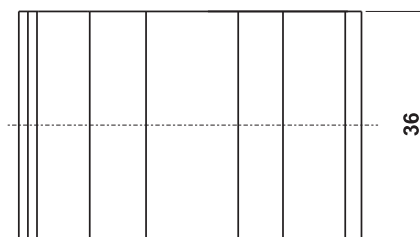
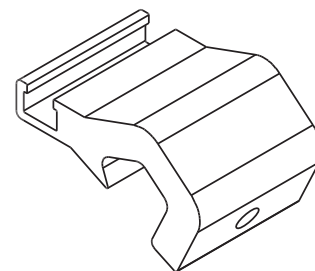
26.195.0

ø32 ... 63



26.196.0

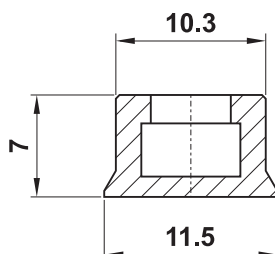
ø80-100



staffe per cilindri senza stelo

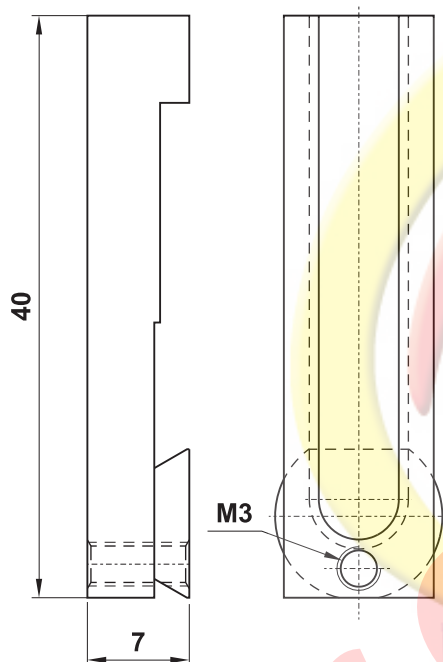
mounting brackets for rodless cylinders

35.048.2



Per il montaggio sul profilo camicia inserire prima la staffa nella apposita cava porta sensore e quindi inserire il sensore nella staffa bloccandolo con il grano.

To assemble the sensor in the cylinder profile, insert first the bracket in the profile groove, and then insert the sensor in the bracket. Fix the sensor by the nut.



	pagina page
• Informazioni tecniche <i>Technical information</i>	540
• Filtri separatori <i>Filter-water-separators</i>	544
• Microfiltri-depuratori <i>Sub-micro-filters</i>	552
• Filtri a carbone attivo <i>Activated carbon filters</i>	554
• Regolatori di pressione <i>Pressure regulators</i>	557
• Lubrificatori <i>Lubricators</i>	574
• Filtroregolatori <i>Filter-regulators</i>	582
• Gruppi trattamento aria FR+L <i>FR+L air preparation units</i>	590
• Gruppi trattamento aria FRL <i>FRL air preparation units</i>	598
• Valvole di sezionamento circuito, di scarico rapido e avviatore progressivo <i>Shut-off valves, quick exhaust valves and slow-start valve</i>	606
• Regolatore proporzionale elettronico <i>Electronically controlled proportional pressure regulator</i>	620
• Accessori e ricambi <i>Accessories and spare parts</i>	626
• Novità 2012 - nuova serie gruppi trattamento aria G1/2" <i>New range air preparation units G1/2"</i>	641

NOTE GENERALI

I gruppi trattamento aria AZ Pneumatica sono il frutto di una costante attività di ricerca e analisi che ha portato a un prodotto che si adatta perfettamente alle richieste dell'utilizzatore finale. Sono disponibili regolatori e filtroregolatori con diversi livelli di pressione e grado di filtraggio; lubrificatori con bassa pressione di inserzione; valvole di sezionamento circuito e avviatori progressivi che permettono di completare il gruppo soddisfacendo le più svariate necessità applicative.

GENERAL NOTES

The FRL units AZ Pneumatica are the result of a specialized research activity aiming at user-oriented solutions. Regulators, filters and filter-regulators are available with different levels of pressure range and filter element. Lubricators guarantee low start flow rates and constant performances. Some accessories (slow-start valve and shut-off valve) can extend the choice in order to solve any kind of problem.

Grandi prestazioni

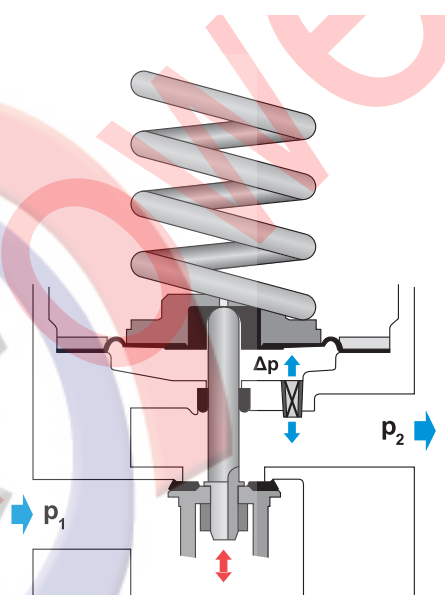
L'enorme potenziale di rendimento è il risultato di una costruzione semplice e ottimizzata: l'attenzione posta nella progettazione di particolari importanti quali la membrana e la valvola di compensazione garantisce funzionalità, stabilità e alto rendimento. La tecnologia impiegata consente una perfetta compensazione della portata garantendo un valore di isteresi ottimale con una ridottissima differenza di pressione tra lo scarico della sovrappressione (relieving) e la pressione di esercizio.

Analoghi risultati si ottengono, nella versione miniaturizzata da G1/4", con un sistema di regolazione a pistone.

High performances

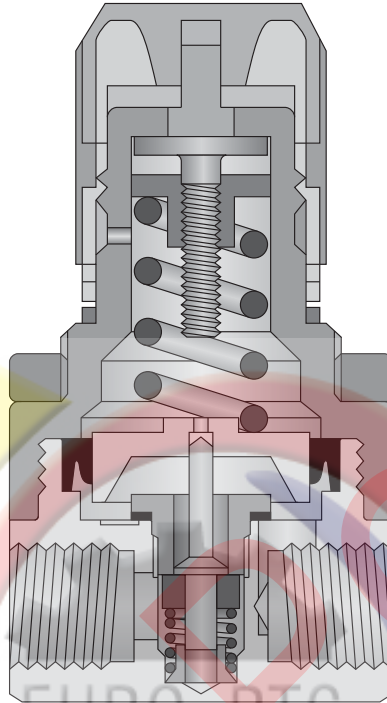
Thanks to a good research, the building concept of our components (diaphragm, balanced valves, etc.) can guarantee stability, high flow rates, reliability. Very low hysteresis has been obtained with a good compensation between relieving and working pressure.

Small-sized regulators (G1/4" ports) can offer similar results with a piston based regulation system.



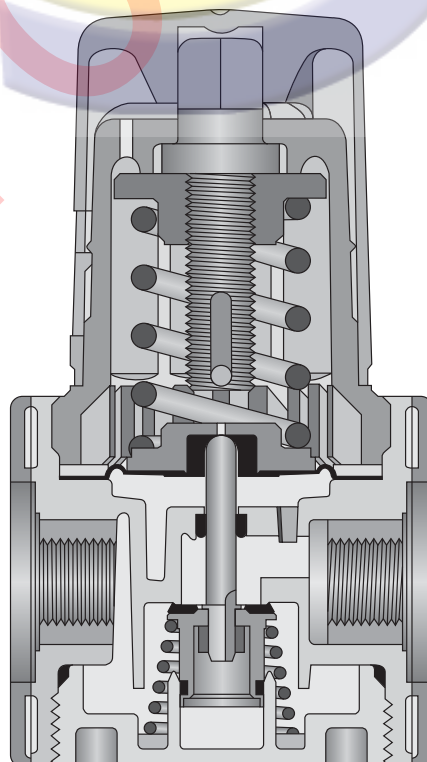
SISTEMA DI REGOLAZIONE A PISTONE

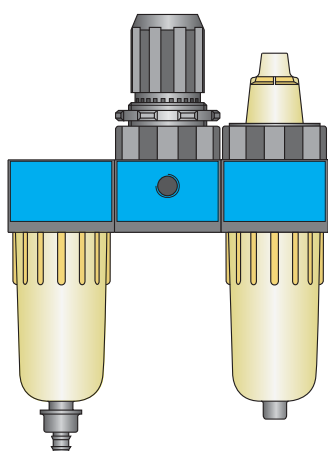
piston based regulation system



SISTEMA DI REGOLAZIONE A MEMBRANA

diaphragm based regulation system

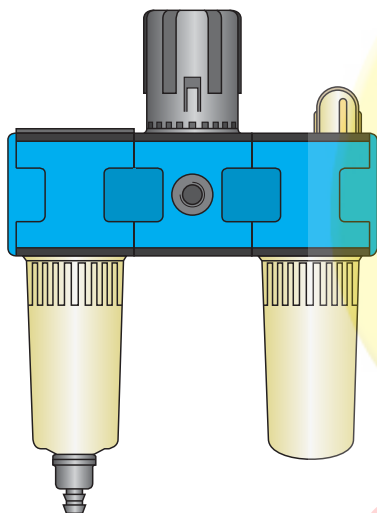




G1/4"

- Gamma miniaturizzata
- Portata: 600 NI/min
- Pressione di esercizio: 0 ... 8 bar
0 ... 0.8 MPa
- Tazza trasparente in polimero rinforzato
- Scarico semiautomatico della condensa
- Microfiltri ad elevate prestazioni
- Accessori assemblabili a richiesta

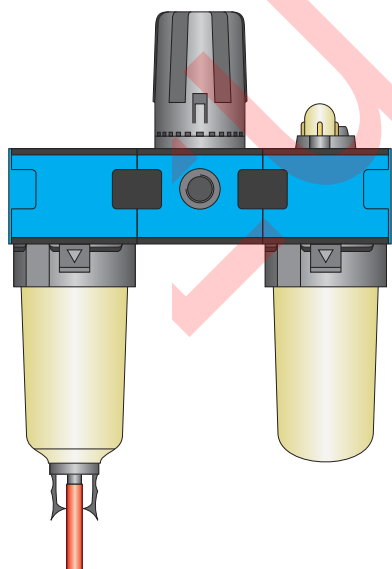
- *Very small dimensions*
- *Flow rate: 600 NI/min*
- *Working pressure: 0 ... 8 bar
0 ... 0.8 MPa*
- *Transparent bowl in reinforced polymer*
- *Semi-automatic moisture exhaust*
- *Sub-micro-filters with high performances*
- *Accessories on request*



G3/8"

- Elevata modularità
- Portata: 1000 NI/min
- Pressione di esercizio: 0 ... 8 bar
0 ... 0.8 MPa
- Tazza trasparente con protezione a richiesta
- Scarico semiautomatico della condensa
(a richiesta scarico automatico)
- Microfiltri ad elevate prestazioni
- Accessori assemblabili a richiesta

- *High modularity*
- *Flow rate: 1000 NI/min*
- *Working pressure: 0 ... 8 bar
0 ... 0.8 MPa*
- *Transparent bowl with protection on request*
- *Semi-automatic moisture exhaust
(on request automatic exhaust)*
- *Sub-micro-filters with high performances*
- *Accessories on request*

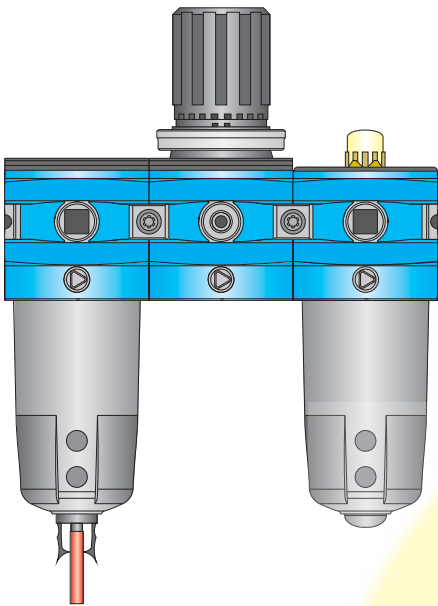


G1/2"

- Elevata modularità
- Portata: 2000 NI/min
- Pressione di esercizio: 0 ... 8 bar
0 ... 0.8 MPa
- Tazza trasparente con protezione a richiesta
- Scarico semiautomatico della condensa
(a richiesta scarico automatico)
- Microfiltri ad elevate prestazioni
- Accessori assemblabili a richiesta

- *High modularity*
- *Flow rate: 2000 NI/min*
- *Working pressure: 0 ... 8 bar
0 ... 0.8 MPa*
- *Transparent bowl with protection on request*
- *Semi-automatic moisture exhaust
(on request automatic exhaust)*
- *Sub-micro-filters with high performances*
- *Accessories on request*

NUOVA SERIE A PARTIRE DAL 2012 (vedi pag. 642-655)
NEW SERIES FROM YEAR 2012 (see pages 642-655)



G1"

- Elevata modularità
- Portata: 7000 NI/min
- Pressione di esercizio: 0 ... 12 bar
0 ... 1.2 MPa
- Tazza metallica
- Scarico semiautomatico della condensa
(a richiesta scarico automatico)
- Accessori assemblabili a richiesta

- High modularity
- Flow rate: 7000 NI/min
- Working pressure: 0 ... 12 bar
0 ... 1.2 MPa
- Metal bowl
- Semi-automatic moisture exhaust
(on request automatic exhaust)
- Accessories on request

EURO-PTC

filtro separatore G1/4"

G1/4" filter-water-separator

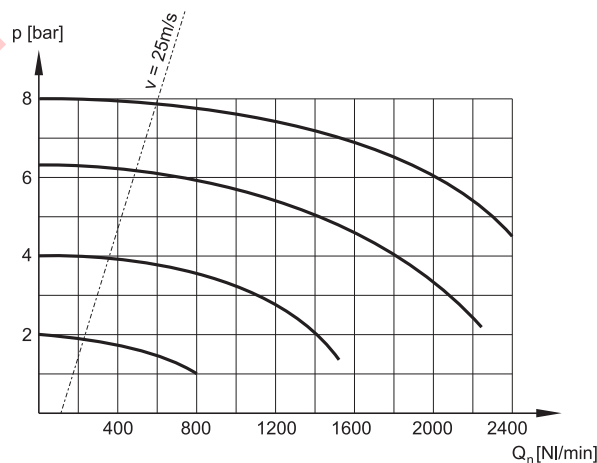


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa
Semi-automatic moisture exhaust
- Capacità della tazza: 12 cm³
Bowl capacity: 12 cm³
- Protezione in plastica della tazza a richiesta (cod. PR 2-00)
Plastic bowl protection on request (code PR 2-00)
- Installazione verticale
Vertical installation



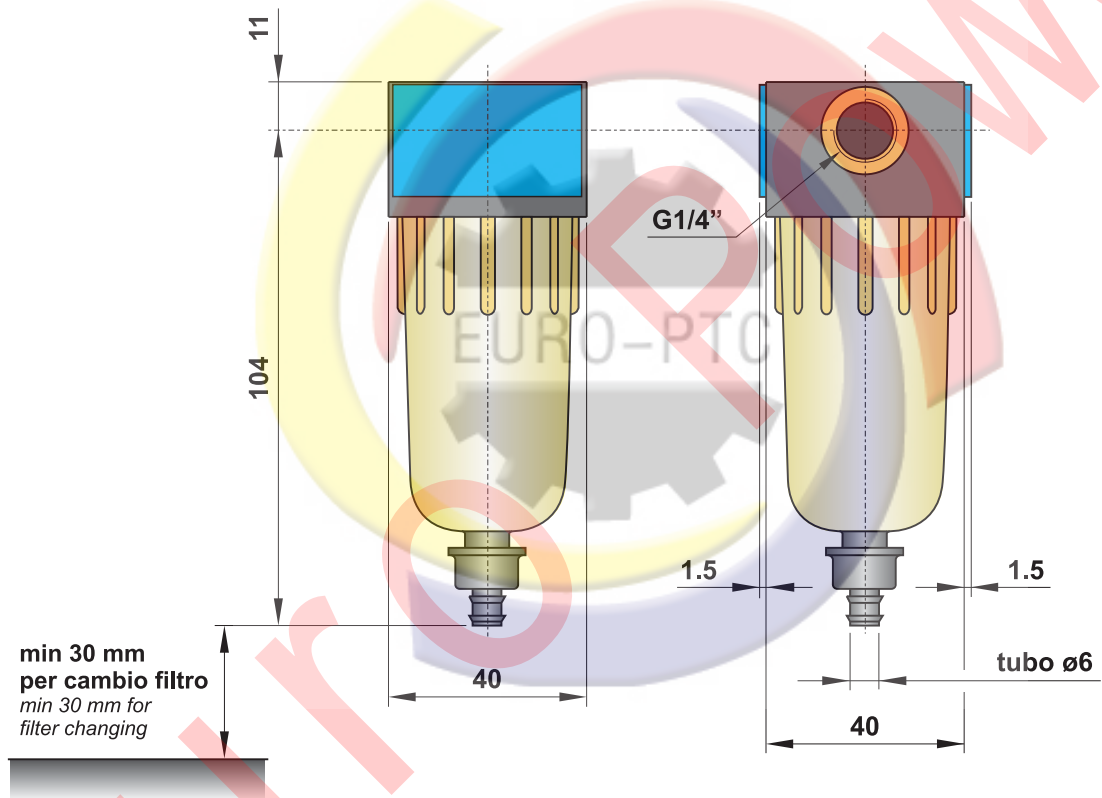
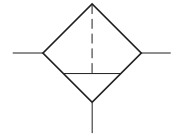
CODICE DI ORDINAZIONE ORDER CODE		FIL 2-25-S	FIL 2-05-S
Attacchi <i>Parts</i>		G1/4"	G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C
Peso <i>Weight</i>		0.1 kg	0.1 kg
Pressione di esercizio <i>Working pressure range</i>		0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	550 NI/min (max 1830 NI/min)	550 NI/min (max 1830 NI/min)
Elemento filtrante <i>Filter element</i>		25 μm	5 μm

Caratteristiche di portata
Flow characteristics



filtro separatore G1/4"

G1/4" filter-water-separator



min 30 mm
per cambio filtro
min 30 mm for
filter changing

Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Tazza: policarbonato rinforzato

Materials

Body: reinforced polymer with brass thread inserts

Seals: NBR

Internal parts: brass, stainless steel and polymer

Bowl: reinforced polycarbonate

filtro separatore G3/8"

G3/8" filter-water-separator

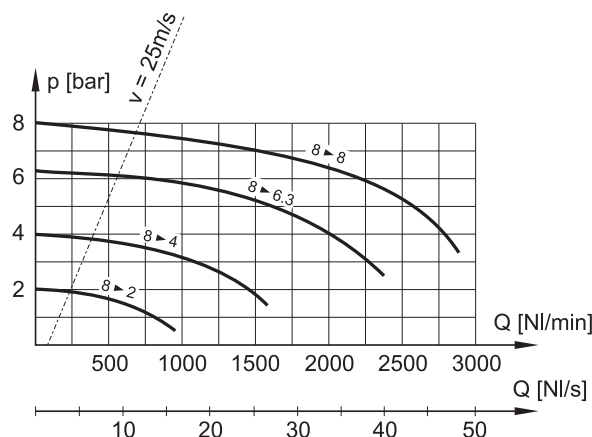


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico della condensa semiautomatico o automatico
Semi-automatic or automatic moisture exhaust
- Capacità della tazza: 22 cm³
Bowl capacity: 22 cm³
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3)
Vertical installation; bracket on request (code STF 3)
- Protezione metallica della tazza a richiesta (cod. PR 3-00)
Metal bowl protection on request (code PR 3-00)



CODICE DI ORDINAZIONE ORDER CODE		FIL 3-30-S	FIL 3-30-A	FIL 3-05-S
Attacchi Ports		G3/8"	G3/8"	G3/8"
Scarico della condensa Moisture exhaust		semiautomatico <i>semi-automatic</i>	automatico <i>automatic</i>	semiautomatico <i>semi-automatic</i>
Temperatura di esercizio Temperature range		max +50°C	max +50°C	max +50°C
Peso Weight		0.25 kg	0.25 kg	0.25 kg
Pressione di esercizio Working pressure range	p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata Recommended flow rate	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n 850 NI/min	850 NI/min	850 NI/min
Portata massima Maximum flow rate	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max} 1520 NI/min	1520 NI/min	1520 NI/min
Elemento filtrante Filter element		30 μm	30 μm	5 μm

Caratteristiche di portata
Flow characteristics

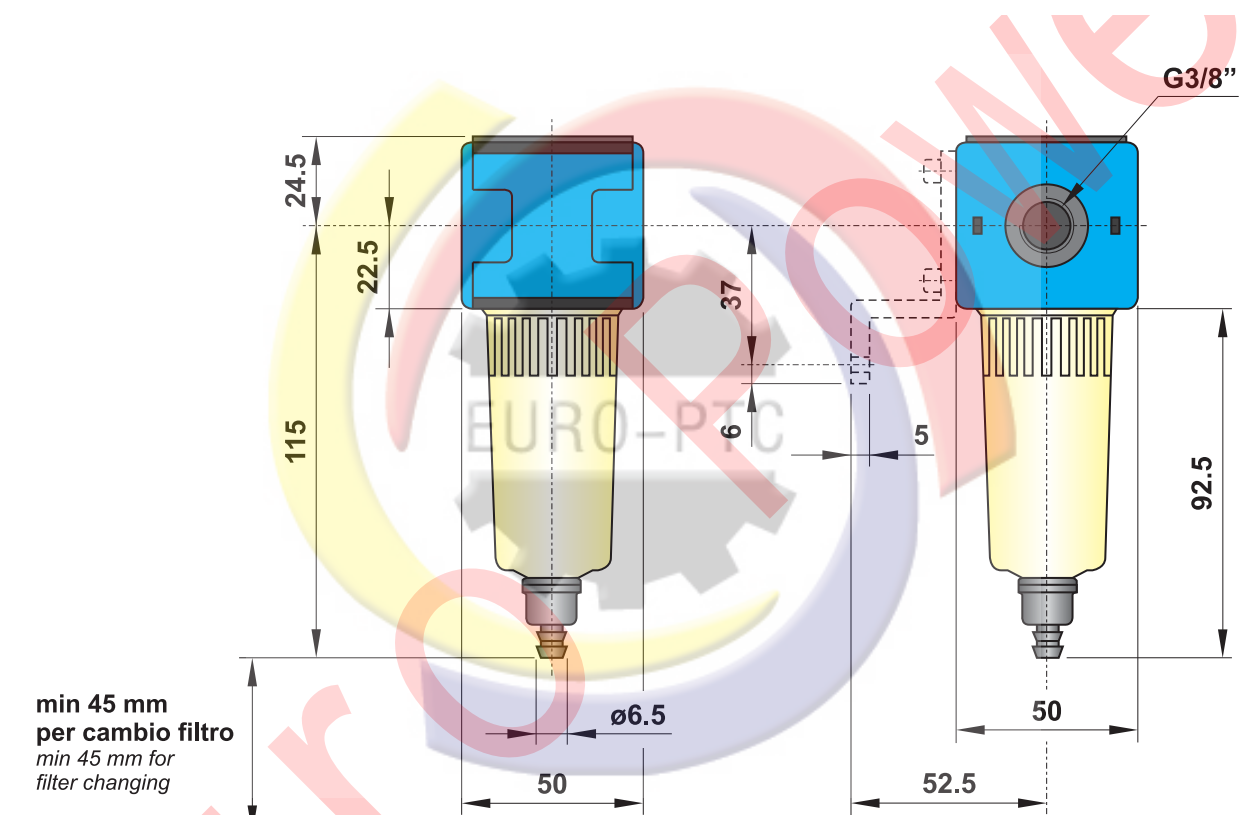
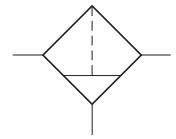


filtro separatore G3/8"

G3/8" filter-water-separator



La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

filtro separatore G1/2"

G1/2" filter-water-separator

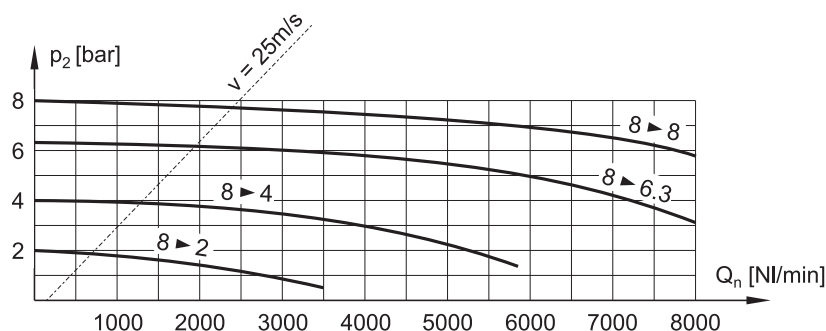


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico della condensa semiautomatico o automatico
Semi-automatic or automatic moisture exhaust
- Capacità della tazza: 57 cm³
Bowl capacity: 57 cm³
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)
- Protezione metallica della tazza a richiesta (cod. PR 4-00)
Metal bowl protection on request (code PR 4-00)



CODICE DI ORDINAZIONE ORDER CODE			FIL 4-30-S	FIL 4-30-A	FIL 4-05-S
Attacchi <i>Ports</i>			G1/2"	G1/2"	G1/2"
Scarico della condensa <i>Moisture exhaust</i>			semiautomatico <i>semi-automatic</i>	automatico <i>automatic</i>	semiautomatico <i>semi-automatic</i>
Temperatura di esercizio <i>Temperature range</i>			max +50°C	max +50°C	max +50°C
Peso <i>Weight</i>			0.55 kg	0.55 kg	0.55 kg
Pressione di esercizio <i>Working pressure range</i>		p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min	1900 NI/min	1900 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max}	5000 NI/min	5000 NI/min	5000 NI/min
Elemento filtrante <i>Filter element</i>			30 μm	30 μm	5 μm

Caratteristiche di portata
Flow characteristics

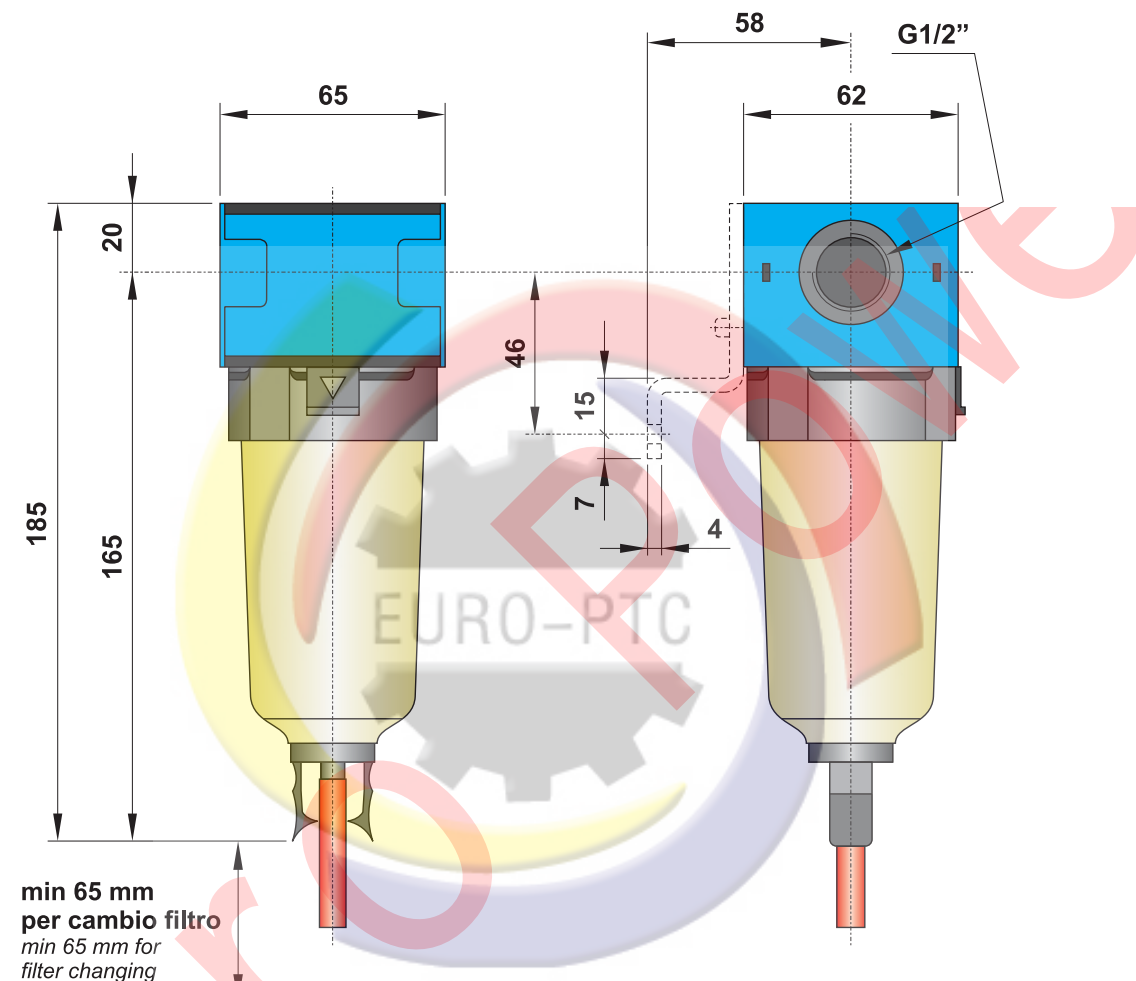
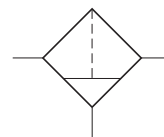


filtro separatore G1/2"

G1/2" filter-water-separator



La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

filtro separatore G1"

G1" filter-water-separator

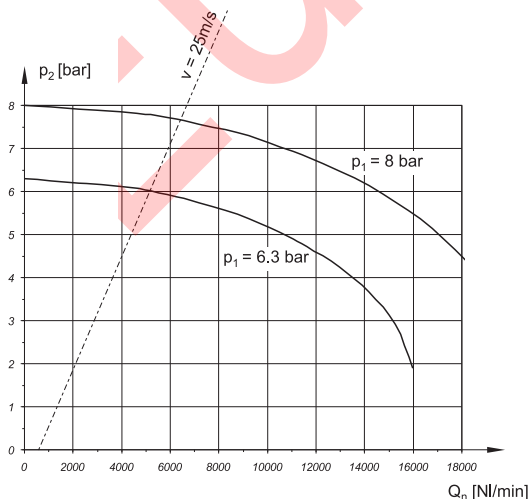


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico della condensa semiautomatico o automatico
Semi-automatic or automatic moisture exhaust
- Capacità della tazza: 130 cm³
Bowl capacity: 130 cm³
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N)
Vertical installation; brackets on request (code STF 6N)
- Tazza metallica
Metal bowl

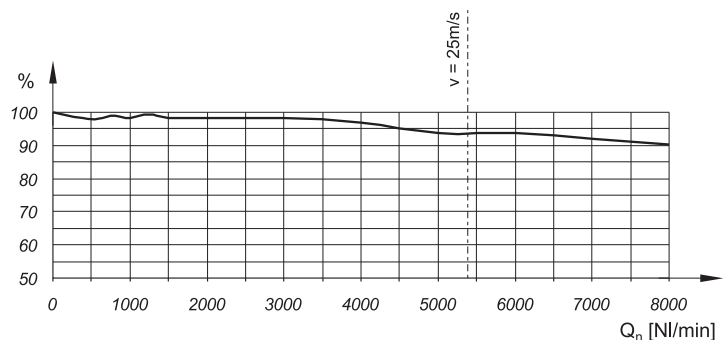


CODICE DI ORDINAZIONE ORDER CODE		FIL 6N-30-S	FIL 6N-30-A	FIL 6N-05-S
Attacchi Parts		G1"	G1"	G1"
Scarico della condensa Moisture exhaust		semiautomatico semi-automatic	automatico automatic	semiautomatico semi-automatic
Temperatura di esercizio Temperature range		max +50°C	max +50°C	max +50°C
Peso Weight		0.9 kg	0.9 kg	0.9 kg
Pressione di esercizio Working pressure range		p_{min} 0 bar; 0 MPa p_{max} 17.5 bar; 1.75 MPa	0 bar; 0 MPa 17.5 bar; 1.75 MPa	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Portata massima Maximum flow rate	$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{max} 10000 NI/min	10000 NI/min	10000 NI/min
Elemento filtrante Filter element		30 μm	30 μm	5 μm

Caratteristiche di portata
Flow characteristics



Grado di separazione condensa con $p_1 = 6.3 \text{ bar}$ costante
Moisture separation with $p_1 = 6.3 \text{ bar}$ constant

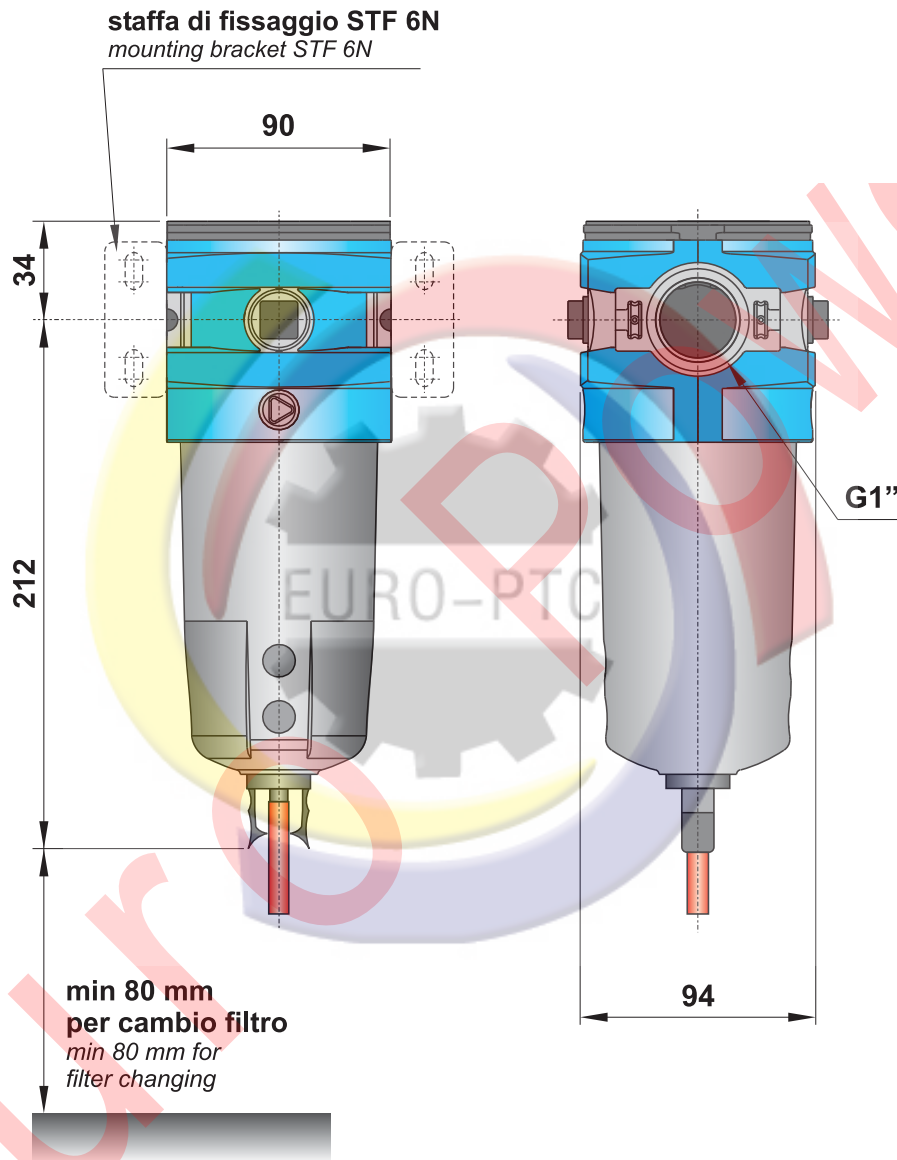
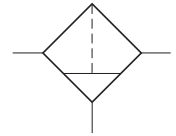


filtro separatore G1"

G1" filter-water-separator



Le staffe di fissaggio devono essere acquistate separatamente.
Mounting brackets are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: metallica

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: metal

microfiltri-depuratori

sub-micro-filters



- Elementi filtranti speciali ad altissime prestazioni
Special filter elements with very high performances
- Grado di filtrazione: 99.999%
Degree of filtration: 99.999%
- Olio residuo: 0.01 mg/m³ (concentrazione in entrata: 3 mg/m³)
Residual oil: 0.01 mg/m³ (input concentration: 3 mg/m³)
- Scarico manuale della condensa
Manual moisture exhaust
- Installazione verticale
Vertical installation
- Protezione metallica della tazza a richiesta
Metal bowl protection on request



Materiali

Corpo: alluminio pressofuso (per G1/4": polimero rinforzato)

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium (for G1/4": reinforced polymer)

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

CODICE DI ORDINAZIONE ORDER CODE			MFIL 2-S	MFIL 3-S	MFIL 4-S	MFIL 6N-S
Attacchi Ports			G1/4"	G3/8"	G1/2"	G1"
Temperatura di esercizio Temperature range			max +50°C	max +50°C	max +50°C	max +50°C
Peso Weight			0.1 kg	0.3 kg	0.6 kg	1.5 kg
Pressione di esercizio Working pressure range		P_{min} P_{max}	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 12 bar; 1.2 MPa
Portata raccomandata Recommended flow rate		Q_n	350 NI/min	580 NI/min	1070 NI/min	3850 NI/min
Caduta di pressione a filtro nuovo Pressure drop with new filter element			0.1 bar	0.1 bar	0.1 bar	0.1 bar
Caduta di pressione a filtro saturo Pressure drop with saturated filter element			0.3 bar	0.3 bar	0.3 bar	0.3 bar

microfiltri-depuratori

sub-micro-filters

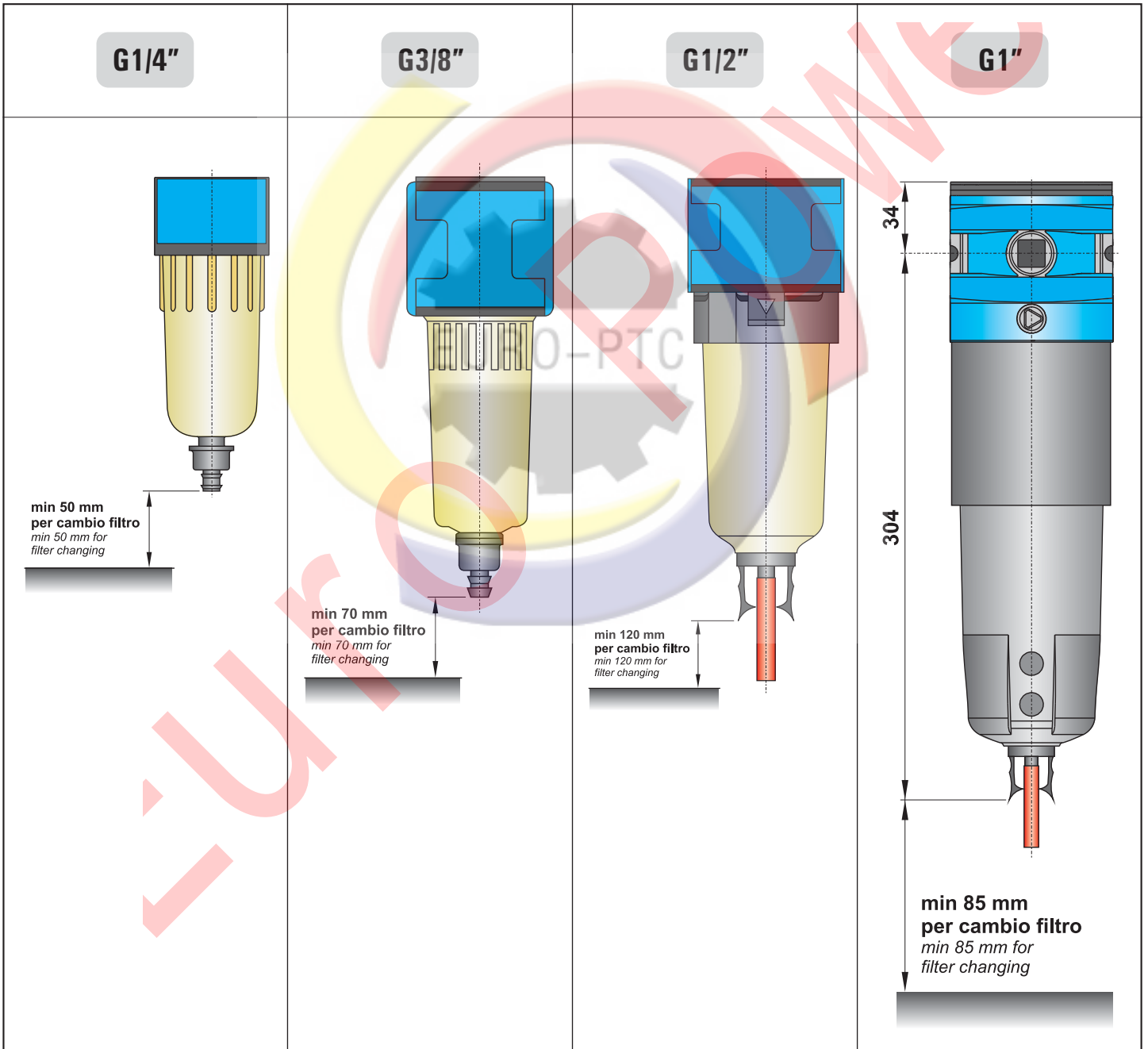
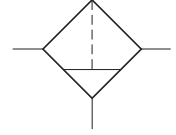
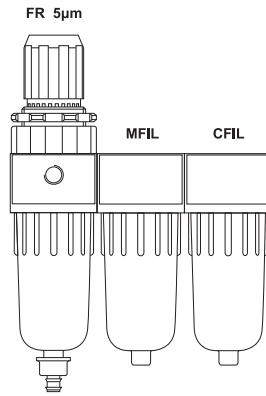


Procedura per l'installazione

Per favorire la durata degli elementi filtranti raccomandiamo di installare, in serie, un filtro-regolatore da 5 μm , un microfiltro e un filtro a carbone attivo.

Installation procedure

To increase the life span of the filter elements, we recommend the installation in the following order: filter with 5 μm degree, sub-micro-filter and activated carbon filter.



Per le altre dimensioni si vedano le pagine dei filtri corrispondenti (G1/4": pag. 545; G3/8": pag. 547; G1/2": pag. 549; G1": pag. 551).
For other dimensions refer to the corresponding filters (G1/4": page 545; G3/8": page 547; G1/2": page 549; G1": page 551).

filtri a carbone attivo

activated carbon filters



- Elementi filtranti speciali a carbone attivo
Activated carbon filter elements
- Olio residuo: 0.003 p.p.m. in combinazione con microfiltro
Residual oil: 0.003 p.p.m. in combination with sub-micro-filter
- Scarico manuale della condensa
Manual moisture exhaust
- Installazione verticale
Vertical installation
- Protezione metallica della tazza a richiesta
Metal bowl protection on request



Materiali

Corpo: alluminio pressofuso (per G1/4": polimero rinforzato)

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium (for G1/4": reinforced polymer)

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

CODICE DI ORDINAZIONE <i>ORDER CODE</i>			CFIL 2-S	CFIL 3-S	CFIL 4-S	CFIL 6N-S
Attacchi <i>Ports</i>			G1/4"	G3/8"	G1/2"	G1"
Temperatura di esercizio <i>Temperature range</i>			max +40°C	max +40°C	max +40°C	max +40°C
Peso <i>Weight</i>			0.1 kg	0.3 kg	0.6 kg	1.5 kg
Pressione di esercizio <i>Working pressure range</i>		P_{min} P_{max}	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 12 bar; 1.2 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	350 NI/min	580 NI/min	1070 NI/min	3850 NI/min
Caduta di pressione a filtro nuovo <i>Pressure drop with new filter element</i>			0.1 bar	0.1 bar	0.1 bar	0.1 bar
Caduta di pressione a filtro saturo <i>Pressure drop with saturated filter element</i>			0.3 bar	0.3 bar	0.3 bar	0.3 bar

filtri a carbone attivo

activated carbon filters

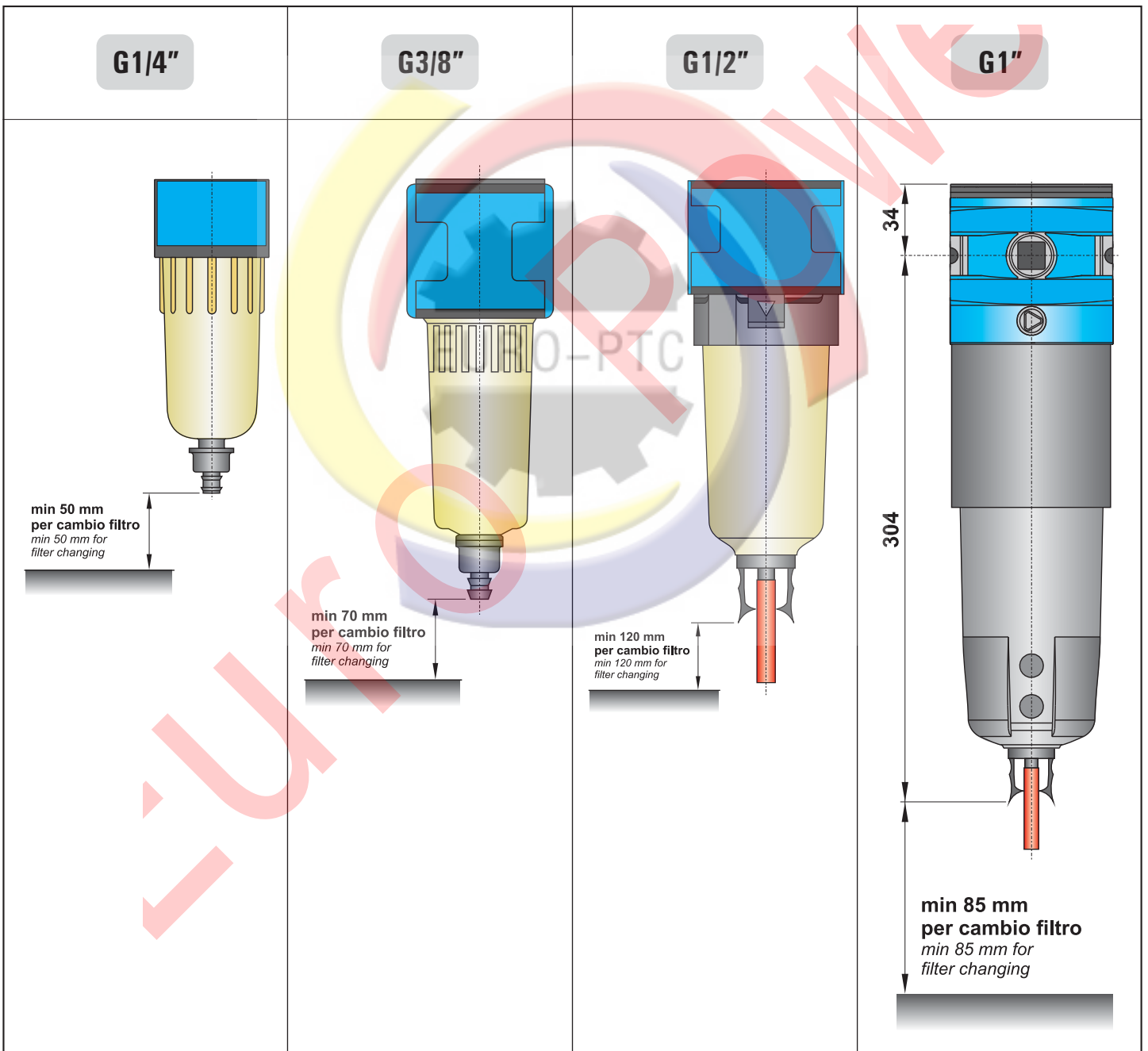
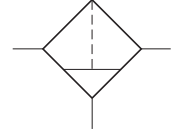
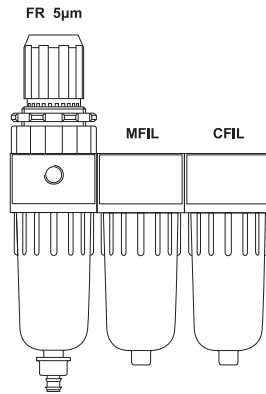


Procedura per l'installazione

Per favorire la durata degli elementi filtranti raccomandiamo di installare, in serie, un filtro-regolatore da 5 μm , un microfiltro e un filtro a carbone attivo.

Installation procedure

To increase the life span of the filter elements, we recommend the installation in the following order: filter with 5 μm degree, sub-micro-filter and activated carbon filter.



Per le altre dimensioni si vedano le pagine dei filtri corrispondenti (G1/4": pag. 545; G3/8": pag. 547; G1/2": pag. 549; G1": pag. 551).
For other dimensions refer to the corresponding filters (G1/4": page 545; G3/8": page 547; G1/2": page 549; G1": page 551).



EURO-PTC

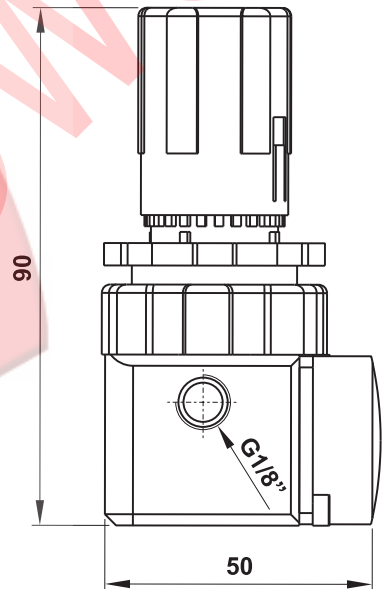
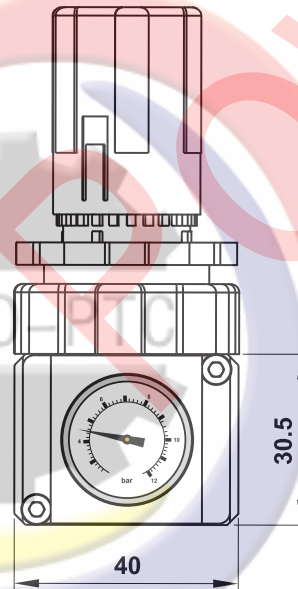
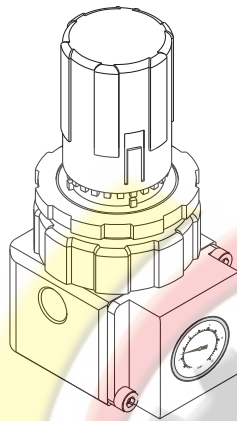
7

mini-regolatore di pressione con manometro

mini pressure regulator with manometer



- Regolatore a pistone con valvola di scarico sovrappressione (relieving)
Piston-type pressure regulator with relieving
- Corpo in alluminio 11S
Body in aluminium 11S
- Manometro incorporato
Manometer already present in the regulator body
- Installazione in linea o a pannello
In-line or panel mounting



Materiali

Corpo: alluminio 11S anodizzato naturale

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Materials

Body: aluminium 11S (natural anodize treatment)

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

CODICE DI ORDINAZIONE ORDER CODE		16.082.4	
Attacchi Ports		G1/8"	
Temperatura di esercizio Temperature range		max +50°C	
Peso Weight		190 g	
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 10 bar; 1 MPa	
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa	
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6	
Portata raccomandata Recommended flow rate	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	300 NI/min
Portata massima Maximum flow rate	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max}	550 NI/min

mini-regolatore di pressione

mini pressure regulator

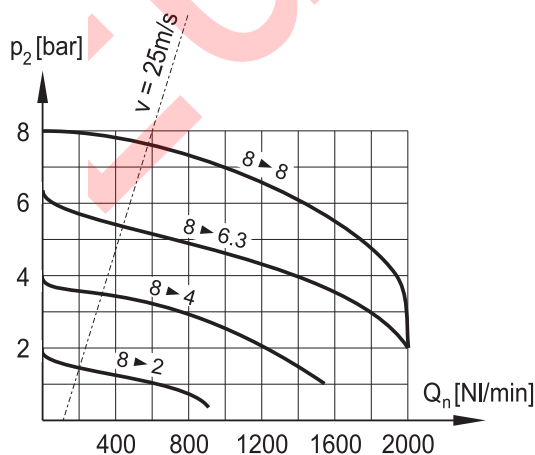


- Regolatore a pistone con valvola di scarico sovrappressione (relieving)
Piston-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Corpo in alluminio 11S
Body in aluminium 11S
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello
In-line or panel mounting

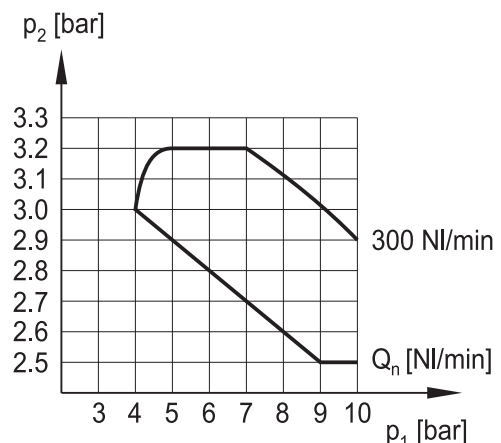


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		MREG 1-08	MREG 2-08	MREG 2-04
Attacchi <i>Ports</i>		G1/8"	G1/4"	G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C	max +50°C
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 4 bar; 0.4 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6	1.6 0.6	1.6 0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	300 NI/min	550 NI/min

Caratteristiche di portata (MREG 2-08)
Flow characteristics (MREG 2-08)



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione (MREG 2-08)
Outlet pressure variation with fluctuating inlet pressure (MREG 2-08)

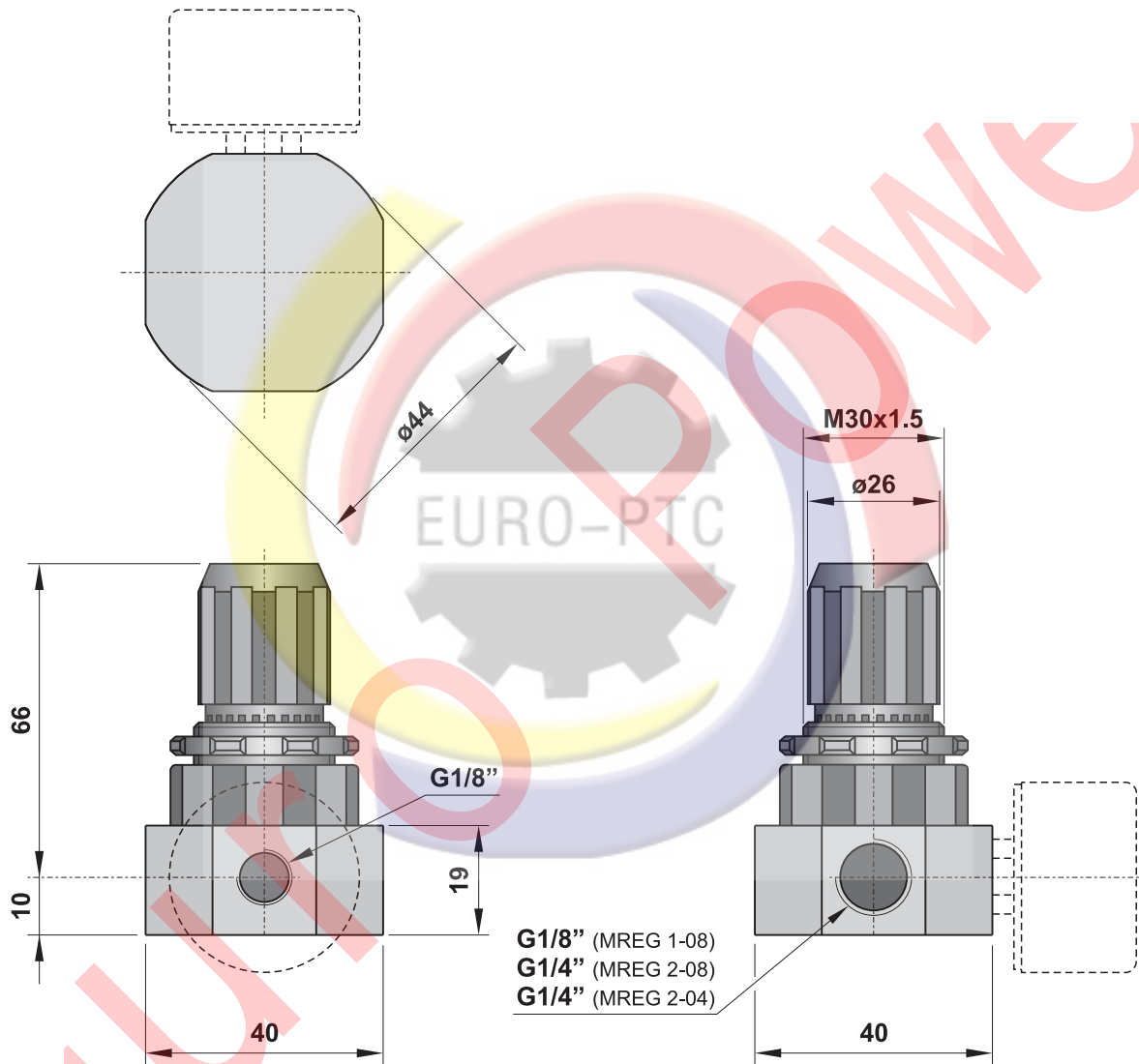
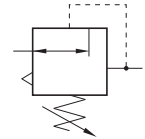


mini-regolatore di pressione

mini pressure regulator



Il manometro deve essere acquistato separatamente.
The manometer is bought separately.



Materiali

Corpo: alluminio 11S anodizzato naturale

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Materials

Body: aluminium 11S (natural anodize treatment)

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

mini-regolatore di pressione con by-pass

mini pressure regulator with by-pass

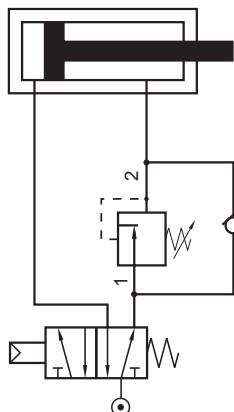


- Regolatore a pistone
Piston-type pressure regulator
- Con valvola di non ritorno per scavalcare il regolatore nel senso da 2 a 1
With non-return valve to by-pass the regulator in direction from 2 to 1
- Corpo in alluminio 11S
Body in aluminium 11S
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello
In-line or panel mounting



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		16.070.4	16.071.4
Attacchi <i>Ports</i>		G1/4"	G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.2 bar; 0.02 MPa 1 bar; 0.1 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.1 bar; 0.01 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$	1.6	1.6
	$p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.6	0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	550 NI/min
Portata 2 \Rightarrow 1 <i>Flow rate 2 \Rightarrow 1</i>	$p = 6 \text{ bar}; \Delta p = 1 \text{ bar}$		180 NI/min

schema applicativo
application sketch



Ideale per l'applicazione tra cilindro e valvola di comando
Ideal for use between cylinder and valve

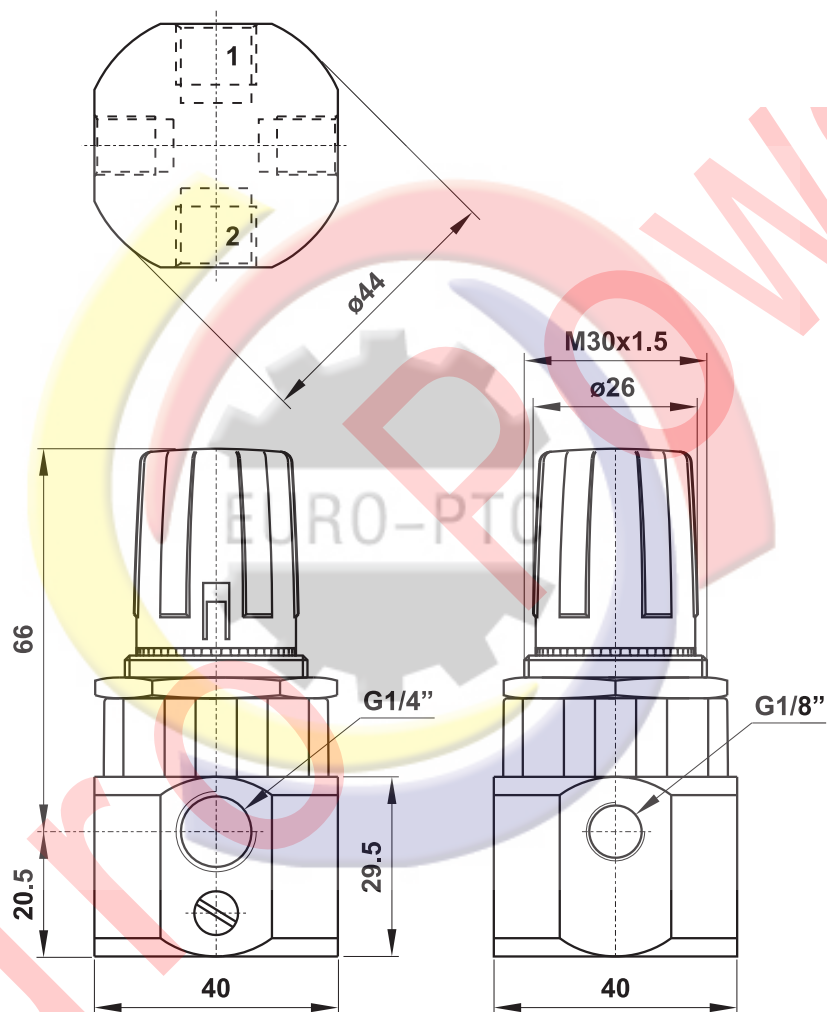
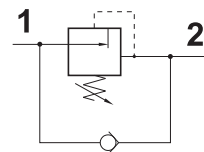
mini-regolatore di pressione con by-pass

mini pressure regulator with by-pass



Il manometro deve essere acquistato separatamente.

The manometer is bought separately.



Materiali

Corpo: alluminio 11S anodizzato naturale

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Materials

Body: aluminium 11S (natural anodize treatment)

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

regolatore di pressione G1/4"

G1/4" pressure regulator

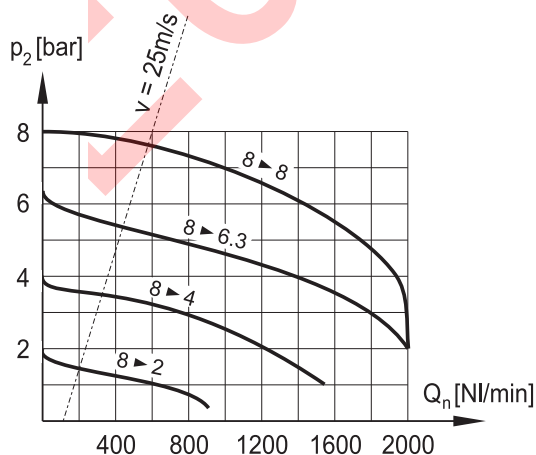


- Regolatore a pistone con valvola di scarico sovrappressione (relieving)
Piston-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Alte prestazioni
High performance
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 2)
In-line or panel mounting; bracket on request (code STF 2)

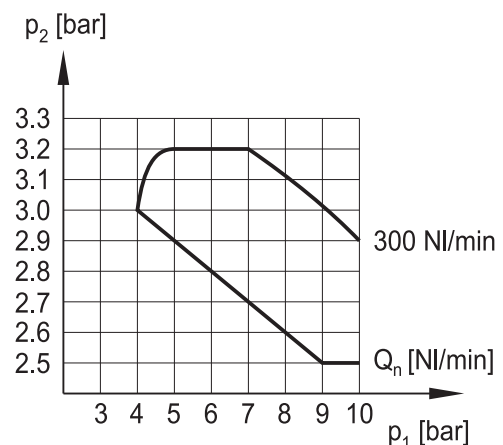


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 2-08	REG 2-04
Attacchi <i>Ports</i>		G1/4"	G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C
Peso <i>Weight</i>		0.11 kg	0.11 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 4 bar; 0.4 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6	1.6 0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$	Q_n 300 NI/min (max 530 NI/min)	550 NI/min (max 770 NI/min)

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

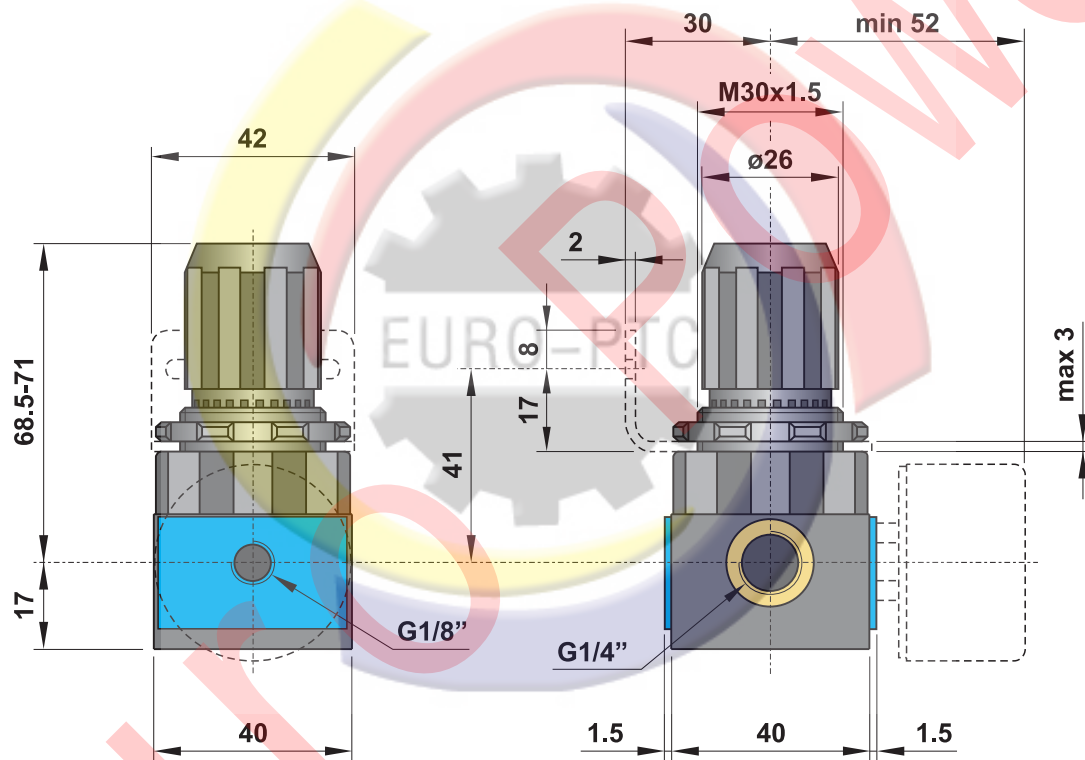
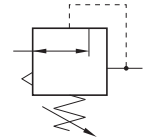


regolatore di pressione G1/4"

G1/4" pressure regulator



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Materials

Body: reinforced polymer with brass thread inserts

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

regolatore di pressione G1/4" - SR

G1/4" pressure regulator with exhaust by-pass

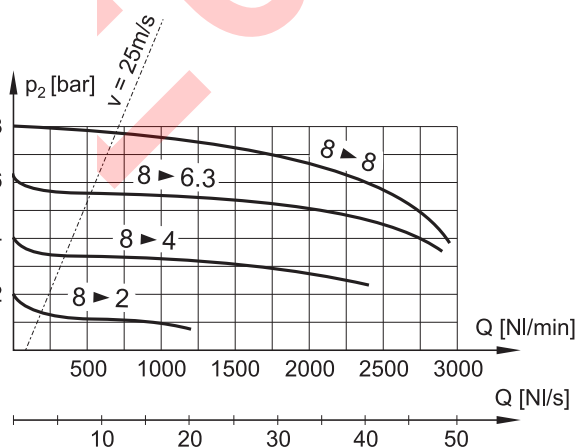


- Regolatore a membrana con sistema by-pass di scarico
Diaphragm-type pressure regulator with exhaust by-pass system
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
In-line or panel mounting; bracket on request (code STF 3 or STF 3A)

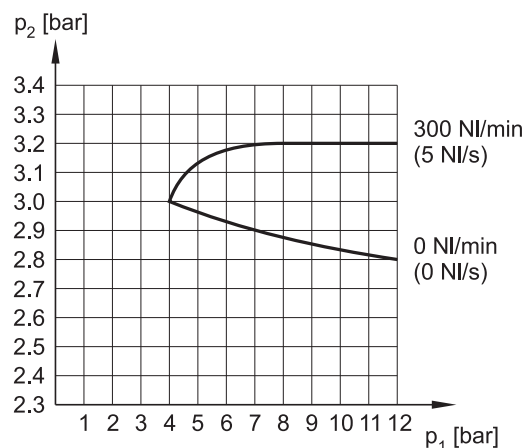


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 2-08-SR	
Attacchi <i>Ports</i>		G1/4"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		0.3 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \min}$	0 bar; 0 MPa
		$p_{1 \max}$	16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \min}$	0.5 bar; 0.05 MPa
		$p_{2 \max}$	8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$	0.5
		$p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.4
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	500 NI/min
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max}	1000 NI/min

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

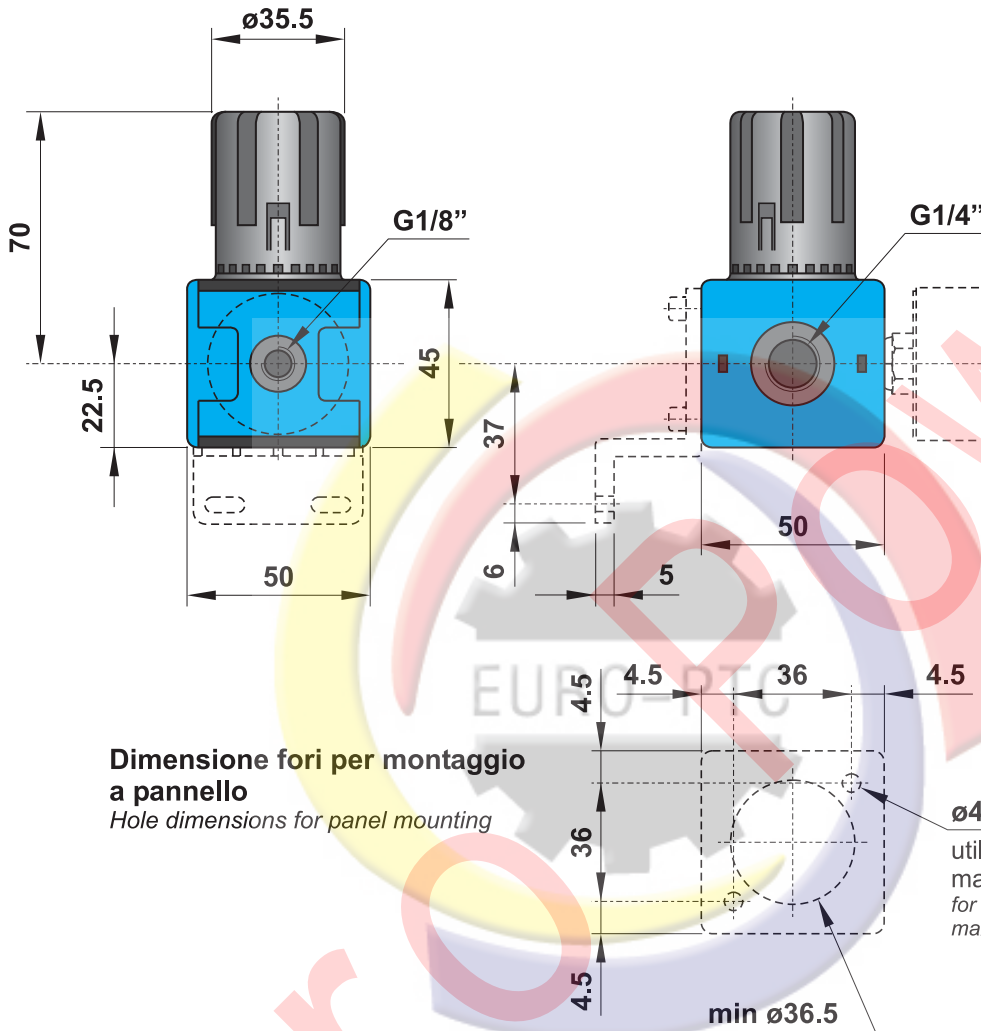
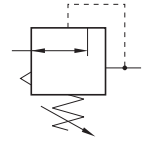


regolatore di pressione G1/4" - SR

G1/4" pressure regulator with exhaust by-pass



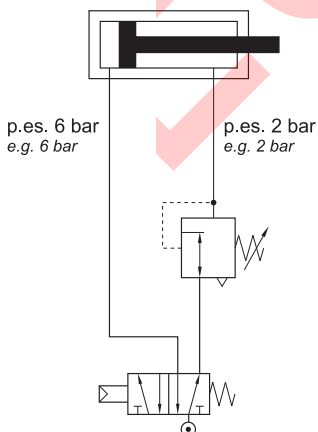
La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Dimensione fori per montaggio a pannello
Hole dimensions for panel mounting

utilizzare viti autofilettanti M4
max prof. del filetto: 10 mm
for self-tapping screw M4
maximum thread depth: 10 mm

schema applicativo application sketch



Nel circuito qui raffigurato il regolatore fa sì che l'aria in scarico proveniente dal cilindro giunga direttamente alla valvola, consentendo così un movimento alla massima pressione e velocità. L'aria necessaria alla corsa di ritorno è invece regolata a una pressione inferiore e permette un movimento più lento.

In the shown diagram, the pressure from the cylinder exhaust uses the full cross-section of the valve, allowing the cylinder to travel at full speed. In the opposite direction the air pressure is regulated at a lower level and allows a slower movement.

Materiali

Corpo: alluminio pressofuso
Molle: INOX
Guarnizioni: NBR
Parti interne: ottone e INOX
Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium
Springs: stainless steel
Seals: NBR
Internal parts: brass and stainless steel
External parts: reinforced polymer

regolatore di pressione G3/8"

G3/8" pressure regulator

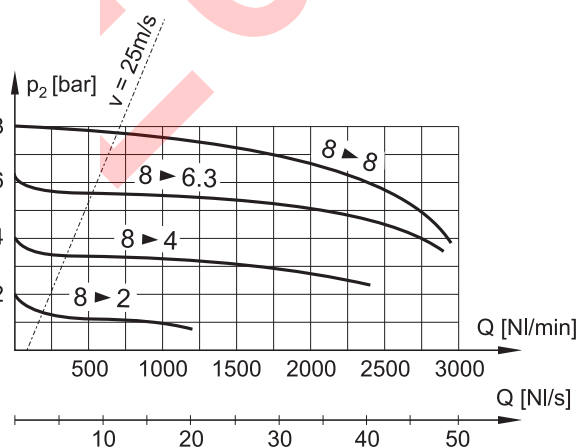


- Regolatore a membrana con valvola di scarico sovrappressione (relieving)
Diaphragm-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
In-line or panel mounting; bracket on request (code STF 3 or STF 3A)

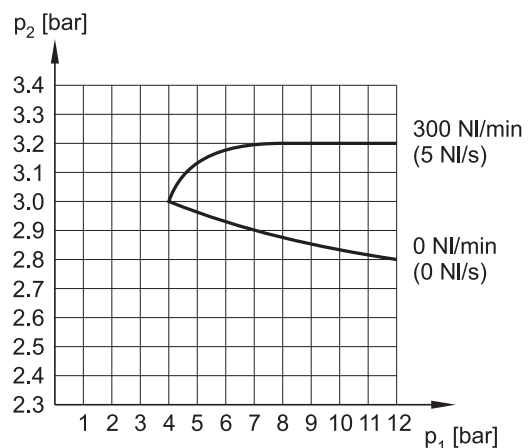


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 3-08	
Attacchi <i>Ports</i>		G3/8"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		0.3 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	850 NI/min
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max}	3300 NI/min

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

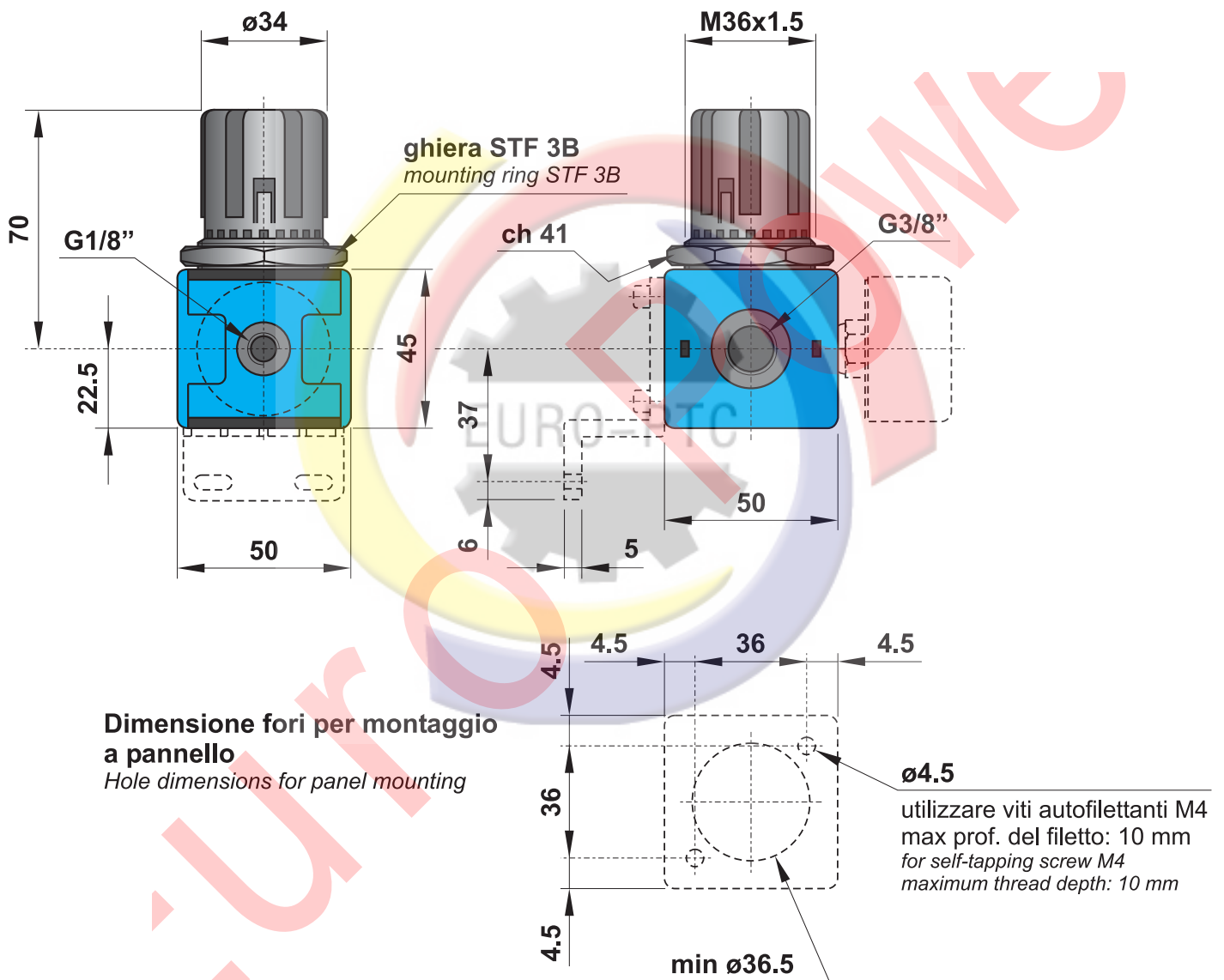
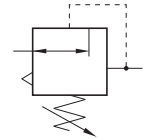


regolatore di pressione G3/8"

G3/8" pressure regulator



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Springs: stainless steel

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

regolatore di pressione G1/2"

G1/2" pressure regulator

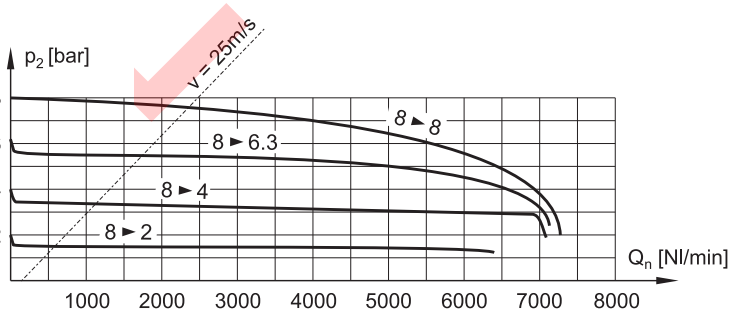


- Regolatore a membrana con valvola di scarico sovrappressione (relieving)
Diaphragm-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 4)
In-line or panel mounting; bracket on request (code STF 4)

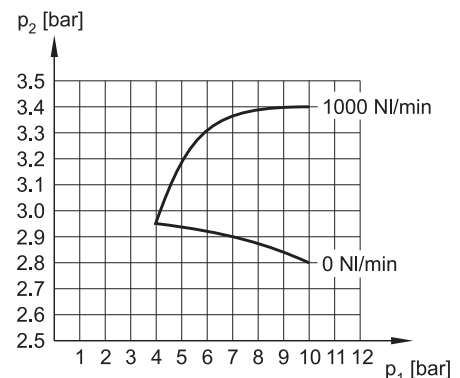


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 4-08	
Attacchi <i>Ports</i>		G1/2"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		0.55 kg	
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7	
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max}	5700 NI/min

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

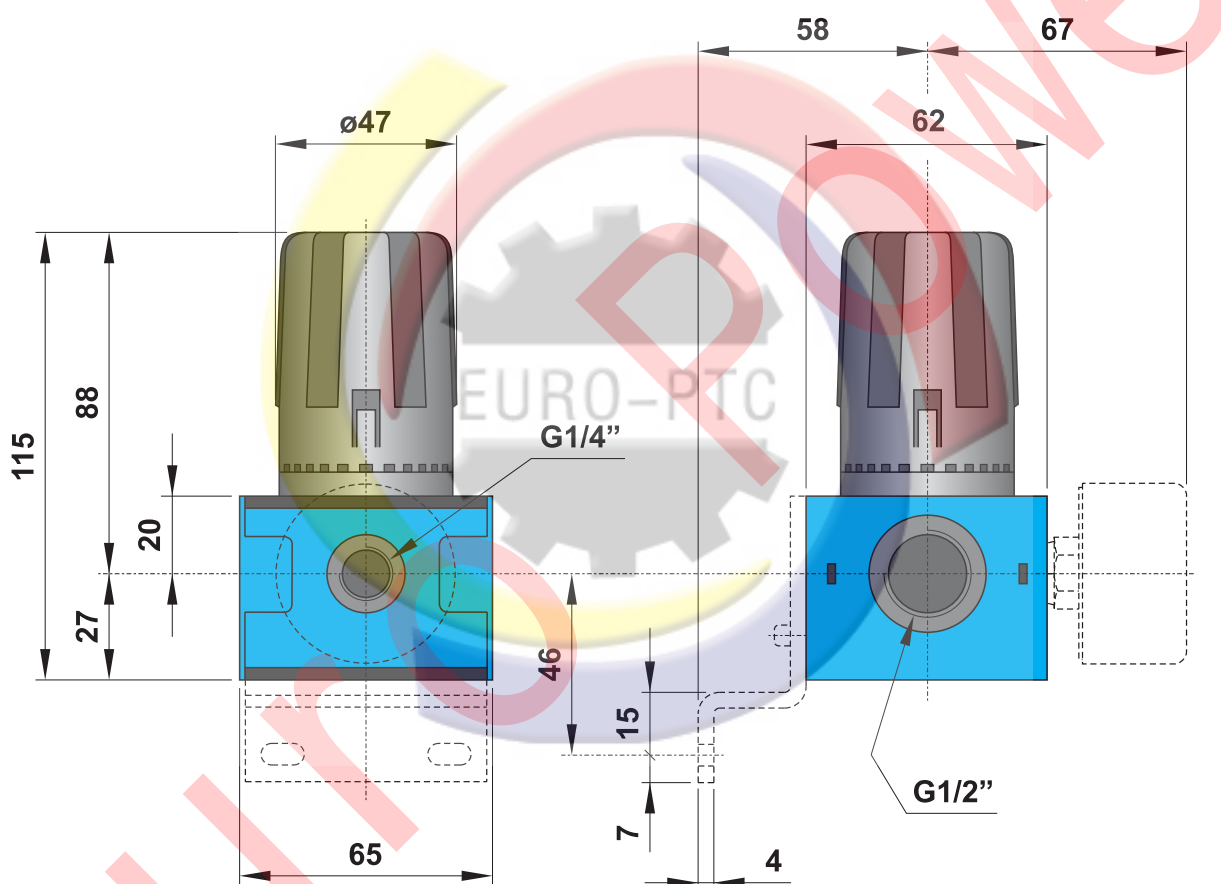
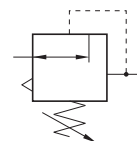


regolatore di pressione G1/2"

G1/2" pressure regulator



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Springs: stainless steel

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

regolatore di pressione G1"

G1" pressure regulator

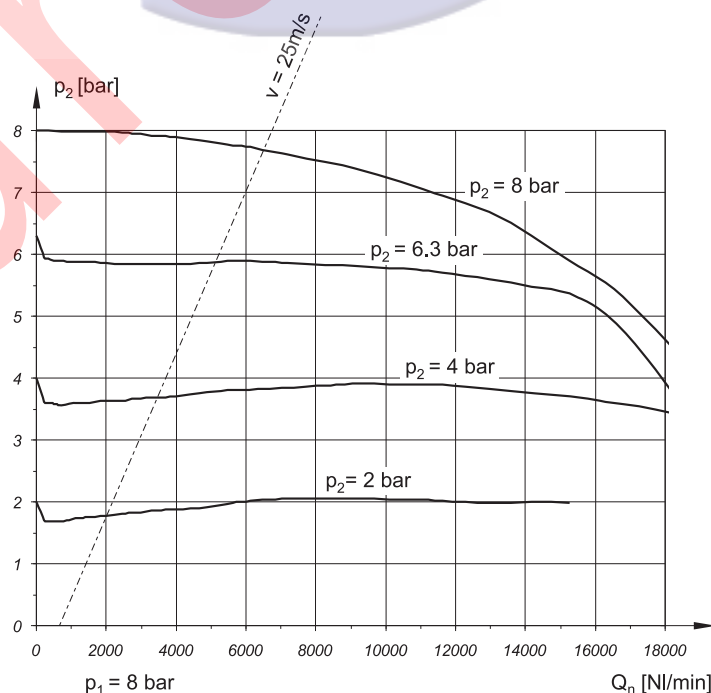


- Regolatore a membrana con valvola di scarico sovrappressione (relieving)
Diaphragm-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffe di fissaggio a richiesta (cod. STF 6N; STF 6NA; STF 6NB)
In-line or panel mounting; brackets on request (code STF 6N; STF 6NA; STF 6NB)



CODICE DI ORDINAZIONE ORDER CODE		REG 6N-10	
Attacchi Ports		G1"	
Temperatura di esercizio Temperature range		max +50°C	
Peso Weight		1.2 kg	
Pressione di alimentazione Inlet pressure range		$P_{1 \min}$ $P_{1 \max}$	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Pressione di utilizzo Outlet pressure range		$P_{2 \min}$ $P_{2 \max}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima Maximum flow rate	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max}	18200 NI/min

Caratteristiche di portata
Flow characteristics

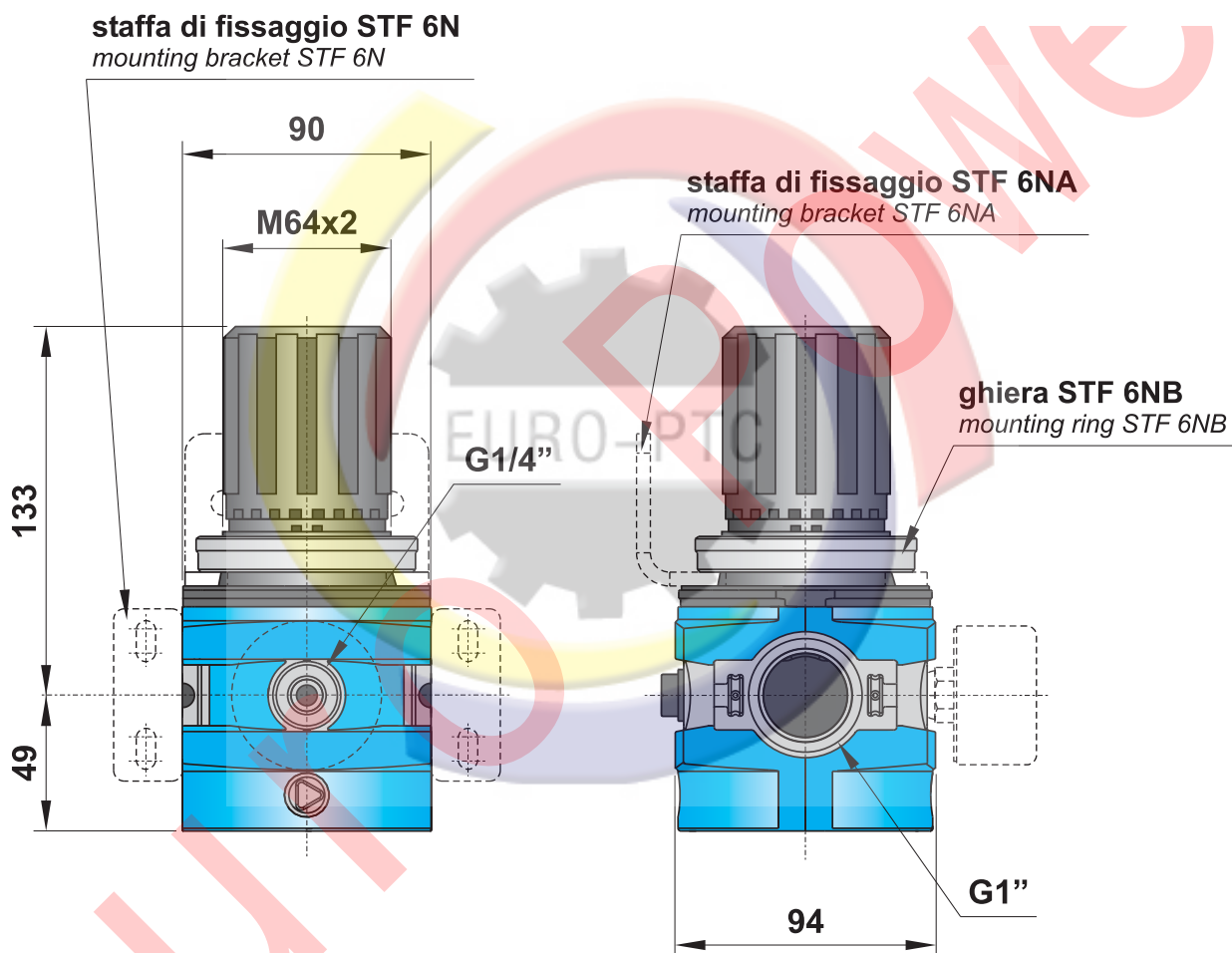
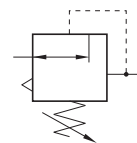


regolatore di pressione G1"

G1" pressure regulator



Le staffe di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting brackets, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso
Molle: INOX e acciaio zincato
Guarnizioni: NBR
Parti interne: ottone e INOX
Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium
Springs: stainless steel and zinc plated steel
Seals: NBR
Internal parts: brass and stainless steel
External parts: reinforced polymer

regolatore di pressione pilotato G1"

piloted G1" pressure regulator

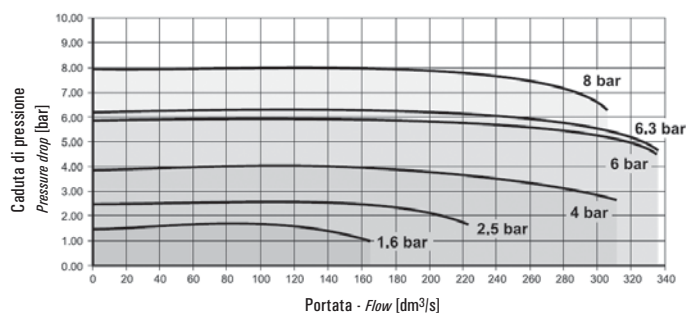


- Regolatore a membrana con valvola di scarico sovrappressione (relieving)
Diaphragm-type pressure regulator with relieving
- Si può pilotare in remoto e può essere installato in posizioni difficilmente accessibili
It can be remotely piloted and therefore installed in difficult reachable positions
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 6N)
In-line or panel mounting; bracket on request (code STF 6N)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REGP 6H10	
Attacchi <i>Ports</i>			G1"
Temperatura di esercizio <i>Temperature range</i>			max +50°C
Peso <i>Weight</i>			1.2 kg
Pressione di alimentazione <i>Inlet pressure range</i>		$P_{1 \text{ min}}$ $P_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$P_{2 \text{ min}}$ $P_{2 \text{ max}}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{max}	18200 NI/min

Caratteristiche di portata
Flow characteristics

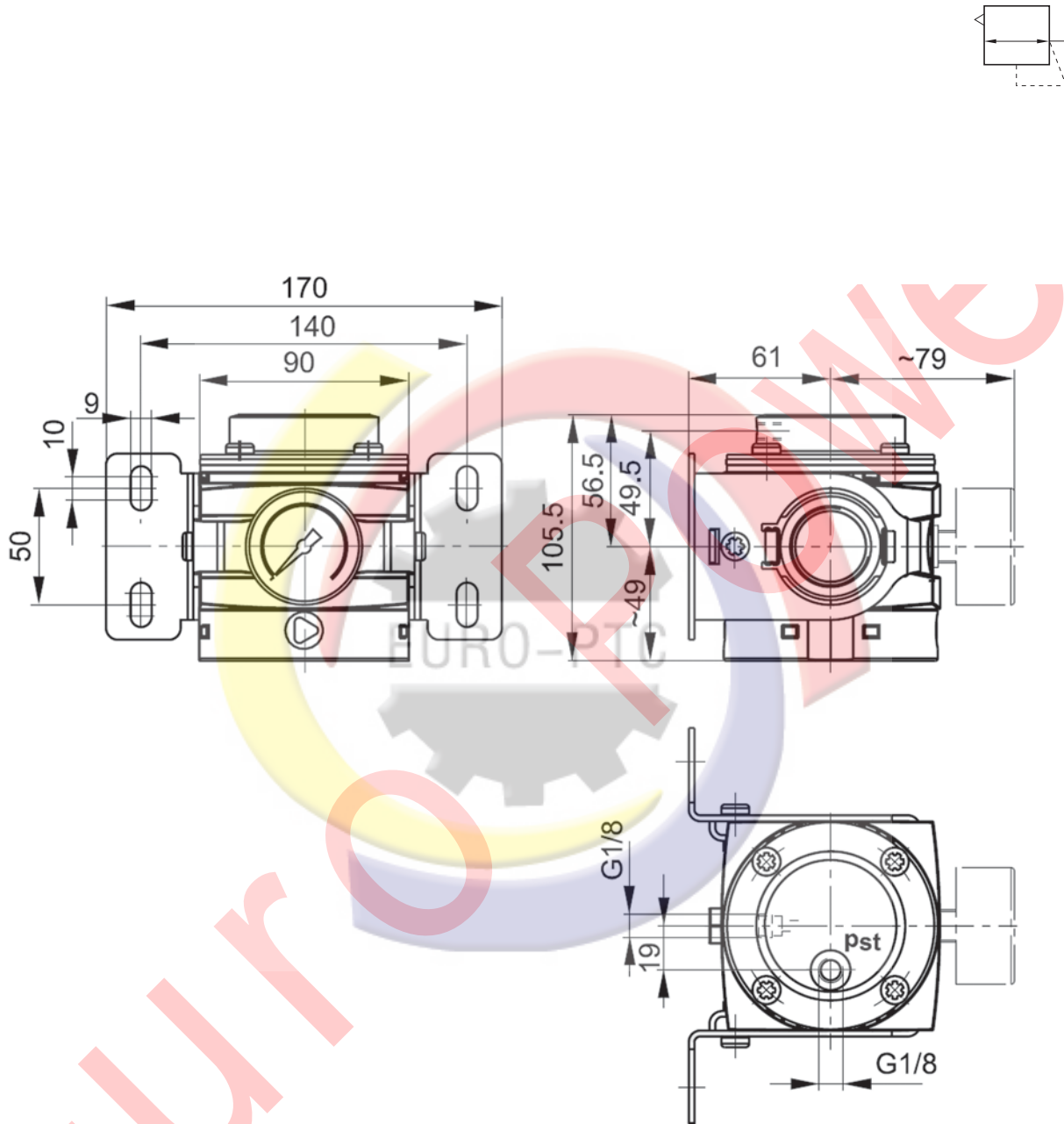


regolatore di pressione pilotato G1"

piloted G1" pressure regulator



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: aluminium

Springs: stainless steel

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

lubrificatore G1/4"

G1/4" lubricator

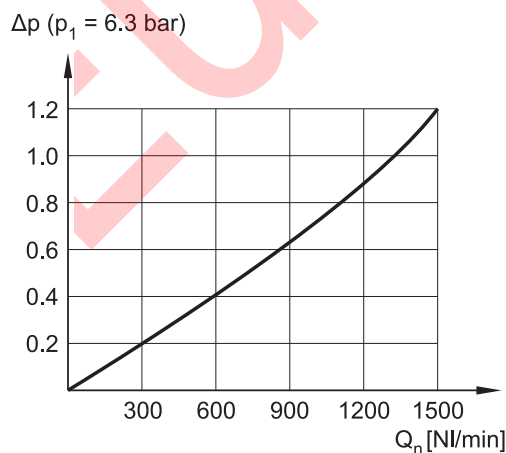


- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Il numero di gocce al minuto è costante
Number of drops per minute is constant
- Bassa portata di inserzione
Low start flow rate
- Capacità tazza: 35 cm³
Bowl capacity: 35 cm³
- Rifornimento olio manuale
Manual oil refilling
- Protezione in plastica della tazza a richiesta (cod. PR 2-00)
Plastic bowl protection on request (code PR 2-00)
- Installazione verticale
Vertical installation

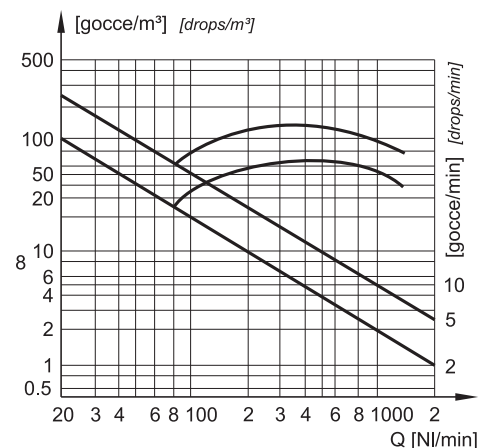


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		LUB 2-00
Attacchi <i>Parts</i>		G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		0.09 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	0 bar; 0 MPa 10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 550 NI/min (max 1400 NI/min)

Caratteristiche di portata
Flow characteristics

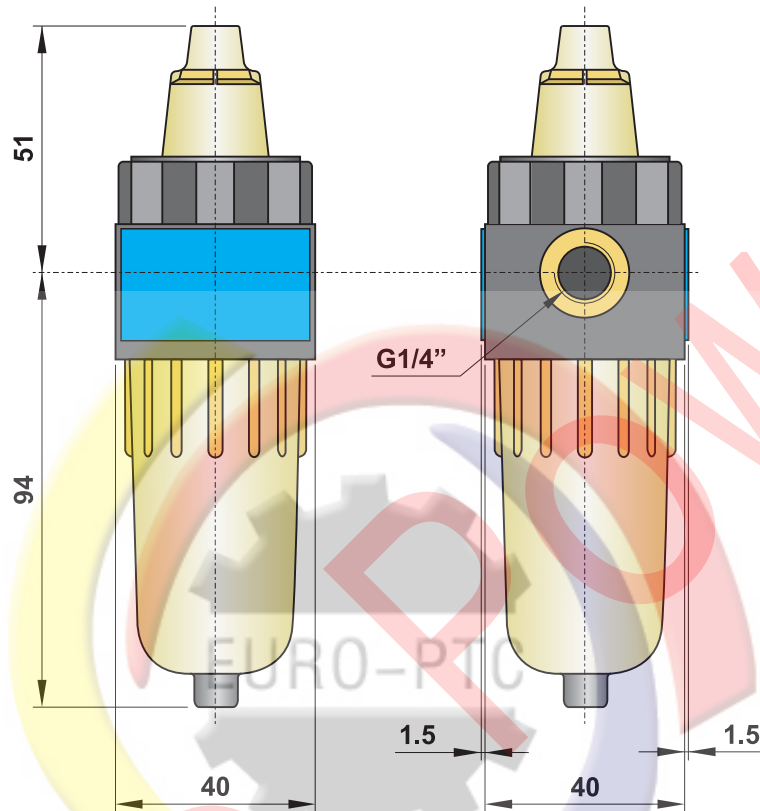
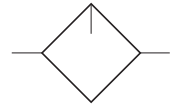


Rapporto olio/aria
Oil/air ratio

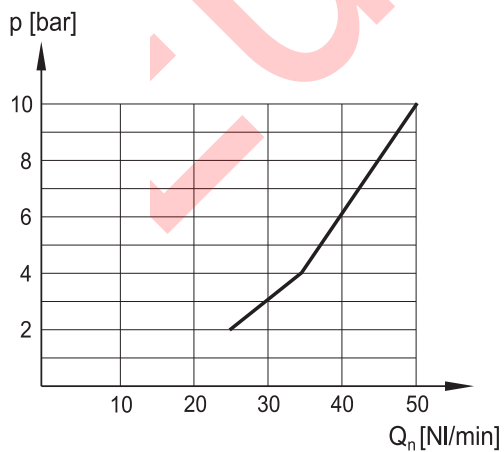


lubrificatore G1/4"

G1/4" lubricator



Condizioni minime di operatività
Minimum operating conditions



Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Tazza: policarbonato rinforzato

Materials

Body: reinforced polymer with brass thread inserts

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

Bowl: reinforced polycarbonate

Lubrificatore G3/8"

G3/8" lubricator

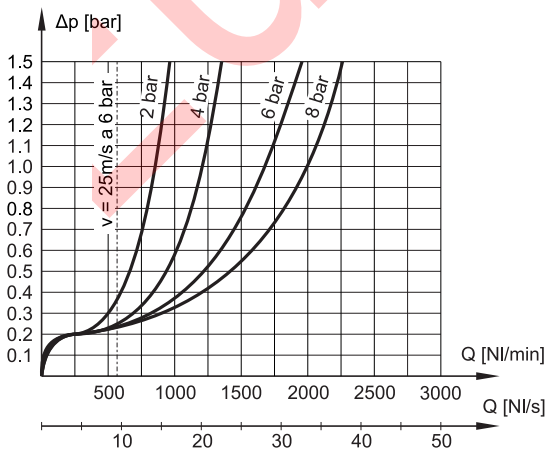


- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Il numero di gocce al minuto è costante
Number of drops per minute is constant
- Capacità tazza: 45 cm³
Bowl capacity: 45 cm³
- Rifornimento olio manuale
Manual oil refilling
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3)
Vertical installation; bracket on request (code STF 3)
- Protezione metallica della tazza a richiesta (cod. PR 3-00)
Metal bowl protection on request (code PR 3-00)

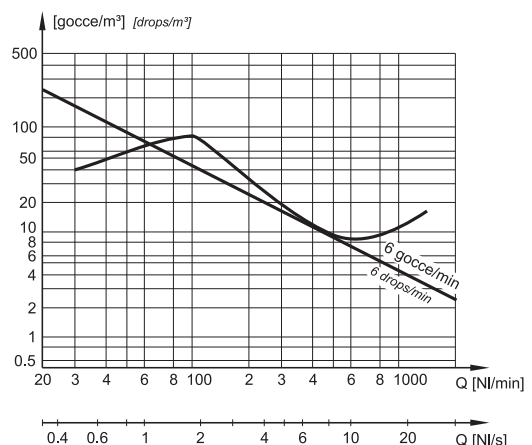


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		LUB 3-00
Attacchi <i>Ports</i>		G3/8"
Temperatura di esercizio <i>Temperature range</i>		max +60°C
Peso <i>Weight</i>		0.25 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n 850 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max} 1880 NI/min

Caratteristiche di portata
Flow characteristics



Rapporto olio/aria
Oil/air ratio

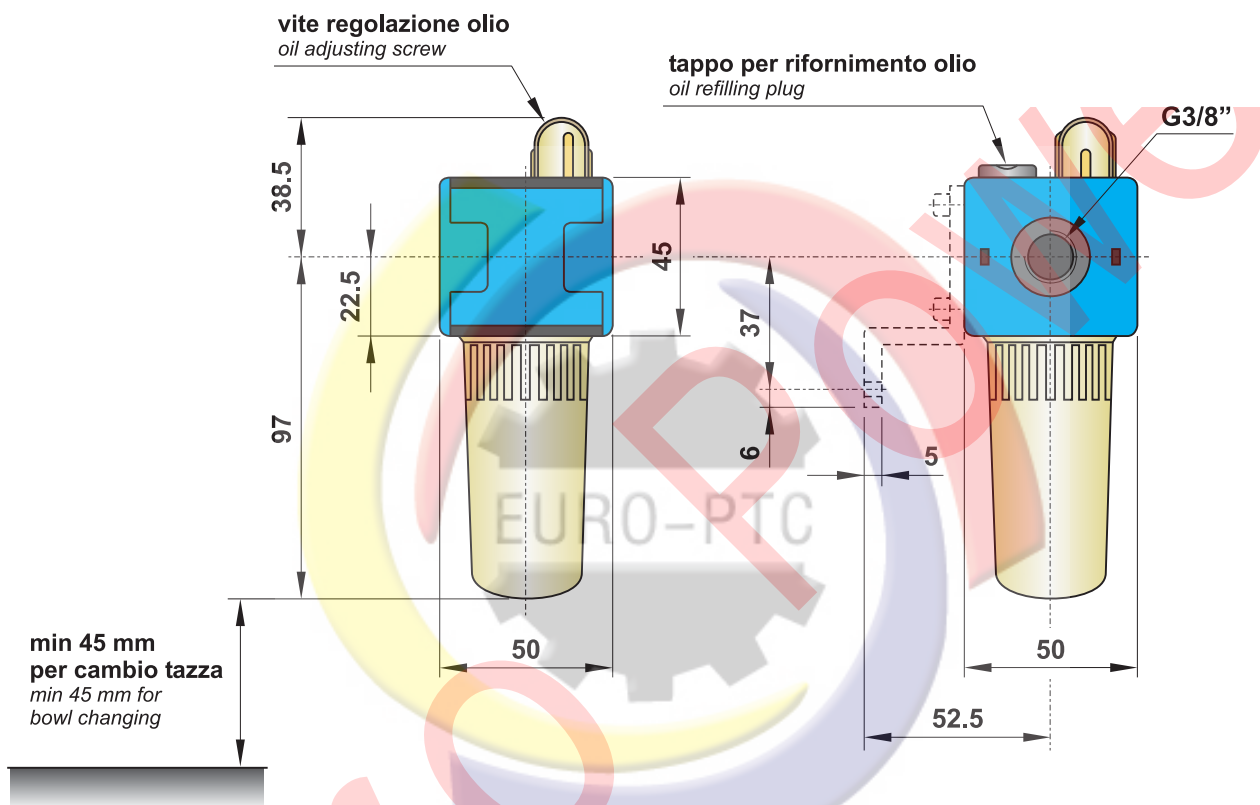
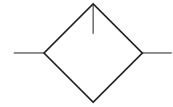


Lubrificatore G3/8"

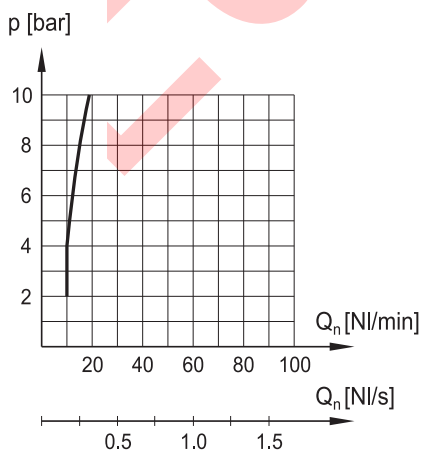
G3/8" lubricator



La staffa di fissaggio deve essere acquistata separatamente.
 Mounting bracket is bought separately.



Condizioni minime di operatività
 Minimum operating conditions



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

Lubrificatore G1/2"

G1/2" lubricator

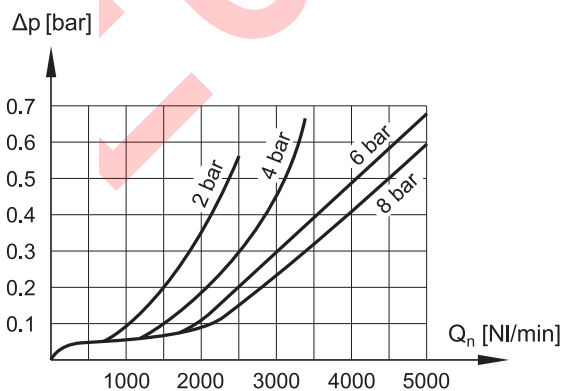


- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Il numero di gocce al minuto è costante
Number of drops per minute is constant
- Capacità tazza: 112 cm³
Bowl capacity: 112 cm³
- Rifornimento olio manuale
Manual oil refilling
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)
- Protezione metallica della tazza a richiesta (cod. PR 4-00)
Metal bowl protection on request (code PR 4-00)

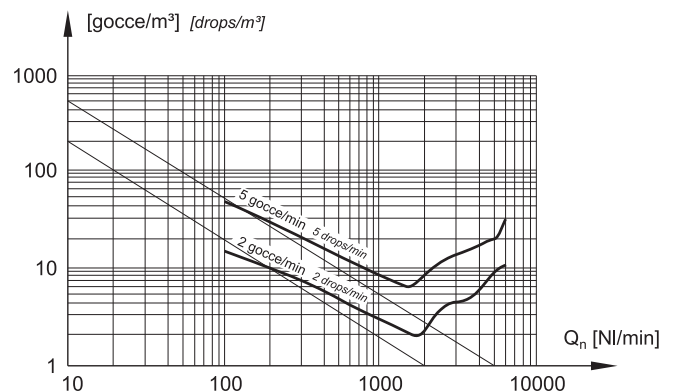


CODICE DI ORDINAZIONE <i>ORDER CODE</i>			LUB 4-00
Attacchi <i>Ports</i>			G1/2"
Temperatura di esercizio <i>Temperature range</i>			max +60°C
Peso <i>Weight</i>			0.55 kg
Pressione di esercizio <i>Working pressure range</i>		p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max}	5300 NI/min

Caratteristiche di portata
Flow characteristics



Rapporto olio/aria
Oil/air ratio

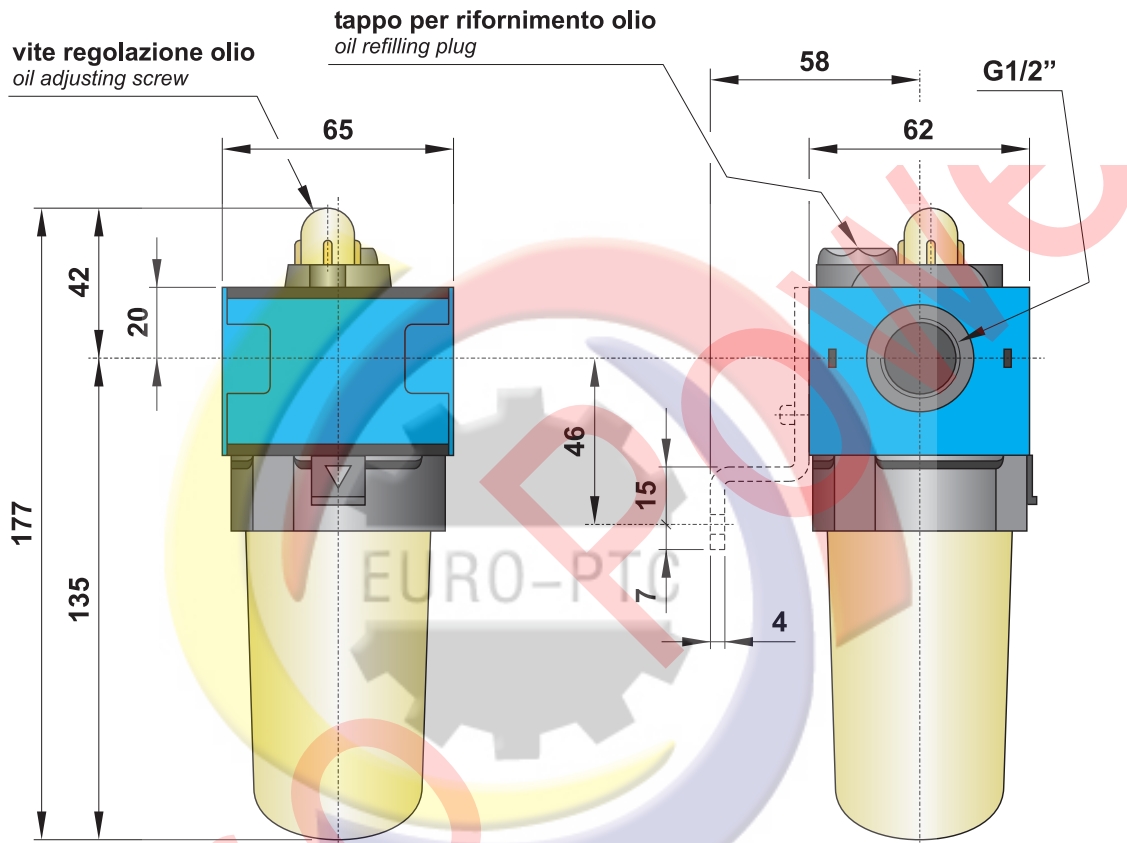
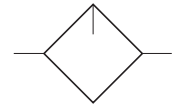


lubrificatore G1/2"

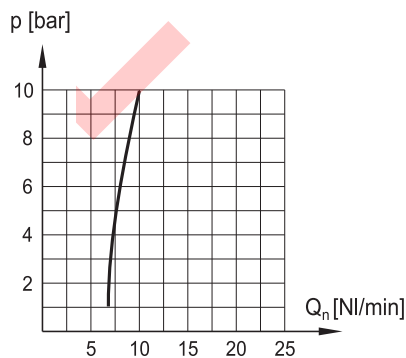
G1/2" lubricator



La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Condizioni minime di operatività
Minimum operating conditions



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

Lubrificatore G1"

G1" lubricator

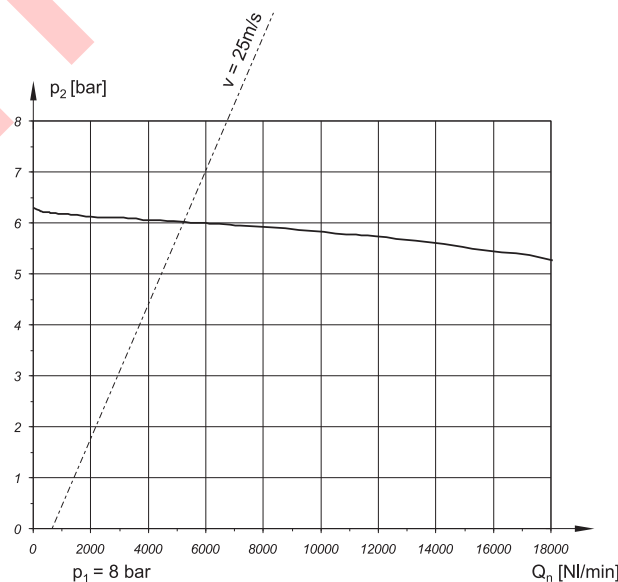


- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Il numero di gocce al minuto è costante
Number of drops per minute is constant
- Capacità tazza: 500 cm³
Bowl capacity: 500 cm³
- Rifornimento olio manuale
Manual oil refilling
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N)
Vertical installation; brackets on request (code STF 6N)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		LUB 6N-00
Attacchi <i>Ports</i>		G1"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		0.8 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$ Q_{max}	17700 NI/min

Caratteristiche di portata
Flow characteristics

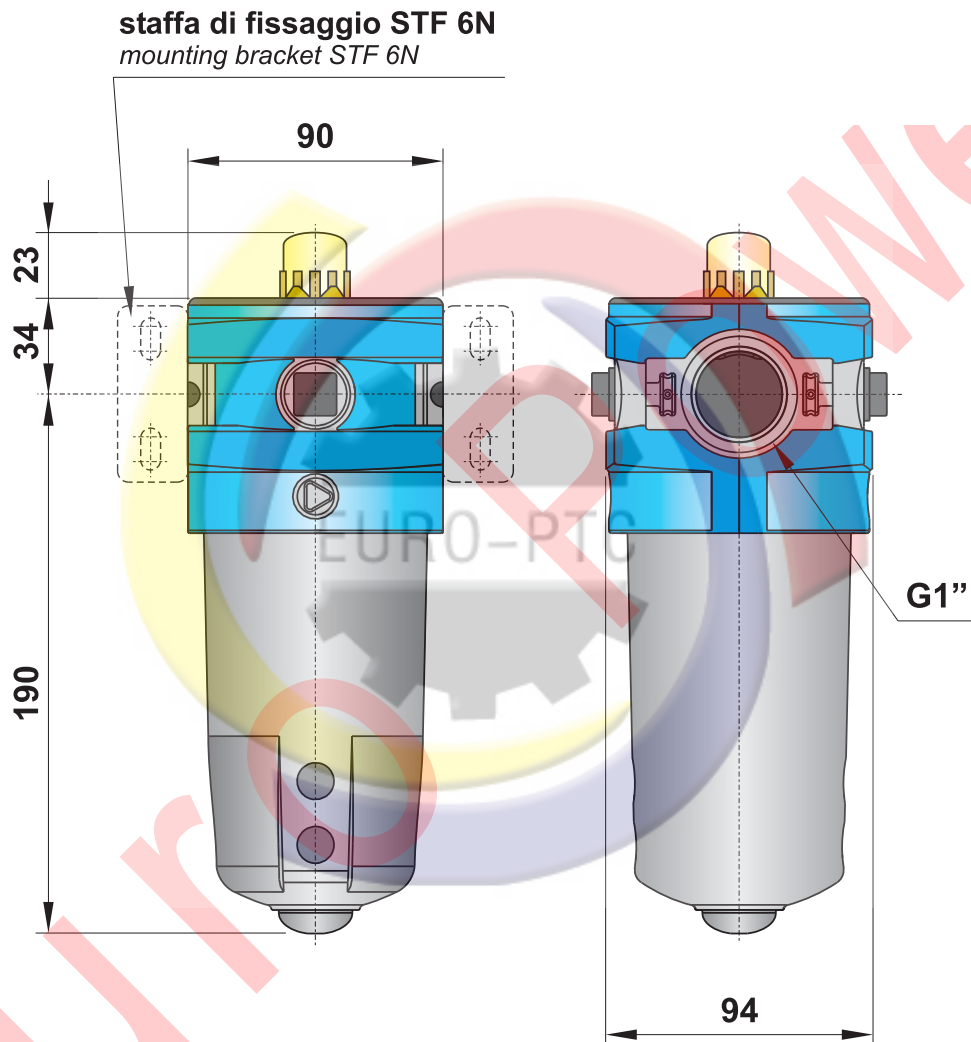
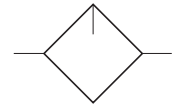


lubrificatore G1"

G1" lubricator



Le staffe di fissaggio devono essere acquistate separatamente.
Mounting brackets are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: metallica

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: metal

filtratore regolatore G1/4"

G1/4" filter-regulator

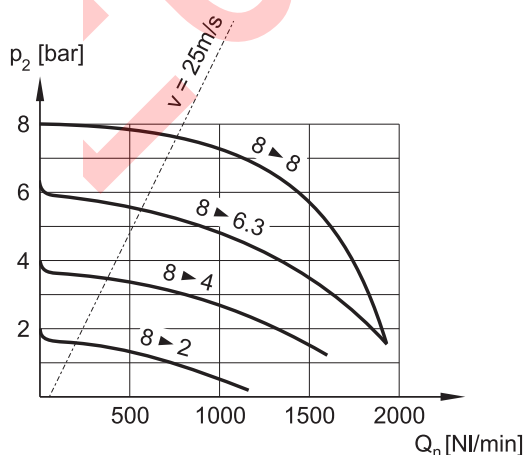


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a pistone dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with piston-type pressure regulator (with relieving)
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa
Semi-automatic moisture exhaust
- Capacità della tazza: 12 cm³; protezione in plastica a richiesta (cod. PR 2-00)
Bowl capacity: 12 cm³; plastic bowl protection on request (code PR 2-00)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 2)
Vertical installation; bracket on request (code STF 2)

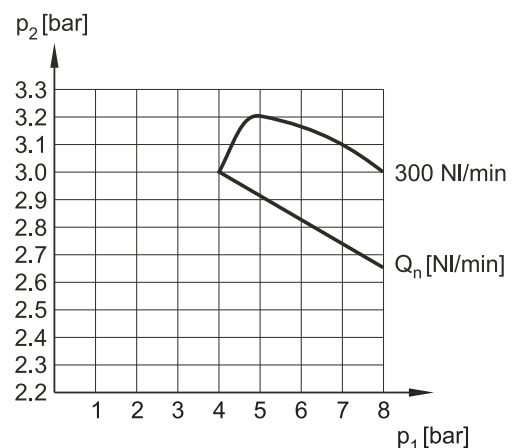


CODICE DI ORDINAZIONE ORDER CODE		FR 2-08-25-S	FR 2-08-05-S
Attacchi Ports		G1/4"	G1/4"
Temperatura di esercizio Temperature range		max +50°C	max +50°C
Peso Weight		0.12 kg	0.12 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6	1.6 0.6
Portata raccomandata Recommended flow rate	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	Q_n
Elemento filtrante Filter element		25 μm	5 μm

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure



filtratore regolatore G3/8"

G3/8" filter-regulator

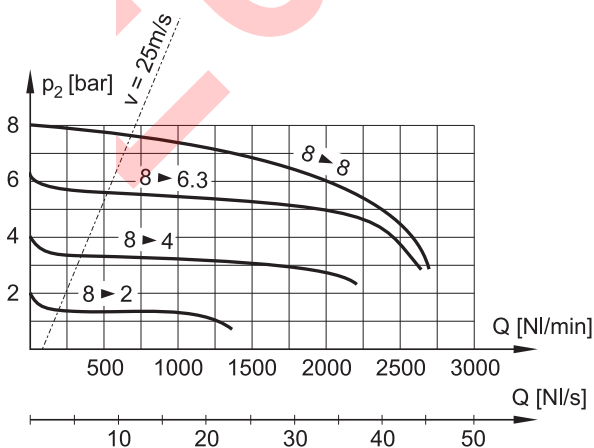


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a diaframma dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with diaphragm-type pressure regulator (with relieving)
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; automatico a richiesta
Semi-automatic moisture exhaust; automatic on request
- Capacità della tazza: 22 cm³; protezione metallica della tazza a richiesta (cod. PR 3-00)
Bowl capacity: 22 cm³; metal bowl protection on request (code PR 3-00)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
Vertical installation; bracket on request (code STF 3 or STF 3A)

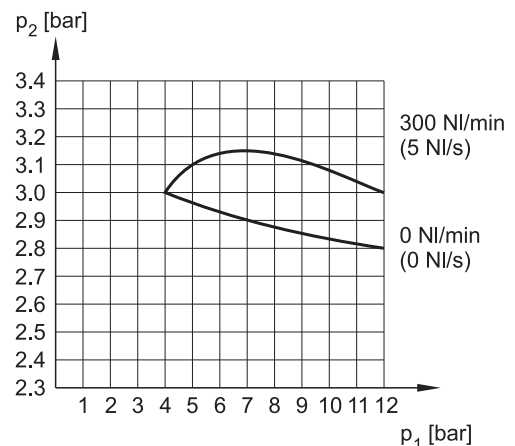


CODICE DI ORDINAZIONE ORDER CODE		FR 3-08-30-S	FR 3-08-05-S
Attacchi Ports		G3/8"	G3/8"
Temperatura di esercizio Temperature range		max +50°C	max +50°C
Peso Weight		0.35 kg	0.35 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4	0.5 0.4
Portata raccomandata Recommended flow rate	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	Q_n
Elemento filtrante Filter element		30 μm	5 μm

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

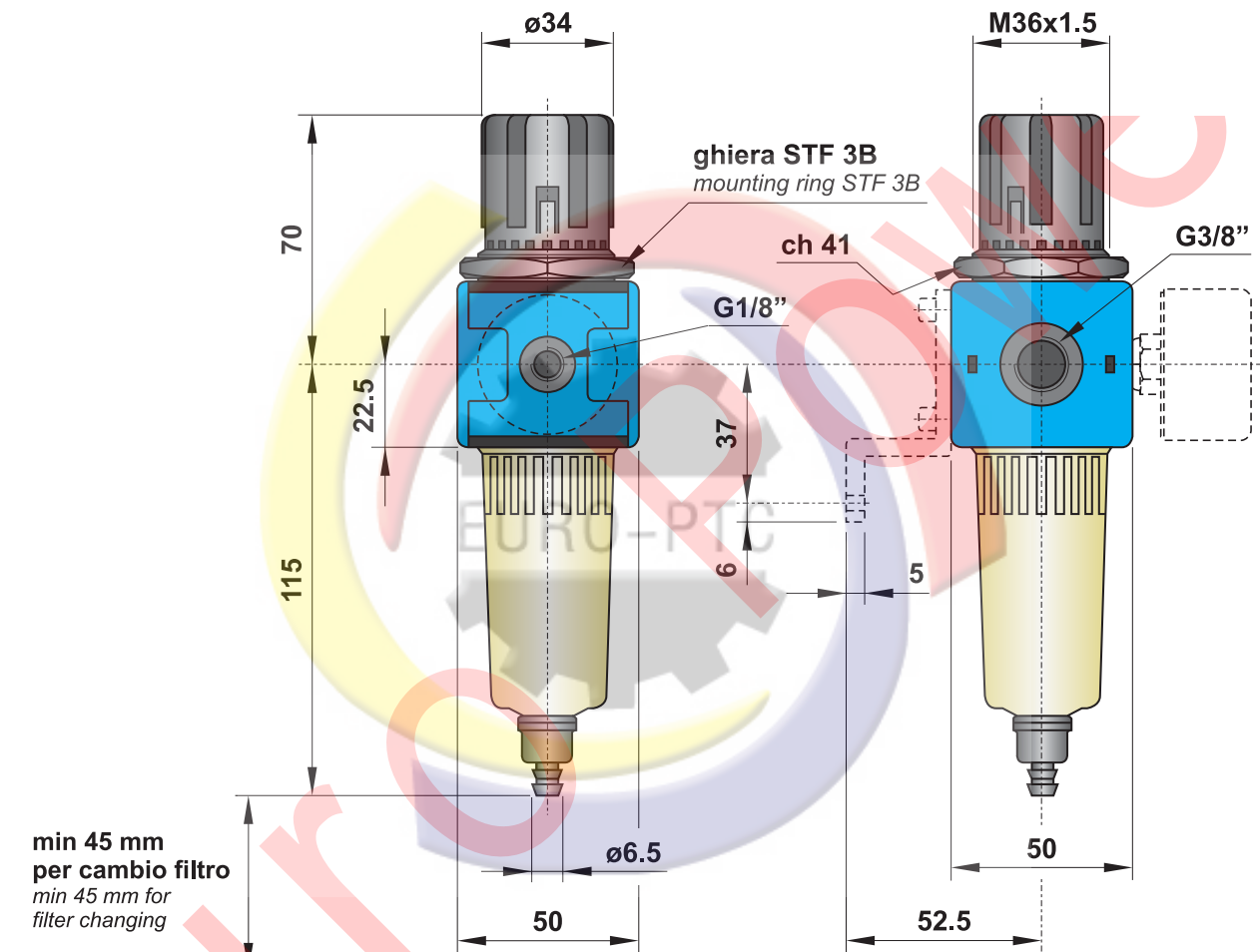
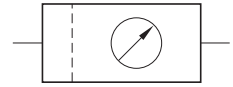


filtratore regolatore G3/8"

G3/8" filter-regulator



La staffa di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting bracket, ring and manometer are bought separately.



min 45 mm
per cambio filtro
min 45 mm for
filter changing

Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

filtratore regolatore G1/2"

G1/2" filter-regulator

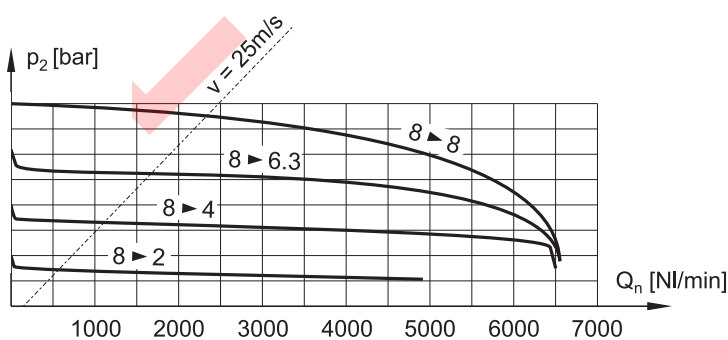


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a diaframma dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with diaphragm-type pressure regulator (with relieving)
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; automatico a richiesta
Semi-automatic moisture exhaust; automatic on request
- Capacità della tazza: 57 cm³; protezione metallica della tazza a richiesta (cod. PR 4-00)
Bowl capacity: 57 cm³; metal bowl protection on request (code PR 4-00)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)

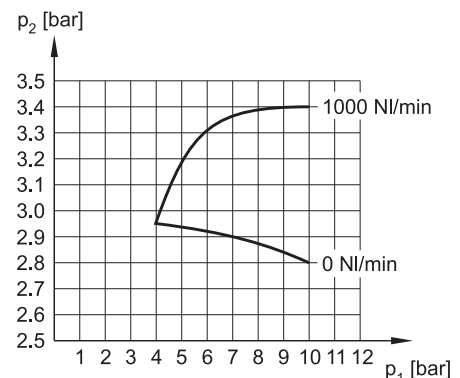


CODICE DI ORDINAZIONE ORDER CODE		FR 4-08-30-S	FR 4-08-05-S
Attacchi Ports		G1/2"	G1/2"
Temperatura di esercizio Temperature range		max +50°C	max +50°C
Peso Weight		0.75 kg	0.75 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7	0.9 0.7
Portata raccomandata Recommended flow rate	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	Q_n
Elemento filtrante Filter element		1900 NI/min (max 3300 NI/min)	1900 NI/min (max 3300 NI/min)
		30 μm	5 μm

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

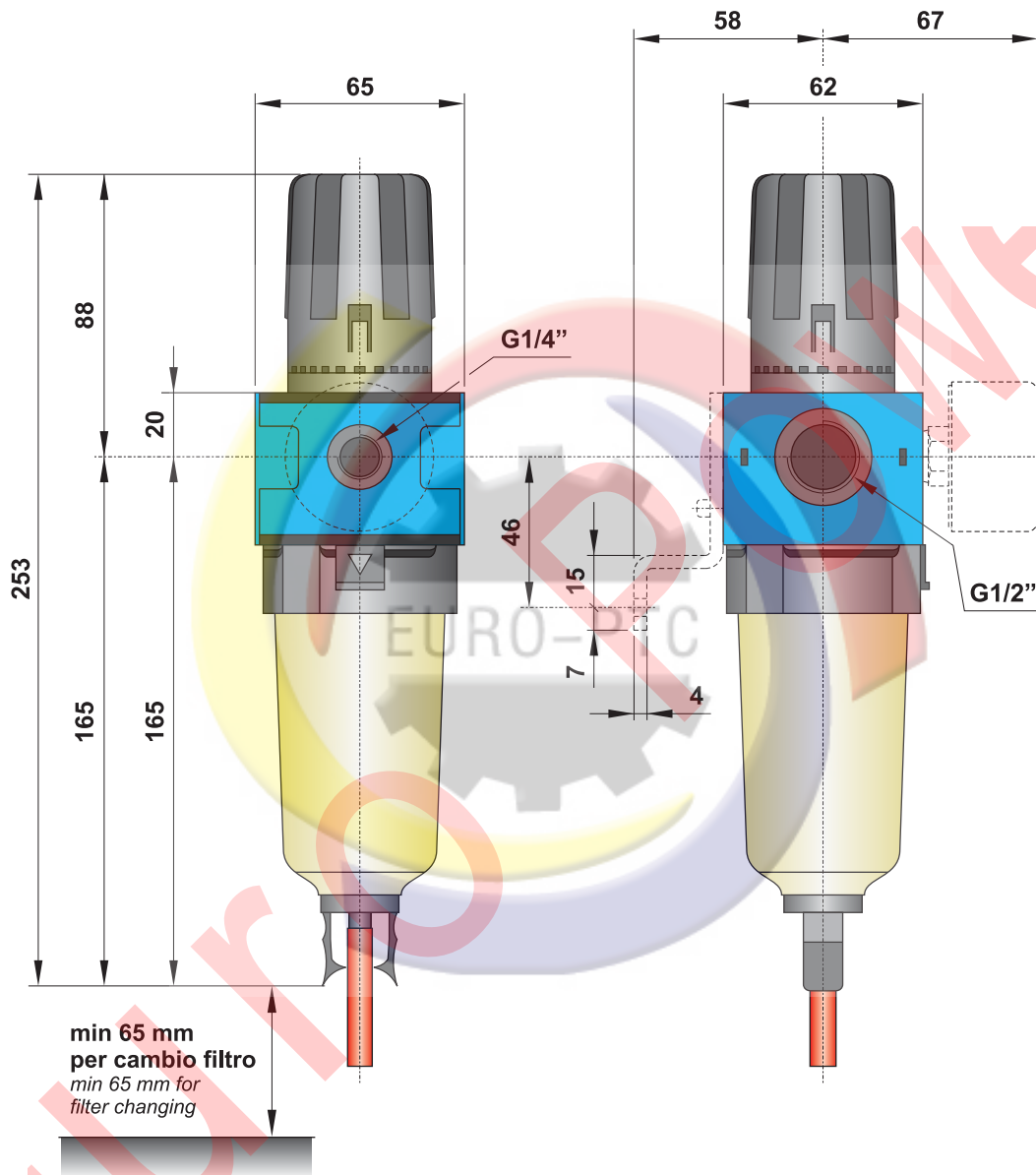


filtratore regolatore G1/2"

G1/2" filter-regulator



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

filtratore regolatore G1"

G1" filter-regulator

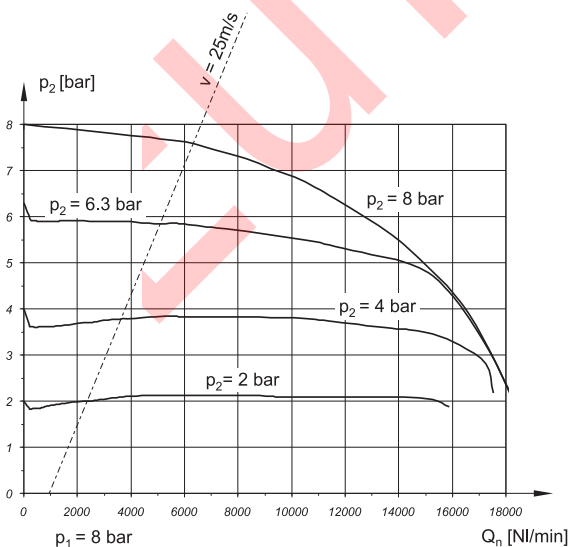


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a diaframma dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with diaphragm-type pressure regulator (with relieving)
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; automatico a richiesta
Semi-automatic moisture exhaust; automatic on request
- Capacità della tazza: 130 cm³; tazza metallica
Bowl capacity: 130 cm³; metal bowl
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N; STF 6NA; STF 6NB)
Vertical installation; brackets on request (code STF 6N; STF 6NA; STF 6NB)

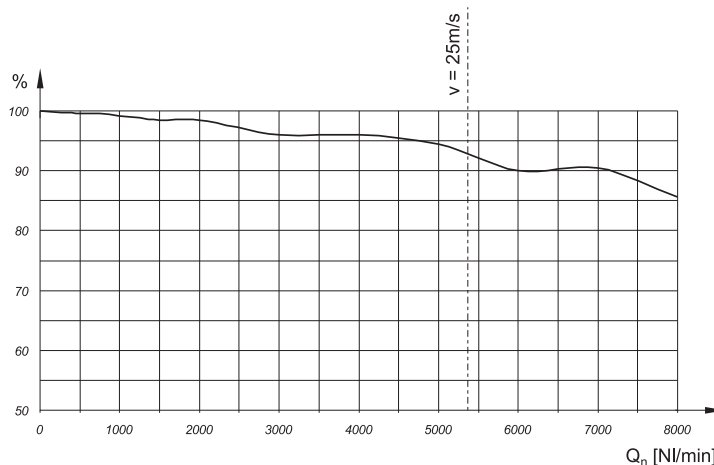


CODICE DI ORDINAZIONE ORDER CODE		FR 6N-10-30-S	FR 6N-10-05-S
Attacchi Ports		G1"	G1"
Temperatura di esercizio Temperature range		max +50°C	max +50°C
Peso Weight		1.5 kg	1.5 kg
Pressione di alimentazione Inlet pressure range	$P_{1 \min}$ $P_{1 \max}$	0 bar; 0 MPa 17.5 bar; 1.75 MPa	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Pressione di utilizzo Outlet pressure range	$P_{2 \min}$ $P_{2 \max}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima Maximum flow rate	Q_{\max}	19000 NI/min	19000 NI/min
Elemento filtrante Filter element		30 μm	5 μm

Caratteristiche di portata
Flow characteristics



Grado di separazione condensa con $p_1 = 6.3 \text{ bar}$ costante
Moisture separation with $p_1 = 6.3 \text{ bar}$ constant

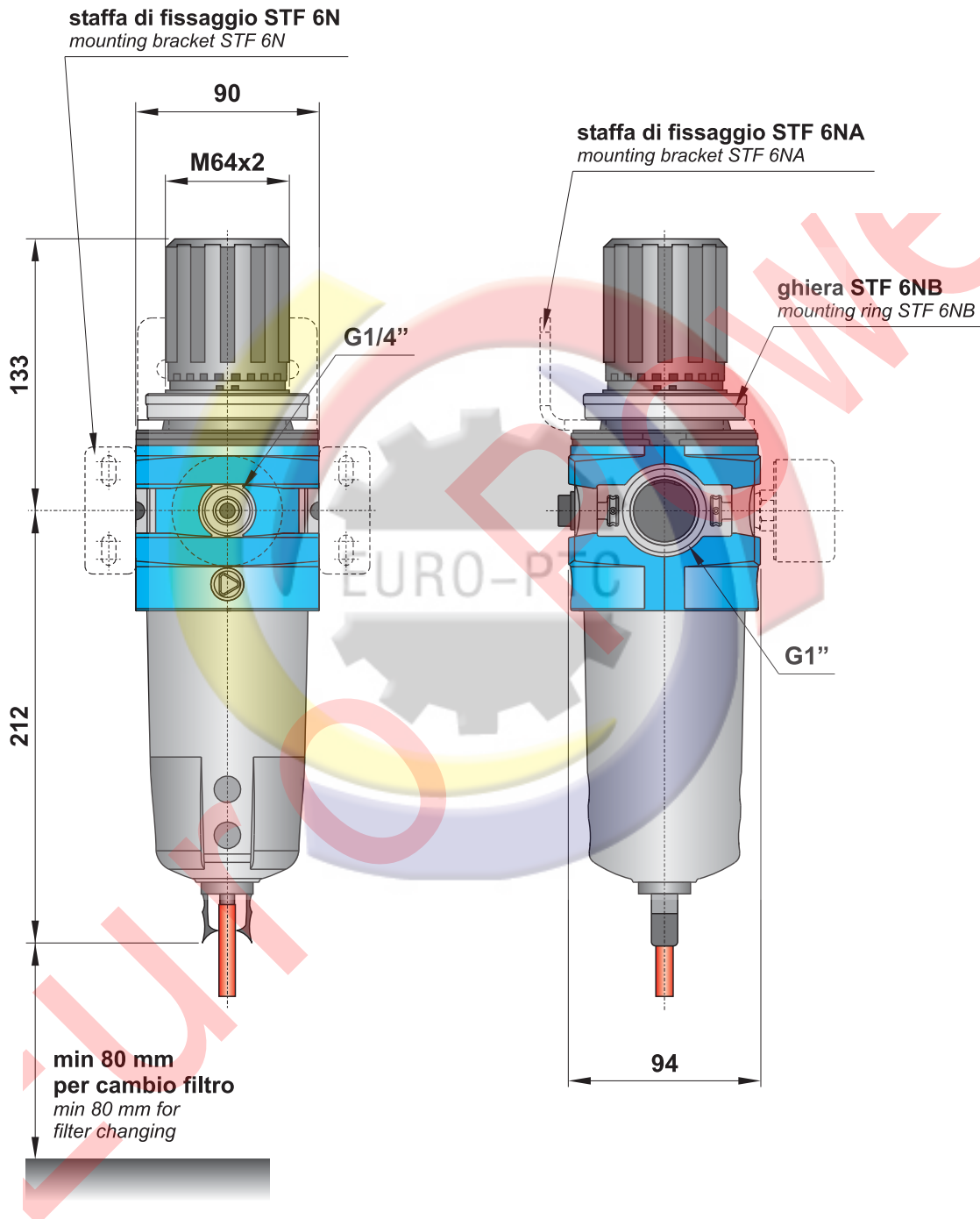
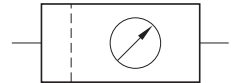


filtrorregolatore G1"

G1" filter-regulator



Le staffe di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting brackets, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: metallica

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: metal

gruppo trattamento aria FR+L G1/4"

G1/4" FR+L air preparation unit

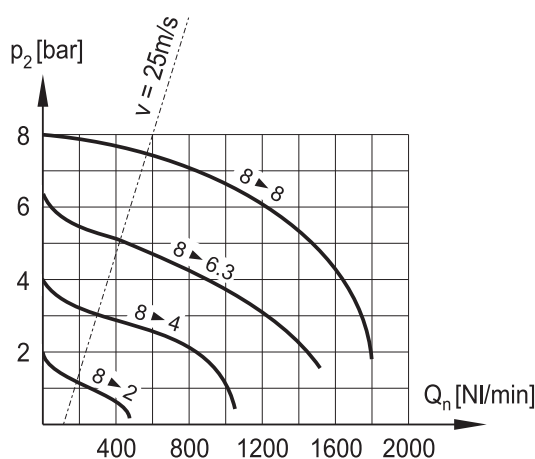


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 12 cm³ (condensa), 35 cm³ (olio)
Bowl capacity: 12 cm³ (moisture), 35 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 2)
Vertical installation; bracket on request (code STF 2)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FR+L 2-08-25-S	
Attacchi <i>Ports</i>		G1/4"	
Temperatura di esercizio <i>Temperature range</i>		max +50°C	
Peso <i>Weight</i>		0.32 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	550 NI/min (max 580 NI/min)
Elemento filtrante <i>Filter element</i>			25 μm

Caratteristiche di portata
Flow characteristics



gruppo trattamento aria FR+L G3/8"

G3/8" FR+L air preparation unit

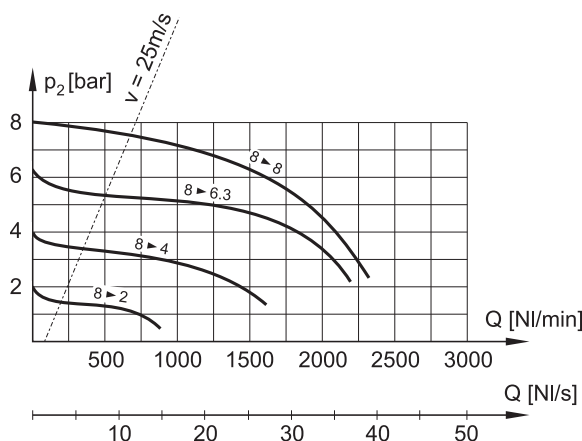


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 22 cm³ (condensa), 45 cm³ (olio)
Bowl capacity: 22 cm³ (moisture), 45 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
Vertical installation; bracket on request (code STF 3 or STF 3A)
- Protezione metallica della tazza a richiesta (cod. PR 3-00)
Metal bowl protection on request (code PR 3-00)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FR+L 3-08-30-S	
Attacchi <i>Ports</i>		G3/8"	
Temperatura di esercizio <i>Temperature range</i>		max +50°C	
Peso <i>Weight</i>		0.75 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	680 NI/min
Elemento filtrante <i>Filter element</i>			30 μm

Caratteristiche di portata
Flow characteristics

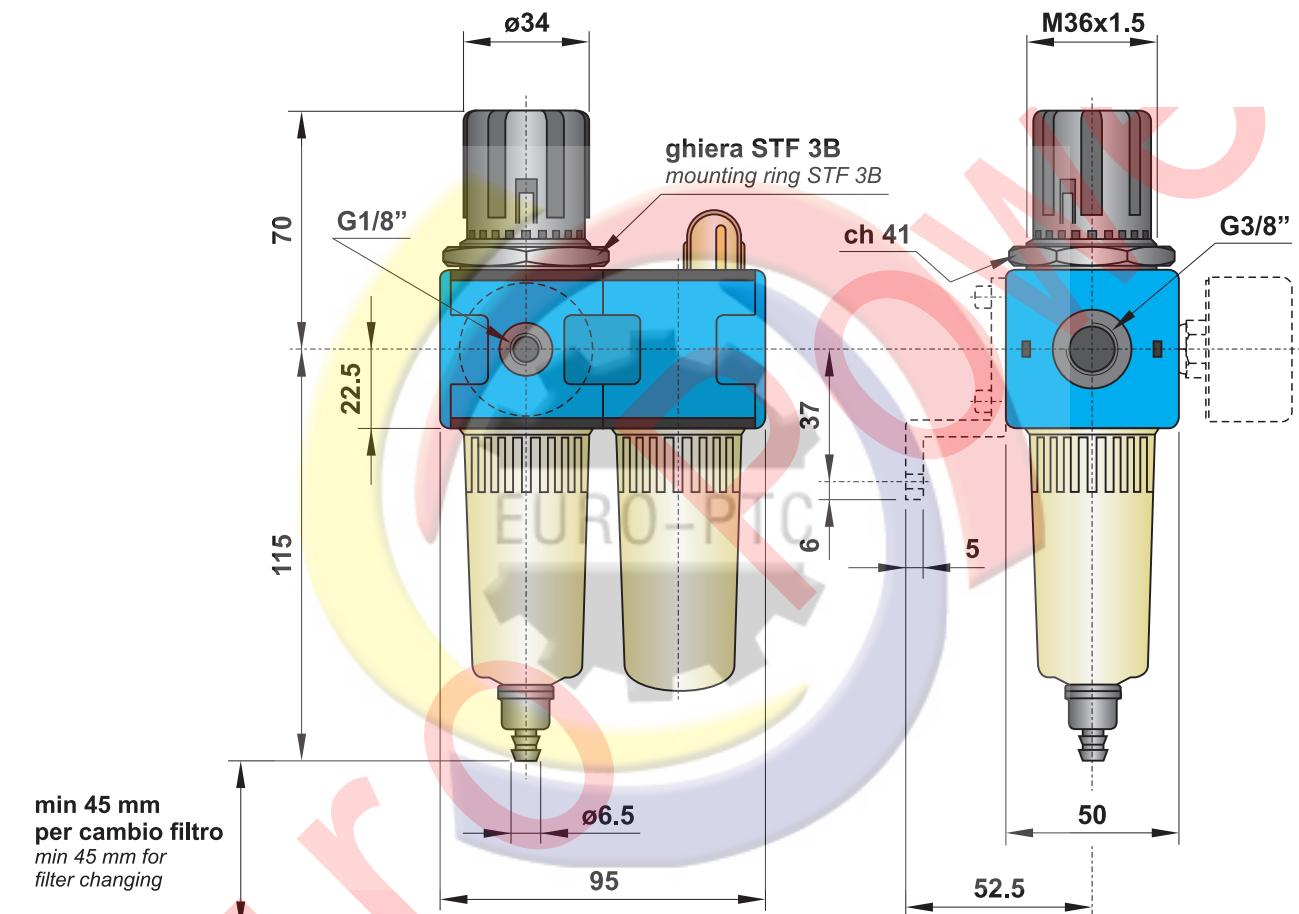
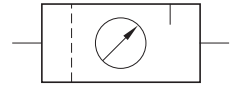


gruppo trattamento aria FR+L G3/8"

G3/8" FR+L air preparation unit



La staffa di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting bracket, ring and manometer are bought separately.



min 45 mm
per cambio filtro
min 45 mm for
filter changing

Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FR+L G1/2"

G1/2" FR+L air preparation unit

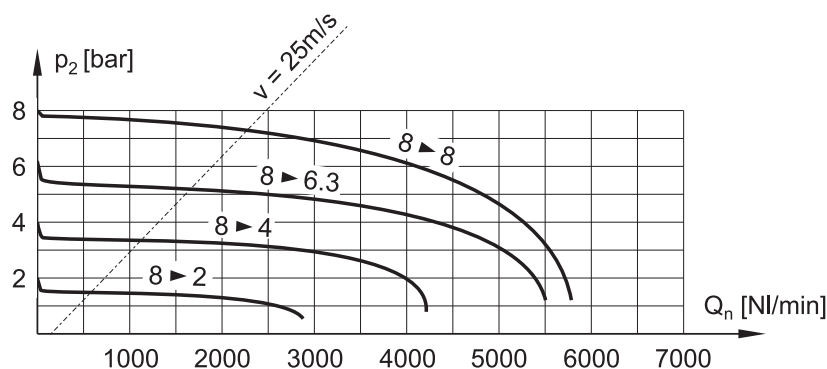


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 57 cm³ (condensa), 112 cm³ (olio)
Bowl capacity: 57 cm³ (moisture), 112 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)
- Protezione metallica della tazza a richiesta (cod. PR 4-00)
Metal bowl protection on request (code PR 4-00)



CODICE DI ORDINAZIONE ORDER CODE		FR+L 4-08-30-S	
Attacchi <i>Ports</i>		G1/2"	
Temperatura di esercizio <i>Temperature range</i>		max +50°C	
Peso <i>Weight</i>		1.5 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min
Elemento filtrante <i>Filter element</i>			30 μm

Caratteristiche di portata
Flow characteristics

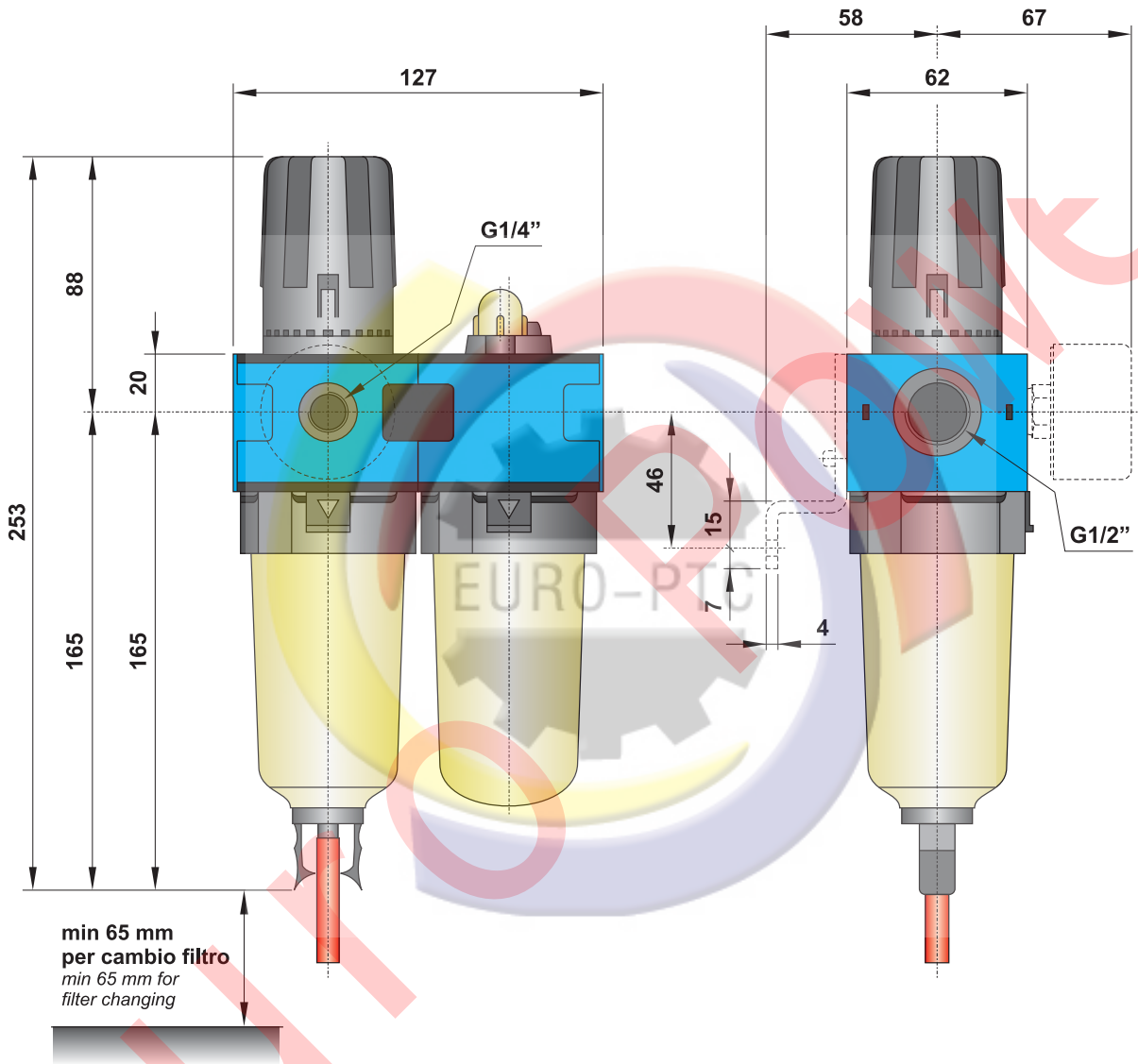
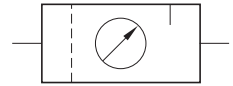


gruppo trattamento aria FR+L G1/2"

G1/2" FR+L air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FR+L G1"

G1" FR+L air preparation unit

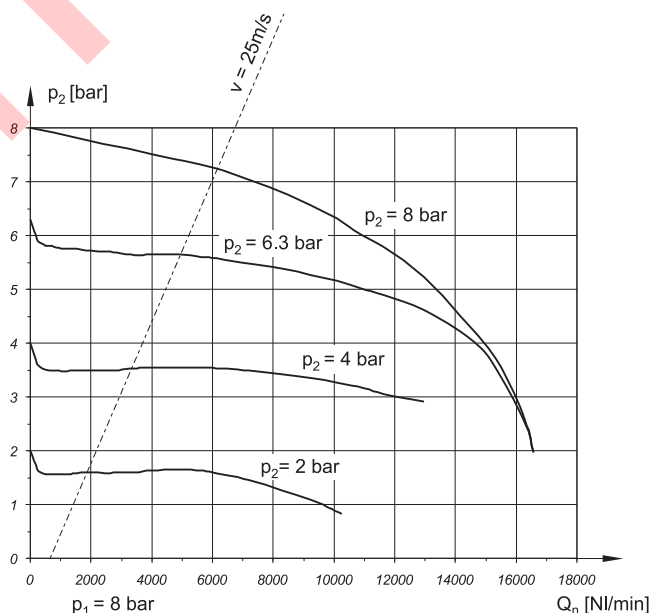


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 130 cm³ (condensa), 500 cm³ (olio)
Bowl capacity: 130 cm³ (moisture), 500 cm³ (oil)
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N; STF 6NA; STF 6NB)
Vertical installation; brackets on request (code STF 6N; STF 6NA; STF 6NB)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE ORDER CODE		FR+L 6N-10-30-S	
Attacchi Ports		G1"	
Temperatura di esercizio Temperature range		max +50°C	
Peso Weight		2.8 kg	
Pressione di alimentazione Inlet pressure range		$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Pressione di utilizzo Outlet pressure range		$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima Maximum flow rate	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{max}	14600 NI/min
Elemento filtrante Filter element			30 μm

Caratteristiche di portata
Flow characteristics

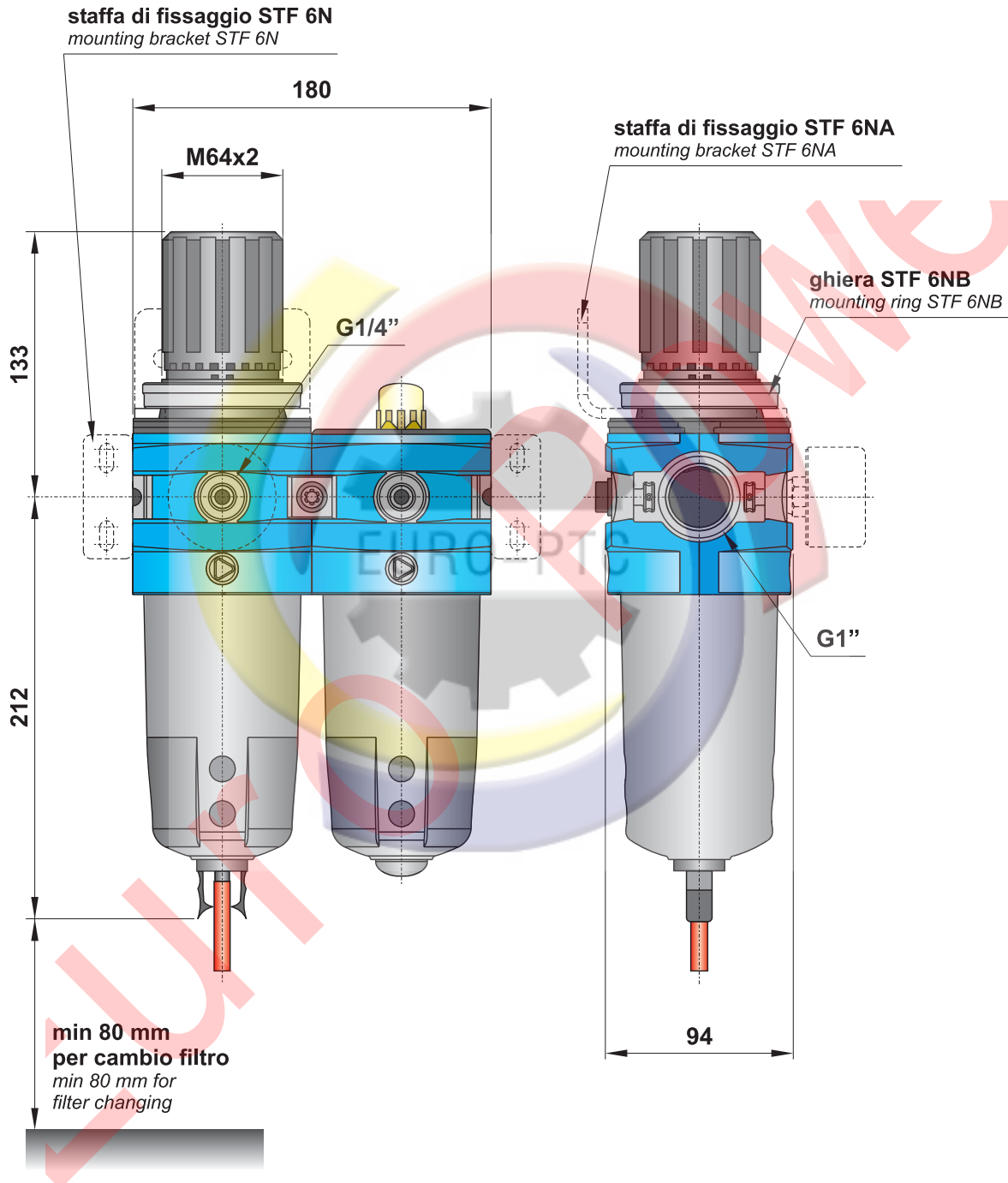
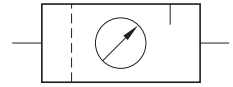


gruppo trattamento aria FR+L G1"

G1" FR+L air preparation unit



Le staffe di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting brackets, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: metalliche

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: metal

gruppo trattamento aria FRL G1/4"

G1/4" FRL air preparation unit

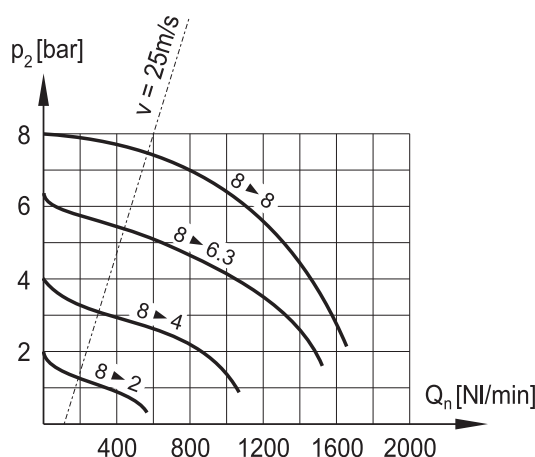


- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 12 cm³ (condensa), 35 cm³ (olio)
Bowl capacity: 12 cm³ (moisture), 35 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 2)
Vertical installation; bracket on request (code STF 2)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FRL 2-08-25-S	
Attacchi <i>Ports</i>		G1/4"	
Temperatura di esercizio <i>Temperature range</i>		max +50°C	
Peso <i>Weight</i>		0.4 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	550 NI/min
Elemento filtrante <i>Filter element</i>			25 μm

Caratteristiche di portata
Flow characteristics



gruppo trattamento aria FRL G3/8"

G3/8" FRL air preparation unit

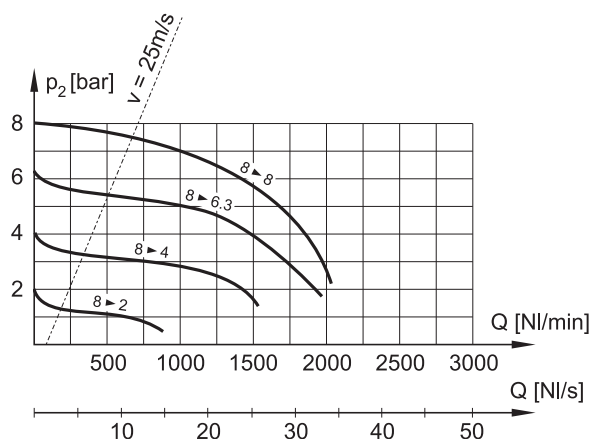


- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 22 cm³ (condensa), 45 cm³ (olio)
Bowl capacity: 22 cm³ (moisture), 45 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
Vertical installation; bracket on request (code STF 3 or STF 3A)
- Protezione metallica della tazza a richiesta (cod. PR 3-00)
Metal bowl protection on request (code PR 3-00)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FRL 3-08-30-S	
Attacchi <i>Ports</i>		G3/8"	
Temperatura di esercizio <i>Temperature range</i>		max +50°C	
Peso <i>Weight</i>		0.95 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	680 NI/min
Elemento filtrante <i>Filter element</i>		30 μm	

Caratteristiche di portata
Flow characteristics

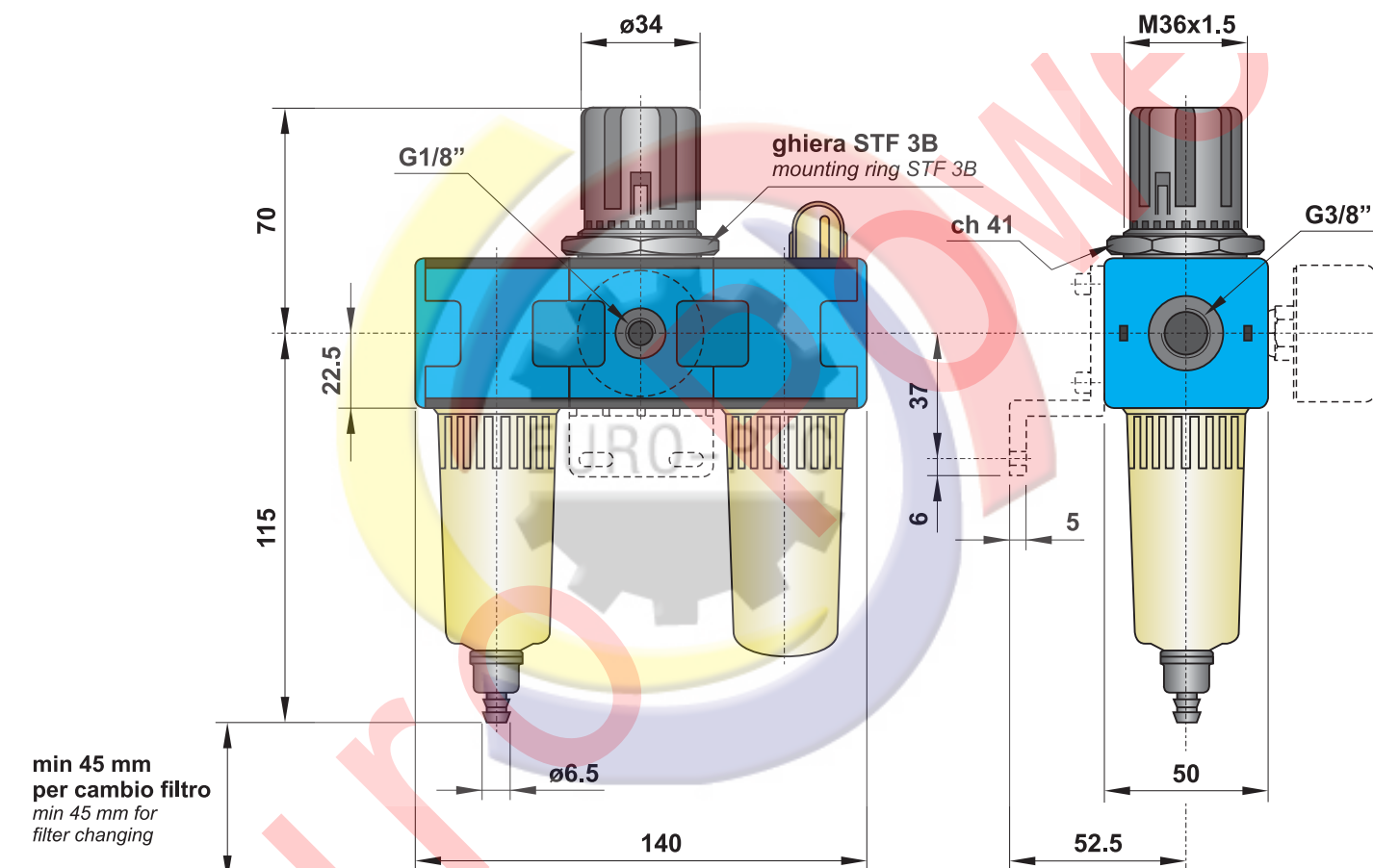
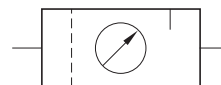


gruppo trattamento aria FRL G3/8"

G3/8" FRL air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FRL G1/2"

G1/2" FRL air preparation unit

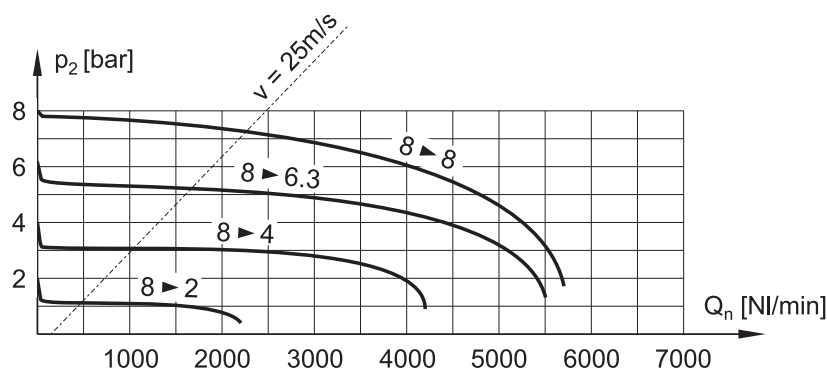


- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 57 cm³ (condensa), 112 cm³ (olio)
Bowl capacity: 57 cm³ (moisture), 112 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)
- Protezione metallica della tazza a richiesta (cod. PR 4-00)
Metal bowl protection on request (code PR 4-00)



CODICE DI ORDINAZIONE ORDER CODE		FRL 4-08-30-S	
Attacchi <i>Ports</i>		G1/2"	
Temperatura di esercizio <i>Temperature range</i>		max +50°C	
Peso <i>Weight</i>		1.85 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min
Elemento filtrante <i>Filter element</i>			30 μm

Caratteristiche di portata
Flow characteristics

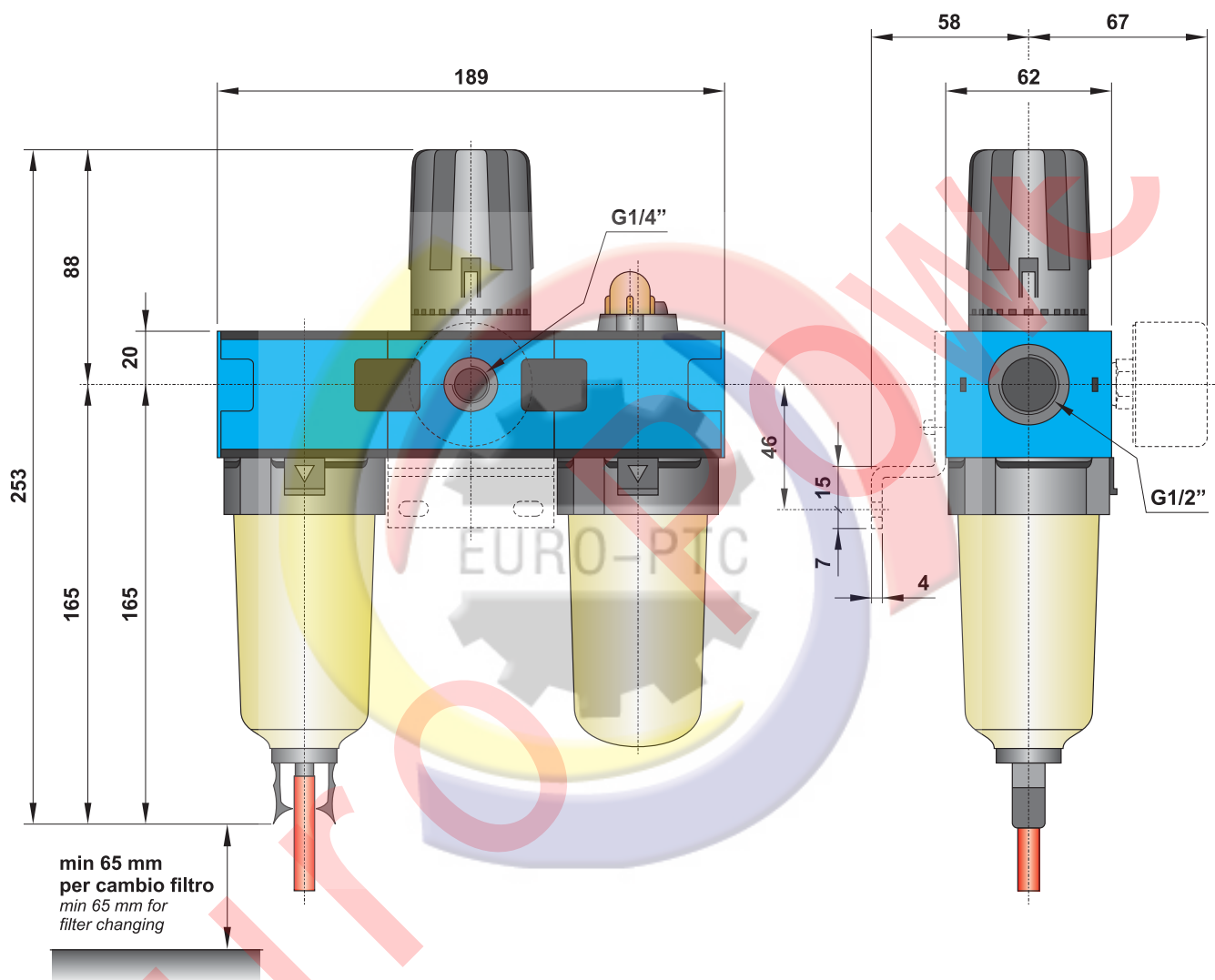
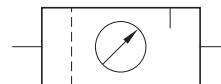


gruppo trattamento aria FRL G1/2"

G1/2" FRL air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FRL G1"

G1" FRL air preparation unit

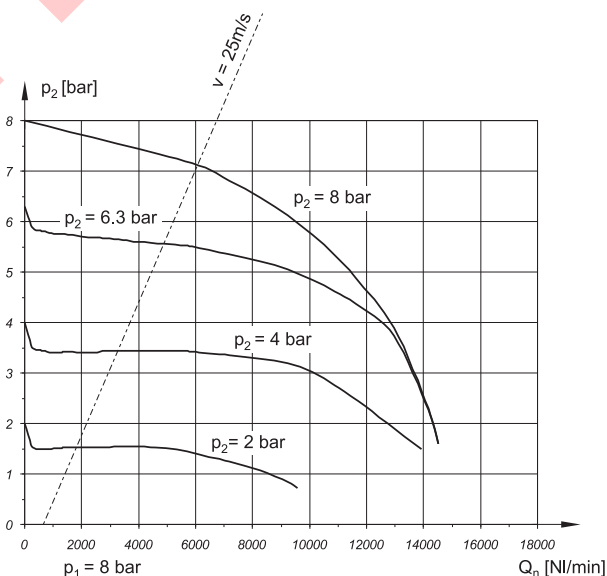


- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 130 cm³ (condensa), 500 cm³ (olio)
Bowl capacity: 130 cm³ (moisture), 500 cm³ (oil)
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N; STF 6NA; STF 6NB)
Vertical installation; brackets on request (code STF 6N; STF 6NA; STF 6NB)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE ORDER CODE		FRL 6N-10-30-S	
Attacchi Ports		G1"	
Temperatura di esercizio Temperature range		max +50°C	
Peso Weight		3.3 kg	
Pressione di alimentazione Inlet pressure range		$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Pressione di utilizzo Outlet pressure range		$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima Maximum flow rate	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{max}	12600 NI/min
Elemento filtrante Filter element		30 μm	

Caratteristiche di portata
Flow characteristics

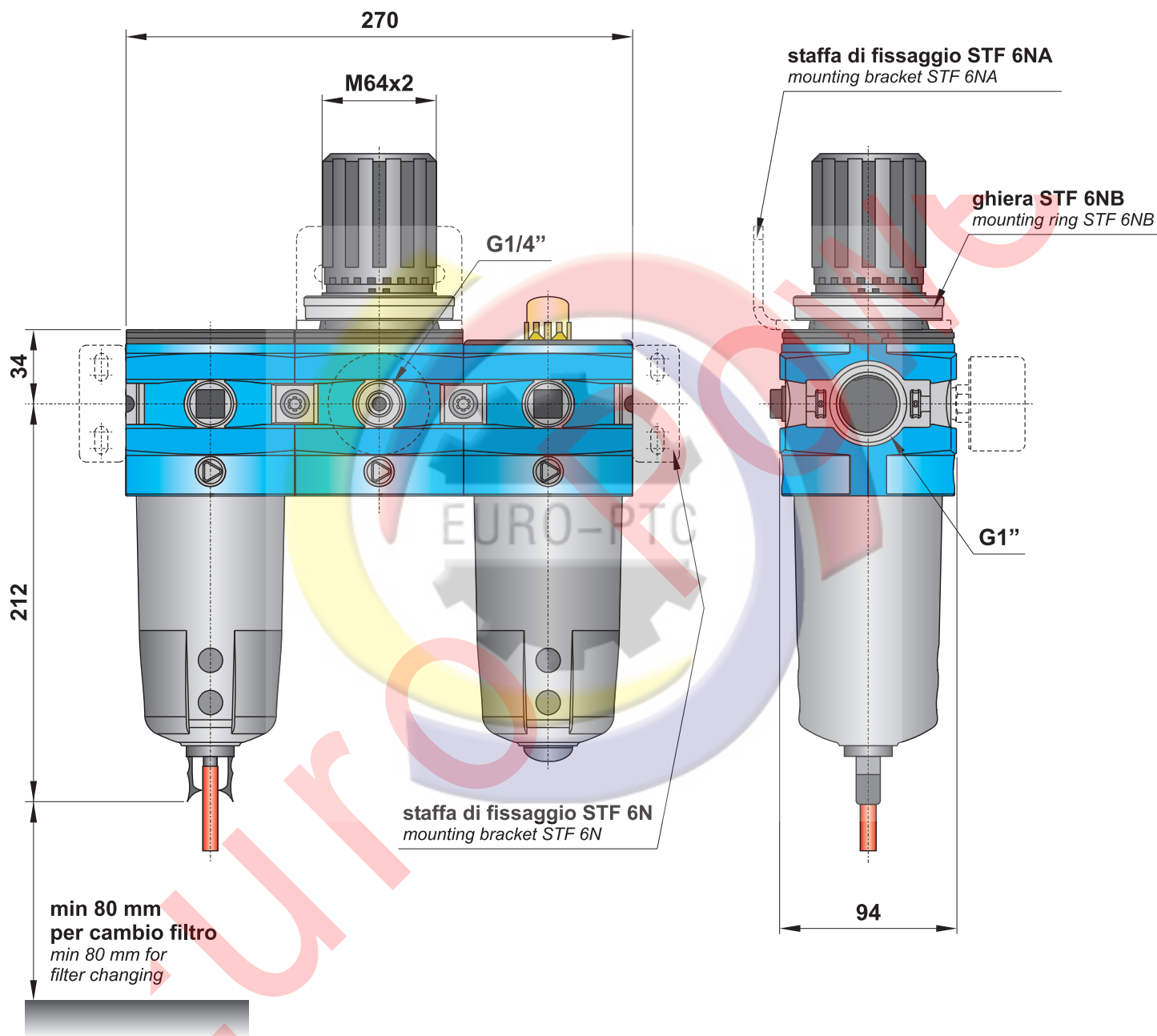
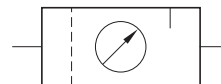


gruppo trattamento aria FRL G1"

G1" FRL air preparation unit



Le staffe di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting brackets, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: metalliche

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: metal

valvola di scarico rapido e avv. prog. G1/4"

G1/4" quick exhaust and slow-start valve



Modalità di funzionamento

Questo tipo di avviatore progressivo è modulare e può essere installato in batteria con i gruppi trattamento aria serie G1/4".

(a) Dopo aver attivato l'avviatore eccitando l'elettropilota, viene fornita al circuito una pressione progressivamente crescente fino alla metà della pressione di rete. Il raggiungimento di questa soglia si effettua nel tempo determinato con la vite di regolazione **R**.

(b) Raggiunta tale pressione, l'avviatore progressivo passa ad alimentare il circuito con la pressione fornita dalla rete. Questa commutazione avviene in modo automatico senza intervento dell'operatore.

Togliendo il comando elettrico di attivazione, l'avviatore progressivo consente lo scarico del circuito senza dover togliere l'alimentazione di rete al punto 1.

È possibile collegare un manometro al punto **M**.

Valve operation

This slow-start valve is modular and can be installed together with air preparation units, series G1/4".

(a) When the pilot solenoid valve is energized, a progressively increasing pressure is applied to the circuit over a period of time set by screw **(R)**.

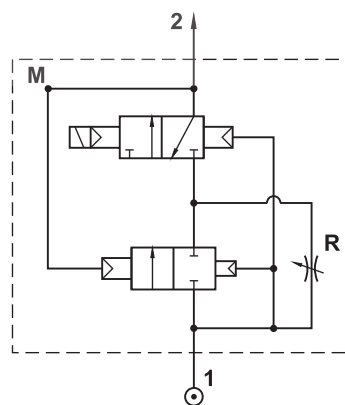
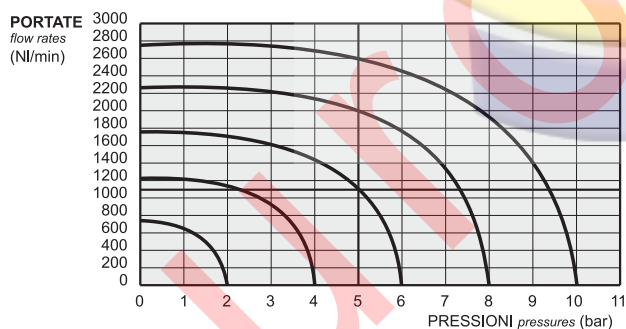
(b) Once the half of the system pressure has been reached, the slow-start valve begins to automatically feed the circuit with the system pressure.

When the solenoid is de-energized the system pressure is exhausted without disconnecting system pressure at point 1.

It is possible to connect a manometer at point **M**.

CODICE DI ORDINAZIONE
ORDER CODE

AVP 2-00



Attacchi <i>Ports</i>	G1/4"
Massima portata nella fase (a) <i>Maximum flow rate in the phase (a)</i>	300 NI/min
Portata nella fase (b) <i>Flow rate in the phase (b)</i>	vedi grafico <i>see graphic</i>
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spole: alluminio nichelato

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spools: nickel plated aluminium

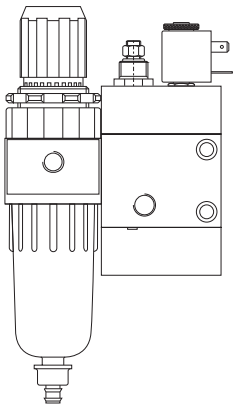
Internal parts: brass OT58

valvola di scarico rapido e avv. prog. G1/4"

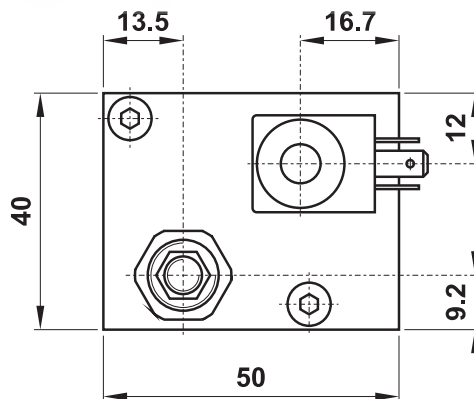
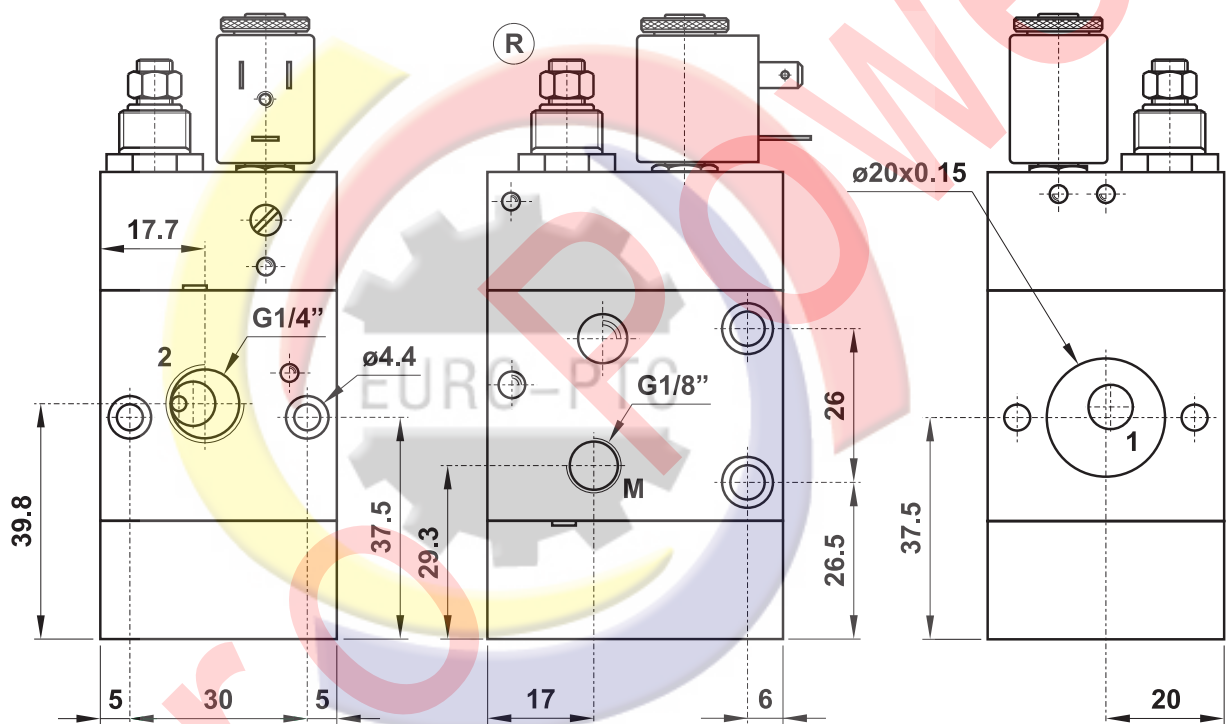
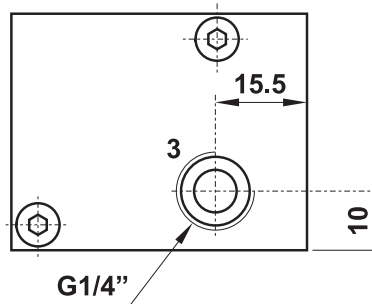
G1/4" quick exhaust and slow-start valve



Esempio di montaggio modulare
Example of modular installation



Il prodotto è venduto senza bobina, da acquistarsi separatamente (vedi pag. 372).
The product is sold without coil, which is bought separately (refer to page 372).



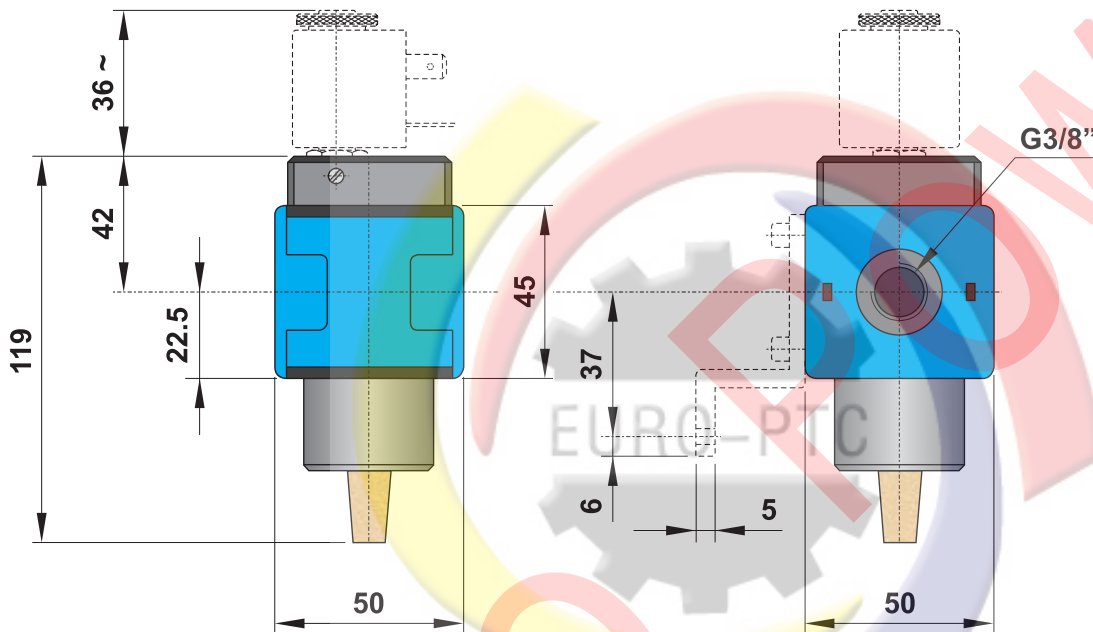
valvola di scarico rapido G3/8"

G3/8" quick exhaust valve



- Valvola 3/2 a comando elettrico o pneumatico
Pneumatically or solenoid actuated 3/2 valve
- Elevata portata in scarico
High exhaust flow rate
- Staffa di fissaggio a richiesta (cod. STF 3)
Mounting bracket on request (code STF 3)

Il prodotto è venduto senza bobina e senza staffa di fissaggio, da acquistarsi separatamente. La bobina deve essere della serie 30 mm (vedi pag. 281).
The product is sold without coil and without mounting bracket, which are bought separately. The coil must be 30 mm (refer to page 281).



Bobine Coils

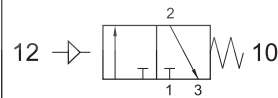
modello model	tensione tension
00.258.0	24V DC
00.259.0	24V 50/60Hz
00.260.0	110V 50/60Hz
00.261.0	220V 50/60Hz

Materiali

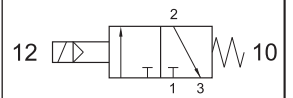
Corpo: alluminio pressofuso
Guarnizioni: NBR
Parti interne: ottone e INOX
Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium
Seals: NBR
Internal parts: brass and stainless steel
External parts: reinforced polymer



comando pneumatico
pneumatically piloted



comando elettrico
solenoid actuated

CODICE DI ORDINAZIONE ORDER CODE

SCR 3-P

SCR 3-E

Attacchi
Ports

G3/8"

G3/8"

Temperatura di esercizio
Temperature range

max +60°C

max +60°C

Peso
Weight

0.5 kg

0.8 kg

Pressione di esercizio
Working pressure range

p_{min}
 p_{max}

2 bar; 0.2 MPa
16 bar; 1.6 MPa

2 bar; 0.2 MPa
10 bar; 1 MPa

Portata raccomandata
Recommended flow rate

$p = 6 \text{ bar a } 25 \text{ m/s}$
 $p = 6 \text{ bar at } 25 \text{ m/s}$

Q_n

850 NI/min

850 NI/min

Portata massima
Maximum flow rate

$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$

Q_{max}

1600 NI/min

1600 NI/min

avviatore progressivo G3/8"

G3/8" slow-start valve



Modalità di funzionamento

La valvola fornisce a un circuito pneumatico aria a pressione progressivamente crescente fino a raggiungere la metà della pressione di rete nel tempo impostato con la vite di regolazione integrata. Durante questa fase non devono essere attivi gli elementi del circuito che consumano aria. Raggiunta la soglia di commutazione, l'avviatore progressivo passa automaticamente a fornire la pressione di rete.

L'avviatore progressivo impedisce eventuali movimenti improvvisi dei dispositivi pneumatici montati nel circuito, che si potrebbero avere se venisse fornita immediatamente la pressione di rete.

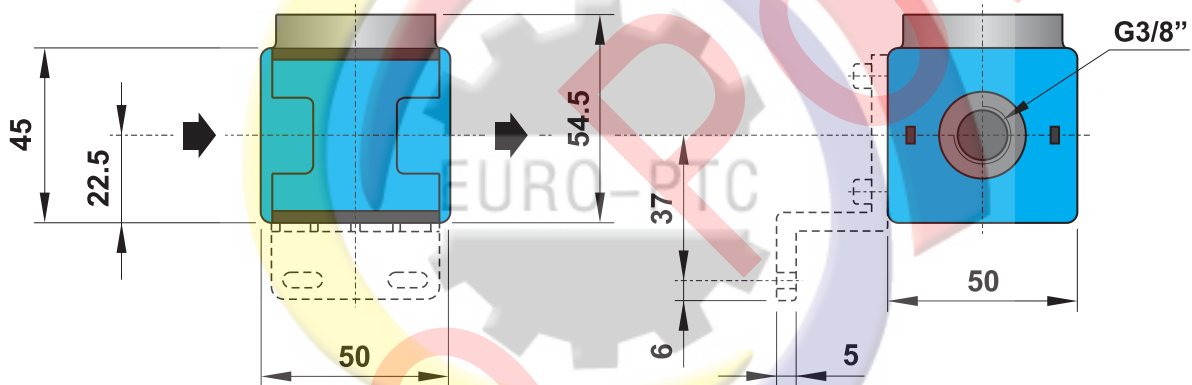
Per il montaggio è disponibile l'apposita staffa (cod. STF 3).

Valve operation

The valve applies to a pneumatic circuit a progressively increasing pressure over a period of time set by the integrated screw. During this phase no air consumption is allowed in the circuit. After having reached the half of the system pressure, the slow-start valve begins to automatically feed the circuit with the system pressure.

The slow-start valve prevents from unexpected motions of the pneumatic devices in the circuit, which could happen by applying directly the system pressure.

On request the mounting bracket (code STF 3) is available.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

La staffa di fissaggio deve essere acquistata separatamente.

Mounting bracket is bought separately.

CODICE DI ORDINAZIONE ORDER CODE		AVP 3-00	
Attacchi Ports		G3/8"	
Temperatura di esercizio Temperature range		max +60°C	
Peso Weight		0.35 kg	
Pressione di esercizio Working pressure range		p_{min} p_{max}	2 bar; 0.2 MPa 16 bar; 1.6 MPa
Portata raccomandata Recommended flow rate	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	850 NI/min
Portata massima Maximum flow rate		Q_{max}	1600 NI/min

valvola di scarico rapido G1/2"

G1/2" quick exhaust valve

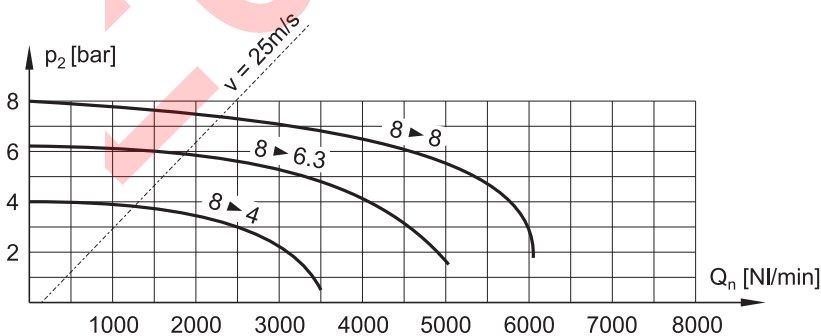


- Valvola 3/2 a comando elettrico o pneumatico
Pneumatically or solenoid actuated 3/2 valve
- Da utilizzarsi da sola o in combinazione con l'avviatore progressivo
To be used standing-alone or with the slow-start valve
- Elevata portata in scarico
High exhaust flow rate
- Staffa di fissaggio a richiesta (cod. STF 4)
Mounting bracket on request (code STF 4)



		comando pneumatico <i>pneumatically piloted</i>	comando elettrico <i>solenoid actuated</i>
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SCR 4-P	SCR 4-E
Attacchi <i>Ports</i>		G1/2"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		max +60°C	max +60°C
Peso <i>Weight</i>		0.7 kg	0.8 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	2 bar; 0.2 MPa 16 bar; 1.6 MPa	2 bar; 0.2 MPa 10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$ Q_n	1900 NI/min	1900 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$ Q_{max}	2900 NI/min	2900 NI/min

Caratteristiche di portata
Flow characteristics



Bobine
Coils

modello <i>model</i>	tensione <i>tension</i>
00.258.0	24V DC
00.259.0	24V 50/60Hz
00.260.0	110V 50/60Hz
00.261.0	220V 50/60Hz

valvola di scarico rapido G1/2"

G1/2" quick exhaust valve

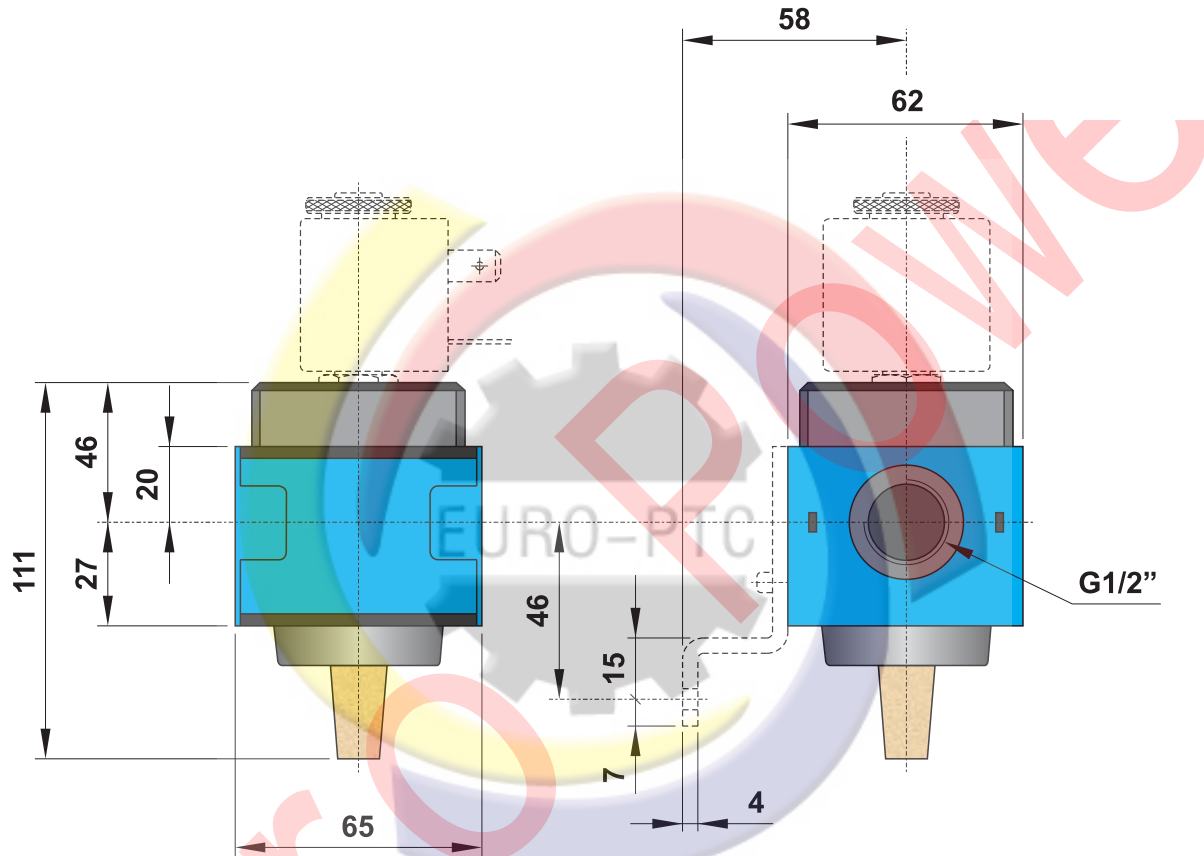


Il prodotto è venduto senza bobina e senza staffa di fissaggio, da acquistarsi separatamente.

La bobina deve essere della serie 30 mm (vedi pag. 281).

The product is sold without coil and without mounting bracket, which are bought separately.

The coil must be 30 mm (refer to page 281).



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

avviatore progressivo G1/2"

G1/2" slow-start valve



Modalità di funzionamento

La valvola fornisce a un circuito pneumatico aria a pressione progressivamente crescente fino a raggiungere la metà della pressione di rete nel tempo impostato con la vite di regolazione integrata. Durante questa fase non devono essere attivi gli elementi del circuito che consumano aria. Raggiunta la soglia di commutazione, l'avviatore progressivo passa automaticamente a fornire la pressione di rete.

L'avviatore progressivo impedisce eventuali movimenti improvvisi dei dispositivi pneumatici montati nel circuito, che si potrebbero avere se venisse fornita immediatamente la pressione di rete.

Per il montaggio è disponibile l'apposita staffa (cod. STF 4).

Valve operation

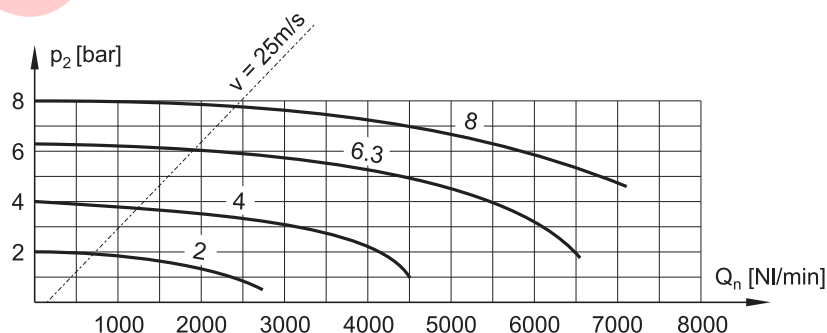
The valve applies to a pneumatic circuit a progressively increasing pressure over a period of time set by the integrated screw. During this phase no air consumption is allowed in the circuit. After having reached the half of the system pressure, the slow-start valve begins to automatically feed the circuit with the system pressure.

The slow-start valve prevents from unexpected motions of the pneumatic devices in the circuit, which could happen by applying directly the system pressure.

On request the mounting bracket (code STF 4) is available.

CODICE DI ORDINAZIONE <i>ORDER CODE</i>			AVP 4-00
Attacchi <i>Ports</i>			G1/2"
Temperatura di esercizio <i>Temperature range</i>			max +60°C
Peso <i>Weight</i>			0.6 kg
Pressione di esercizio <i>Working pressure range</i>		p_{min} p_{max}	2 bar; 0.2 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max}	3700 NI/min

Caratteristiche di portata
Flow characteristics

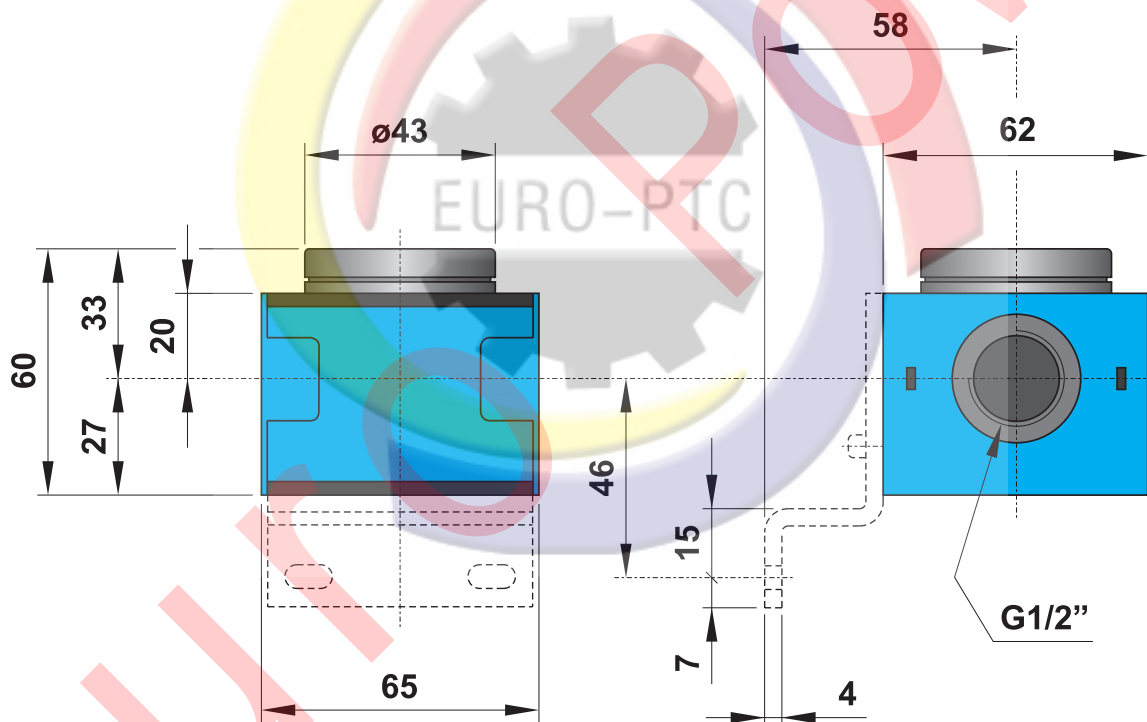
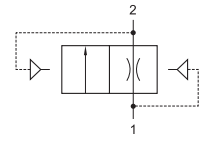


avviatore progressivo G1/2"

G1/2" slow-start valve



La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

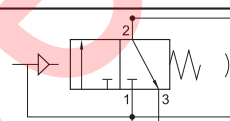
External parts: reinforced polymer

valvola di scarico rapido e avv. prog. G1"

G1" quick exhaust and slow-start valve



- Valvola 3/2 a comando elettrico o pneumatico
Pneumatically or solenoid actuated 3/2 valve
- Avviatore progressivo integrato con valvola di scarico rapido
Slow-start valve integrated with quick exhaust valve
- Elevata portata in scarico
High exhaust flow rate
- Staffa di fissaggio a richiesta (cod. STF 6N)
Mounting bracket on request (code STF 6N)



comando elettrico
solenoid actuated

CODICE DI ORDINAZIONE
ORDER CODE

AVP 6N-01

Attacchi
Ports

G1"

Temperatura di esercizio
Temperature range

max +50°C

Peso
Weight

1.5 kg

Pressione di esercizio
Working pressure range

P_{min}
 P_{max}

2 bar; 0.2 MPa
16 bar; 1.6 MPa

Portata raccomandata
Recommended flow rate

$p = 6 \text{ bar a } 25 \text{ m/s}$
 $p = 6 \text{ bar at } 25 \text{ m/s}$

Q_n

5500 NI/min

Portata massima
Maximum flow rate

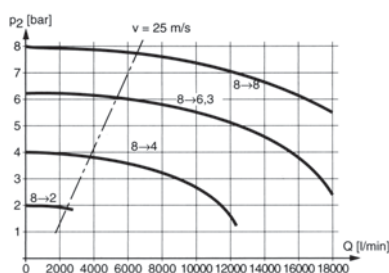
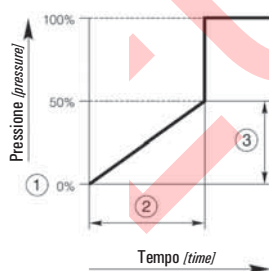
$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$

Q_{max}

12000 NI/min

Caratteristiche di portata
Flow characteristics

Bobine
Coils



modello <i>model</i>	tensione <i>tension</i>
00.258.0	24V DC
00.259.0	24V 50/60Hz
00.260.0	110V 50/60Hz
00.261.0	220V 50/60Hz

1. Segnale di avvio [start signal]
2. Ritardo di commutazione [switching time delay]
3. Graduale salita di pressione [gradual pressure build up]
4. Pressione di lavoro $p_2 = p_1$ [operating pressure $p_2 = p_1$]

valvola di scarico rapido e avv. prog. G1"

G1" quick exhaust and slow-start valve

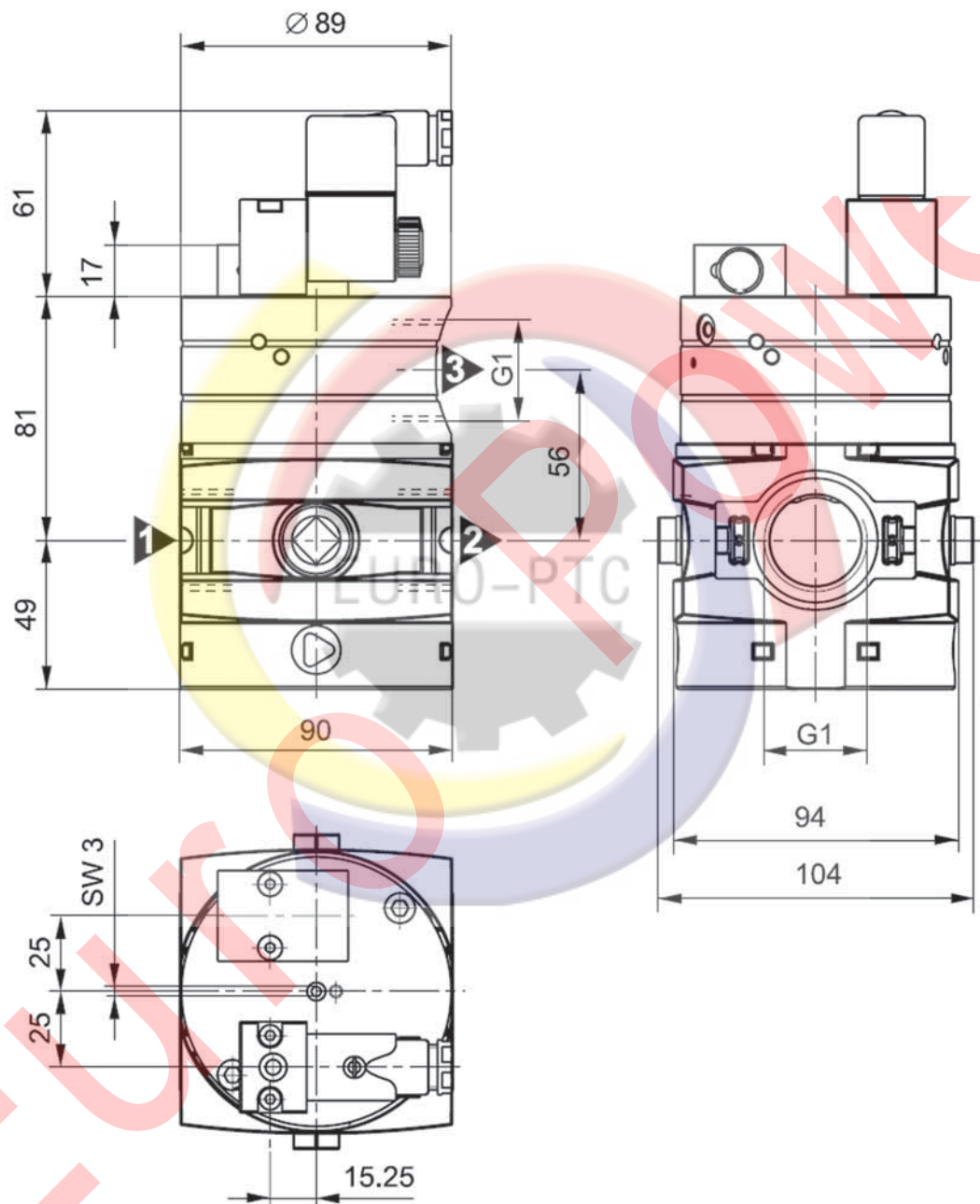


Il prodotto è venduto senza bobina e senza staffa di fissaggio, da acquistarsi separatamente.

La bobina deve essere della serie 30 mm (vedi pag. 281).

The product is sold without coil and without mounting bracket, which are bought separately.

The coil must be 30 mm (refer to page 281).



Materiali

Corpo: alluminio

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: aluminium

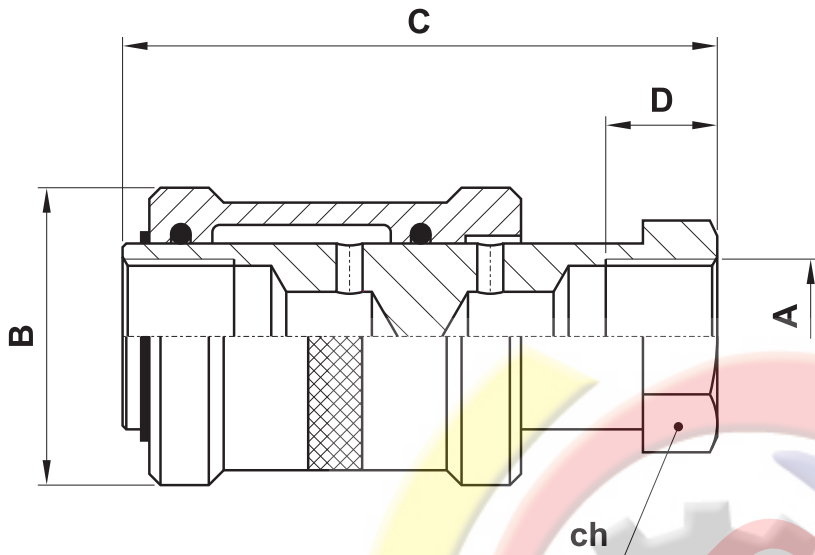
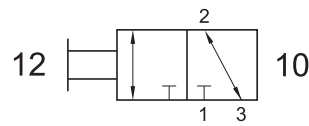
Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

valvole sezionatrici a corsoio

shut-off slide valves



modello model	A	B	C	D	ch
AZ-CRS1	G1/8"	ø25	48	10	14
AZ-CRS2	G1/4"	ø30	58	12	17
AZ-CRS3	G3/8"	ø35	68	12	22
AZ-CRS4	G1/2"	ø40	75	15	27

Materiali

Corpo: ottone OT58

Guarnizioni: NBR

Corsoio: alluminio 11S

Materials

Body: brass OT58

Seals: NBR

Slide: aluminium 11S

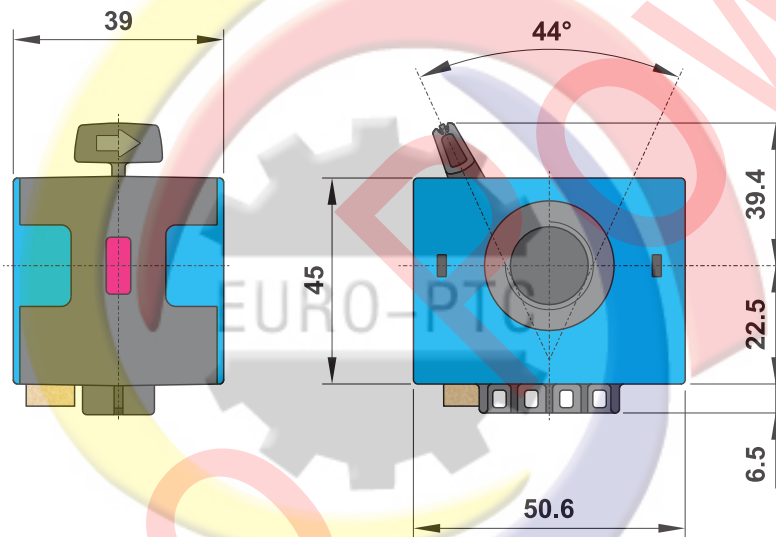
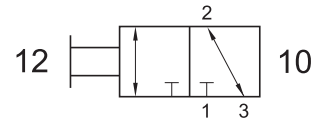
Attacchi Ports	G1/8"; G1/4"; G3/8"; G1/2"
Temperatura di esercizio Temperature range	max +60°C
Pressione di esercizio Working pressure	1 ... 10 bar 0.1 ... 1 MPa
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

valvola di sezionamento circuito 3/2 G3/8"

3/2 G3/8" shut-off valve



- Elemento modulare ad alte prestazioni
High performance modular element
- Elevata portata in scarico
High exhaust flow rate
- Possibilità di chiusura a lucchetto
It can be secured with a padlock
- Installazione in qualsiasi posizione
Installation in any position



Materiali

Corpo: alluminio pressofuso
Parti interne: INOX
Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium
Internal parts: stainless steel
External parts: reinforced polymer

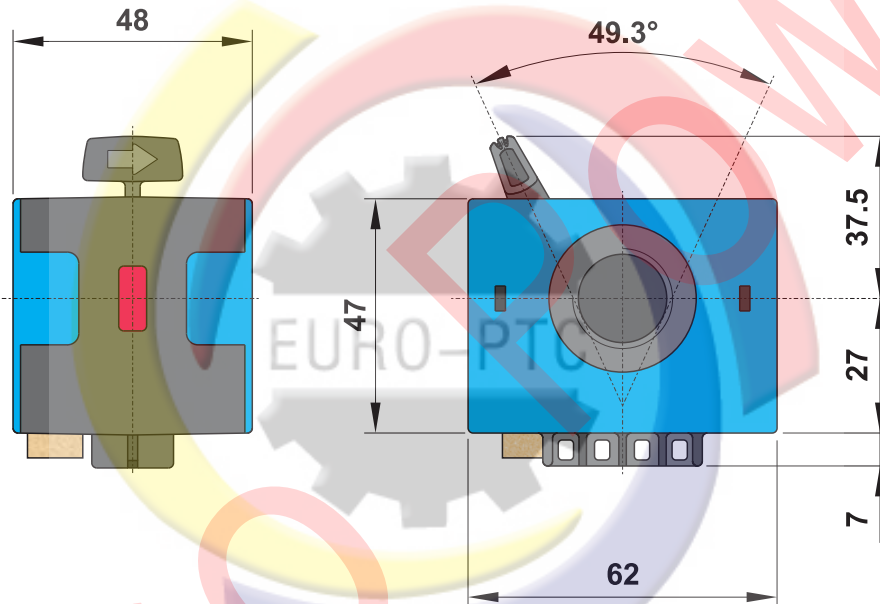
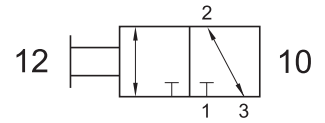
CODICE DI ORDINAZIONE ORDER CODE		SR-M3
Attacchi Ports		G3/8"
Temperatura di esercizio Temperature range		max +60°C
Peso Weight		0.25 kg
Pressione di esercizio Working pressure range	p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata Recommended flow rate	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 850 NI/min
Portata massima Maximum flow rate		Q_{max} 5300 NI/min

valvola di sezionamento circuito 3/2 G1/2"

3/2 G1/2" shut-off valve



- Elemento modulare ad alte prestazioni
High performance modular element
- Elevata portata in scarico
High exhaust flow rate
- Possibilità di chiusura a lucchetto
It can be secured with a padlock
- Installazione in qualsiasi posizione
Installation in any position



Materiali

Corpo: alluminio pressofuso
Parti interne: INOX
Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium
Internal parts: stainless steel
External parts: reinforced polymer

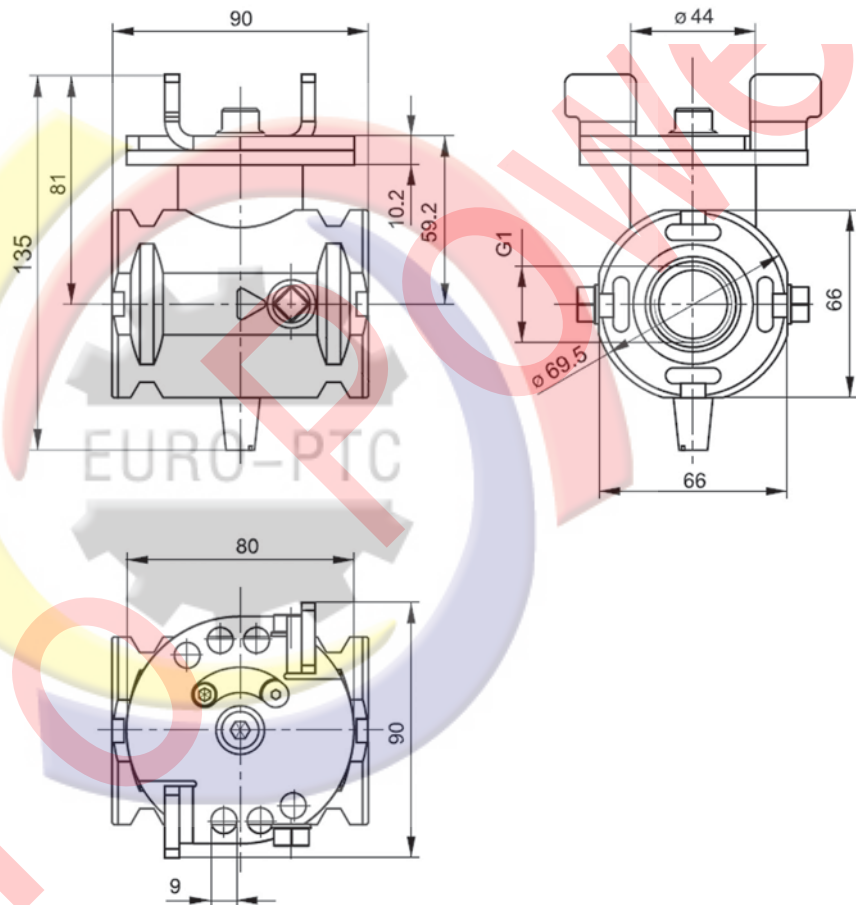
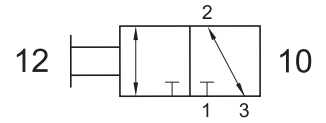
CODICE DI ORDINAZIONE ORDER CODE		SR-M4
Attacchi Ports		G1/2"
Temperatura di esercizio Temperature range		max +60°C
Peso Weight		0.4 kg
Pressione di esercizio Working pressure range	p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata Recommended flow rate	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 1900 NI/min
Portata massima Maximum flow rate		Q_{max} 7500 NI/min

valvola di sezionamento circuito 3/2 G1"

3/2 G1" shut-off valve



- Elemento modulare ad alte prestazioni
High performance modular element
- Elevata portata in scarico
High exhaust flow rate
- Possibilità di chiusura a lucchetto
It can be secured with a padlock
- Installazione in qualsiasi posizione
Installation in any position



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Materials

Body: die-cast aluminium

Seals: NBR

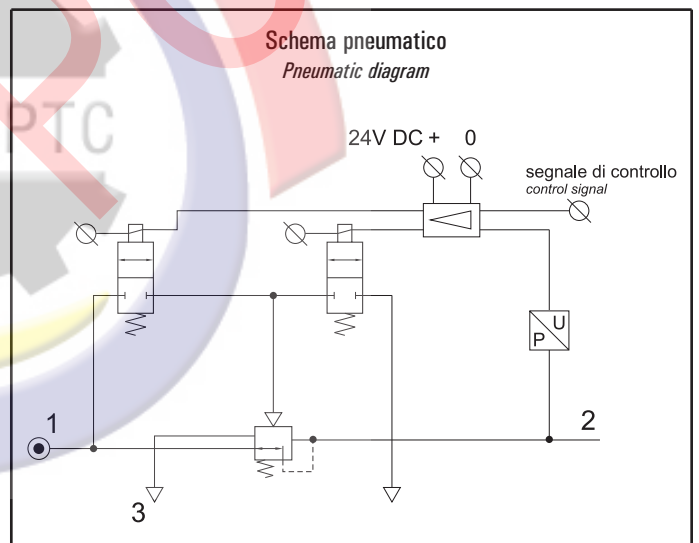
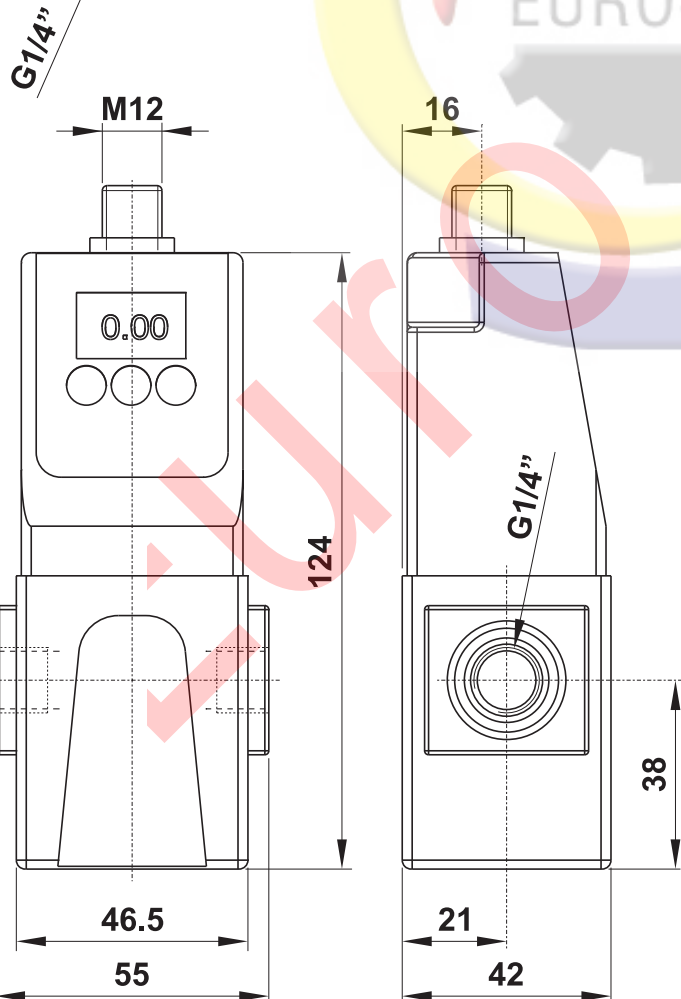
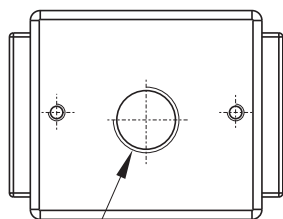
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SR-M6N
Attacchi <i>Ports</i>		G1"
Temperatura di esercizio <i>Temperature range</i>		-10 ... +50°C
Peso <i>Weight</i>		1.2 kg
Pressione di esercizio <i>Working pressure range</i>	P_{min} P_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata massima <i>Maximum flow rate</i>	Q_{max}	20000 NI/min

regolatore proporzionale elettronico G1/4"

electronically controlled proportional pressure regulator G1/4"



- Valvola di regolazione a pistone
Piston-type pressure regulating valve
- Controllo elettronico remoto
Remote electronic control
- Nessun consumo d'aria in condizioni di regolazione stabile
No air consumption in steady conditions
- Display per visualizzazione e programmazione
Display for data viewing and programming
- Installazione verticale; staffa di fissaggio a richiesta
Vertical installation; bracket on request



Materiali

Corpo: alluminio

Molle: INOX

Guarnizioni: NBR

Parti interne: alluminio e INOX

Parti esterne: polimeri rinforzati

Materials

Body: aluminium

Springs: stainless steel

Seals: NBR

Internal parts: aluminium and stainless steel

External parts: reinforced polymer

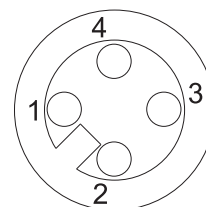
regolatore proporzionale elettronico G1/4"

electronically controlled proportional pressure regulator G1/4"



CODICE DI ORDINAZIONE ORDER CODE		RPE 2V NA	
		normalmente aperto normally open	
Attacchi Ports	G1/4"		
Temperatura di esercizio Temperature range	max +50°C		
Fluido Fluid	Aria filtrata 40µ con o senza lubrificazione 40µ filtered, lubricated or non lubricated air		
Peso Weight	290 g		
Caratteristiche pneumatiche - Pneumatic characteristics			
Pressione di alimentazione ($p_1 \geq p_2 + 0.1 \cdot p_2$) Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0.5 bar; 0.05 MPa 10.5 bar; 1.05 MPa	
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.2 bar; 0.02 MPa 10 bar; 1 MPa	
Portata massima Maximum flow rate	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}$	Q_n	1000 NI/min
Isteresi Hysteresis	% $p_{2 \max}$	1.3	
Linearità Linearity	% $p_{2 \max}$	< 0.5	
Caratteristiche elettriche - Electrical characteristics			
Voltaggio nominale Nominal voltage	U_N	24V DC $\pm 10\%$	
Oscillazione residua Residual ripple	10%		
Potenza Power consumption	1.1 W		
Tensione del segnale di regolazione Tension of set value input	U_w	0-10 V	
Intensità del segnale di regolazione Current intensity of set value input	I_w	4-20 mA	
Resistenza in ingresso Input resistance	R_E	100 kΩ	
Protezione elettrica secondo DIN 40050, EN 60529 Electrical protection according to DIN 40050, EN 60529	IP 65		

Schema di collegamento
Connection diagram



Connessione M12
Connection M12

Punto 1 (marrone):

Alimentazione (polo positivo) +24V DC $\pm 10\%$ 0.15 A
Oscillazione residua ammessa fino a 10%

Punto 2 (bianco): Ingresso del segnale di regolazione: tensione da 0 a 10V.

Punto 3 (blu):
Alimentazione 0V

Punto 4 (nero):
Segnale 24V di allarme in uscita (1kΩ)

Pin 1 (brown): Power supply +24V DC $\pm 10\%$ 0.15A, residual ripple 10%

Pin 2 (white): Set value input. Voltage 0-10V.

Pin 3 (blue): Power supply 0V

Pin 4 (black): 24V alarm output signal (1kΩ)

Il regolatore proporzionale può essere comandato elettronicamente mediante un segnale analogico da 0 a 10V. Tramite il software e il display la regolazione in ingresso può essere commutata in 4-20 mA (500Ω).

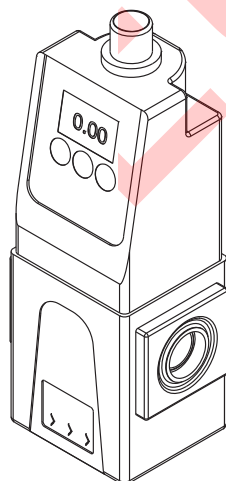
Anche il campo della pressione di alimentazione può essere variato modificando l'opportuno parametro.

Quando la pressione di uscita rientra nella banda di segnale, viene fornito un segnale in uscita a 24V DC, PNP Ri = 1kΩ. Fuori dalla banda di segnale questo collegamento è posto a 0V.

The proportional regulator can be electronically controlled by an analogic signal from 0 to 10V. The user can change the parameter by the internal software and display to control the regulator by a signal from 4 to 20 mA (500Ω).

The inlet pressure range can also be changed by an internal parameter. As soon as the output pressure is within the signal band a signal is given of 24V DC, PNP Ri = 1 kΩ.

Outside the signal band this connection is 0V.



Le staffe di fissaggio devono essere acquistate separatamente

16.176.0: per montaggio su barra omega

16.177.0: piedino

Mounting brackets are bought separately

16.176.0: for omega-profile

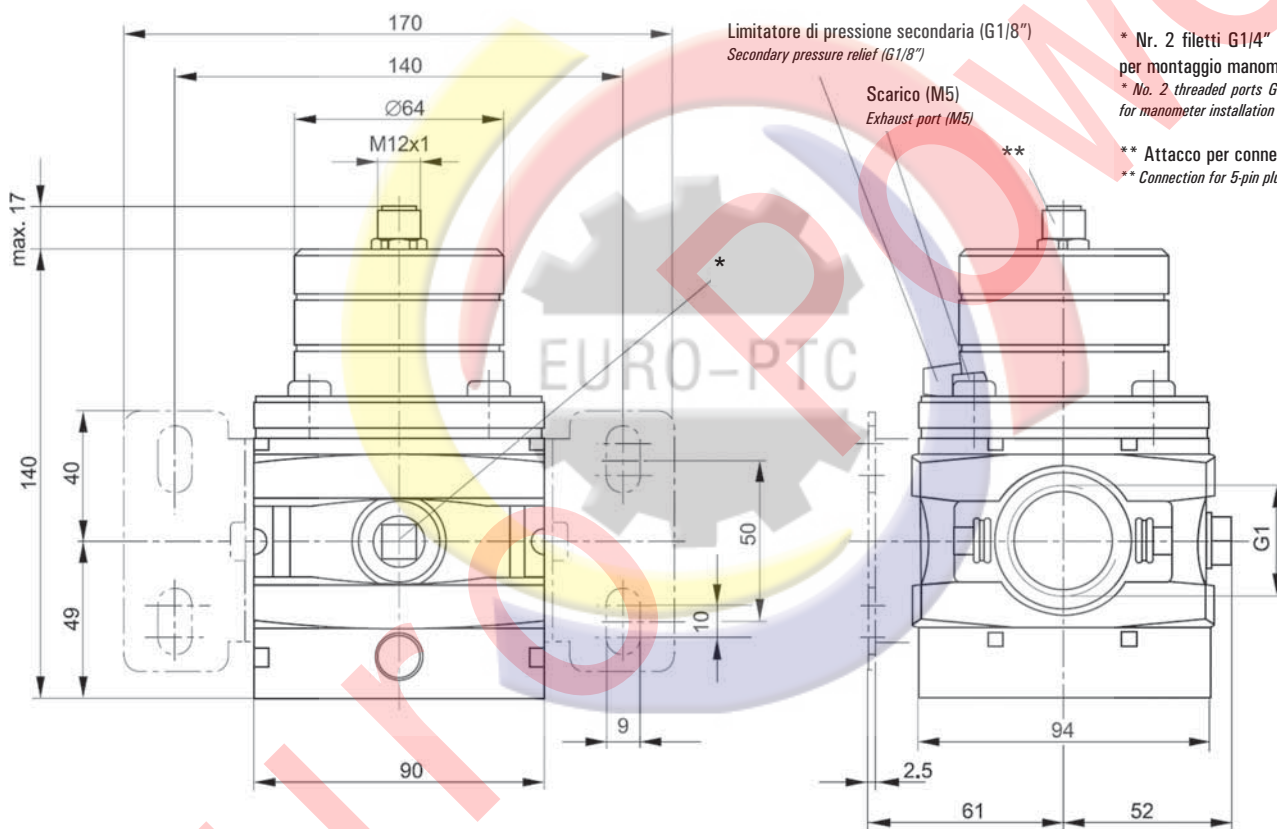
16.177.0: foot mounting

regolatore proporzionale elettronico G1"

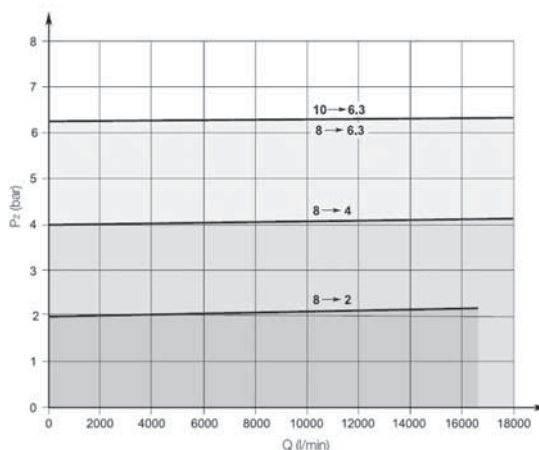
electronically controlled proportional pressure regulator G1"



- Valvola di regolazione a pistone
Piston-type pressure regulating valve
- Controllo elettronico remoto
Remote electronic control
- Nessun consumo d'aria in condizioni di regolazione stabile
No air consumption in steady conditions
- Struttura modulare, compatibile con gli altri elementi della serie G1"
Modular design, direct coupling with G1" units
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 6N)
Vertical installation; bracket on request (code STF 6N)



Caratteristiche di portata
Flow characteristics



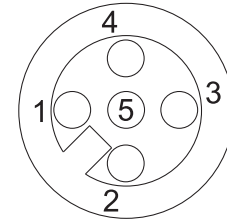
regolatore proporzionale elettronico G1"

electronically controlled proportional pressure regulator G1"



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		RPE 6N VNC	
		normalmente chiuso <i>normally closed</i>	
Attacchi <i>Ports</i>		G1"	
Temperatura di esercizio <i>Temperature range</i>		max +50°C	
Fluido <i>Fluid</i>	Aria filtrata 40µ con o senza lubrificazione <i>40µ filtered, lubricated or non lubricated air</i>		
Peso <i>Weight</i>		1.2 kg	
Caratteristiche pneumatiche - Pneumatic characteristics			
Pressione di alimentazione ($p_1 \geq p_2 + 0.1 \cdot p_2$) <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	1 bar; 0.1 MPa 16 bar; 1.6 MPa	
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.2 bar; 0.02 MPa 10 bar; 1 MPa	
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}$	Q_n	20000 NI/min
Isteresi <i>Hysteresis</i>	% $p_{2 \max}$	< 1	
Ripetibilità <i>Repeatability</i>	% $p_{2 \max}$	< 0.5	
Sensibilità <i>Sensitivity</i>	% $p_{2 \max}$	< 0.5	
Linearità <i>Linearity</i>	% $p_{2 \max}$	< 1	
Caratteristiche elettriche - Electrical characteristics			
Voltaggio nominale <i>Nominal voltage</i>	U_N	24V DC $\pm 10\%$	
Oscillazione residua <i>Residual ripple</i>		10%	
Consumo di corrente <i>Power consumption</i>		0.15 A	
Tensione del segnale di regolazione <i>Tension of set value input</i>	U_W	0-10 V	
Intensità del segnale di regolazione <i>Current intensity of set value input</i>	I_W	0-20 mA	
Resistenza in ingresso <i>Input resistance</i>	R_E	243 kΩ	
Tensione del segnale di rilevazione della pressione in uscita <i>Tension of actual value output</i>	U_X	0-10 V	
Intensità del segnale di rilevazione della pressione in uscita <i>Current intensity of actual value output</i>	$I_{X \max}$	10 mA	
Protezione elettrica secondo DIN 40050, EN 60529 <i>Electrical protection according to DIN 40050, EN 60529</i>		IP 65	

Schema di collegamento
Connection diagram



Punto 1:

Alimentazione (polo positivo) +24V DC $\pm 10\%$ 0.15 A
Oscillazione residua ammessa fino a 10%

Punto 2:

Alimentazione 0V
Potenziale di riferimento per l'impostazione del valore di regolazione e per la misurazione del valore di pressione effettivamente presente in uscita.

Punto 3: Ingresso del segnale di regolazione: tensione da 0 a 10V.

Punto 4:

Segnale 0V
Nello standard è connesso a bordo con il punto 2.

Punto 5: Rilevamento della pressione effettivamente presente in uscita. Uscita analogica variabile da 0 a 10V. La tensione viene misurata in riferimento al potenziale presente al punto 2. Tolleranza $\pm 0.15V$.

Pin 1: Power supply +24V DC $\pm 10\%$ 0.15A, residual ripple 10%

Pin 2: Power supply 0V, reference and mass capacity potential for set and actual value.

Pin 3: Set value input. Voltage 0-10V.

Pin 4: 0V set signal. Connected on board with pin 2 as standard.

Pin 5: Analog actual value output. Voltage from 0 to 10V. The voltage is measured with reference to the potential at pin 2. Tolerance $\pm 0.15V$.

Materiali

Corpo: alluminio

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: aluminium

Springs: stainless steel

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

La staffa di fissaggio (cod. STF 6N), il kit di assemblaggio (cod. KIT 6N-00) e il manometro devono essere acquistati separatamente.

Mounting bracket (code STF 6N), coupling kit (code KIT 6N-00) and manometer are bought separately.

Sensibilità

La minima variazione del valore di regolazione che causa una effettiva variazione della pressione in uscita è denominata "sensibilità" e si esprime in percentuale rispetto al valore massimo di pressione consentito dal dispositivo di regolazione. Nel caso del nostro regolatore di pressione proporzionale, il valore di sensibilità è inferiore allo 0.5%. Ciò significa che la regolazione è molto precisa.

Linearità

Esprimendo la pressione in uscita in funzione del valore di regolazione impostato, si dovrebbe poter ottenere una funzione lineare che consenta di predire quale sarà il valore in uscita in riferimento a un dato valore impostato. Esiste però una differenza tra il valore teoricamente previsto e il valore effettivamente presente in uscita, ed essa si può calcolare sulla base della massima deviazione rispetto al valore teorico corrispondente alla massima pressione consentita dal dispositivo di regolazione. La linearità si esprime in percentuale rispetto a questa massima pressione.

Isteresi

L'isteresi è causata dall'attrito e da una temporanea deformazione delle parti interne di natura elastica soggette a pressione. Durante il funzionamento si possono pertanto notare differenti pressioni in uscita in riferimento a un medesimo valore di regolazione. Questi diversi valori dipendono anche dal senso della regolazione, che può andare dal basso verso l'alto o dall'alto verso il basso. Il valore di isteresi del nostro regolatore di pressione è inferiore a 0.1 bar.

Ripetibilità

Impostando ripetutamente e in tempi distinti un medesimo valore di regolazione, i diversi valori di pressione effettivamente ottenuti in uscita sono pressoché identici e differiscono meno tra di loro che rispetto al valore teorico impostato. Una isteresi minore consente pertanto una ripetibilità migliore.

Ansprechempfindlichkeit

Die kleinste Sollwertdifferenz, die zu einer Änderung des Ausgangsdruckes führt, wird als Ansprechempfindlichkeit bezeichnet. In Prozentsatz vom maximalen Ausgangsdruck angegeben, beträgt dieser Wert nur 0.5%. Das ermöglicht eine sehr feinfühligkeit Einstellbarkeit des Ausgangsdruckes.

Linearität

Wird der Ausgangsdruck in Abhängigkeit vom Sollwert dargestellt, sollte sich eine möglichst gerade (lineare) Kennlinie ergeben, so dass möglichst exakt vorhergesagt werden kann, welcher Druck bei der jeweiligen Vorgabe zu erwarten ist. Die Abweichung errechnet sich aus der maximalen Differenz zur idealen Kennlinie, bezogen auf den höchstmöglichen Ausgangsdruck.

Hysterese

Die Hysterese wird auch Umkehrspanne genannt und entsteht durch Reibung sowie kurzfristige Verformung elastischer Bauteile. Für den Betrieb ergeben sich dadurch unterschiedliche Ausgangsdrücke bei gleicher Sollwert-Vorgabe, je nachdem, ob der vorhergegangene Wert größer oder kleiner war. Unser elektronisch gesteuertes Druckregelventil hat eine Abweichung kleiner als 0.1 bar.

Wiederholgenauigkeit

Regelungstechnische Komponenten sind in der Wiederholung eines einmal eingestellten Wertes genauer als beim Anfahren absoluter Werte. Darüber hinaus wird die Wiederholgenauigkeit durch eine möglichst kleine Hysterese günstig beeinflusst.

Sensitivity

The smallest change of set output pressure which leads to a change in actual output pressure is named "sensitivity" and it is expressed as percentage of the maximum output pressure possible for the device. The sensitivity of our pressure regulator is below 0.5%, which allows output pressure to be set very precisely.

Linearity

The ideal graphic curve which shows the output pressure in relation with the electronic input signal would be a straight (linear) line. This line would allow to predict which output pressure can be expected when a certain input voltage is applied. The deviation from the ideal value can be calculated on the basis of the difference between the ideal and the actual output value at the highest pressure allowed by the device, and it is expressed in percentage of this maximum output pressure.

Hysteresis

The same set output pressure generates slightly different actual output pressures, depending on whether the previous setting was higher or lower. This difference, known as hysteresis, is caused by friction and temporary deformation of elastic components. The hysteresis of our pressure regulator is below 0.1 bar.

Repeatability

Control components, for a given set value, usually produce repeated actual values which differ less from each other than from the absolute set value. Repeatability is improved if hysteresis is minimized.

Občutljivost

Najmanjša sprememba nastavljenega izhodnega pritiska, ki povzroči dejansko spremembo pritiska na izhodu naprave, se imenuje občutljivost in se izraža kot odstotek največjega možnega pritiska na izhodu naprave. Občutljivost našega tlačnega regulatorja je manjša od 0.5%, kar omogoča zelo precizno nastavitvev izhodnega pritiska.

Linearnost

Idealna krivulja, ki predstavlja odvisnost izhodnega pritiska od električnega vhodnega signala, je premica. S tako krivuljo bi lahko enostavno predvideli, kakšen bo pritisk na izhodu ob določeni električni napetosti na vhodu. Odstopanje od te idealne krivulje je moč izračunati iz razlike med idealno krivuljo in dejansko vrednostjo pritiska na izhodu, ko ta doseže največjo možno vrednost; odmik izražamo kot odstotek maksimalnega možnega pritiska na izhodu naprave.

Histereza

Določena vrednost vhodnega signala povzroči spremembo izhodnega pritiska, ki pa ni vedno enaka in je odvisna od tega, ali je bila prejšnja nastavljena vrednost višja ali nižja. To minimalno razliko, znano tudi kot histerezo, povzroča trenje inčasne deformacije prožnih komponent. Histereza našega tlačnega regulatorja znaša manj kot 0.1 bar.

Ponovljivost

Krmilne naprave se na neko nastavljeno vrednost vhoda navadno odzovejo z enakimi dejanskimi vrednostmi na izhodu, ki se ena od druge manj razlikujejo, kot se vsaka posamezna razlikuje od absolutne nastavljene vrednosti. Ponovljivost se izboljša z zmanjšanjem histereze.

PRESA D'ARIA

porting block

Può essere utilizzata per prelevare aria non lubrificata e/o non regolata.

It can be used to provide unlubricated and/or unregulated air.

G1/4"

CODICE DI ORDINAZIONE
ORDER CODE

PAI 2-00

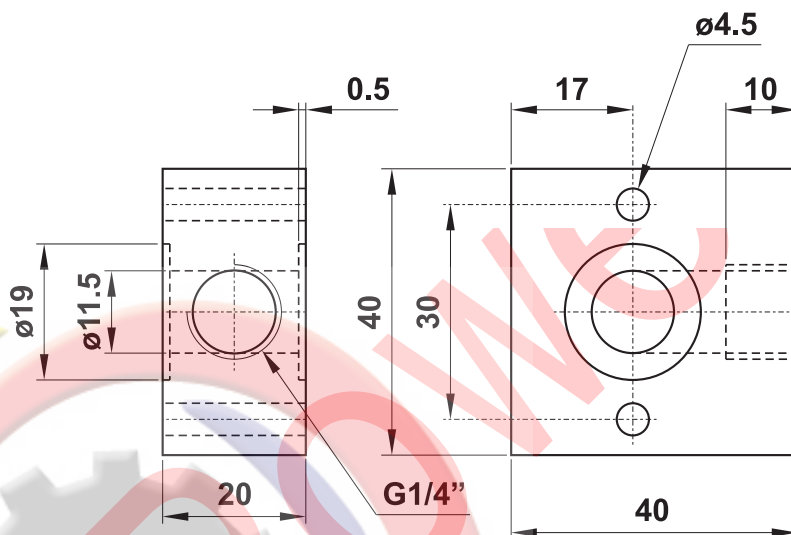


Materiale: alluminio

Material: aluminium

Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio

Each element is sold in kit with all necessary pieces for installation



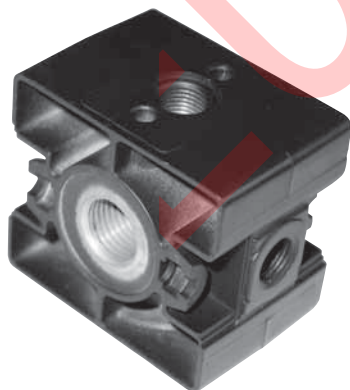
G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

PAI 3-00

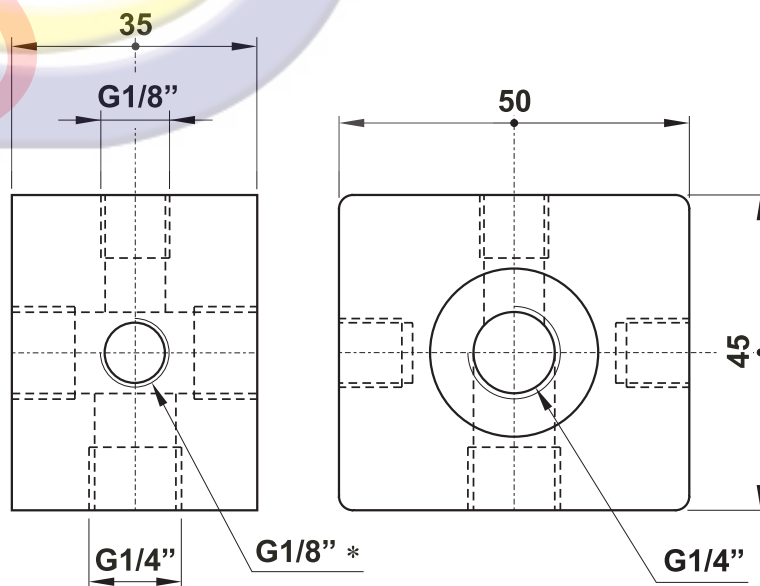
Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio

Each element is sold in kit with all necessary pieces for installation



Materiale: zamak

Material: zamak



* : filetto G1/8" (prof. 10 mm circa) da ambo le parti.

In caso di necessità l'utilizzatore può forare il fondo per avere una presa d'aria aggiuntiva (foro $\varnothing 4$).

* : G1/8" thread on both sides (depth about 10 mm) ready for through-drilling hole $\varnothing 4$.

accessori per gruppi trattamento aria

accessories for air preparation units

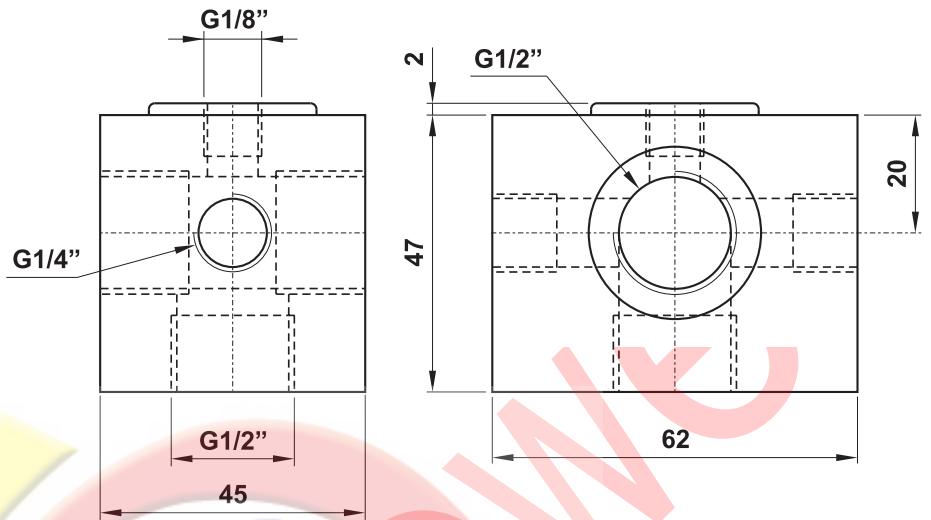
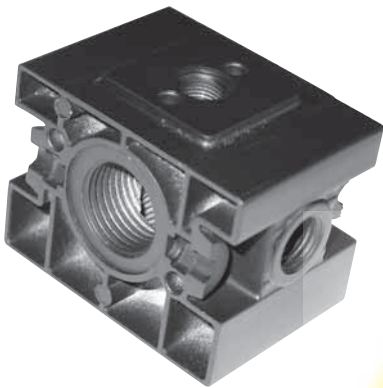


G1/2"

CODICE DI ORDINAZIONE
ORDER CODE

PAI 4-00

Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio
Each element is sold in kit with all necessary pieces for installation

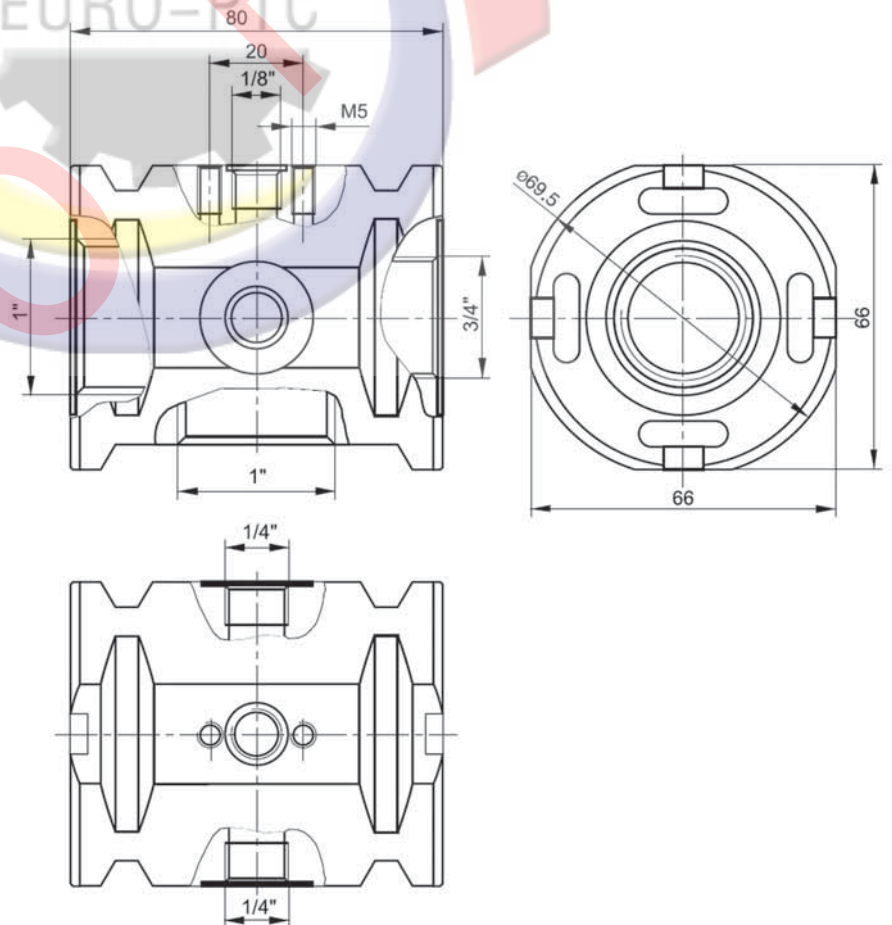


Materiale: zamak Material: zamak

G1"

CODICE DI ORDINAZIONE
ORDER CODE

PAI 6N-00



Materiale: alluminio Material: aluminium

Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio

Each element is sold in kit with all necessary pieces for installation

OLIO PER GRUPPI TRATTAMENTO ARIA

oil for air preparation units

CODICE DI ORDINAZIONE
ORDER CODE

16.172.0



Olio idraulico, classe di viscosità VG32 a norma ISO 3448

Hydraulic oil, viscosity class VG32 according to norm ISO 3448

Istruzioni per l'uso:

Riempire la tazza del lubrificatore fino al livello raccomandato. Regolare, ove possibile, il flusso di olio a circa 2 gocce al minuto. Non usare a temperature inferiori a +5°C.

Instructions for use:

Fill the lubricator to the recommended level. Regulate, where possible, the oil flow at about 2 drops/minute. Do not use at temperatures below +5°C

Dati tecnici

Densità a 15°C: 0.8655 g/ml

Densità a 20°C: 0.8621 g/ml

Viscosità cinematica a 40°C: 30.1205 mm²/s

Indice di viscosità: 109

Temperatura di fiamma all'aperto: 208°C

Temperatura di fiamma al chiuso: 196°C

Temperatura di scorrimento: sotto -15°C

Technical data

Density at 15°C: 0.8655 g/ml

Density at 20°C: 0.8621 g/ml

Cynematic viscosity at 40°C: 30.1205 mm²/s

Viscosity index: 109

Flash point in open space: 208°C

Flash point in closed space: 196°C

Pour point: below -15°C

PROTEZIONE PER TAZZA

bowl protection

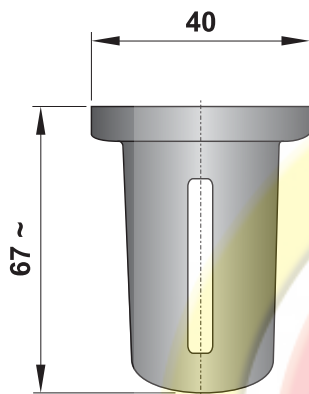
G1/4"

PLASTICA

CODICE DI ORDINAZIONE

ORDER CODE

PR 2-00



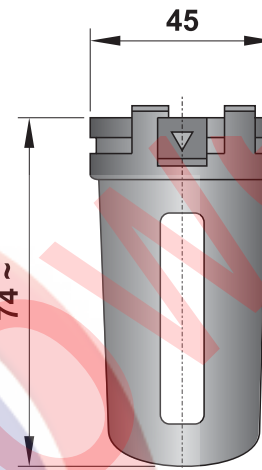
G3/8"

METALLO

CODICE DI ORDINAZIONE

ORDER CODE

PR 3-00



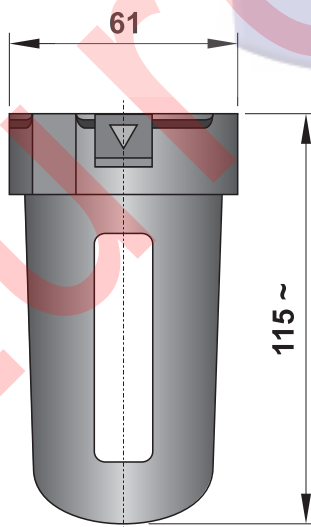
G1/2"

METALLO

CODICE DI ORDINAZIONE

ORDER CODE

PR 4-00



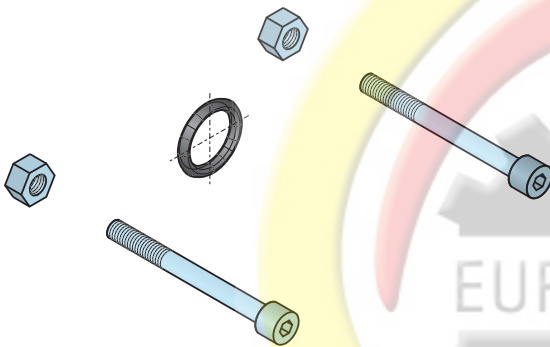
KIT MONTAGGIO

coupling kit

G1/4"

CODICE DI ORDINAZIONE
ORDER CODE

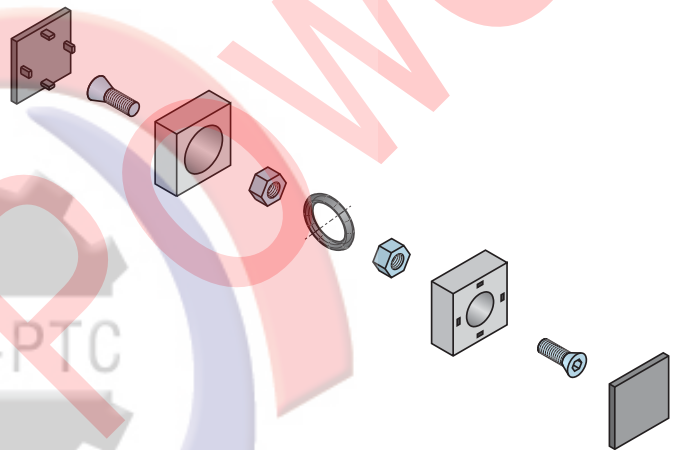
KIT 2-00



G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

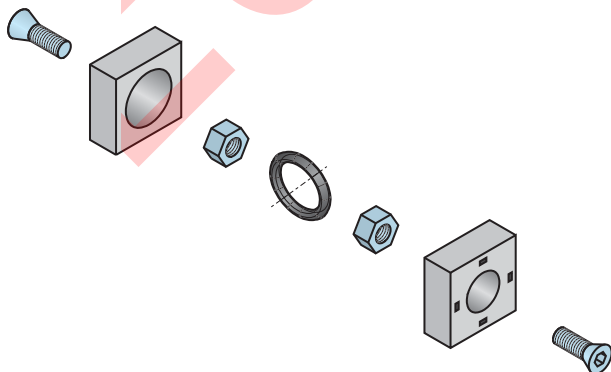
KIT 3-00



G1/2"

CODICE DI ORDINAZIONE
ORDER CODE

KIT 4-00



G1/2"
NUOVO

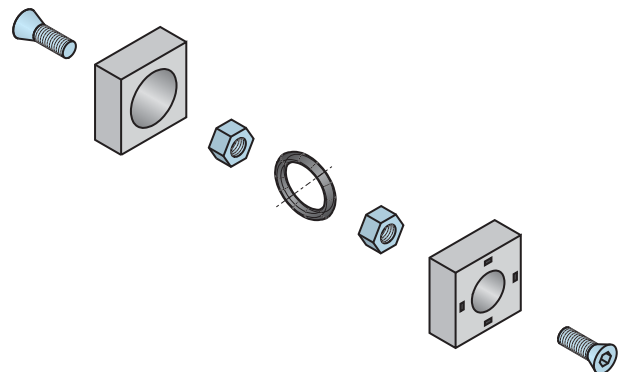
CODICE DI ORDINAZIONE
ORDER CODE

KIT 4N-00

G1"

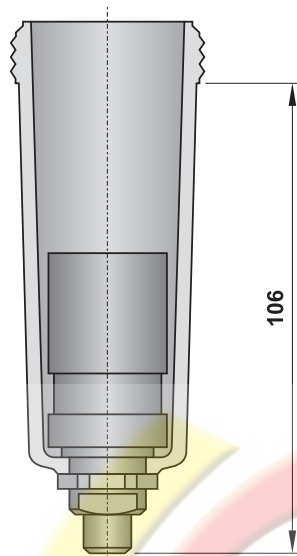
CODICE DI ORDINAZIONE
ORDER CODE

KIT 6N-00



SCARICO AUTOMATICO CONDENSA

automatic moisture exhaust

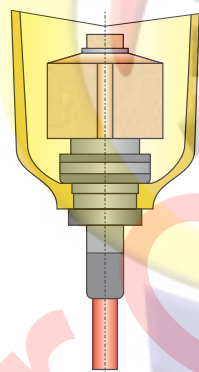


G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

AKS 3

Per l'installazione sostituire la tazza normale con questa tazza dotata di scarico automatico.
This bowl with automatic exhaust replaces the normal filter bowl.



G1/2"

G1"

CODICE DI ORDINAZIONE
ORDER CODE

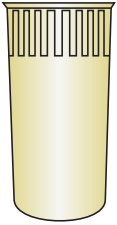
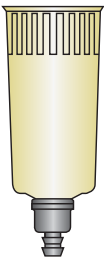

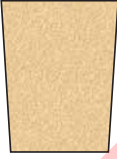

AKS 4-6

Per l'installazione montare questo elemento all'interno della tazza togliendo il dispositivo per lo scarico semiautomatico.



Lo stesso elemento si utilizza sia per i filtri da G1/2" sia per quelli da G1".

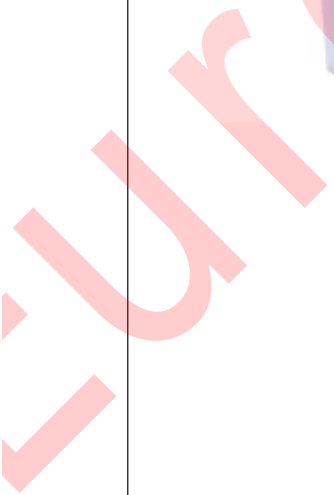
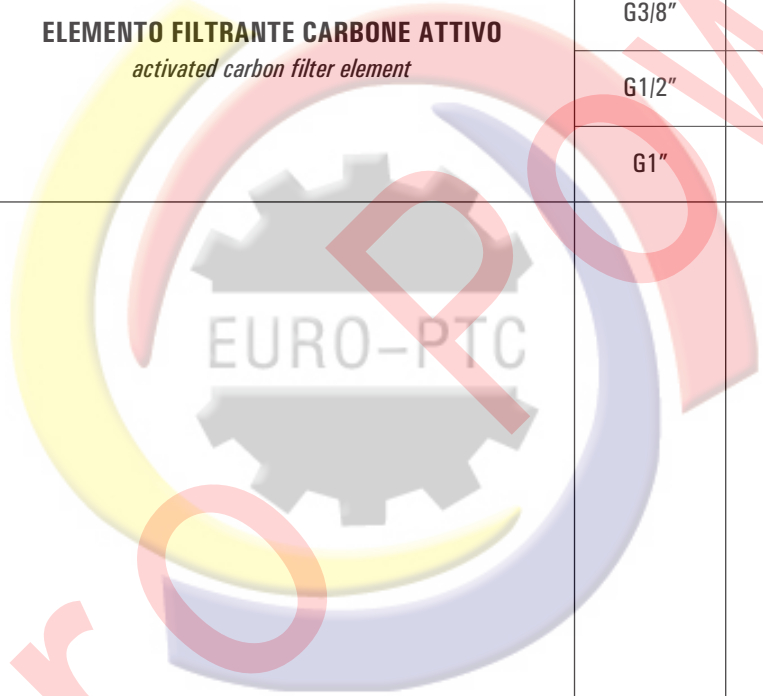
This element replaces the semi-automatic exhaust device located in a normal filter bowl.

The same element is used for G1/2" and G1" filters.

	descrizione <i>description</i>	dimensione <i>size</i>	codice di ordinazione <i>order code</i>
	TAZZA PER LUBRIFICATORE <i>bowl for lubricator</i>	G1/4"	16.065.0
		G3/8"	16.067.0
		G1/2"	16.069.0 + 16.109.0
		G1"	16.145.0
	TAZZA PER FILTRO <i>bowl for filter</i>	G1/4"	16.064.0
		G3/8"	16.066.0
		G1/2"	16.068.0
		G1"	16.146.0
	MEMBRANA PER REGOLATORE DI PRESSIONE <i>diaphragm for pressure regulator</i>	G3/8"-G1/2"	16.098.0
		G1"	16.137.0
	ELEMENTO FILTRANTE <i>filter element</i>	25 μm	G1/4" 16.061.0
		5 μm	G1/4" 16.031.0
		30 μm	G3/8" 16.062.0
		5 μm	G3/8" 16.032.0
		30 μm	G1/2" 16.063.0
		5 μm	G1/2" 16.033.0
		30 μm	G1" 16.144.0 <i>per filtro [for filter]</i>
		30 μm	G1" 16.187.0 <i>per filtroregolatore [for filter-regulator]</i>
		5 μm	G1" 16.171.0 <i>per filtro [for filter]</i>
		5 μm	G1" 16.188.0 <i>per filtroregolatore [for filter-regulator]</i>
	CUPOLA VISIVA PER LUBRIFICATORE <i>oil view element for lubricator</i>	G1/4"	16.104.0
		G3/8"-G1/2"	16.105.0
		G1"	16.140.0

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	descrizione <i>description</i>	dimensione <i>size</i>	codice di ordinazione <i>order code</i>
	CARTUCCIA MICROFILTRO <i>sub-micro-filter element</i>	G1/4"	16.183.0
		G3/8"	16.189.0
		G1/2"	16.190.0
		G1"	16.191.0
	ELEMENTO FILTRANTE CARBONE ATTIVO <i>activated carbon filter element</i>	G1/4"	16.184.0
		G3/8"	16.192.0
		G1/2"	16.193.0
		G1"	16.194.0



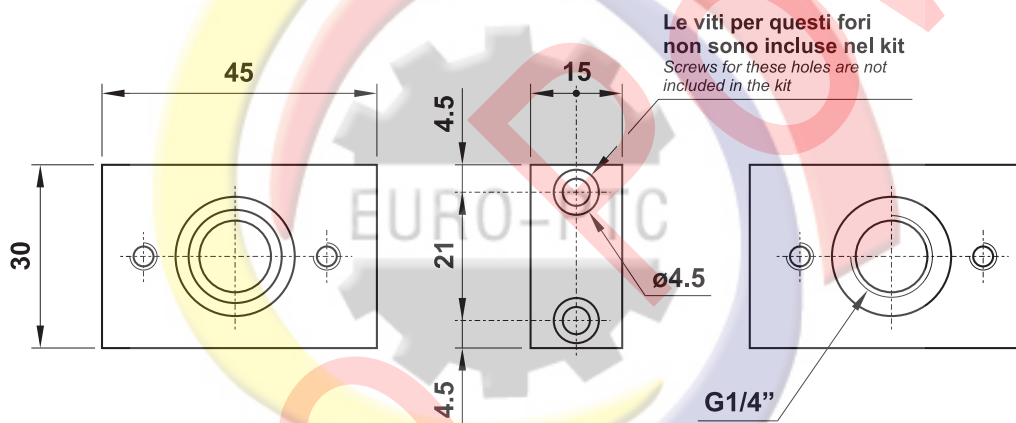
piastrina di fissaggio a parete per filtri e lubrificatori G1/4"

adaptor for side mounting - filters and lubricators G1/4"

- Utilizzabile per il fissaggio a parete di filtro e/o lubrificatore
It can be used to install filter and/or lubricator
- Si utilizza in posizione intermedia per il fissaggio di FIL + LUB
To be used in intermediate position to install FIL + LUB
- Si utilizza come terminale per il fissaggio di FIL o LUB
To be used as header to install FIL or LUB
- Materiale: alluminio anodizzato
Material: aluminium (anodize treatment)

CODICE DI ORDINAZIONE
ORDER CODE

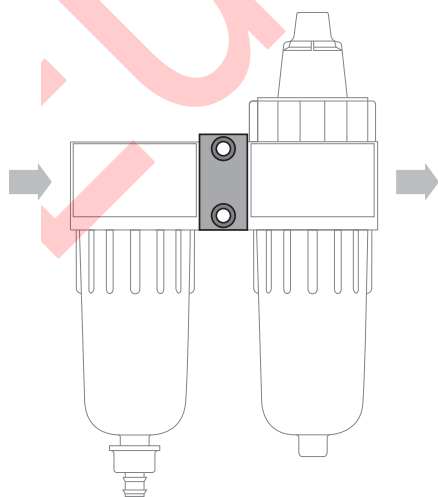
16.004.2



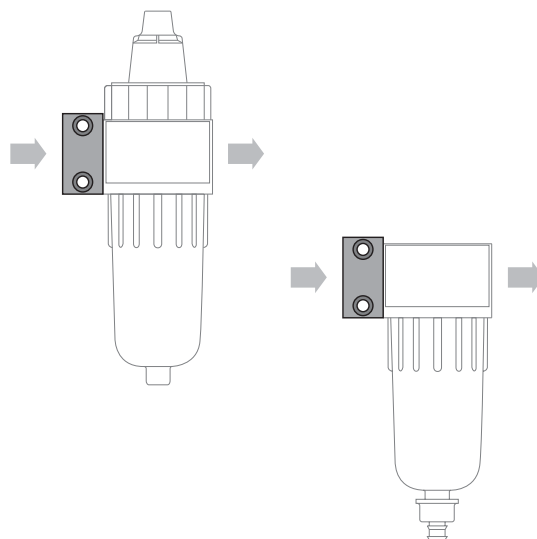
Le viti per questi fori
non sono include nel kit
*Screws for these holes are not
included in the kit*

Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio
Each element is sold in kit with all necessary pieces for installation

Montaggio in posizione intermedia
Installation in intermediate position



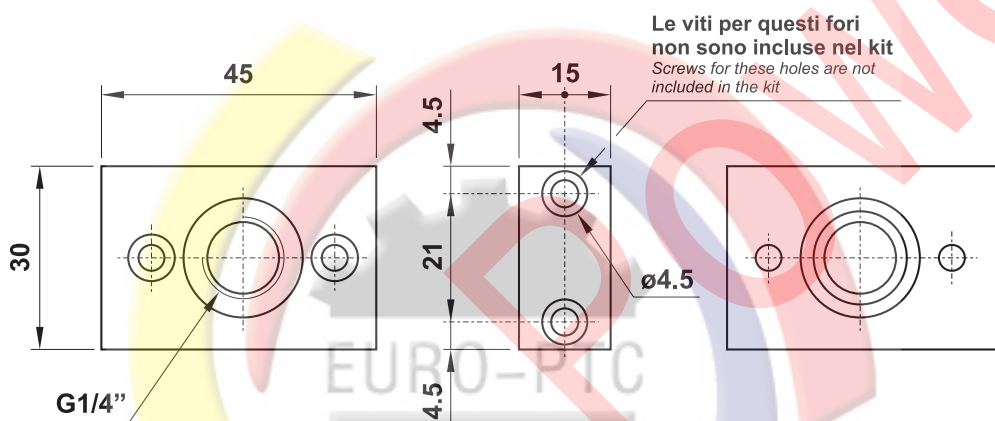
Montaggio come terminale
Installation as header



piastrina di fissaggio a parete per regolatori e filtroregolatori G1/4"

adaptor for side mounting - regulators and filter-regulators G1/4"

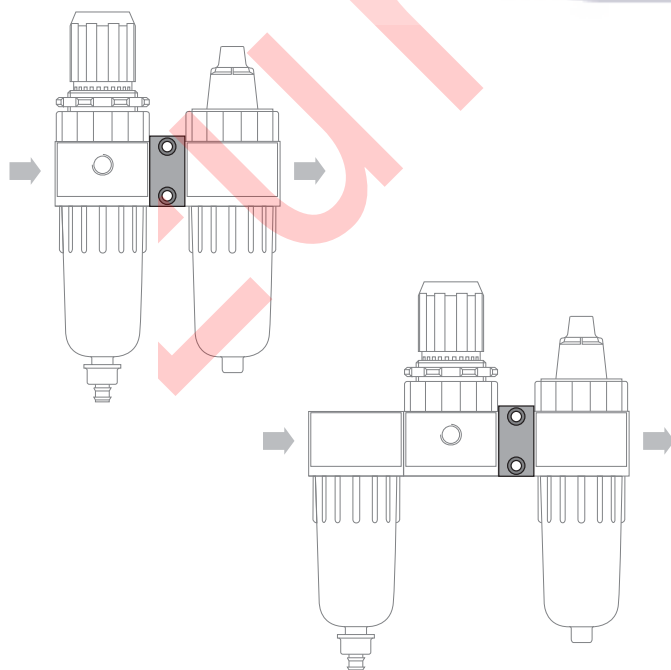
- Si utilizza in posizione intermedia (cod. **16.005.2**) per il fissaggio di FR+L o FRL
*To be used in intermediate position (code **16.005.2**) to install FR+L or FRL*
- Si utilizza come terminale (cod. **16.006.2**) per il fissaggio di FR o REG
*To be used as header (code **16.006.2**) to install FR or REG*
- Materiale: alluminio anodizzato
Material: aluminium (anodize treatment)



Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio
Each element is sold in kit with all necessary pieces for installation

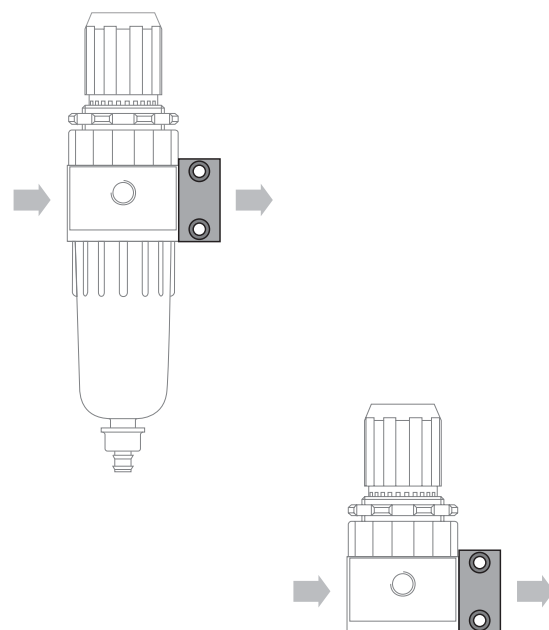
Montaggio in posizione intermedia
Installation in intermediate position

16.005.2



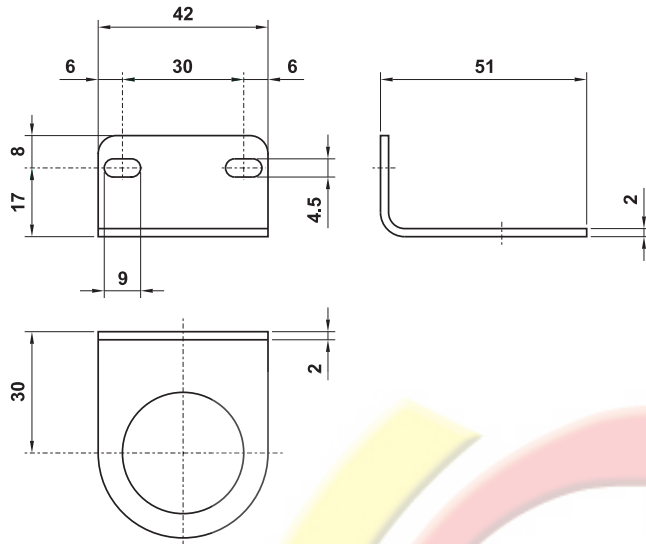
Montaggio come terminale
Installation as header

16.006.2



STAFFE E GHIERA DI FISSAGGIO

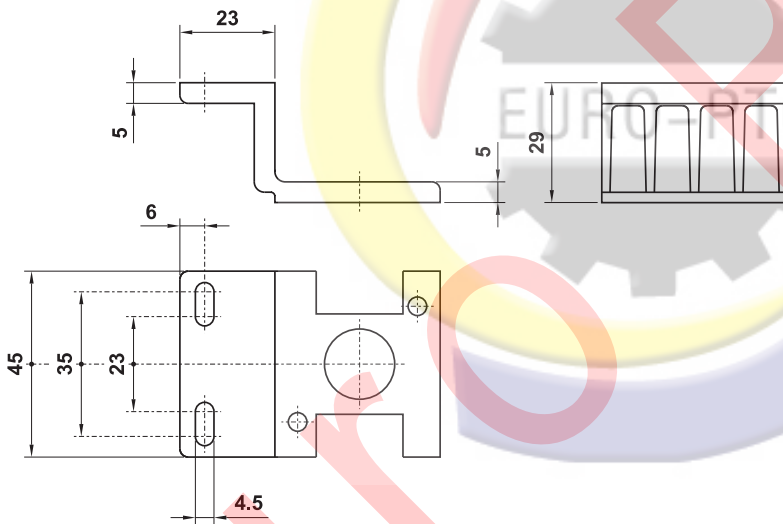
mounting brackets and ring



G1/4"

CODICE DI ORDINAZIONE
ORDER CODE

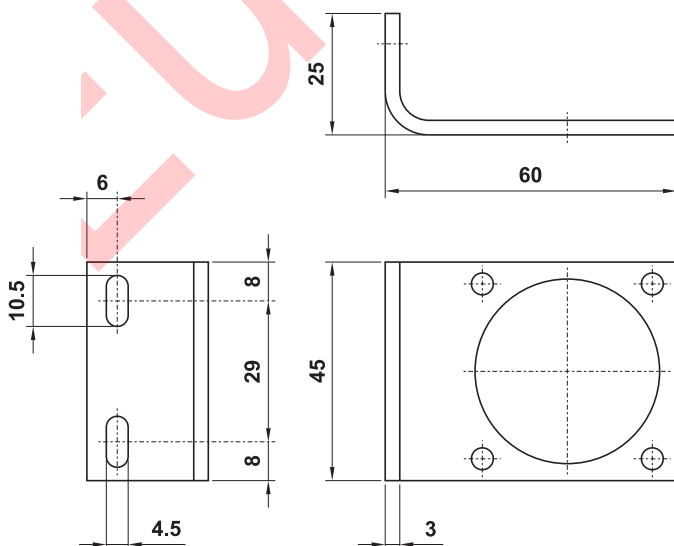
STF 2



G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

STF 3



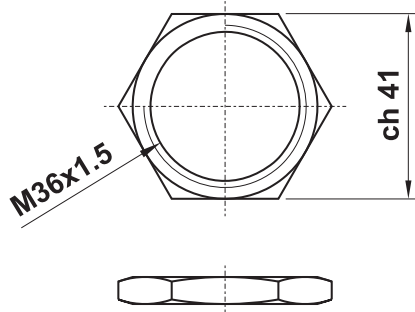
G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

STF 3A

STAFFE E GHIERA DI FISSAGGIO

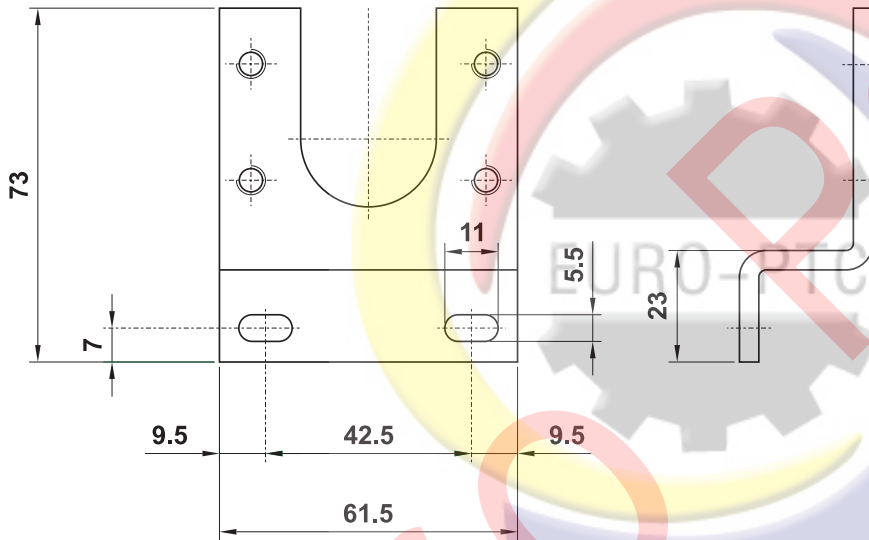
mounting brackets and ring



G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

STF 3B



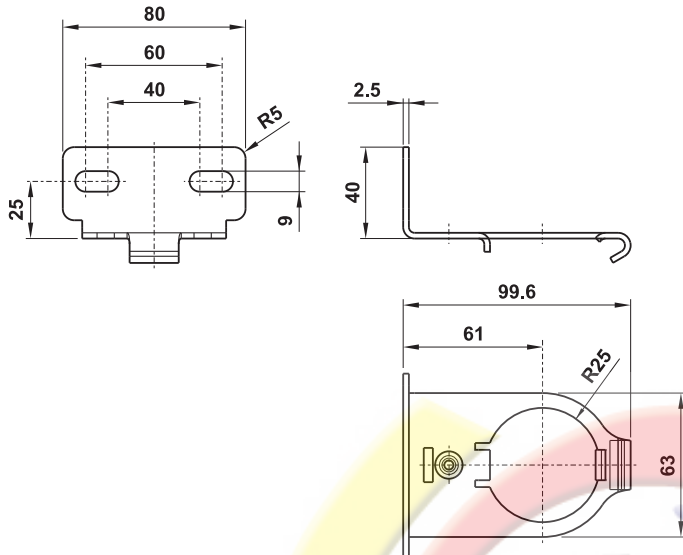
G1/2"

CODICE DI ORDINAZIONE
ORDER CODE

STF 4

STAFFE E GHIERA DI FISSAGGIO

mounting brackets and ring

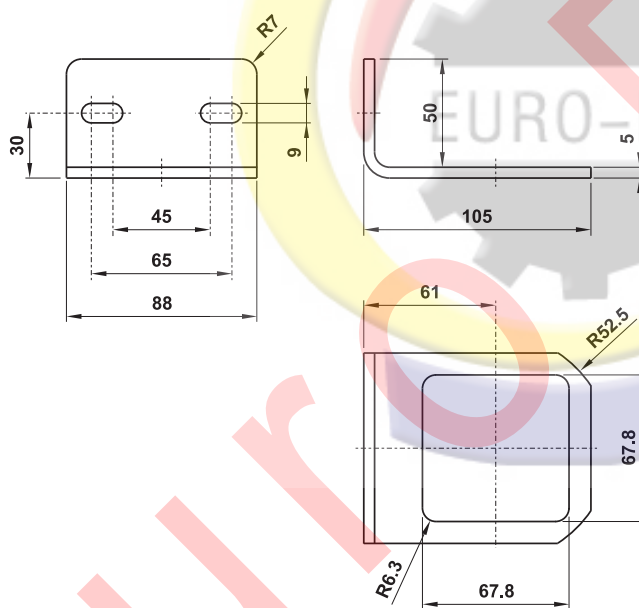


G1"

CODICE DI ORDINAZIONE
ORDER CODE

STF 6N

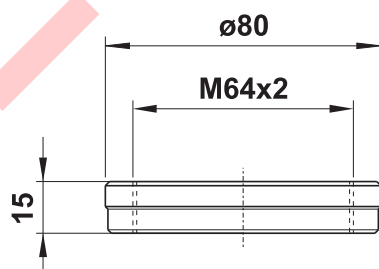
La sigla si riferisce a una coppia di staffe
The part number is referred to a couple of brackets



G1"

CODICE DI ORDINAZIONE
ORDER CODE

STF 6NA



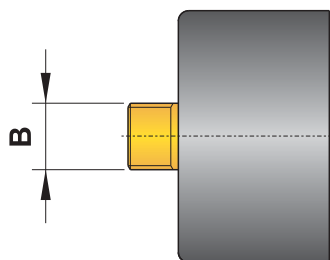
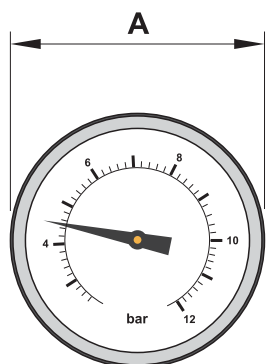
G1"

CODICE DI ORDINAZIONE
ORDER CODE

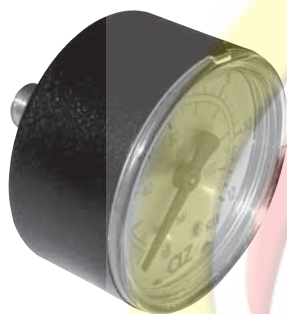
STF 6NB

MANOMETRO

manometer



A	B	CODICE DI ORDINAZIONE <i>ORDER CODE</i>
ø40	G1/8"	M40-00
ø50	G1/8"	M50-00
ø63	G1/4"	M63-00



EURO-PTC



NOVITÀ 2012

**nuova serie
gruppi trattamento aria G1/2"**

new range air preparation units G1/2"



filtro separatore G1/2"

G1/2" filter-water-separator



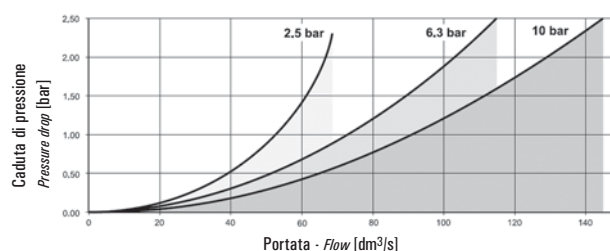
NUOVO
NEW

- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico della condensa semiautomatico o automatico
Semi-automatic or automatic moisture exhaust
- Capacità della tazza: 60 cm³
Bowl capacity: 60 cm³
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4N)
Vertical installation; bracket on request (code STF 4N)
- Protezione della tazza di serie
Bowl protection already mounted



CODICE DI ORDINAZIONE ORDER CODE			FIL 4N-30-S	FIL 4N-30-A	FIL 4N-05-S
Attacchi <i>Ports</i>			G1/2"	G1/2"	G1/2"
Scarico della condensa <i>Moisture exhaust</i>			semiautomatico <i>semi-automatic</i>	automatico <i>automatic</i>	semiautomatico <i>semi-automatic</i>
Temperatura di esercizio <i>Temperature range</i>			-10 ... +50°C	-10 ... +50°C	-10 ... +50°C
Peso <i>Weight</i>			0.32 kg	0.32 kg	0.32 kg
Pressione di esercizio <i>Working pressure range</i>		p_{\min} p_{\max}	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	3300 NI/min	3300 NI/min	3300 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{\max}	5700 NI/min	5700 NI/min	5700 NI/min
Elemento filtrante <i>Filter element</i>			40 μm	40 μm	5 μm

Caratteristiche di portata
Flow characteristics



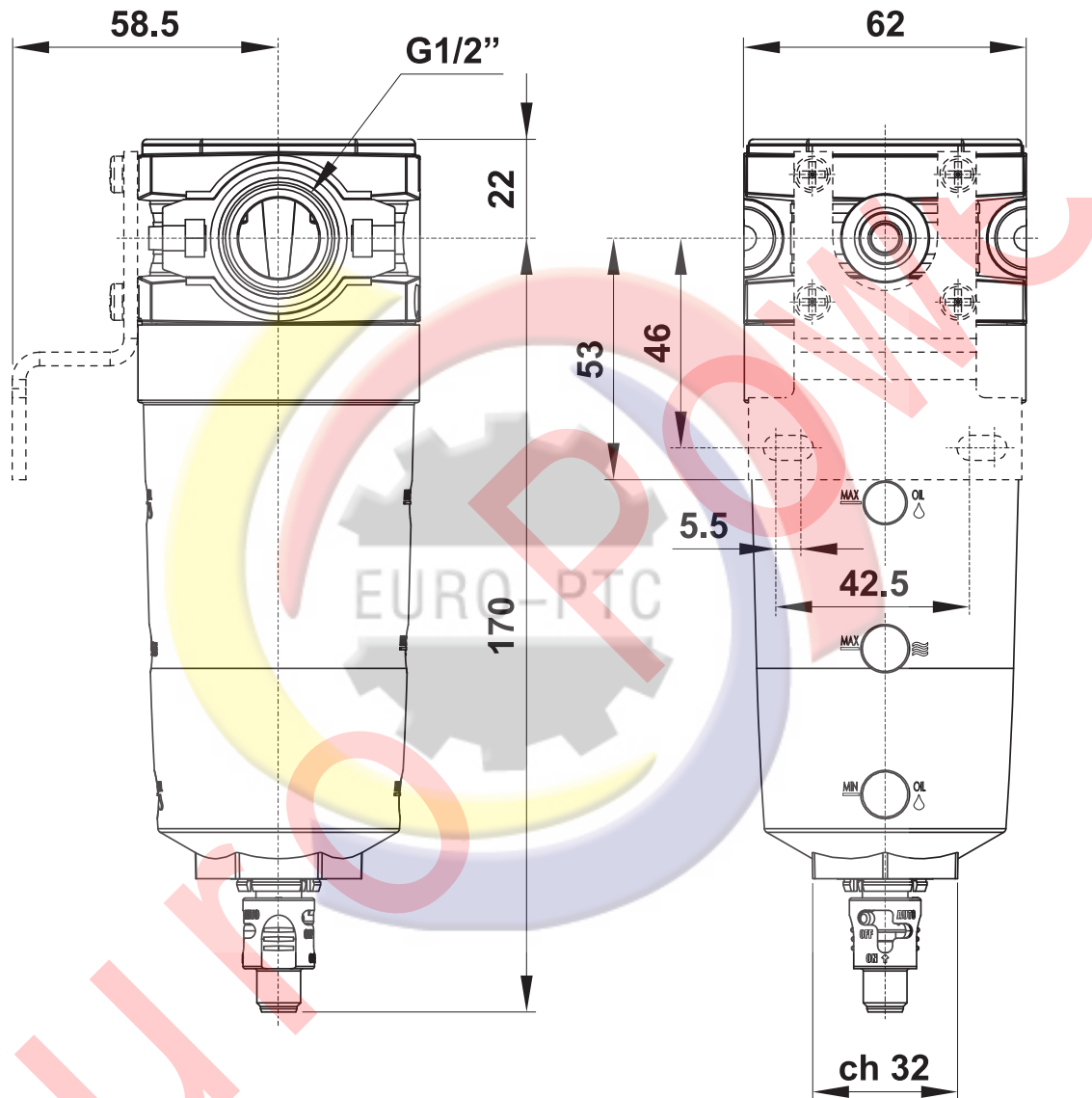
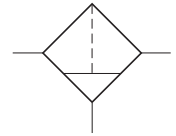
filtro separatore G1/2"

G1/2" filter-water-separator



NUOVO
NEW

La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

Coperchio: ABS

Tazza interna: polipropilene

Materials

Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

Cover: ABS

Internal bowl: polypropylene

regolatore di pressione G1/2"

G1/2" pressure regulator



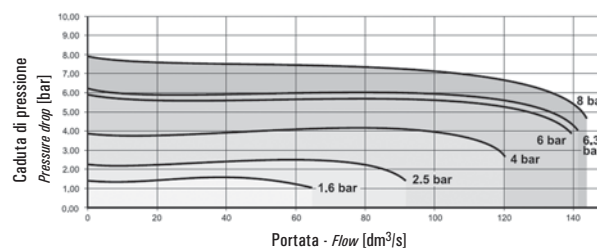
NUOVO
NEW

- Regolatore a membrana con valvola di scarico sovrappressione (relieving)
Diaphragm-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 4N)
In-line or panel mounting; bracket on request (code STF 4N)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 4N-08	
Attacchi <i>Ports</i>		G1/2"	
Temperatura di esercizio <i>Temperature range</i>		-10 ... +50°C	
Peso <i>Weight</i>		0.36 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 16 bar; 1.6 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max}	7320 NI/min

Caratteristiche di portata
Flow characteristics



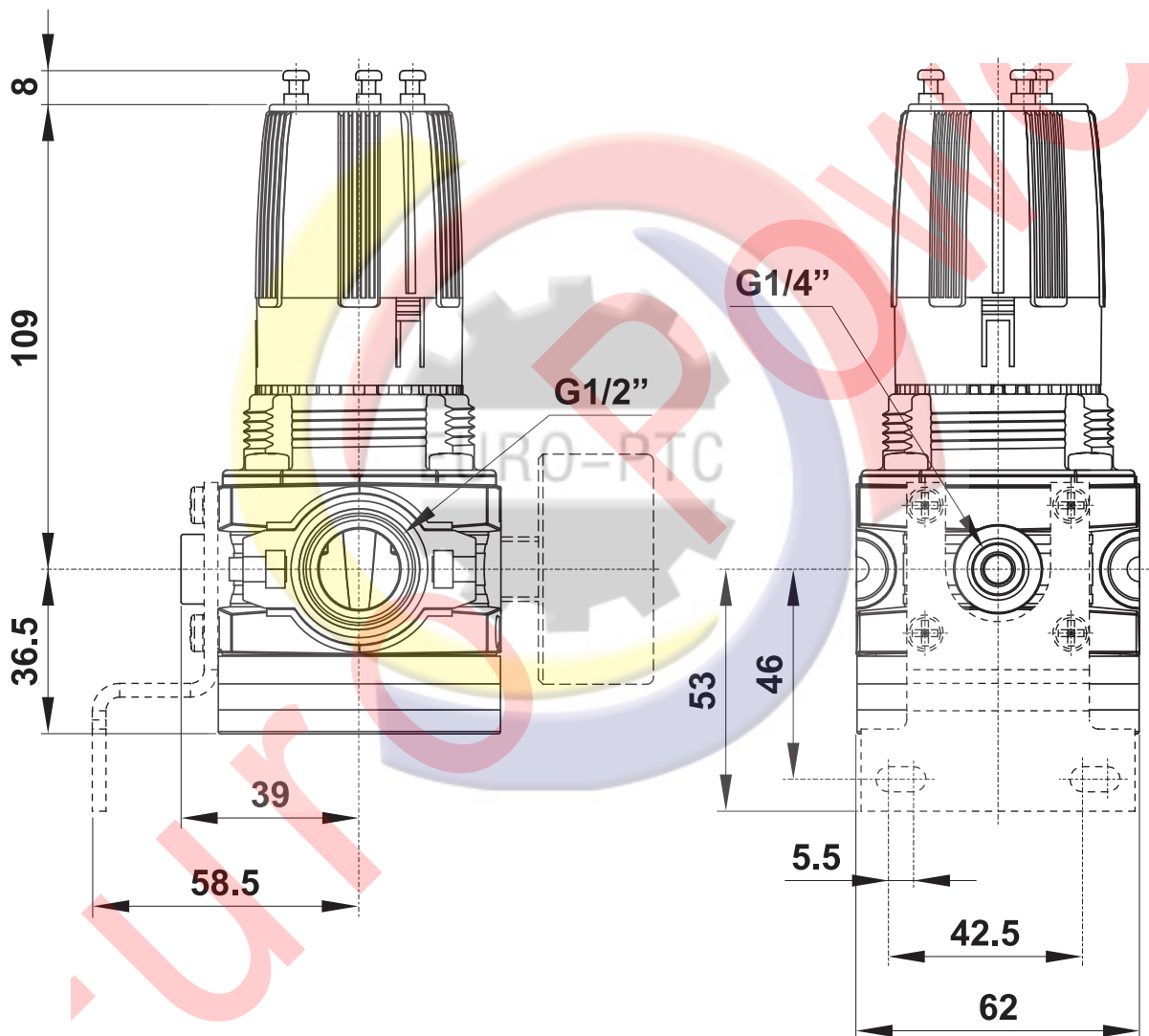
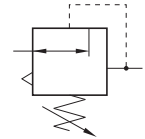
regolatore di pressione G1/2"

G1/2" pressure regulator



NUOVO
NEW

La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: tecnopolimero

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati, ABS

Materials

Body: technopolymer

Springs: stainless steel

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer, ABS

lubrificatore G1/2"

G1/2" lubricator



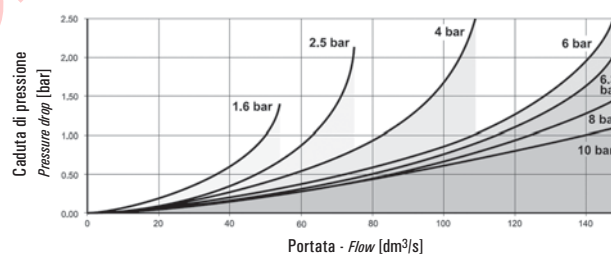
NUOVO
NEW

- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Lubrificazione autoregolabile
Self-adjusting lubrication
- Capacità tazza: 90 cm³
Bowl capacity: 90 cm³
- Rifornimento olio manuale anche in presenza di pressione
Manual oil refilling, possible also in presence of pressure
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4N)
Vertical installation; bracket on request (code STF 4N)
- Protezione della tazza di serie
Bowl protection already mounted



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		LUB 4N-00
Attacchi <i>Ports</i>		G1/2"
Temperatura di esercizio <i>Temperature range</i>		-10 ... +50°C
Peso <i>Weight</i>		0.3 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar}; \Delta p = 0.5 \text{ bar}$ Q_{max}	4680 NI/min

Caratteristiche di portata
Flow characteristics



7

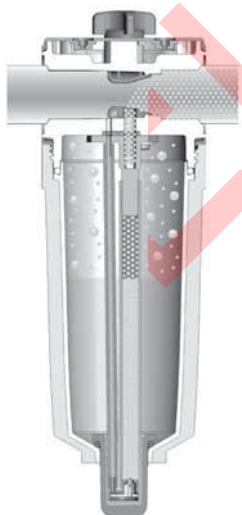
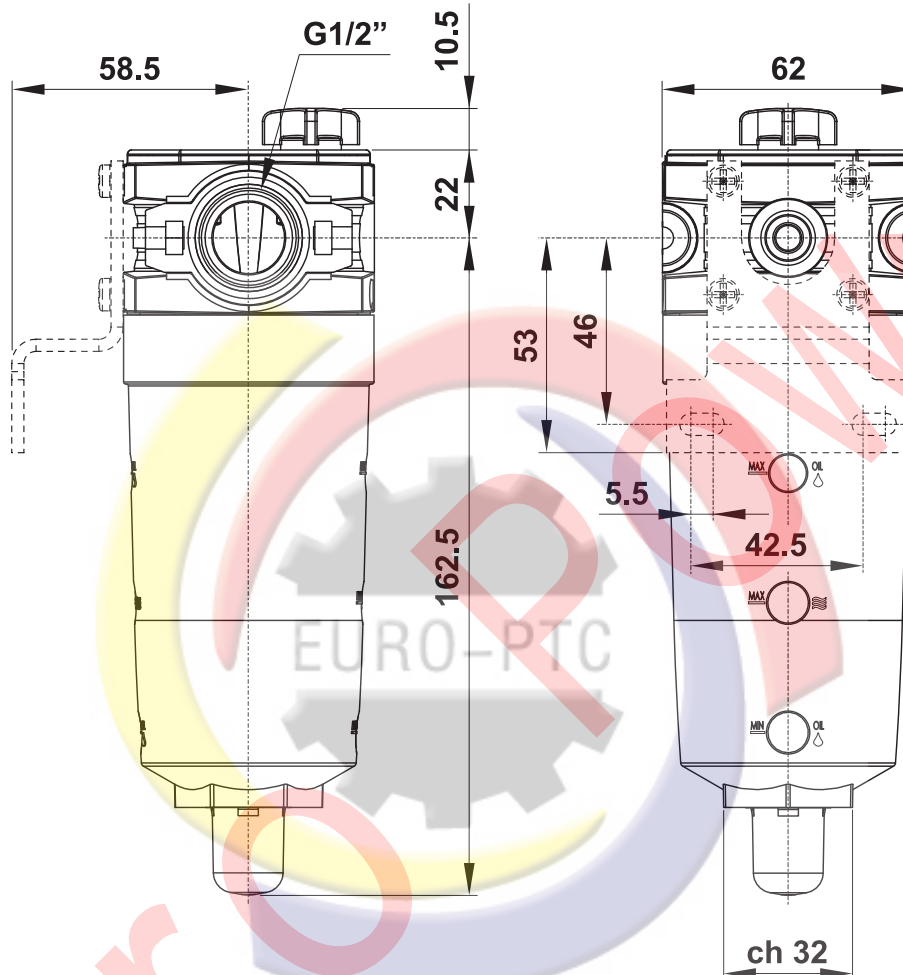
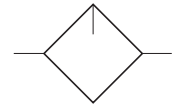
lubrificatore G1/2"

G1/2" lubricator



NUOVO
NEW

La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Nei lubrificatori tradizionali può essere regolato solo il numero di gocce di olio per unità di tempo. Se la richiesta di olio cresce, la quantità di olio fornita rimane costante. In questa nuova linea di lubrificatori, invece, il volume di olio è automaticamente regolato in rapporto alla portata. Ciò assicura che non ci sia né troppo né troppo poco olio nel sistema, con evidenti vantaggi. Inoltre, nei sistemi tradizionali la distanza tra il lubrificatore e l'impianto da lubrificare non può essere superiore a 8 metri. Questa nuova tecnica permette invece una distanza massima di 40 metri.

With traditional lubricators, only the oil volume per time unit can be adjusted. If the demand changes, the quantity dispensed still remains constant. In this new line of lubricators, the oil volume is automatically adjusted to the flow rate. This ensures that there is neither too little nor too much oil in the system, which leads to clear advantages. In addition, with traditional systems, the distance between the lubricator and the equipment has to be less than 8 meters. This new lubricator principle can be used for distances of up to 40 meters.

Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

Coperchio: ABS

Tazza interna: polipropilene

Materials

Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

Cover: ABS

Internal bowl: polypropylene

filtratore regolatore G1/2"

G1/2" filter-regulator



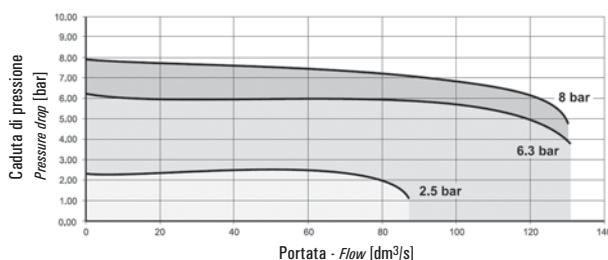
NUOVO
NEW

- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a diaframma dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with diaphragm-type pressure regulator (with relieving)
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; automatico a richiesta
Semi-automatic moisture exhaust; automatic on request
- Capacità della tazza: 60 cm³; protezione della tazza di serie
Bowl capacity: 60 cm³; bowl protection already mounted
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4N)
Vertical installation; bracket on request (code STF 4N)



CODICE DI ORDINAZIONE ORDER CODE		FR 4N-08-30-S	FR 4N-08-05-S
Attacchi Ports		G1/2"	G1/2"
Temperatura di esercizio Temperature range		-10 ... +50°C	-10 ... +50°C
Peso Weight		0.5 kg	0.5 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 16 bar; 1.6 MPa	0.5 bar; 0.05 MPa 16 bar; 1.6 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7	0.9 0.7
Portata massima Maximum flow rate	$p = 6.3 \text{ bar}; \Delta p = 0.5 \text{ bar}$	Q_{\max}	6660 NI/min 6660 NI/min
Elemento filtrante Filter element		40 μm	5 μm

Caratteristiche di portata
Flow characteristics



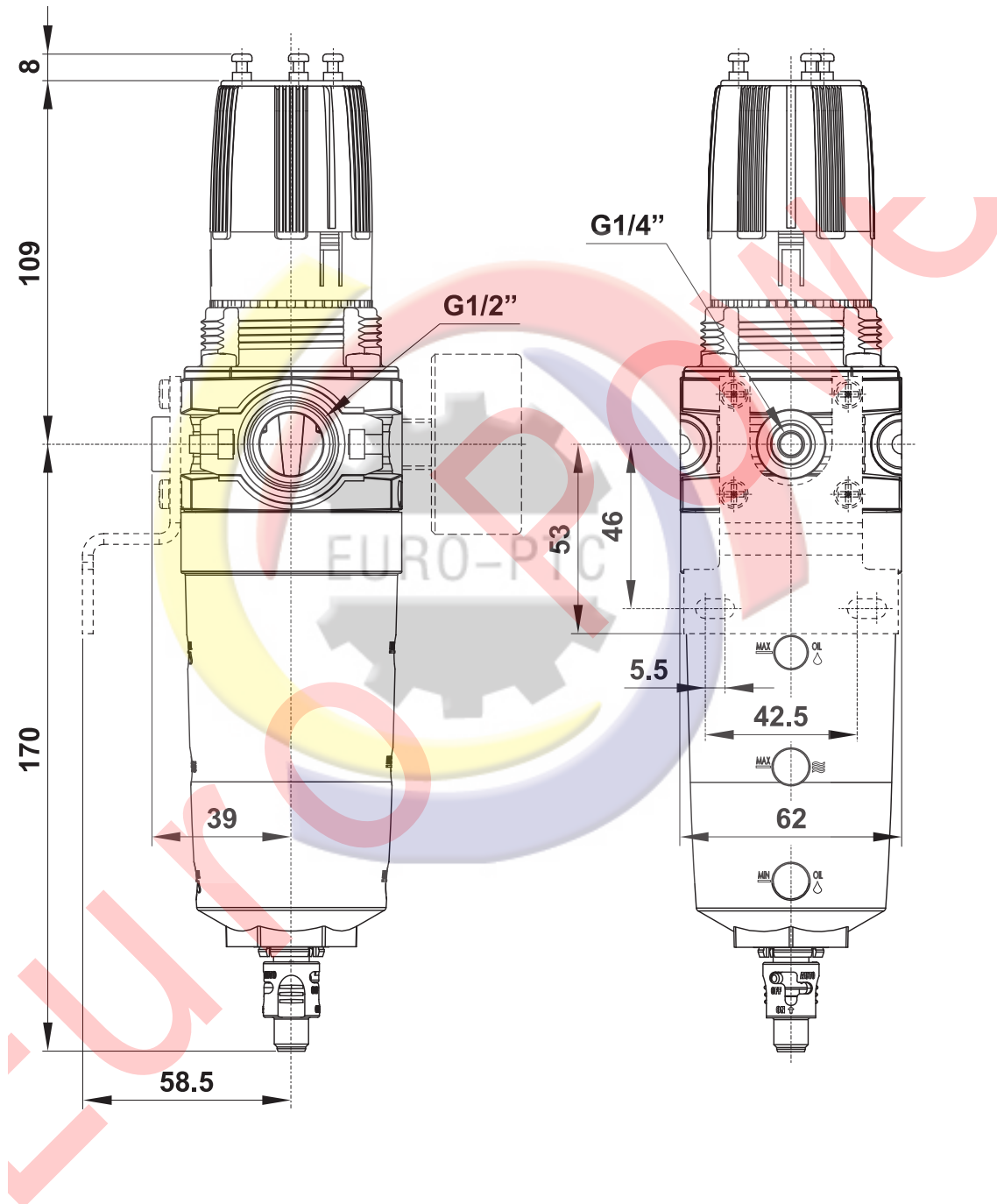
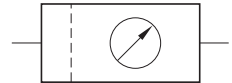
filtrorregolatore G1/2"

G1/2" filter-regulator



NUOVO
NEW

La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

Coperchio: ABS

Tazza interna: polipropilene

Materials

Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

Cover: ABS

Internal bowl: polypropylene

gruppo trattamento aria FR+L G1/2"

G1/2" FR+L air preparation unit



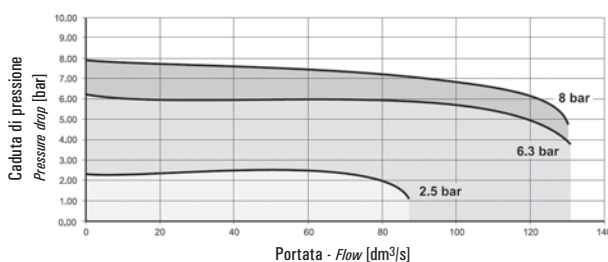
NUOVO
NEW

- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 60 cm³ (condensa), 90 cm³ (olio)
Bowl capacity: 60 cm³ (moisture), 90 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4N)
Vertical installation; bracket on request (code STF 4N)
- Protezione della tazza di serie
Bowl protection already mounted



CODICE DI ORDINAZIONE ORDER CODE		FR+L 4N-08-30-S	
Attacchi <i>Ports</i>		G1/2"	
Temperatura di esercizio <i>Temperature range</i>		-10 ... +50°C	
Peso <i>Weight</i>		0.9 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar}; \Delta p = 0.5 \text{ bar}$	Q_{max}	6660 NI/min
Elemento filtrante <i>Filter element</i>			40 μm

Caratteristiche di portata
Flow characteristics



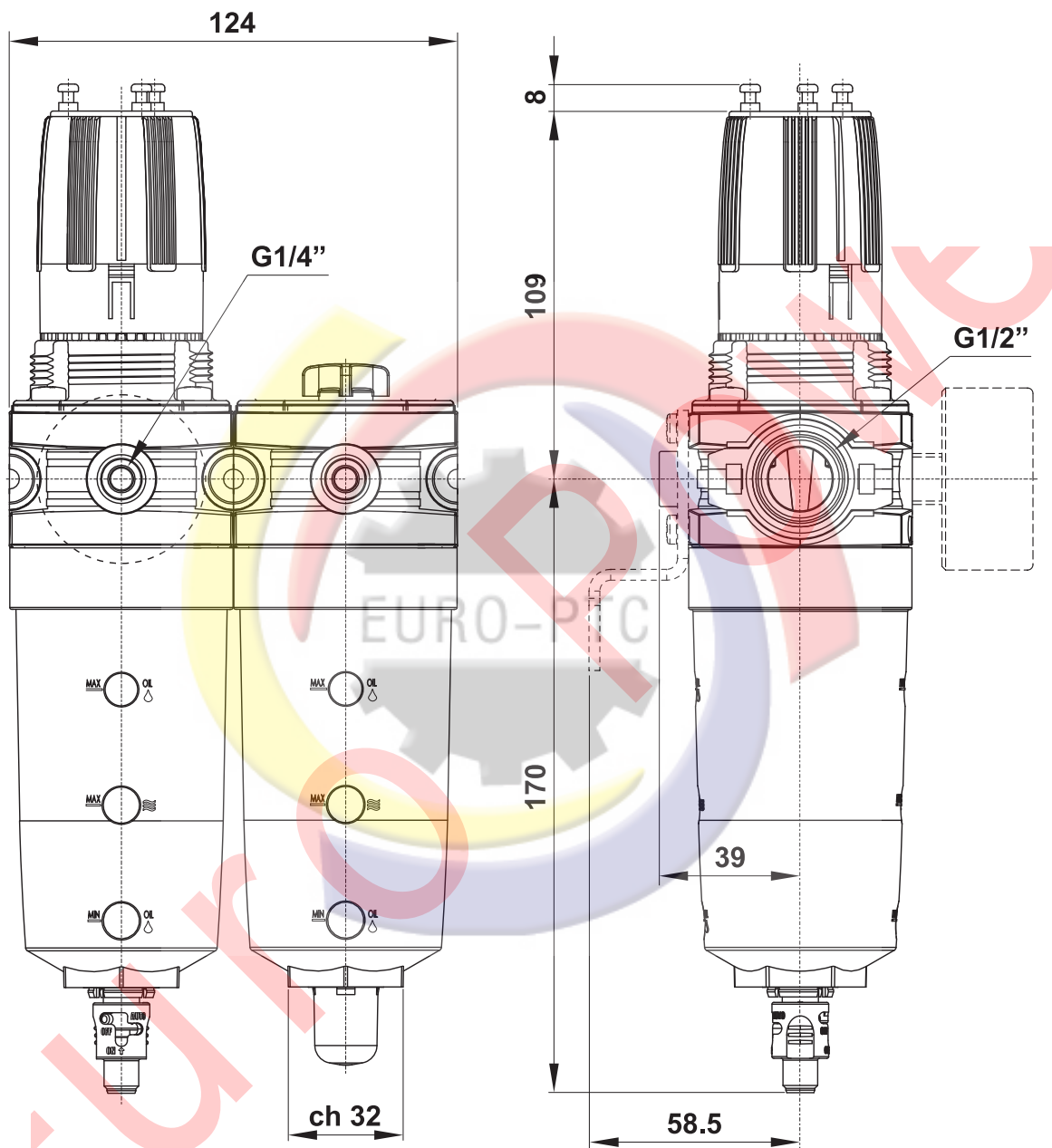
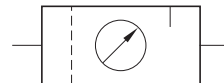
gruppo trattamento aria FR+L G1/2"

G1/2" FR+L air preparation unit



NUOVO
NEW

La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

Coperchio: ABS

Tazza interna: polipropilene

Materials

Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

Cover: ABS

Internal bowl: polypropylene

gruppo trattamento aria FRL G1/2"

G1/2" FRL air preparation unit



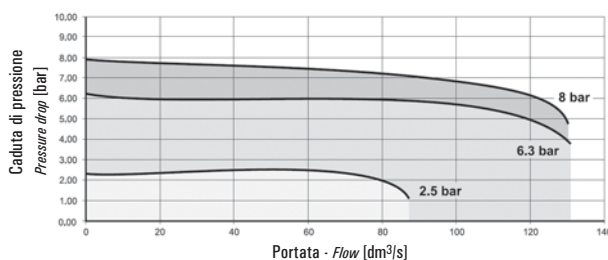
NUOVO
NEW

- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 60 cm³ (condensa), 90 cm³ (olio)
Bowl capacity: 60 cm³ (moisture), 90 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4N)
Vertical installation; bracket on request (code STF 4N)
- Protezione della tazza di serie
Bowl protection already mounted



CODICE DI ORDINAZIONE ORDER CODE		FRL 4N-08-30-S	
Attacchi <i>Ports</i>		G1/2"	
Temperatura di esercizio <i>Temperature range</i>		-10 ... +50°C	
Peso <i>Weight</i>		1.1 kg	
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa	
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa	
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7	
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar}; \Delta p = 0.5 \text{ bar}$	Q_{max}	6660 NI/min
Elemento filtrante <i>Filter element</i>			40 μm

Caratteristiche di portata
Flow characteristics



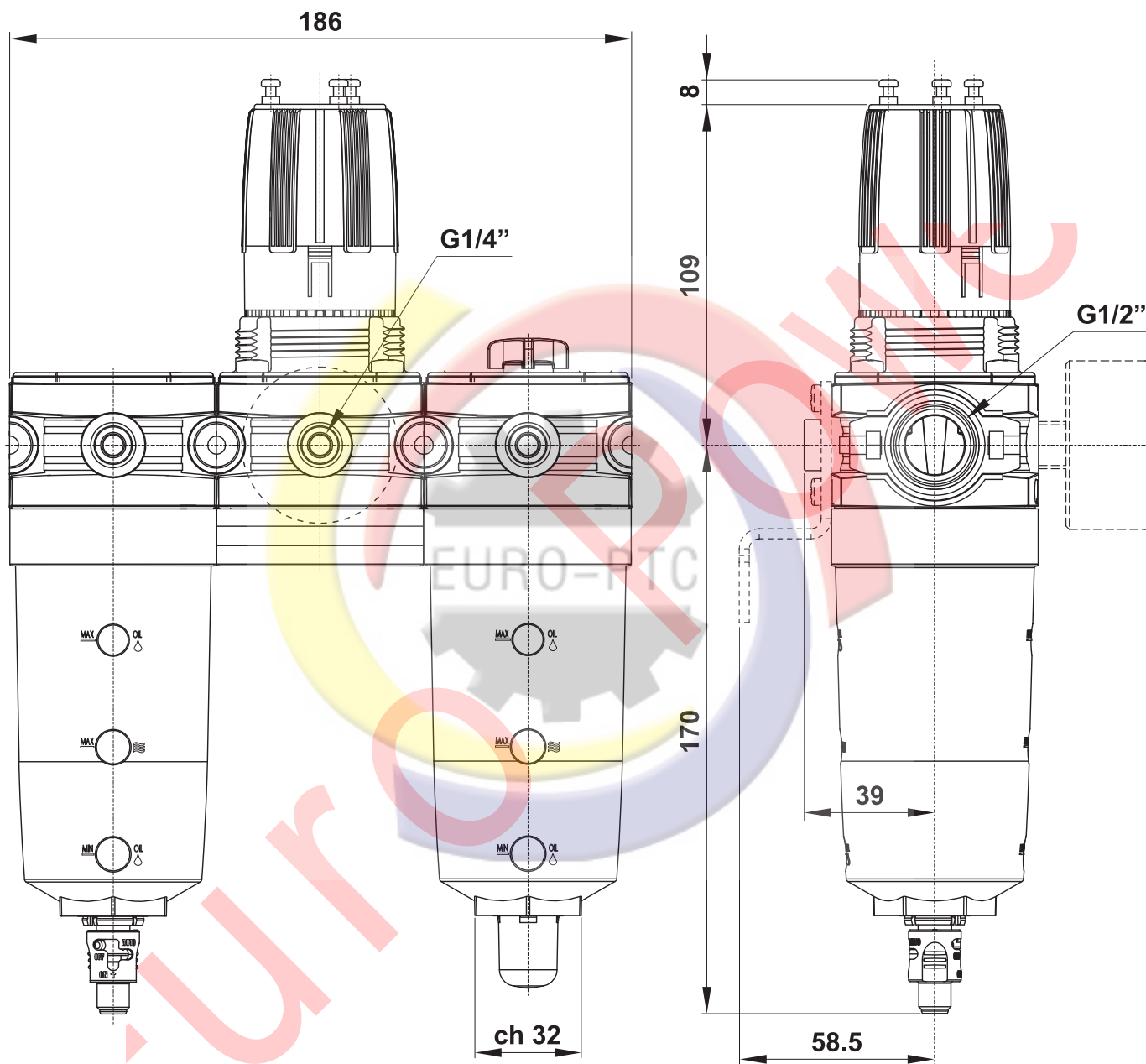
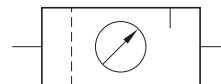
gruppo trattamento aria FRL G1/2"

G1/2" FRL air preparation unit



NUOVO
NEW

La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

Coperchio: ABS

Tazza interna: polipropilene

Materials

Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

Cover: ABS

Internal bowl: polypropylene

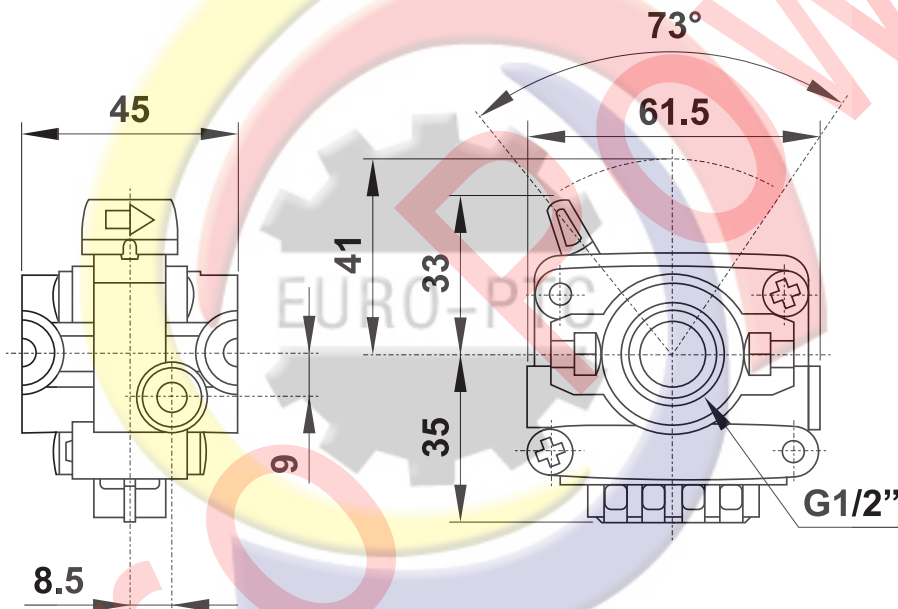
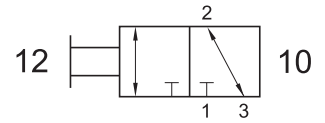
valvola di sezionamento circuito 3/2 G1/2"

3/2 G1/2" shut-off valve



NUOVO
NEW

- Elemento modulare ad alte prestazioni
High performance modular element
- Elevata portata in scarico
High exhaust flow rate
- Possibilità di chiusura a lucchetto
It can be secured with a padlock
- Installazione in qualsiasi posizione
Installation in any position



Materiali

Corpo: tecnopolimero
Guarnizioni: NBR

Materials

Body: technopolymer
Seals: NBR

CODICE DI ORDINAZIONE ORDER CODE		SR-M4N
Attacchi Ports		G1/2"
Temperatura di esercizio Temperature range		-10 ... +50°C
Peso Weight		0.3 kg
Pressione di esercizio Working pressure range	P_{min} P_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata massima Maximum flow rate	Q_{max}	7500 NI/min

PRESA D'ARIA

porting block

Può essere utilizzata per prelevare aria non lubrificata e/o non regolata.

It can be used to provide unlubricated and/or unregulated air.

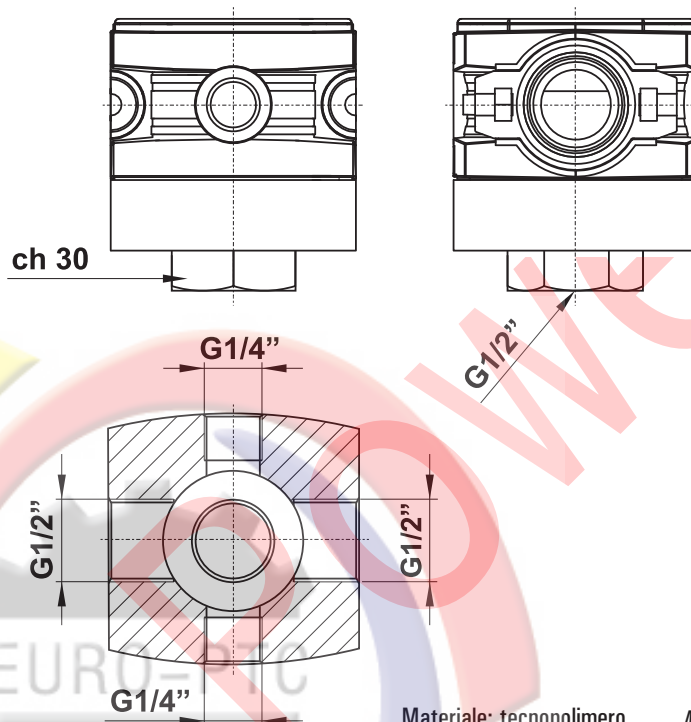
G1/2"

CODICE DI ORDINAZIONE
ORDER CODE

PAI 4N-00

Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio

Each element is sold in kit with all necessary pieces for installation



Materiale: tecnopolimero

Material: technopolymer

STAFFE E GHIERA DI FISSAGGIO

mounting brackets and ring

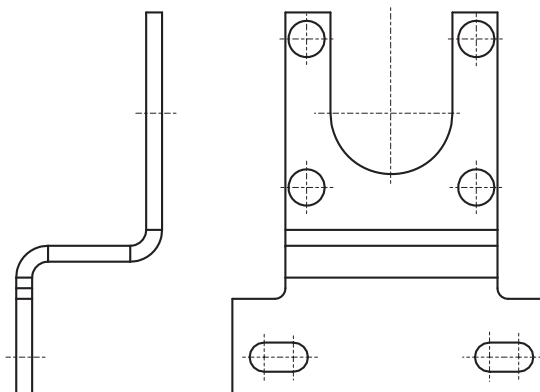
Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio

Each element is sold in kit with all necessary pieces for installation

G1/2"

CODICE DI ORDINAZIONE
ORDER CODE

STF 4N

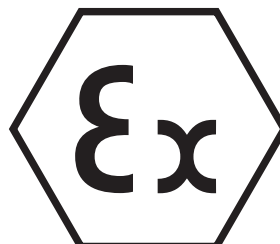
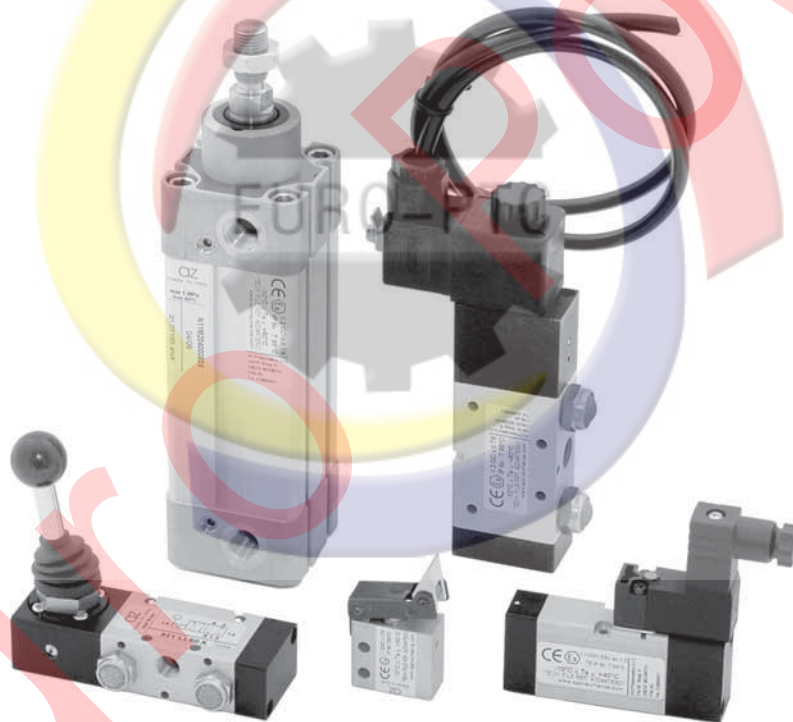


EURO-PTC



ATEX

elenco dei prodotti certificati *list of the certified products*





DIRETTIVA 94/9/CE - ATEX

La direttiva dell'Unione Europea 94/9/CE riguarda tutte le apparecchiature e i sistemi di protezione destinati ad essere utilizzati in atmosfera potenzialmente esplosiva. La direttiva concerne tutti i rischi di esplosione, di qualsiasi natura (elettrica e non), è applicabile sia ai materiali per miniera sia a quelli per uso in superficie e classifica gli apparecchi in categorie in funzione del livello di protezione assicurato. La direttiva considera anche il rischio di esplosione dovuta a una sorgente di tipo meccanico, come ad esempio la generazione di una scintilla dal contatto, utilizzo o surriscaldamento di componenti meccanici e non solo elettrici. È necessario valutare attentamente il luogo di installazione, deposito e funzionamento della macchina sulla quale gli apparecchi sono assemblati, classificarlo in funzione della probabilità di presenza di atmosfera esplosiva e in base a ciò scegliere la categoria esatta di prodotti da utilizzare.

Le categorie si suddividono in due gruppi: il gruppo I, per utilizzo in miniera, e il gruppo II, per utilizzo in superficie. In questo nostro prospetto informativo non consideriamo il gruppo I poiché i nostri prodotti in nessun caso possono essere utilizzati in miniera.

Il gruppo II si suddivide in tre categorie:

Categoria 1

Gli apparecchi di questa categoria sono destinati ad ambienti in cui si rileva, *sempre, spesso o per lunghi periodi*, un'atmosfera esplosiva dovuta a miscele di gas, vapori, nebbie o miscele di aria e polveri.

Gli apparecchi di questa categoria devono assicurare il livello di protezione richiesto anche in caso di guasto eccezionale dell'apparecchio, e sono caratterizzati da mezzi di protezione che:

- in caso di guasto di uno dei mezzi di protezione, almeno un secondo mezzo indipendente assicuri il livello di sicurezza richiesto;

oppure:

- qualora si manifestino due guasti indipendenti uno dall'altro, il livello di protezione richiesto sia garantito.

Categoria 2

Gli apparecchi di questa categoria sono destinati ad ambienti in cui è *probabile* che si manifestino, durante il normale funzionamento, atmosfere esplosive dovute a gas, vapori, nebbie o miscele di aria e polveri.

Gli apparecchi di questa categoria devono garantire il livello di protezione richiesto anche in presenza di ricorrenti anomalie o difetti di funzionamento prevedibili.

Categoria 3

Gli apparecchi di questa categoria sono destinati ad ambienti in cui è *scarsamente probabile* che si manifestino, durante il normale funzionamento, atmosfere esplosive dovute a gas, vapori, nebbie o miscele di aria e polveri. Gli apparecchi di questa categoria devono

DIRECTIVE 94/9/EC - ATEX

The European Directive 94/9/EC concerns all devices used in potentially explosive zones. Explosions can occur where combustible gases, vapours, liquids or dusts are produced, stored or transported and can under certain conditions combine with air to form an explosive mixture. In such potentially explosive atmospheres a small spark is often enough to trigger an explosion. Potentially explosive atmospheres occur for example in chemical plants, refineries, tank installations, paint factories and other places where dust-forming bulk goods are processed or transported, for example in flour mills, animal feed factories and cement works. The user must assess his plant, identify dangers, evaluate its risks (within the frameworks of an explosion protection document) and define appropriate protective measures.

The directive identifies two large groups of product categories: group I, for use in mining installation, and group II, for use on the earth surface. We don't consider the group I, because our products cannot be used in mining systems.

Group II is divided into three categories.

Category 1

The equipments in this category can be used in environments where always, often or for long periods an explosive atmosphere is present and is due to gases, vapours or mixtures of air and dusts.

The equipments in this category ensure a very high level of safety even in the event of rare equipment malfunctions. Their explosion protection system must ensure that:

- in the event of failure of one protection mean, at least another independent mean provides the required level of protection;

or:

- in the event of two faults, independently occurring, the required safety level is still ensured.

Category 2

The equipments in this category can be used in environments where it is probable that an explosive atmosphere is present during the normal functionality of the equipments and this atmosphere is due to gases, vapours or mixtures of air and dusts.

The equipments in this category must ensure the required safety level even in the event of frequently occurring incidents or equipment malfunctions which normally have to be expected.

Category 3

The equipments in this category can be used in environments where it is seldom or not probable that an explosive atmosphere is present during the normal functionality of the equipments and this atmosphere is due to gases, vapours or mixtures of air and dusts. The



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ATEX components



garantire il livello di protezione richiesto a funzionamento normale.

Gli ambienti esplosivi sono suddivisi in **sei diverse zone** in base alla tipologia di materiale innescabile e alla durata della presenza di atmosfera esplosiva.

Zona 0 (G)

Area in cui è presente in permanenza o per lunghi periodi o frequentemente un'atmosfera esplosiva consistente in una miscela di aria e di sostanze infiammabili sotto forma di gas, vapore o nebbia.

Zona 20 (GD)

Area in cui è presente in permanenza o per lunghi periodi o frequentemente un'atmosfera esplosiva sotto forma di nube di polvere nell'aria.

Zona 1 (G)

Area in cui la formazione di un'atmosfera esplosiva, consistente in una miscela di aria e di sostanze infiammabili sotto forma di gas, vapore o nebbia, è probabile durante le normali attività.

Zona 21 (GD)

Area in cui la formazione di un'atmosfera esplosiva, sotto forma di nube di polvere nell'aria, è probabile durante le normali attività.

Zona 2 (G)

Area in cui la formazione di un'atmosfera esplosiva, consistente in una miscela di aria e di sostanze infiammabili sotto forma di gas, vapore o nebbia, è scarsamente probabile durante le normali attività o, qualora si verifici, sia unicamente di breve durata.

Zona 22 (GD)

Area in cui la formazione di un'atmosfera esplosiva, sotto forma di nube di polvere nell'aria, è scarsamente probabile durante le normali attività o, qualora si verifici, sia unicamente di breve durata.

I seguenti prodotti non contengono sorgenti potenziali di innesco loro proprie, pertanto non ricadono nel campo di applicazione della direttiva ATEX 94/9/CE e possono essere utilizzati in luoghi classificati come zona 1; 21; 2; 22: elementi logici OR e AND, valvole di non ritorno, regolatori di flusso, regolatori di scarico, depressori, collettori, raccordi e tubo.

La classificazione del luogo in cui il prodotto sarà installato in relazione alla probabilità di presenza di gas, vapori e polveri esplosive, compete all'utilizzatore, che ne è il solo responsabile, in forza della sua valutazione dei rischi.

equipments in this category must ensure the safety level during normal operation.

Explosive environments are divided into **six different zones** according to the type of dangerous material and explosive atmosphere.

Zone 0 (G)

Area where an explosive atmosphere occurs as a mixture of air and flammable gases, vapours or mists, always, often or for long periods.

Zone 20 (GD)

Area where an explosive atmosphere occurs as a dust cloud or dust layer consisting of air and flammable dust particles, always, often or for long periods.

Zone 1 (G)

Area where it is probable, during the normal activity, that an explosive atmosphere occurs as a mixture of air and flammable gases, vapours or mists.

Zone 21 (GD)

Area where it is probable, during the normal activity, that an explosive atmosphere occurs as a dust cloud or dust layer consisting of air and flammable dust particles, vapours or mists.

Zone 2 (G)

Area where it is seldom or not probable, during the normal activity, that an explosive atmosphere occurs as a mixture of air and flammable gases, vapours or mists.

Zone 22 (GD)

Area where it is seldom or not probable, during the normal activity, that an explosive atmosphere occurs as a dust cloud or dust layer consisting of air and flammable dust particles, vapours or mists.

The following products have no intrinsic sources of ignition and therefore do not fall under the ATEX 94/9/EC directive. They can be used in environments classified as zone 1; 21; 2; 22: logic elements OR - AND, non-return valves, flow regulators, exhaust regulators, vacuum generators, collectors, fittings and tube.

The risk identification and evaluation of the probability that an explosive atmosphere occurs is responsibility of the user only, who decides where and how the product can be installed.

ZONA	0		1		2		22	
	G gas	GD polvere dust	G gas	GD polvere dust	G gas	GD polvere dust	G gas	GD polvere dust
atmosfera esplosiva <i>explosive atmosphere</i>	sempre, spesso o per lunghi periodi <i>constantly, frequently or for long periods</i>		probabile <i>probable</i>		scarsamente probabile <i>seldom, not probable</i>			
categoria <i>category</i>	1		2		3			

classe di temperatura <i>temperature class</i>	max. temperatura superficiale <i>max. surface temperature</i>
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C



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ATEX II 2GD cII T6 IP6x T85°C				-10°C ≤ Ta ≤ +60°C			
MICROVALVOLE <i>microvalves</i> M5, ø4	304 MA X	315 MA X	304 MGX X	205 MGG X			
	314 MA X	205 MA X	304 MGN X	205 MGX X			
	204 MA X	305 MB X	314 MGR X	205 MGN X			
	304 MB X	315 MB X	314 MGG X	305 MGR UL X			
	314 MB X	205 MB X	314 MGX X	305 MGG UL X			
	204 MB X	305 MR X	314 MGN X	305 MGX UL X			
	304 MR X	315 MR X	204 MGR X	305 MGN UL X			
	314 MR X	205 MR X	204 MGG X	315 MGR UL X			
	204 MR X	305 MS X	204 MGX X	315 MGG UL X			
	304 MS X	315 MS X	204 MGN X	315 MGX UL X			
	314 MS X	205 MS X	304 MGR UL X	315 MGN UL X			
	204 MS X	305 MV X	304 MGG UL X	205 MGR UL X			
	304 MV X	315 MV X	304 MGX UL X	205 MGG UL X			
	314 MV X	205 MV X	304 MGN UL X	205 MGX UL X			
	204 MV X	305 MA UL X	314 MGR UL X	205 MGN UL X			
	304 MA UL X	315 MA UL X	314 MGG UL X	504 MB X			
	314 MA UL X	205 MA UL X	314 MGX UL X	2.304 MB X			
	204 MA UL X	305 MB UL X	314 MGN UL X	2.314 MB X			
	304 MB UL X	315 MB UL X	204 MGR UL X	505 MB X			
	314 MB UL X	205 MB UL X	204 MGG UL X	2.305 MB X			
	204 MB UL X	305 MR UL X	204 MGX UL X	2.315 MB X			
	304 MR UL X	315 MR UL X	204 MGN UL X	504 MB UL X			
	314 MR UL X	205 MR UL X	305 MGR X	2.304 MB UL X			
	204 MR UL X	305 MS UL X	305 MGG X	2.314 MB UL X			
	304 MS UL X	315 MS UL X	305 MGX X	505 MB UL X			
	314 MS UL X	205 MS UL X	305 MGN X	2.305 MB UL X			
	204 MS UL X	305 MV UL X	315 MGR X	2.315 MB UL X			
	304 MV UL X	315 MV UL X	315 MGG X	305 LL X			
	314 MV UL X	205 MV UL X	315 MGX X	504 MB CU X			
	204 MV UL X	304 MGR X	315 MGN X	2.304 MB CU X			
	305 MA X	304 MGG X	205 MGR X				
	VALVOLE AD AZIONAMENTO MECCANICO <i>mechanically actuated valves</i> G1/8"	321 MP X	521 2PS X				
		521 MP X	321 MN X				
321 2P X		321 MNA X					
521 2P X		521 MN X					
321 CP X							
521 CP X							
321 MPS X							
321 MPSA X							
521 MPS X							
321 2PS X							
VALVOLE AD AZIONAMENTO MANUALE <i>manually actuated valves</i> G1/8"; G1/4"	321 ML90 X	321 TT X	522 CL90 X	522 CTT X			
	521 ML90 X	521 TT X	5223C ML90 X	322 LL X			
	321 LL90 X	321 CT X	5223A ML90 X	522 LL X			
	521 LL90 X	321 CTT X	5223P ML90 X	321 MB X			
	321 CL90 X	521 CT X	5223C LL90 X	321 MBA X			
	521 CL90 X	521 CTT X	5223A LL90 X	521 MB X			
	5213C ML90 X	5213A ML X	5223P LL90 X	321 MB90 X			
	5213A ML90 X	321 LL X	322 MT X	321 MBA90 X			
	5213P ML90 X	521 LL X	522 TT X	321 MB90 X			
	5213C LL90 X	322 ML90 X	322 TT X	521 BB90 X			
	5213A LL90 X	522 ML90 X	522 TT X	521 BB90 X			
	5213P LL90 X	322 LL90 X	322 CT X				
	321 MT X	522 LL90 X	322 CTT X				
	521 MT X	322 CL90 X	522 CT X				
	VALVOLE A PEDALE <i>pedal valves</i> ø4	PED 304 M X					

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ATEX components



ATEX II 2GD cII T6 IP6x T85°C			-10°C ≤ Ta ≤ +60°C		
VALVOLE 16 mm AZION. MECCANICO <i>mechanically actuated valves - 16 mm G1/8"</i>	431 MP X 451 MP X 431 MR X 451 MR X 431 MRL X 451 MRL X 431 MGR X	431 MGG X 431 MGX X 431 MGN X 451 MGR X 451 MGG X 451 MGX X 451 MGN X			
VALVOLE AD AZIONAMENTO PNEUMATICO <i>pneumatically piloted valves G1/8"; G1/4"</i>	321 CC X 321 CCD X 321 CFP X 521 CC X 521 CCD X 521 CFP X 5213C CC X 5213A CC X 5213P CC X 5223C CC X	5223A CC X 5223P CC X 322 MC X 322 MC SUP X 322 MCA X 522 MC X 522 MC SUP X 322 CC X 322 CCD X 322 CFP X	322 CC SUP X 522 CC X 522 CCD X 522 CFP X 522 CC SUP X 322 ORM X 322 ANDM X 322 2OR X 322 2AND X 522 ORM X	522 ANDM X 522 2OR X 522 2AND X 321 MCQ X 321 MCS X 521 MCQ X 521 MCS X 322 MCS X 522 MCS X	
VALVOLE AD AZIONAMENTO ELETTROPNEUMATICO <i>solenoid actuated valves G1/8"; G1/4"</i>	321 ME X 321 MEA X 321 CE X 521 ME X 521 CE X 321 ME AS X 521 ME AS X 321 EE X 321 EED X 321 EFP X 521 EE X 521 EED X 521 EFP X 321 EE AS X	521 EE AS X 5213C EE X 5213A EE X 5213P EE X 5213C EE AS X 5213A EE AS X 5213P EE AS X 321 ME90 S X 321 ME90 L X 521 ME90 S X 521 ME90 L X 321 EE90 S X 321 EE90 L X 521 EE90 S X	521 EE90 L X 322 ME X 322 MEA X 322 CE X 522 ME X 522 CE X 322 ME AS X 522 ME AS X 322 EE X 322 EED X 322 EFP X 522 EE X 522 EED X 522 EFP X	322 EE AS X 522 EE AS X 5223C EE X 5223A EE X 5223P EE X 5223C EE AS X 5223A EE AS X 5223P EE AS X	
VALVOLE G1/2" AZIONAMENTO PNEUMATICO <i>pneumatically piloted valves - G1/2"</i>	324 MC X 324 MCA X 324 CFP X 324 CC X 324 CCD X 524 MC X 524 CFP X	524 CC X 524 CCD X 5243C CC X 5243A CC X 5243P CC X			
VALVOLE G1/2" AZIONAMENTO ELETTROPNEUMATICO <i>solenoid actuated valves - G1/2"</i>	324 ME X 324 MEA X 324 ME AS X 324 EFP X 324 EE X 324 EE AS X 324 EED X	524 ME X 524 ME AS X 524 EFP X 524 EE X 524 EE AS X 524 EED X 5243C EE X	5243A EE X 5243P EE X 5243C EE AS X 5243A EE AS X 5243P EE AS X		
VALVOLE VDMA 18 mm AZION. PNEUMATICO <i>pneumatically piloted valves - VDMA 18 mm</i>	851 MC X 851 CC X 851 CCD X 851 CFP X 8513C CC X 8513A CC X				
VALVOLE 18 mm G1/8" AZION. PNEUMATICO <i>pneumatically piloted valves - 18 mm G1/8"</i>	731 MC X 731 MCA X 751 MC X 731 CC X 751 CC X 731 CCD X 751 CCD X 731 CFP X	751 CFP X 7513C CC X 7513A CC X			

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componenti ATEX

ATEX components


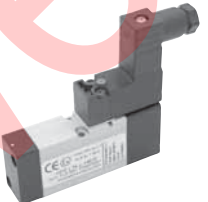





ATEX II 2GD cII T6 IP6x T85°C				-10°C ≤ Ta ≤ +60°C	
VALVOLE NAMUR <i>NAMUR valves</i> G1/4"	382 MC X 582 MC X 382 CC X 582 CC X 382 ME X 582 ME X 382 EE X	582 EE X			
VALVOLE ISO 5599/1 AZIONAMENTO PNEUMATICO <i>pneumatically piloted</i> <i>ISO 5599/1 valves</i> ISO 1 - ISO 2	152 MC X 152 CC X 152 CCD X 152 CFP X 153C CC X 153A CC X 153P CC X 252 MC X 252 CC X 252 CCD X	252 CFP X 253C CC X 253A CC X 253P CC X			
VALVOLE ISO 5599/1 AZIONAMENTO ELETTRIPNEUMATICO <i>solenoid actuated</i> <i>ISO 5599/1 valves</i> ISO 1 - ISO 2	152 ME X 152 EFP X 152 ME AS X 152 EE X 152 EE AS X 153C EE X 153A EE X 153P EE X 153C EE AS X 153A EE AS X	153P EE AS X 252 ME X 252 EFP X 252 ME AS X 252 EE X 252 EE AS X 253C EE X 253A EE X 253P EE X 253C EE AS X	253A EE AS X 253P EE AS X		
ELEMENTI LOGICI <i>logic elements</i> VALV. SCARICO RAPIDO <i>quick exhaust valves</i>	08.039.4X (NOT) 08.049.4X (YES) 04.003.4X (MEM) 04.002.4X (MEM) 08.180.4X 08.181.4X				
ELEMENTI INTEGRATI <i>integrated elements</i>	10.035.4X 10.018.3X 10.029.4X 10.027.4X 10.017.3X 10.019.3X 10.021.4X	AX.007.4X 00.074.4X 00.177.4X 08.156.4X 11.044.4X 11.066.4X 11.076.4X	11.077.4X		
ATEX II 2GD EEX mbII T5 IP66 T100°C				-15°C ≤ Ta ≤ +50°C	
BOBINE ATEX ANTIDIFLAGRANTI <i>explosion proof coils - ATEX</i>	00.284.0X 00.305.0X 00.332.0X 00.393.0X 00.333.0X 00.336.0X 00.392.0X 00.370.0X	Bobina antidefl. EExm ATEX 24V DC, 30 mm, cavo 3 metri Bobina antidefl. EExm ATEX 24V DC, 30 mm, cavo 5 metri Bobina antidefl. EExm ATEX 24V AC, 30 mm, cavo 3 metri Bobina antidefl. EExm ATEX 24V AC, 30 mm, cavo 5 metri Bobina antidefl. EExm ATEX 110V AC, 30 mm, cavo 3 metri Bobina antidefl. EExm ATEX 110V AC, 30 mm, cavo 5 metri Bobina antidefl. EExm ATEX 220V AC, 30 mm, cavo 3 metri Bobina antidefl. EExm ATEX 220V AC, 30 mm, cavo 5 metri			
caratteristiche elettriche - electrical data					
tensione [tension]		corrente [current]		frequenza [frequency]	
24V DC		0.125 A		-	
24V AC		0.133 A		50/60 Hz	
110V AC		0.029 A		50/60 Hz	
220V AC		0.0146 A		50/60 Hz	
				potenza [power]	
				3 W	
				3.2 VA	
				3.2 VA	
				3.2 VA	

ATEX



ELETTROVALVOLE SICUREZZA INTRINSECA • intrinsically safe solenoid valves
ATEX II 1/2 GD EEX ia cII T4 IP6x T135°C **-10°C ≤ Ta ≤ +60°C**

<p>VALVOLE 18 mm G1/8" AZIONAMENTO ELETTROPNEUMATICO <i>solenoid actuated valves - 18 mm G1/8"</i></p>	<p>731 ME 01 X 731 MEA 01 X 751 ME 01 X 731 ME AS 01 X 751 ME AS 01 X 731 EFP 01 X 751 EFP 01 X 731 EE 01 X 751 EE 01 X 731 EE AS 01 X</p>	<p>751 EE AS 01 X 7513C EE 01 X 7513A EE 01 X 7513C EE AS 01 X 7513A EE AS 01 X</p>																		
<p>VALVOLE VDMA 18 mm AZIONAMENTO ELETTROPNEUMATICO <i>solenoid actuated valves - VDMA 18 mm</i></p>	<p>851 ME 01 X 851 ME AS 01 X 851 EFP 01 X 851 EE 01 X 851 EE AS 01 X 8513C EE 01 X 8513A EE 01 X 8513C EE AS 01 X 8513A EE AS 01 X</p>																			
<p>VALVOLE G1/8" - G1/4" AZIONAMENTO ELETTROPNEUMATICO <i>solenoid actuated G1/8" - G1/4" valves</i></p>	<p>321 ME MICX 321 EE MICX 521 ME MICX 521 EE MICX 322 ME MICX 322 EE MICX 522 ME MICX</p>	<p>522 EE MICX 5213C EE MICX 5213A EE MICX 5213P EE MICX 5223C EE MICX 5223A EE MICX 5223P EE MICX</p>																		
<p>VALVOLE NAMUR <i>NAMUR valves</i> G1/4"</p>	<p>582 ME MICX 582 EE MICX 382 EE MICX 382 EE MICX</p>																			
<p>ELETTROPILOTA SICUREZZA INTRINSECA <i>intrinsically safe solenoid pilot</i></p>	<p>00.379.0 (15 mm - 24V DC)</p>	<p align="center">caratteristiche elettriche - electrical data</p> <table border="1"> <tr> <td>corrente nominale</td> <td>0.03 A</td> <td><i>nominal current</i></td> </tr> <tr> <td>corrente massima</td> <td>0.33 A</td> <td><i>maximum current</i></td> </tr> <tr> <td>potenza</td> <td>0.72 W</td> <td><i>power</i></td> </tr> <tr> <td>tensione massima</td> <td>30 V</td> <td><i>maximum tension</i></td> </tr> <tr> <td>resistenza massima</td> <td>1150 Ω</td> <td><i>maximum resistance</i></td> </tr> </table>			corrente nominale	0.03 A	<i>nominal current</i>	corrente massima	0.33 A	<i>maximum current</i>	potenza	0.72 W	<i>power</i>	tensione massima	30 V	<i>maximum tension</i>	resistenza massima	1150 Ω	<i>maximum resistance</i>	
corrente nominale	0.03 A	<i>nominal current</i>																		
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potenza	0.72 W	<i>power</i>																		
tensione massima	30 V	<i>maximum tension</i>																		
resistenza massima	1150 Ω	<i>maximum resistance</i>																		



componenti ATEX

ATEX components

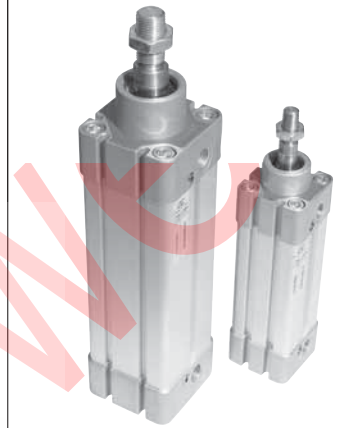


ATEX II 2GD cII T6 IP6x T85°C

-10°C ≤ Ta ≤ +60°C

CILINDRI
ISO 6431 VDMA
cylinders
ISO 6431 VDMA
ø32 ... 200

N11M20320025 X	N11M20500200 X	N11M20800550 X	N11M21250950 X
N11M20320050 X	N11M20500250 X	N11M20800600 X	N11M21251000 X
N11M20320075 X	N11M20500300 X	N11M20800650 X	N11M21600050 X
N11M20320080 X	N11M20500320 X	N11M20800700 X	N11M21600080 X
N11M20320100 X	N11M20500350 X	N11M20800750 X	N11M21600100 X
N11M20320125 X	N11M20500400 X	N11M20800800 X	N11M21600150 X
N11M20320150 X	N11M20500450 X	N11M20800850 X	N11M21600160 X
N11M20320160 X	N11M20500500 X	N11M20800900 X	N11M21600200 X
N11M20320200 X	N11M20500550 X	N11M20800950 X	N11M21600250 X
N11M20320250 X	N11M20500600 X	N11M20801000 X	N11M21600300 X
N11M20320300 X	N11M20500650 X	N11M21000025 X	N11M21600320 X
N11M20320320 X	N11M20500700 X	N11M21000050 X	N11M21600400 X
N11M20320350 X	N11M20500750 X	N11M21000075 X	N11M21600500 X
N11M20320400 X	N11M20500800 X	N11M21000080 X	N11M21600600 X
N11M20320450 X	N11M20500850 X	N11M21000100 X	N11M21600700 X
N11M20320500 X	N11M20500900 X	N11M21000125 X	N11M21600800 X
N11M20320550 X	N11M20500950 X	N11M21000150 X	N11M21600900 X
N11M20320600 X	N11M20501000 X	N11M21000160 X	N11M21601000 X
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N11M20320750 X	N11M20630075 X	N11M21000300 X	N11M22000100 X
N11M20320800 X	N11M20630080 X	N11M21000320 X	N11M22000150 X
N11M20320850 X	N11M20630100 X	N11M21000350 X	N11M22000160 X
N11M20320900 X	N11M20630125 X	N11M21000400 X	N11M22000200 X
N11M20320950 X	N11M20630150 X	N11M21000450 X	N11M22000250 X
N11M20321000 X	N11M20630160 X	N11M21000500 X	N11M22000300 X
N11M20400025 X	N11M20630200 X	N11M21000550 X	N11M22000320 X
N11M20400050 X	N11M20630250 X	N11M21000600 X	N11M22000400 X
N11M20400075 X	N11M20630300 X	N11M21000650 X	N11M22000500 X
N11M20400080 X	N11M20630320 X	N11M21000700 X	N11M22000600 X
N11M20400100 X	N11M20630350 X	N11M21000750 X	N11M22000700 X
N11M20400125 X	N11M20630400 X	N11M21000800 X	N11M22000800 X
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N11M20400900 X	N11M20800125 X	N11M21250400 X	
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N11M20500125 X	N11M20800400 X	N11M21250800 X	
N11M20500150 X	N11M20800450 X	N11M21250850 X	
N11M20500160 X	N11M20800500 X	N11M21250900 X	



Per le seguenti opzioni contattare l'ufficio commerciale: stelo passante, stelo INOX.
 For the following options please contact our commercial office: passing-through rod, stainless steel rod.



componenti ATEX

ATEX components

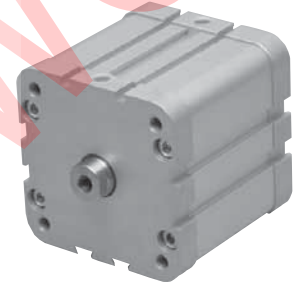


ATEX II 2GD cII T6 IP6x T85°C

-10°C ≤ Ta ≤ +60°C

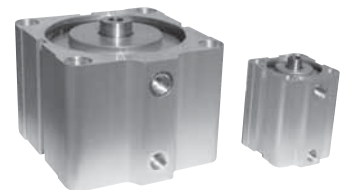
CILINDRI COMPATTI
compact cylinders
ø32 ... 100
ISO - UNITOP

P11M20320005 X	P11M20630075 X	R11M20320200 X	R11M20800050 X
P11M20320010 X	P11M20630080 X	R11M20400005 X	R11M20800075 X
P11M20320025 X	P11M20630100 X	R11M20400010 X	R11M20800080 X
P11M20320030 X	P11M20630125 X	R11M20400025 X	R11M20800100 X
P11M20320040 X	P11M20630150 X	R11M20400030 X	R11M20800125 X
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P11M20320100 X	P11M20800010 X	R11M20400080 X	R11M21000005 X
P11M20320125 X	P11M20800025 X	R11M20400100 X	R11M21000010 X
P11M20320150 X	P11M20800030 X	R11M20400125 X	R11M21000025 X
P11M20320160 X	P11M20800040 X	R11M20400150 X	R11M21000030 X
P11M20320200 X	P11M20800050 X	R11M20400160 X	R11M21000040 X
P11M20400005 X	P11M20800075 X	R11M20400200 X	R11M21000050 X
P11M20400010 X	P11M20800080 X	R11M20500005 X	R11M21000075 X
P11M20400025 X	P11M20800100 X	R11M20500010 X	R11M21000080 X
P11M20400030 X	P11M20800125 X	R11M20500025 X	R11M21000100 X
P11M20400040 X	P11M20800150 X	R11M20500030 X	R11M21000125 X
P11M20400050 X	P11M20800160 X	R11M20500040 X	R11M21000150 X
P11M20400075 X	P11M20800200 X	R11M20500050 X	R11M21000160 X
P11M20400080 X	P11M21000005 X	R11M20500075 X	R11M21000200 X
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P11M20630010 X	R11M20320080 X	R11M20800005 X	
P11M20630025 X	R11M20320100 X	R11M20800010 X	
P11M20630030 X	R11M20320125 X	R11M20800025 X	
P11M20630040 X	R11M20320150 X	R11M20800030 X	
P11M20630050 X	R11M20320160 X	R11M20800040 X	



CILINDRI CORSA BREVE
short stroke cylinders
ø16 ... 100

D11M20160005 X	D11M20250040 X	D11M20500010 X	D11M20800030 X
D11M20160010 X	D11M20250050 X	D11M20500025 X	D11M20800040 X
D11M20160025 X	D11M20320005 X	D11M20500030 X	D11M20800050 X
D11M20160030 X	D11M20320010 X	D11M20500040 X	D11M20800075 X
D11M20160040 X	D11M20320025 X	D11M20500050 X	D11M20800100 X
D11M20200005 X	D11M20320030 X	D11M20630005 X	D11M21000005 X
D11M20200010 X	D11M20320040 X	D11M20630010 X	D11M21000010 X
D11M20200025 X	D11M20320050 X	D11M20630025 X	D11M21000025 X
D11M20200030 X	D11M20400005 X	D11M20630030 X	D11M21000030 X
D11M20200040 X	D11M20400010 X	D11M20630040 X	D11M21000040 X
D11M20200050 X	D11M20400025 X	D11M20630050 X	D11M21000050 X
D11M20250005 X	D11M20400030 X	D11M20630075 X	D11M21000075 X
D11M20250010 X	D11M20400040 X	D11M20800005 X	D11M21000100 X
D11M20250025 X	D11M20400050 X	D11M20800010 X	
D11M20250030 X	D11M20500005 X	D11M20800025 X	



Per le seguenti opzioni contattare l'ufficio commerciale: stelo passante, stelo INOX.
For the following options please contact our commercial office: passing-through rod, stainless steel rod.

EURO-PTC



INDICI ALFANUMERICI

product reference directories

EURO-PTC



indice alfanumerico ordinato per pagina

product reference directory - ordered by catalogue page



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
304 MA	08.030.4	17	314 MGN	08.247.4	27	431 MRL	05.140.4	40	522 LL90	01.057.4	66
314 MA	08.035.4	17	204 MGR	08.228.4	27	451 MRL	05.141.4	40	322 CL90	01.082.4	67
204 MA	08.104.4	17	204 MGG	08.229.4	27	431 MGR	05.142.4	41	522 CL90	01.065.4	67
304 MB	08.031.4	17	204 MG	08.230.4	27	431 MGG	05.143.4	41	5223C ML90	01.061.4	68
314 MB	08.036.4	17	204 MGN	08.231.4	27	431 MG	05.144.4	41	5223A ML90	01.062.4	68
204 MB	08.105.4	17	304 MGR UL	08.216.4	27	431 MGN	05.145.4	41	5223P ML90	01.063.4	68
304 MR	08.032.4	18	304 MGG UL	08.217.4	27	451 MGR	05.146.4	41	5223C LL90	01.059.4	68
314 MR	08.037.4	18	304 MG	08.218.4	27	451 MGG	05.147.4	41	5223A LL90	01.060.4	68
204 MR	08.111.4	18	304 MGN UL	08.219.4	27	451 MG	05.148.4	41	5223P LL90	01.058.4	68
304 MS	08.033.4	18	314 MGR UL	08.248.4	27	451 MGN	05.149.4	41	322 MT	01.066.4	69
314 MS	08.038.4	18	314 MGG UL	08.249.4	27	431 MT	05.213.4	42	522 MT	01.068.4	69
204 MS	08.117.4	18	314 MG	08.250.4	27	451 MT	05.215.4	42	322 TT	01.067.4	69
304 MV	08.034.4	19	314 MGN UL	08.251.4	27	431 TT	05.214.4	43	522 TT	01.069.4	70
314 MV	08.116.4	19	204 MGR UL	08.232.4	27	451 TT	05.216.4	43	322 CT	01.041.4	70
204 MV	08.125.4	19	204 MGG UL	08.233.4	27	431 LL	05.169.4	44	322 CTT	01.078.4	70
304 MA UL	08.050.4	19	204 MG	08.234.4	27	451 LL	05.217.4	44	522 CT	01.042.4	71
314 MA UL	08.060.4	19	204 MGN UL	08.235.4	27	431 MRU	05.220.4	45	522 CTT	01.079.4	71
204 MA UL	08.172.4	19	305 MGR	08.220.4	28	451 MRU	05.221.4	45	322 LL	01.049.4	72
304 MB UL	08.051.4	20	305 MGG	08.221.4	28	431 MLL	05.174.4	46	522 LL	01.050.4	72
314 MB UL	08.061.4	20	305 MG	08.222.4	28	421 MLL	05.175.4	46		00.099.2	73
204 MB UL	08.130.4	20	305 MGN	08.223.4	28	451 MLL	05.219.4	47		00.106.2	73
304 MR UL	08.052.4	20	315 MGR	08.252.4	28	321 MP	00.077.4	49		01.041.2	73
314 MR UL	08.062.4	20	315 MGG	08.253.4	28	521 MP	00.078.4	49		01.054.2	73
204 MR UL	08.196.4	20	315 MG	08.254.4	28	321 2P	00.133.4	49	5213A ML	00.151.4	74
304 MS UL	08.053.4	21	315 MGN	08.255.4	28	521 2P	00.036.4	50	5213A LL	00.200.4	74
314 MS UL	08.063.4	21	205 MGR	08.236.4	28	321 CP	00.135.4	50		00.136.3	74
204 MS UL	08.160.4	21	205 MGG	08.237.4	28	521 CP	00.136.4	50		00.137.3	74
304 MV UL	08.054.4	21	205 MG	08.238.4	28	321 MPS	00.079.4	51		00.138.3	74
314 MV UL	08.158.4	21	205 MGN	08.239.4	28	321 MPSA	00.080.4	51		00.139.3	74
204 MV UL	08.149.4	21	305 MGR UL	08.224.4	28	521 MPS	00.081.4	51		00.163.4	75
305 MA	08.040.4	22	305 MGG UL	08.225.4	28	321 2PS	00.134.4	52		00.160.4	75
315 MA	08.045.4	22	305 MG	08.226.4	28	521 2PS	00.019.4	52		00.164.4	75
205 MA	08.141.4	22	305 MGN UL	08.227.4	28	321 MR	00.082.4	52		00.130.4	75
305 MB	08.041.4	22	315 MGR UL	08.256.4	28	521 MR	00.083.4	53		10.071.4	76
315 MB	08.046.4	22	315 MGG UL	08.257.4	28	321 MRU	00.084.4	53		10.072.4	76
205 MB	08.157.4	22	315 MG	08.258.4	28	521 MRU	00.085.4	53		10.069.4	77
305 MR	08.042.4	23	315 MGN UL	08.259.4	28	321 MRS	00.086.4	54		10.070.4	77
315 MR	08.047.4	23	205 MGR UL	08.240.4	28	321 MRSA	00.087.4	54	321 MB	00.072.4	78
205 MR	08.173.4	23	205 MGG UL	08.241.4	28	521 MRS	00.088.4	54	321 MBA	00.061.4	78
305 MS	08.043.4	23	205 MG	08.242.4	28	321 MN	00.089.4	55	521 MB	00.073.4	78
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M22A3...		387		17.066.0	406	SGM063P	21.113.2	419		000.510.7	424
M22A4...		387		17.062.0	406	SGM080P	21.114.2	419		000.511.7	424
M22A5...		387		17.067.0	406	SGM100P	21.115.2	419		000.512.7	424
M22A6...		387		17.068.0	406	SGM125P	21.116.2	419		000.513.7	424
M22B1...		387		17.060.0	406	SGM160P	21.117.2	419		000.514.7	424
M22B2...		387		17.061.0	406	SGM200P	21.118.2	419		000.515.7	424
M22B3...		387		17.069.0	406	SGM032V	21.120.2	419		000.516.7	424
M22B4...		387	N11M2...		409	SGM040V	21.121.2	419		000.517.7	424
M22B5...		387	N11M4...		409	SGM050V	21.122.2	419		000.518.7	424
M22B6...		387	N11B2...		409	SGM063V	21.123.2	419		000.530.7	425
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GPM12-16	26.141.2	393	N12M2...		409	SGM100V	21.125.2	419		000.532.7	425
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CMSS040	26.080.2N	426	CIN100	26.093.2N	431		26.125.0	441	UB040C200	27.138.2	451
CMSS050	26.081.2N	426	CIN125	26.100.2N	431	TS8T10	26.010.0	442	UB040C250	27.139.2	451
CMSS063	26.082.2N	426	SNINT032B	26.094.2N	432	TS12T16	26.011.0	442	UB040C300	27.140.2	451
CMSS080	26.083.2N	426	SNINT040-050B	26.095.2N	432	TST20	26.012.0	442	UB040C400	27.141.2	451
CMSS100	26.084.2N	426	SNINT063-080B	26.097.2N	432	TS25T32	26.013.0	442	UB040C500	27.142.2	451
CMSS125	26.085.2N	426	SNINT100-125B	26.099.2N	432	TST40	26.014.0	442	UB050C050	27.143.2	451
CMSS160	26.086.2N	426	CSIS160TI	26.325.2N	433	TS50T63	26.015.0	442	UB050C100	27.144.2	451
CMSS200	26.087.2N	426	CSIS200TI	26.326.2N	433	TS80T100	26.016.0	442	UB050C150	27.145.2	451
CMIS032	26.019.2N	427		26.327.2N	434	TST125	26.017.0	442	UB050C200	27.146.2	451
CMIS040	26.020.2N	427		26.328.2N	434	TS160T200	26.018.0	442	UB050C250	27.147.2	451
CMIS050	26.021.2N	427	COIS032	26.052.2N	435	TS8T10X	26.050.0	442	UB050C300	27.148.2	451
CMIS063	26.022.2N	427	COIS040	26.053.2N	435	TS12T16X	26.051.0	442	UB050C400	27.149.2	451
CMIS080	26.023.2N	427	COIS050	26.054.2N	435	TST20X	26.052.0	442	UB050C500	27.150.2	451
CMIS100	26.024.2N	427	COIS063	26.055.2N	435	TS25T32X	26.053.0	442	UB063C050	27.151.2	451
CMIS125	26.025.2N	427	COIS080	26.056.2N	435	TST40X	26.046.0	442	UB063C100	27.152.2	451
CMIS160	26.026.2N	427	COIS100	26.057.2N	435	TS50T63X	26.054.0	442	UB063C150	27.153.2	451
CMIS200	26.027.2N	427	COIS125	26.320.2N	435	TS80T100X	26.047.0	442	UB063C200	27.154.2	451
CMKS032	26.028.2N	427	COIS160	26.322.2N	435	TST125X	26.048.0	442	UB063C250	27.155.2	451
CMKS040	26.029.2N	427	COIS200	26.329.2N	435	TS160T200X	26.049.0	442	UB063C300	27.156.2	451
CMKS050	26.030.2N	427	COVDMA32	26.282.2N	436	SN12D16	26.019.0	443	UB063C400	27.180.2	451
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CMKS100	26.033.2N	427	COVDMA63	26.285.2N	436	SND40	26.022.0	443	UB080C100	27.183.2	451
CMKS125	26.034.2N	427	COVDMA80	26.286.2N	436	SN50D63	26.023.0	443	UB080C150	27.184.2	451
CMKS160	26.035.2N	427	COVDMA100	26.287.2N	436	SN80D100	26.024.0	443	UB080C200	27.185.2	451
CMKS200	26.036.2N	427	COVDMA125	26.288.2N	436	SND125	26.045.0	443	UB080C250	27.186.2	451
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CFIS100	26.006.2N	428	CFSIS063	26.333.2N	437	BM012	27.157.0	446	UB100C150	27.192.2	451
CFIS125	26.007.2N	428	CFSIS080	26.334.2N	437	BM020	27.158.0	446	UB100C200	27.193.2	451
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FLIS160	26.077.2N	429	DSIS05063	21.752.0	441	UB025C050	27.198.2	450	HS025C250	27.207.0	452
FLIS200	26.078.2N	429	DSIS080100	21.753.0	441	UB025C100	27.199.2	450	HB012C050	27.059.2	452
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PBIS125	26.043.2N	430	DSIS125X	21.761.0	441	UB032C200	27.130.2	451	HB020C160	27.066.2	452
PBIS160	26.044.2N	430	DSIS160200X	21.762.0	441	UB032C250	27.131.2	451	HB020C200	27.067.2	452
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HSO32C200	27.014.0	453	HBO50C400	27.091.2	453	P21M3...		456	R33M2...		456
HSO32C250	27.015.0	453	HBO50C500	27.092.2	453	P21M4...		456	R33M3...		456
HSO32C300	27.016.0	453	HB063C050	27.093.2	453	P22M1...		456	R33M4...		456
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HSO80C150	27.045.0	453	KHB 050	27.254.0	454	P43M2...		456	GP080V	25.127.2	460
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HS100C400	27.057.0	453	KHS 100	27.267.0	454	R13M2...		456		25.086.2	469
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HBO40C250	27.081.2	453	P12M1...		456	R23M4...		456	KR040	25.105.3	470
HBO40C300	27.082.2	453	P12M2...		456	R31M1...		456	KR050	25.106.3	470
HBO40C400	27.083.2	453	P12M3...		456	R31M2...		456	KR063	25.107.3	470
HBO40C500	27.084.2	453	P12M4...		456	R31M3...		456	KR080	25.108.3	470
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KP080P	25.018.3	470	D12M2...		478	CGB16-050	30.0005.4	497	CGBB20-075	30.0155.4	497
KP100P	25.019.3	470	D12M3...		478	CGB16-075	30.0006.4	497	CGBB20-100	30.0156.4	497
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KR063P	25.117.3	470	D13M3...		478	CGB20-040	30.0103.4	497	CGBB20-200	30.0160.4	497
KR080P	25.118.3	470	D13M4...		478	CGB20-050	30.0104.4	497	CGBB25-020	30.0251.4	497
KR100P	25.119.3	470	D21M1...		478	CGB20-075	30.0105.4	497	CGBB25-025	30.0252.4	497
KP032V	25.024.3	470	D21M2...		478	CGB20-100	30.0106.4	497	CGBB25-030	30.0253.4	497
KP040V	25.025.3	470	D21M3...		478	CGB20-125	30.0107.4	497	CGBB25-040	30.0254.4	497
KP050V	25.026.3	470	D21M4...		478	CGB20-150	30.0108.4	497	CGBB25-050	30.0255.4	497
KP063V	25.027.3	470	D22M1...		478	CGB20-175	30.0109.4	497	CGBB25-075	30.0256.4	497
KP080V	25.028.3	470	D22M2...		478	CGB20-200	30.0110.4	497	CGBB25-100	30.0257.4	497
KP100V	25.029.3	470	D22M3...		478	CGB25-020	30.0201.4	497	CGBB25-125	30.0258.4	497
KR032V	25.124.3	470	D22M4...		478	CGB25-025	30.0202.4	497	CGBB25-150	30.0259.4	497
KR040V	25.125.3	470	D23M1...		478	CGB25-030	30.0203.4	497	CGBB25-175	30.0260.4	497
KR050V	25.126.3	470	D23M2...		478	CGB25-040	30.0204.4	497	CGBB25-200	30.0261.4	497
KR063V	25.127.3	470	D23M3...		478	CGB25-050	30.0205.4	497	CGBB32-025	30.0351.4	497
KR080V	25.128.3	470	D23M4...		478	CGB25-075	30.0206.4	497	CGBB32-050	30.0352.4	497
KR100V	25.129.3	470	GD016	22.100.2	486	CGB25-100	30.0207.4	497	CGBB32-075	30.0353.4	497
KP032PV	25.034.3	470	GD020	22.101.2	486	CGB25-125	30.0208.4	497	CGBB32-100	30.0354.4	497
KP040PV	25.035.3	470	GD025	22.102.2	486	CGB25-150	30.0209.4	497	CGBB32-125	30.0355.4	497
KP050PV	25.036.3	470	GD032	22.103.2	486	CGB25-175	30.0210.4	497	CGBB32-150	30.0356.4	497
KP063PV	25.037.3	470	GD040	22.104.2	486	CGB25-200	30.0211.4	497	CGBB32-175	30.0357.4	497
KP080PV	25.038.3	470	GD050	22.105.2	486	CGB32-025	30.0301.4	497	CGBB32-200	30.0358.4	497
KP100PV	25.039.3	470	GD063	22.106.2	486	CGB32-050	30.0302.4	497	CGBB40-025	30.0451.4	497
KR032PV	25.134.3	470	GD080	22.107.2	486	CGB32-075	30.0303.4	497	CGBB40-050	30.0452.4	497
KR040PV	25.135.3	470	GD100	22.108.2	486	CGB32-100	30.0304.4	497	CGBB40-075	30.0453.4	497
KR050PV	25.136.3	470	GD016P	22.110.2	486	CGB32-125	30.0305.4	497	CGBB40-100	30.0454.4	497
KR063PV	25.137.3	470	GD020P	22.111.2	486	CGB32-150	30.0306.4	497	CGBB40-125	30.0455.4	497
KR080PV	25.138.3	470	GD025P	22.112.2	486	CGB32-175	30.0307.4	497	CGBB40-150	30.0456.4	497
KR100PV	25.139.3	470	GD032P	22.113.2	486	CGB32-200	30.0308.4	497	CGBB40-175	30.0457.4	497
	000.523.7	471	GD040P	22.114.2	486	CGB40-025	30.0401.4	497	CGBB40-200	30.0458.4	497
	000.524.7	471	GD050P	22.115.2	486	CGB40-050	30.0402.4	497	CGBB50-025	30.0551.4	497
	000.525.7	471	GD063P	22.116.2	486	CGB40-075	30.0403.4	497	CGBB50-050	30.0552.4	497
	000.526.7	471	GD080P	22.117.2	486	CGB40-100	30.0404.4	497	CGBB50-075	30.0553.4	497
	000.527.7	471	GD100P	22.118.2	486	CGB40-125	30.0405.4	497	CGBB50-100	30.0554.4	497
	000.528.7	471	GD016V	22.120.2	486	CGB40-150	30.0406.4	497	CGBB50-125	30.0555.4	497
CFUN032	26.501.2	474	GD020V	22.121.2	486	CGB40-175	30.0407.4	497	CGBB50-150	30.0556.4	497
CFUN040	26.502.2	474	GD025V	22.122.2	486	CGB40-200	30.0408.4	497	CGBB50-175	30.0557.4	497
CFUN050	26.503.2	474	GD032V	22.123.2	486	CGB50-025	30.0501.4	497	CGBB50-200	30.0558.4	497
CFUN063	26.504.2	474	GD040V	22.124.2	486	CGB50-050	30.0502.4	497	CGBB63-025	30.0651.4	497
CFUN080	26.505.2	474	GD050V	22.125.2	486	CGB50-075	30.0503.4	497	CGBB63-050	30.0652.4	497
CFUN100	26.506.2	474	GD063V	22.126.2	486	CGB50-100	30.0504.4	497	CGBB63-075	30.0653.4	497
CFKN032	26.510.2	474	GD080V	22.127.2	486	CGB50-125	30.0505.4	497	CGBB63-100	30.0654.4	497
CFKN040	26.511.2	474	GD100V	22.128.2	486	CGB50-150	30.0506.4	497	CGBB63-125	30.0655.4	497
CFKN050	26.512.2	474	GD016PV	22.130.2	486	CGB50-175	30.0507.4	497	CGBB63-150	30.0656.4	497
CFKN063	26.513.2	474	GD020PV	22.131.2	486	CGB50-200	30.0508.4	497	CGBB63-175	30.0657.4	497
CFKN080	26.514.2	474	GD025PV	22.132.2	486	CGB63-025	30.0601.4	497	CGBB63-200	30.0658.4	497
CFKN100	26.515.2	474	GD032PV	22.133.2	486	CGB63-050	30.0602.4	497	ARF90-32	32.0001.4	501
FLUN032	26.570.2	475	GD040PV	22.134.2	486	CGB63-075	30.0603.4	497	ARF180-32	32.0002.4	501
FLUN040	26.571.2	475	GD050PV	22.135.2	486	CGB63-100	30.0604.4	497	ARF270-32	32.0003.4	501
FLUN050	26.572.2	475	GD063PV	22.136.2	486	CGB63-125	30.0605.4	497	ARF360-32	32.0004.4	501
FLUN063	26.573.2	475	GD080PV	22.137.2	486	CGB63-150	30.0606.4	497	ARM90-32	32.0005.4	501
FLUN080	26.574.2	475	GD100PV	22.138.2	486	CGB63-175	30.0607.4	497	ARM180-32	32.0006.4	501
FLUN100	26.575.2	475	DCCB 16/32 (M5)	26.156.0T	487	CGB63-200	30.0608.4	497	ARM270-32	32.0007.4	501
PBUN032	26.537.2	476	DCCB 32/100 (M6)	26.157.0T	487	CGBB16-010	30.0051.4	497	ARM360-32	32.0008.4	501
PBUN040	26.538.2	476	D11L2...		488	CGBB16-020	30.0052.4	497	ARF90-40	32.0009.4	501
PBUN050	26.539.2	476	D12L2...		488	CGBB16-030	30.0053.4	497	ARF180-40	32.0010.4	501
PBUN063	26.540.2	476	D13L2...		488	CGBB16-040	30.0054.4	497	ARF270-40	32.0011.4	501
PBUN080	26.541.2	476	J11M2...		491	CGBB16-050	30.0055.4	497	ARF360-40	32.0012.4	501
PBUN100	26.542.2	476	J11M4...		491	CGBB16-075	30.0056.4	497	ARM90-40	32.0013.4	501
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ARM360-40	32.0016.4	501	5510	37.012.0	513	21128	37.079.0	522	REG 3-08	16.005.3	566
ARF90-50	32.0017.4	501	6510	37.013.0	513	21129	37.080.0	522	REG 4-08	16.009.3	568
ARF180-50	32.0018.4	501	8510	37.014.0	513	21107	37.081.0	523	REG 6N-10	16.118.0	570
ARF270-50	32.0019.4	501	21063	37.015.0	514	21108	37.082.0	523	REGP 6H10	16.151.0	572
ARF360-50	32.0020.4	501	21064	37.016.0	514	21109	37.083.0	523	LUB 2-00	16.003.3	574
ARM90-50	32.0021.4	501	3550	37.017.0	514	21110	37.084.0	523	LUB 3-00	16.007.3	576
ARM180-50	32.0022.4	501	4530	37.018.0	514	21119	37.085.0	524	LUB 4-00	16.011.3	578
ARM270-50	32.0023.4	501	5530	37.019.0	514	21120	37.086.0	524	LUB 6N-00	16.119.0	580
ARM360-50	32.0024.4	501	6530	37.020.0	514	21121	37.087.0	524	FR 2-08-25-S	16.004.3	582
ARF90-63	32.0025.4	501	8530	37.021.0	514	21122	37.088.0	524	FR 2-08-05-S	16.020.3	582
ARF180-63	32.0026.4	501	20408	37.022.0	515	RS1-A	RS1/A	532	FR 3-08-30-S	16.008.3	584
ARF270-63	32.0027.4	501	2010	37.023.0	515	RS1-A 5MT	RS1/A 5MT	532	FR 3-08-05-S	16.021.3	584
ARF360-63	32.0028.4	501	3010	37.024.0	515	RS2-A	RS2/A	532	FR 4-08-30-S	16.012.3	586
ARM90-63	32.0029.4	501	4010	37.025.0	515	RS3-A	RS3/A	532	FR 4-08-05-S	16.022.3	586
ARM180-63	32.0030.4	501	5010	37.026.0	515	RS4-A	RS4/A	532	FR 6N-10-30-S	16.120.0	588
ARM270-63	32.0031.4	501	6010	37.027.0	515	RS5-C	RS5/C	532	FR 6N-10-05-S	16.121.0	588
ARM360-63	32.0032.4	501	8010	37.028.0	515	RS6-3F	RS6/3F	533	FR+L 2-08-25-S	16.001.4	590
ARF90-80	32.0033.4	501	20435	37.029.0	516	RS7-3F	RS7/3F	533	FR+L 3-08-30-S	16.003.4	592
ARF180-80	32.0034.4	501	20009	37.030.0	516	SH1-P	SH1/P	533	FR+L 4-08-30-S	16.007.4	594
ARF270-80	32.0035.4	501	20158	37.031.0	516	SH2-P	SH2/P	533	FR+L 6N-10-30-S	16.060.4	596
ARF360-80	32.0036.4	501	20028	37.032.0	516		26.164.0	534	FRL 2-08-25-S	16.002.4	598
ARM90-80	32.0037.4	501	20163	37.033.0	516		26.165.0	534	FRL 3-08-30-S	16.004.4	600
ARM180-80	32.0038.4	501	20452	37.034.0	516		26.166.0	534	FRL 4-08-30-S	16.008.4	602
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ARF360-100	32.0044.4	501	20162	37.090.0	516		26.041.0	536	SCR 4-P	16.013.4	610
ARM90-100	32.0045.4	501	20451	37.041.0	516		26.042.0	536	SCR 4-E	16.019.3	610
ARM180-100	32.0046.4	501	20480	37.042.0	516		26.229.0	536	AVP 4-00	16.012.4	612
ARM270-100	32.0047.4	501	20432	37.043.0	517		26.230.0	536	AVP 6N-01	16.148.0	614
ARM360-100	32.0048.4	501	20006	37.044.0	517		26.231.0	536	SR-M3	16.013.3	617
ARF90-125	32.0049.4	501	20025	37.045.0	517		26.232.0	536	SR-M4	16.014.3	618
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ARF270-125	32.0051.4	501	20007	37.047.0	517		26.145.0	537	RPE 2V NA	16.175.0	621
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ARM90-125	32.0053.4	501	21135	37.049.0	518		26.196.0	537		16.177.0	621
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OPL32-00000-xxxxx	37.CA.xxxxx	508	21136	37.052.0	518	FIL 3-05-S	16.017.3	546		16.172.0	628
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			20349	37.059.0	519	FIL 6N-05-S	16.117.0	550	KIT 4-00	16.018.0	630
OPL-KF25-00000-xxxxx	37.CJ.xxxxx	510	21130	37.092.0	520	MFIL 2-S	16.024.3	552	KIT 6N-00	16.122.0	630
			21131	37.063.0	520	MFIL 3-S	16.025.3	552	KIT 4N-00	16.201.0	630
OPL-KF32-00000-xxxxx	37.DJ.xxxxx	510	21132	37.094.0	520	MFIL 4-S	16.026.3	552	AKS 3	16.007.2	631
			21133	37.065.0	520	MFIL 6N-S	16.156.0	552	AKS 4-6	16.029.0	631
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			21144	37.069.0	520	CFIL 6N-S	16.155.0	554		16.109.0	632
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21056	37.003.0	512	21148	37.072.0	521	MREG 2-08	16.011.4	558		16.066.0	632
21057	37.004.0	512	21151	37.073.0	521	MREG 2-04	16.016.4	558		16.068.0	632
21058	37.005.0	512	21150	37.074.0	521		16.070.4	560		16.146.0	632
21059	37.006.0	512	21149	37.075.0	521		16.071.4	560		16.098.0	632
21060	37.007.0	512	21125	37.076.0	522	REG 2-08	16.001.3	562		16.137.0	632
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152 CCD	00.094.4	276	20435	37.029.0	516	252 CCD	02.052.4	290	314 MGV	08.246.4	27
152 CFP	00.173.4	276	20451	37.041.0	516	252 CFP	02.053.4	290	314 MGV UL	08.250.4	27
152 EE	00.114.4	278	20452	37.034.0	516	252 EE	02.071.3	292	314 MR	08.037.4	18
152 EE AS	00.065.4	278	20480	37.042.0	516	252 EE AS	02.074.3	292	314 MR UL	08.062.4	20
152 EFP	06.001.4	277	20482	37.035.0	516	252 EFP	02.072.3	291	314 MS	08.038.4	18
152 MC	00.095.4	276	205 MA	08.141.4	22	252 MC	02.050.4	290	314 MS UL	08.063.4	21
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153A EE	00.117.4	278	205 MGG	08.237.4	28	253A EE	02.076.3	292	315 MA UL	08.151.4	24
153A EE AS	00.067.4	278	205 MGG UL	08.241.4	28	253A EE AS	02.079.3	292	315 MB	08.046.4	22
153C CC	00.101.4	276	205 MGN	08.239.4	28	253C CC	02.054.4	290	315 MB UL	08.175.4	25
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153P EE AS	00.113.4	278	205 MG UL	08.242.4	28	253P EE AS	02.080.3	292	315 MGR	08.252.4	28
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20006	37.044.0	517	21057	37.004.0	512	304 MGN	08.215.4	27	321 2P	00.133.4	49
20007	37.047.0	517	21058	37.005.0	512	304 MGN UL	08.219.4	27	321 2PS	00.134.4	52
20008	37.037.0	516	21059	37.006.0	512	304 MGR	08.212.4	27	321 BB90	00.141.4	80
20009	37.030.0	516	21060	37.007.0	512	304 MGR UL	08.216.4	27	321 CC	00.025.4	94
20025	37.045.0	517	21063	37.015.0	514	304 MG	08.214.4	27	321 CCD	00.024.4	94
20026	37.048.0	517	21064	37.016.0	514	304 MG UL	08.218.4	27	321 CE	00.032.3	168
20027	37.039.0	516	21107	37.081.0	523	304 MR	08.032.4	18	321 CFP	00.021.4	94
20028	37.032.0	516	21108	37.082.0	523	304 MR UL	08.052.4	20	321 CL90	00.139.4	59
2010	37.023.0	515	21109	37.083.0	523	304 MS	08.033.4	18	321 CP	00.135.4	50
20157	37.038.0	516	21110	37.084.0	523	304 MS UL	08.053.4	21	321 CT	00.110.4	62
20158	37.031.0	516	21119	37.085.0	524	304 MV	08.034.4	19	321 CTT	00.004.4	62
20162	37.090.0	516	21120	37.086.0	524	304 MV UL	08.054.4	21	321 EE	00.016.3	170
20163	37.033.0	516	21121	37.087.0	524	305 LL	03.011.4	33	321 EE AS	00.066.3	172
20311	37.050.0	518	21122	37.088.0	524	305 MA	08.040.4	22	321 EE MIC 01	00.198.4	187
20313	37.051.0	518	21125	37.076.0	522	305 MA UL	08.055.4	24	321 EE MIC 02	00.260.4	187
20338	37.058.0	519	21126	37.077.0	522	305 MB	08.041.4	22	321 EE90 L	00.060.3	176
20340	37.060.0	519	21127	37.078.0	522	305 MB UL	08.056.4	25	321 EE90 S	00.006.3	176
20349	37.059.0	519	21128	37.079.0	522	305 MGG	08.221.4	28	321 EED	00.050.3	170
20350	37.061.0	519	21129	37.080.0	522	305 MGG UL	08.225.4	28	321 EFP	00.065.3	171
204 MA	08.104.4	17	21130	37.092.0	520	305 MGN	08.223.4	28	321 LL	00.050.4	64
204 MA UL	08.172.4	19	21131	37.063.0	520	305 MGN UL	08.227.4	28	321 LL90	00.053.4	58
204 MB	08.105.4	17	21132	37.094.0	520	305 MGR	08.220.4	28	321 MB	00.072.4	78
204 MB UL	08.130.4	20	21133	37.065.0	520	305 MGR UL	08.224.4	28	321 MB90	00.070.4	79
204 MGG	08.229.4	27	21134	37.066.0	520	305 MG	08.222.4	28	321 MBA	00.061.4	78
204 MGG UL	08.233.4	27	21135	37.049.0	518	305 MG UL	08.226.4	28	321 MBA90	00.041.4	79
204 MGN	08.231.4	27	21136	37.052.0	518	305 MR	08.042.4	23	321 MC	00.022.4	93
204 MGN UL	08.235.4	27	21137	37.055.0	518	305 MR UL	08.057.4	25	321 MCA	00.023.4	93
204 MGR	08.228.4	27	21138	37.053.0	518	305 MS	08.043.4	23	321 MCQ	00.010.4	107
204 MGR UL	08.232.4	27	21139	37.056.0	518	305 MS UL	08.058.4	26	321 MCS	00.015.4	107
204 MG	08.230.4	27	21140	37.054.0	518	305 MV	08.044.4	24	321 ME	00.015.3	168
204 MG UL	08.234.4	27	21141	37.057.0	518	305 MV UL	08.059.4	26	321 ME AS	00.033.3	169
204 MR	08.111.4	18	21142	37.067.0	520	314 MA	08.035.4	17	321 ME MIC 01	00.197.4	186
204 MR UL	08.196.4	20	21143	37.068.0	520	314 MA UL	08.060.4	19	321 ME MIC 02	00.259.4	186
204 MS	08.117.4	18	21144	37.069.0	520	314 MB	08.036.4	17	321 ME90 L	00.059.3	174
204 MS UL	08.160.4	21	21145	37.070.0	520	314 MB UL	08.061.4	20	321 ME90 S	00.005.3	174
204 MV	08.125.4	19	21146	37.071.0	520	314 MGG	08.245.4	27	321 MEA	00.010.3	168
204 MV UL	08.149.4	21	21148	37.072.0	521	314 MGG UL	08.249.4	27	321 ML90	00.052.4	57
20408	37.022.0	515	21149	37.075.0	521	314 MGN	08.247.4	27	321 MN	00.089.4	55
20432	37.043.0	517	21150	37.074.0	521	314 MGN UL	08.251.4	27	321 MNA	00.090.4	55
20433	37.046.0	517	21151	37.073.0	521	314 MGR	08.244.4	27	321 MP	00.077.4	49

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321 MPSA	00.080.4	51	353C EE	03.075.3	299	521 EE MIC 02	00.261.4	189	522 CC SUP	01.070.4	101
321 MR	00.082.4	52	353C EE AS	03.078.3	299	521 EE90 L	00.062.3	177	522 CCD	01.030.4	100
321 MRC	00.063.4	105	353P CC	03.036.4	297	521 EE90 S	00.009.3	177	522 CE	01.020.3	179
321 MRS	00.086.4	54	353P EE	03.077.3	299	521 EED	00.049.3	171	522 CFP	01.029.4	100
321 MRSA	00.087.4	54	353P EE AS	03.080.3	299	521 EFP	00.063.3	172	522 CL90	01.065.4	67
321 MRU	00.084.4	53	3550	37.017.0	514	521 LL	00.051.4	64	522 CT	01.042.4	71
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321 TT	00.068.4	61	382 EE	01.003.3	246	521 MB	00.073.4	78	522 EE	01.010.3	181
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322 2OR	01.011.4	102	382 ME	01.041.3	246	521 MC	00.027.4	93	522 EE MIC 01	01.100.4	189
322 ANDM	01.010.4	101	382 MRE	01.177.4	247	521 MCQ	00.011.4	107	522 EE MIC 02	01.181.4	189
322 CC	01.025.4	98	4010	37.025.0	515	521 MCS	00.016.4	108	522 EED	01.040.3	181
322 CC SUP	01.036.4	99	421 MLL	05.175.4	46	521 ME	00.013.3	169	522 EFP	01.045.3	182
322 CCD	01.024.4	99	431 LL	05.169.4	44	521 ME AS	00.034.3	170	522 LL	01.050.4	72
322 CE	01.029.3	178	431 MGG	05.143.4	41	521 ME MIC 01	00.188.4	188	522 LL90	01.057.4	66
322 CFP	01.021.4	99	431 MGN	05.145.4	41	521 ME MIC 02	00.236.4	188	522 MC	01.027.4	98
322 CL90	01.082.4	67	431 MGR	05.142.4	41	521 ME90 L	00.061.3	175	522 MC SUP	01.074.4	98
322 CT	01.041.4	70	431 MG	05.144.4	41	521 ME90 S	00.007.3	175	522 MCS	01.004.4	108
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322 EE	01.012.3	180	431 MP	05.136.4	38	521 MN	00.091.4	55	522 ME AS	01.019.3	180
322 EE AS	01.050.3	182	431 MR	05.138.4	39	521 MP	00.078.4	49	522 ME MIC 01	01.097.4	188
322 EE MIC 01	01.101.4	187	431 MR	05.138.4	39	521 MPS	00.081.4	51	522 ME MIC 02	01.111.4	188
322 EE MIC 02	01.180.4	187	431 MRL	05.140.4	40	521 MR	00.083.4	53	522 ML90	01.056.4	65
322 EED	01.039.3	180	431 MRU	05.220.4	45	521 MRC	00.003.4	105	522 MRC	01.176.4	106
322 EFP	01.049.3	181	431 MT	05.213.4	42	521 MRS	00.088.4	54	522 MT	01.068.4	69
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322 MC SUP	01.037.4	97	451 MC	05.230.4	85	521 TT	00.069.4	62	5223A EE	01.022.3	183
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322 ME	01.011.3	178	451 MGR	05.146.4	41	5213A EE AS	00.040.3	173	5223A EE MIC 01	01.109.4	190
322 ME AS	01.018.3	179	451 MG	05.148.4	41	5213A EE MIC 01	00.212.4	190	5223A EE MIC 02	01.183.4	190
322 ME MIC 01	01.098.4	186	451 MGV	05.148.4	41	5213A EE MIC 02	00.263.4	190	5223A LL90	01.060.4	68
322 ME MIC 02	01.179.4	186	451 MLL	05.219.4	47	5213A LL	00.200.4	74	5223A ML90	01.062.4	68
322 MEA	01.017.3	178	451 MP	05.137.4	38	5213A LL90	00.059.4	60	5223C CC	01.034.4	96
322 ML90	01.054.4	65	451 MR	05.139.4	39	5213A ML	00.151.4	74	5223C EE	01.021.3	183
322 MRC	01.064.4	106	451 MRL	05.141.4	40	5213A ML90	00.058.4	60	5223C EE AS	01.024.3	183
322 MT	01.066.4	69	451 MRU	05.221.4	45	5213C CC	00.031.4	96	5223C EE MIC 01	01.099.4	190
322 ORM	01.009.4	101	451 MT	05.215.4	42	5213C EE	00.036.3	173	5223C EE MIC 02	01.182.4	190
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324 CCD	02.005.4	111	451P CE	07.054.3	215	5213C EE MIC 02	00.262.4	190	5223P CC	01.073.4	96
324 CFP	02.003.4	111	451P EE	07.051.3	214	5213C LL90	00.057.4	60	5223P EE	01.023.3	183
324 EE	02.005.3	205	451P EE AS	07.053.3	215	5213C ML90	00.056.4	60	5223P EE AS	01.026.3	183
324 EE AS	02.006.3	205	451P ME	07.050.3	214	5213P CC	00.043.4	96	5223P EE MIC 01	01.110.4	190
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324 MC	02.001.4	111	5010	37.026.0	515	5213P EE AS	00.041.3	173	5223P ML90	01.063.4	68
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324 ME	02.001.3	204	504 MB CU	08.087.4	31	5213P EE MIC 02	00.264.4	190	522P EE AS	07.035.3	229
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324 MEA	02.002.3	204	504 MB UL	08.065.4	30	5213P ML90	00.042.4	60	522P ME AS	07.034.3	227
3510	37.010.0	513	505 MB	08.094.4	29	521P CE	07.005.3	227	522P3A EE	07.029.3	230
352 CC	03.033.4	297	505 MB UL	08.193.4	30	521P EE	07.002.3	228	522P3A EE AS	07.032.3	231
352 CCD	03.046.4	297	521 2P	00.036.4	50	521P EE AS	07.003.3	229	522P3C EE	07.028.3	230
352 CFP	03.047.4	297	521 2PS	00.019.4	52	521P EED	07.025.3	228	522P3C EE AS	07.031.3	231
352 EE	03.071.3	299	521 BB90	00.138.4	80	521P ME	07.001.3	226	522P3P EE	07.030.3	230
352 EE AS	03.074.3	299	521 CC	00.028.4	95	521P ME AS	07.004.3	227	522P3P EE AS	07.033.3	231
352 EFP	03.081.3	298	521 CCD	00.030.4	95	521P3A EE	07.007.3	230	524 CC	02.008.4	112
352 MC	03.032.4	297	521 CE	00.035.3	169	521P3A EE AS	07.010.3	231	524 CCD	02.009.4	112
352 ME	03.070.3	298	521 CFP	00.029.4	95	521P3C EE	07.006.3	230	524 CFP	02.007.4	112
352 ME AS	03.073.3	298	521 CL90	00.140.4	59	521P3C EE AS	07.009.3	231	524 EE	02.011.3	207
353A CC	03.035.4	297	521 CP	00.136.4	50	521P3P EE	07.008.3	230	524 EE AS	02.012.3	207
353A EE	03.076.3	299	521 CT	00.111.4	63	521P3P EE AS	07.011.3	231	524 EED	02.013.3	207
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5243P CC	02.012.4	112	751 ME 00	05.040.4	153	8513A EE 03	05.118.4	258	ARF90-100	32.0041.4	501
5243P EE	02.016.3	207	751 ME 01	05.041.4	153	8513A EE 04	05.119.4	258	ARF90-125	32.0049.4	501
5243P EE AS	02.019.3	207	751 ME 02	05.042.4	153	8513A EE AS 00	05.130.4	258	ARF90-32	32.0001.4	501
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582 EE	01.038.3	246	751 ME AS 01	05.046.4	154	8513A EE AS 04	05.134.4	258	ARF90-80	32.0033.4	501
582 MC	01.008.4	245	751 ME AS 02	05.047.4	154	8513C CC	05.150.4	253	ARM180-100	32.0046.4	501
582 ME	01.037.3	246	751 ME AS 03	05.048.4	154	8513C EE 00	05.110.4	258	ARM180-125	32.0054.4	501
582 MRE	01.083.3	247	751 ME AS 04	05.049.4	154	8513C EE 01	05.111.4	258	ARM180-32	32.0006.4	501
6010	37.027.0	515	7513A CC	05.153.4	91	8513C EE 02	05.112.4	258	ARM180-40	32.0014.4	501
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731 EFP 01	05.036.4	155	7513C EE AS 00	05.085.4	158	951 ME AS 01	05.184.4	269	ARM360-80	32.0040.4	501
731 EFP 02	05.037.4	155	7513C EE AS 01	05.086.4	158	951 ME AS 02	05.185.4	269	ARM90-100	32.0045.4	501
731 EFP 03	05.038.4	155	7513C EE AS 02	05.087.4	158	9513A CC	05.201.4	267	ARM90-125	32.0053.4	501
731 EFP 04	05.039.4	155	7513C EE AS 03	05.088.4	158	9513A EE 01	05.197.4	271	ARM90-32	32.0005.4	501
731 MC	05.001.4	87	7513C EE AS 04	05.089.4	158	9513A EE 02	05.198.4	271	ARM90-40	32.0013.4	501
731 MCA	05.071.4	87	8010	37.028.0	515	9513A EE AS 01	05.209.4	271	ARM90-50	32.0021.4	501
731 ME 00	05.010.4	153	851 CC	05.078.4	251	9513A EE AS 02	05.210.4	271	ARM90-63	32.0029.4	501
731 ME 01	05.011.4	153	851 CCD	05.079.4	252	9513C CC	05.196.4	267	ARM90-80	32.0037.4	501
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731 ME 03	05.013.4	153	851 EE 00	05.080.4	257	9513C EE 02	05.193.4	271	AVP 3-00	16.030.4	609
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SGM200PV	21.138.2	419	T13M5...		398	UB032C500	27.134.2	451		00.047.4	367
SGM200V	21.128.2	419	T21M2...		398	UB040C050	27.135.2	451		00.048.2	279
SGT032	26.192.2N	403	T21M3...		398	UB040C100	27.136.2	451		00.049.2	279
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SGT032AV	26.433.2	403	T21M5...		398	UB040C200	27.138.2	451		00.051.2	184
SGT032V	26.360.2N	403	T22M2...		398	UB040C250	27.139.2	451		00.051.3	140
SGT040	26.193.2N	403	T22M3...		398	UB040C300	27.140.2	451		00.052.2	197
SGT040A	26.431.2	403	T22M4...		398	UB040C400	27.141.2	451		00.052.3	142
SGT040AV	26.434.2	403	T22M5...		398	UB040C500	27.142.2	451		00.053.2	197
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SGT050A	26.432.2	403	T23M4...		398	UB050C150	27.145.2	451		00.054.3	142
SGT050AV	26.435.2	403	T23M5...		398	UB050C200	27.146.2	451		00.055.2	197
SGT050V	26.362.2N	403	TA1	00.073.2	285	UB050C250	27.147.2	451		00.055.3	142
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SH2-P	SH2/P	533	TB1	00.082.2	286	UB050C400	27.149.2	451		00.056.3	142
SL1	00.267.1	283	TB2	02.003.2	295	UB050C500	27.150.2	451		00.057.2	197
SL2	02.038.1	293	TC1	00.077.2	286	UB063C050	27.151.2	451		00.058.2	197
SL3	03.082.1	300	TD751	05.023.2	161	UB063C100	27.152.2	451		00.059.2	197
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SLB2	02.039.1	293	TL1	00.083.2	285	UB063C200	27.154.2	451		00.064.2	198
SN12D16	26.019.0	443	TL2	02.004.2	294	UB063C250	27.155.2	451		00.064.3	141
SN25D32	26.021.0	443	TP1	00.068.2	285	UB063C300	27.156.2	451		00.067.2	201
SN50D63	26.023.0	443	TPC1	00.084.2	286	UB063C400	27.180.2	451		00.071.3	140
SN80D100	26.024.0	443	TRP 8	03.016.4	338	UB063C500	27.181.2	451		00.072.3	142
SND125	26.045.0	443	TS12T16	26.011.0	442	UB080C050	27.182.2	451		00.073.3	142
SND20	26.020.0	443	TS12T16X	26.051.0	442	UB080C100	27.183.2	451		00.074.3	142
SND40	26.022.0	443	TS160T200	26.018.0	442	UB080C150	27.184.2	451		00.074.4	362
SNINT032B	26.094.2N	432	TS160T200X	26.049.0	442	UB080C200	27.185.2	451		00.075.3	142
SNINT040-050B	26.095.2N	432	TS25T32	26.013.0	442	UB080C250	27.186.2	451		00.076.3	142
SNINT063-080B	26.097.2N	432	TS25T32X	26.053.0	442	UB080C300	27.187.2	451		00.077.3	142
SNINT100-125B	26.099.2N	432	TS50T63	26.015.0	442	UB080C400	27.188.2	451		00.078.3	142
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SS1/E-RC	08.543.0	83	TST125	26.017.0	442	UB100C400	27.196.2	451		00.088.0	149
SSC/CD-V	08.537.0	82	TST125X	26.048.0	442	UB100C500	27.197.2	451		00.088.3	140
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SSC/E-V	08.539.0	82	TST20X	26.052.0	442	VNR 1/4 MF	11.047.4	315		00.094.3	144
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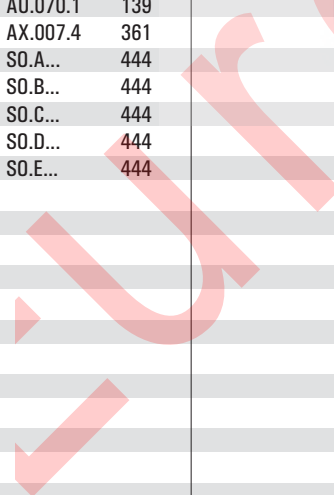
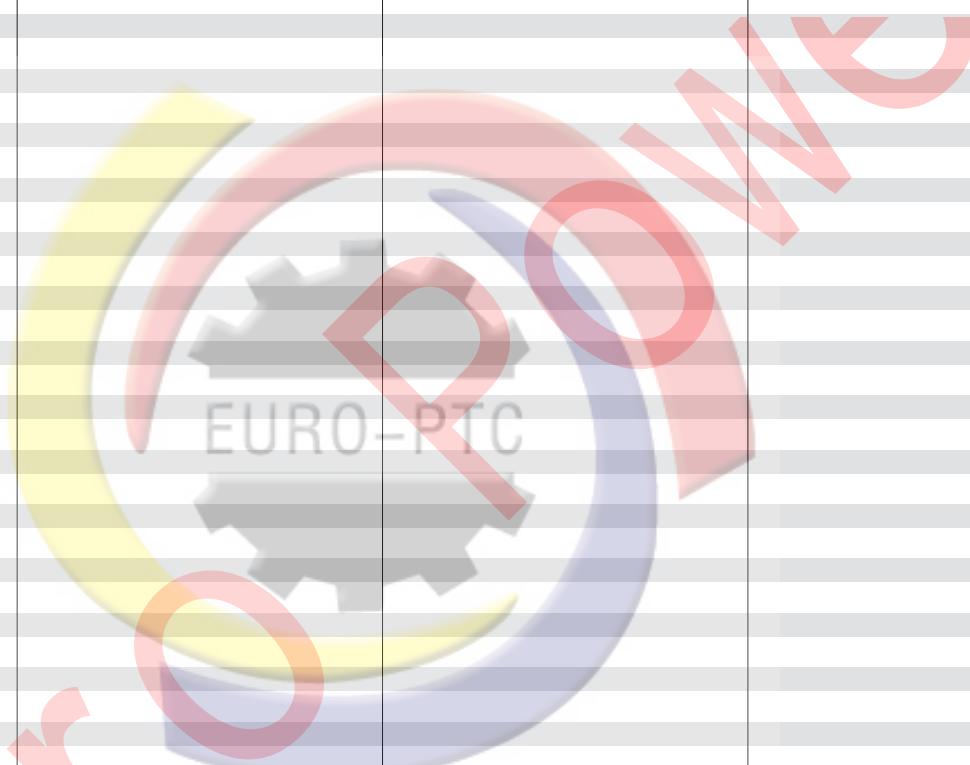
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305 MG	08.222.4	28	PED 504 SA	08.325.4N	130	VNR 1/4 FF	11.001.4	315	FR 2-08-25-S	16.004.3	582
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305 MG UL	08.226.4	28	PEDS 504 SA	08.329.4N	131		11.005.4	315		16.006.2	635
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205 MGN	08.239.4	28	PFB2/60	08.536.0	82		11.027.4	314	MREG 2-08	16.011.4	558
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314 MGN	08.247.4	27	SSP1/CD	08.553.0	83		11.036.4	315	FIL 2-05-S	16.016.3	544
314 MGR UL	08.248.4	27	SSP1/E	08.554.0	83		11.037.4	315	MREG 2-04	16.016.4	558
314 MGG UL	08.249.4	27	SSP1/CD/R	08.555.0	83	RSW 3/8	11.039.4	309	FIL 3-05-S	16.017.3	546
314 MG UL	08.250.4	27	SSP1/E-RC	08.556.0	83		11.040.4	315	KIT 4-00	16.018.0	630
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315 MG	08.254.4	28	AVP 2-00	10.004.3	606		11.046.4	314	SCR 4-E	16.019.3	610
315 MGN	08.255.4	28		10.009.4	359	VNR 1/4 MF	11.047.4	315	PR 4-00	16.020.0	629
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315 MGN UL	08.259.4	28		10.016.4	312		11.055.4	314	FR 4-08-05-S	16.022.3	586
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CFIL 2-S	16.056.3	554		16.193.0	633	KSM050V	21.023.3	421	DSIS040X	21.758.0	441
CFIL 3-S	16.057.3	554		16.194.0	633	KSM063V	21.024.3	421	DSIS05063X	21.759.0	441
CFIL 4-S	16.059.3	554	STF 4N	16.196.0	655	KSM080V	21.025.3	421	DSIS080100X	21.760.0	441
FR+L 6N-10-30-S	16.060.4	596	KIT 4N-00	16.201.0	630	KSM100V	21.026.3	421	DSIS125X	21.761.0	441
	16.061.0	632	PAI 4N-00	16.202.0	655	KSM125V	21.027.3	421	DSIS160200X	21.762.0	441
FRL 6N-10-30-S	16.061.4	604	SR-M4N	16.203.0	654	KSM160V	21.028.3	421	GD016	22.100.2	486
	16.062.0	632	M40-00	17.001.0	639	KSM200V	21.029.3	421	GD020	22.101.2	486
	16.063.0	632	M50-00	17.002.0	639	KSM032PV	21.031.3	421	GD025	22.102.2	486
	16.064.0	632	M63-00	17.003.0	639	KSM040PV	21.032.3	421	GD032	22.103.2	486
	16.065.0	632		17.004.0	334	KSM050PV	21.033.3	421	GD040	22.104.2	486
	16.066.0	632		17.005.0	334	KSM063PV	21.034.3	421	GD050	22.105.2	486
	16.067.0	632		17.006.0	336	KSM080PV	21.035.3	421	GD063	22.106.2	486
	16.068.0	632		17.007.0	334	KSM100PV	21.036.3	421	GD080	22.107.2	486
	16.069.0	632		17.008.0	334	KSM125PV	21.037.3	421	GD100	22.108.2	486
FIL 4N-30-S	16.070.3	642		17.009.0	337	KSM160PV	21.038.3	421	GD016P	22.110.2	486
	16.070.4	560		17.010.0	337	KSM200PV	21.039.3	421	GD020P	22.111.2	486
LUB 4N-00	16.071.3	646		17.011.0	335	SGM032	21.100.2	419	GD025P	22.112.2	486
	16.071.4	560		17.012.0	335	SGM040	21.101.2	419	GD032P	22.113.2	486
FR 4N-08-30-S	16.072.3	648		17.060.0	406	SGM050	21.102.2	419	GD040P	22.114.2	486
FIL 4N-30-A	16.073.3	642		17.061.0	406	SGM063	21.103.2	419	GD050P	22.115.2	486
FR 4N-08-05-S	16.074.3	648		17.062.0	406	SGM080	21.104.2	419	GD063P	22.116.2	486
FIL 4N-05-S	16.078.3	642		17.066.0	406	SGM100	21.105.2	419	GD080P	22.117.2	486
REG 4N-08	16.079.3	644		17.067.0	406	SGM125	21.106.2	419	GD100P	22.118.2	486
	16.082.4	557		17.068.0	406	SGM160	21.107.2	419	GD016V	22.120.2	486
FR+L 4N-08-30-S	16.084.4	650		17.069.0	406	SGM200	21.108.2	419	GD020V	22.121.2	486
FRL 4N-08-30-S	16.085.4	652	AZ-CRS1	18.001.0	339	SGM032P	21.110.2	419	GD025V	22.122.2	486
	16.098.0	632	AZ-CRS2	18.002.0	339	SGM040P	21.111.2	419	GD032V	22.123.2	486
PR 2-00	16.100.0	629	AZ-CRS3	18.003.0	339	SGM050P	21.112.2	419	GD040V	22.124.2	486
	16.104.0	632	AZ-CRS4	18.004.0	339	SGM063P	21.113.2	419	GD050V	22.125.2	486
	16.105.0	632		20.100.4	385	SGM080P	21.114.2	419	GD063V	22.126.2	486
	16.109.0	632		20.101.4	385	SGM100P	21.115.2	419	GD080V	22.127.2	486
FIL 6N-30-S	16.115.0	550		20.102.4	385	SGM125P	21.116.2	419	GD100V	22.128.2	486
FIL 6N-30-A	16.116.0	550		20.103.4	385	SGM160P	21.117.2	419	GD016PV	22.130.2	486
FIL 6N-05-S	16.117.0	550		20.104.4	385	SGM200P	21.118.2	419	GD020PV	22.131.2	486
REG 6N-10	16.118.0	570		20.105.4	385	SGM032V	21.120.2	419	GD025PV	22.132.2	486
LUB 6N-00	16.119.0	580		20.106.4	385	SGM040V	21.121.2	419	GD032PV	22.133.2	486
FR 6N-10-30-S	16.120.0	588		20.107.4	385	SGM050V	21.122.2	419	GD040PV	22.134.2	486
FR 6N-10-05-S	16.121.0	588		20.108.4	385	SGM063V	21.123.2	419	GD050PV	22.135.2	486
KIT 6N-00	16.122.0	630		20.109.4	385	SGM080V	21.124.2	419	GD063PV	22.136.2	486
STF 6N	16.123.0	638		20.110.4	385	SGM100V	21.125.2	419	GD080PV	22.137.2	486
STF 6NA	16.124.0	638		20.111.4	385	SGM125V	21.126.2	419	GD100PV	22.138.2	486
STF 6NB	16.125.0	638		20.112.4	385	SGM160V	21.127.2	419	KP032	25.004.3	470
	16.137.0	632		20.113.4	385	SGM200V	21.128.2	419	KP040	25.005.3	470
	16.140.0	632		20.114.4	385	SGM032PV	21.130.2	419	KP050	25.006.3	470
	16.144.0	632		20.115.4	385		21.130.4	381	KP063	25.007.3	470
	16.145.0	632		20.116.4	385	SGM040PV	21.131.2	419	KP080	25.008.3	470
	16.146.0	632		20.117.4	385	SGM050PV	21.132.2	419	KP100	25.009.3	470
AVP 6N-01	16.148.0	614	KSM032	21.001.3	421	SGM063PV	21.133.2	419	KP032P	25.014.3	470
SR-M6N	16.149.0	619	KSM040	21.002.3	421	SGM080PV	21.134.2	419	KP040P	25.015.3	470
PAI 6N-00	16.150.0	627	KSM050	21.003.3	421	SGM100PV	21.135.2	419	KP050P	25.016.3	470
REGP 6H10	16.151.0	572	KSM063	21.004.3	421	SGM125PV	21.136.2	419	KP063P	25.017.3	470
RPE 6N VNC	16.152.0	623	KSM080	21.005.3	421	SGM160PV	21.137.2	419	KP080P	25.018.3	470
CFIL 6N-S	16.155.0	554	KSM100	21.006.3	421	SGM200PV	21.138.2	419	KP100P	25.019.3	470
MFIL 6N-S	16.156.0	552	KSM125	21.007.3	421		21.190.2	420	KP032V	25.024.3	470
	16.171.0	632	KSM160	21.008.3	421		21.191.2	420	KP040V	25.025.3	470
	16.172.0	628	KSM200	21.009.3	421		21.192.2	420	KP050V	25.026.3	470
RPE 2V NA	16.175.0	621	KSM032P	21.011.3	421		21.193.2	420	KP063V	25.027.3	470
	16.176.0	621	KSM040P	21.012.3	421		21.194.2	420	KP080V	25.028.3	470
	16.177.0	621	KSM050P	21.013.3	421		21.195.2	420	KP100V	25.029.3	470
	16.183.0	633	KSM063P	21.014.3	421		21.196.2	420	KP032PV	25.034.3	470
	16.184.0	633	KSM080P	21.015.3	421	DSIS032	21.750.0	441	KP040PV	25.035.3	470
	16.187.0	632	KSM100P	21.016.3	421	DSIS040	21.751.0	441	KP050PV	25.036.3	470
	16.188.0	632	KSM125P	21.017.3	421	DSIS05063	21.752.0	441	KP063PV	25.037.3	470
	16.189.0	633	KSM160P	21.018.3	421	DSIS080100	21.753.0	441	KP080PV	25.038.3	470
	16.190.0	633	KSM200P	21.019.3	421	DSIS125	21.754.0	441	KP100PV	25.039.3	470
	16.191.0	633	KSM032V	21.021.3	421	DSIS160200	21.755.0	441		25.082.2	469

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	25.084.2	469	CFKS032	26.010.2N	428	COIS063	26.055.2N	435	GPM12-16	26.141.2	393
	25.085.2	469	TS12T16	26.011.0	442	COIS080	26.056.2N	435	GPM20-25	26.142.2	393
	25.086.2	469	CFKS040	26.011.2N	428	COIS100	26.057.2N	435		26.145.0	537
	25.087.2	469	TST20	26.012.0	442	FLIS032	26.070.2N	429		26.147.0	536
	25.088.2	469	CFKS050	26.012.2N	428	FLIS040	26.071.2N	429	DCCB 16/32 (M5)	26.156.0T	487
	25.089.2	469	TS25T32	26.013.0	442	FLIS050	26.072.2N	429	DCCB 32/100 (M6)	26.157.0T	487
	25.090.2	469	CFKS063	26.013.2N	428	FLIS063	26.073.2N	429		26.164.0	534
	25.091.2	469	TST40	26.014.0	442	FLIS080	26.074.2N	429		26.165.0	534
	25.092.2	469	CFKS080	26.014.2N	428	FLIS100	26.075.2N	429		26.166.0	534
GPO32	25.103.2	460	TS50T63	26.015.0	442	FLIS125	26.076.2N	429		26.167.0	534
GPO40	25.104.2	460	CFKS100	26.015.2N	428	FLIS160	26.077.2N	429	SGT032	26.192.2N	403
KRO32	25.104.3	470	TS80T100	26.016.0	442	FLIS200	26.078.2N	429	SGT040	26.193.2N	403
GPO50	25.105.2	460	CFKS125	26.016.2N	428	CMSS032	26.079.2N	426		26.194.0	537
KRO40	25.105.3	470	TST125	26.017.0	442	CMSS040	26.080.2N	426	SGT050	26.194.2N	403
GPO63	25.106.2	460	CFKS160	26.017.2N	428	CMSS050	26.081.2N	426		26.195.0	537
KRO50	25.106.3	470	TS160T200	26.018.0	442	CMSS063	26.082.2N	426		26.196.0	537
GPO80	25.107.2	460	CFKS200	26.018.2N	428	CMSS080	26.083.2N	426	DSMC8-10	26.196.2	441
KRO63	25.107.3	470	SN12D16	26.019.0	443	CMSS100	26.084.2N	426	DSMC12-16	26.197.2	441
GP100	25.108.2	460	CMIS032	26.019.2N	427	CMSS125	26.085.2N	426	DSMC20	26.198.2	441
KRO80	25.108.3	470	SND20	26.020.0	443	CMSS160	26.086.2N	426		26.219.2	536
KR100	25.109.3	470	CMIS040	26.020.2N	427	CMSS200	26.087.2N	426		26.229.0	536
GPO32P	25.113.2	460	SN25D32	26.021.0	443	CIN032	26.088.2N	431		26.230.0	536
GPO40P	25.114.2	460	CMIS050	26.021.2N	427	CIN040	26.089.2N	431		26.231.0	536
KRO32P	25.114.3	470	SND40	26.022.0	443	CIN050	26.090.2N	431		26.232.0	536
GPO50P	25.115.2	460	CMIS063	26.022.2N	427	CIN063	26.091.2N	431	COVDMA32	26.282.2N	436
KRO40P	25.115.3	470	SN50D63	26.023.0	443	CIN080	26.092.2N	431	COVDMA40	26.283.2N	436
GPO63P	25.116.2	460	CMIS080	26.023.2N	427	CIN100	26.093.2N	431	COVDMA50	26.284.2N	436
KRO50P	25.116.3	470	SN80D100	26.024.0	443	SNINT032B	26.094.2N	432	COVDMA63	26.285.2N	436
GPO80P	25.117.2	460	CMIS100	26.024.2N	427	SNINT040-050B	26.095.2N	432	COVDMA80	26.286.2N	436
KRO63P	25.117.3	470	CMIS125	26.025.2N	427	SNINT063-080B	26.097.2N	432	COVDMA100	26.287.2N	436
GP100P	25.118.2	460	CMIS160	26.026.2N	427	SNINT100-125B	26.099.2N	432	COVDMA125	26.288.2N	436
KRO80P	25.118.3	470	CMIS200	26.027.2N	427	CIN125	26.100.2N	431	COVDMA160	26.289.2N	436
KR100P	25.119.3	470	CMKS032	26.028.2N	427	PDMC08-10	26.101.2N	394	COVDMA200	26.290.2N	436
GPO32V	25.123.2	460	CMKS040	26.029.2N	427	PDMC12-16	26.102.2N	394	COIS125	26.320.2N	435
GPO40V	25.124.2	460	CMKS050	26.030.2N	427	PDMC20-25	26.103.2N	394	COIS160	26.322.2N	435
KRO32V	25.124.3	470	CMKS063	26.031.2N	427	FLMC08-10	26.104.2N	395	CSIS160TI	26.325.2N	433
GPO50V	25.125.2	460	CMKS080	26.032.2N	427	FLMC12-16	26.105.2N	395	CSIS200TI	26.326.2N	433
KRO40V	25.125.3	470	CMKS100	26.033.2N	427	FLMC20-25	26.106.2N	395		26.327.2N	434
GPO63V	25.126.2	460	CMKS125	26.034.2N	427	CCMC08-10	26.107.2N	396		26.328.2N	434
KRO50V	25.126.3	470	CMKS160	26.035.2N	427	CCMC12-16	26.108.2N	396	COIS200	26.329.2N	435
GPO80V	25.127.2	460	CMKS200	26.036.2N	427	CCMC20-25	26.109.2N	396	CFSIS032	26.330.2N	437
KRO63V	25.127.3	470	PBIS032	26.037.2N	430	FPT032	26.110.2	405	CFSIS040	26.331.2N	437
GP100V	25.128.2	460	PBIS040	26.038.2N	430	FPT040	26.111.2	405	CFSIS050	26.332.2N	437
KRO80V	25.128.3	470		26.039.0	536	FPT050	26.112.2	405	CFSIS063	26.333.2N	437
KR100V	25.129.3	470	PBIS050	26.039.2N	430	GPT032	26.113.2	404	CFSIS080	26.334.2N	437
GPO32PV	25.133.2	460		26.040.0	536	GPT040	26.114.2	404	CFSIS100	26.335.2N	437
GPO40PV	25.134.2	460	PBIS063	26.040.2N	430	GPT050	26.115.2	404	CFSIS125	26.336.2N	437
KRO32PV	25.134.3	470		26.041.0	536	CCR032	26.116.2	404	CFSIS160	26.337.2N	437
GPO50PV	25.135.2	460	PBIS080	26.041.2N	430	CCR040	26.117.2	404	CFSIS200	26.338.2N	437
KRO40PV	25.135.3	470		26.042.0	536	CCR050	26.118.2	404	SGT032V	26.360.2N	403
GPO63PV	25.136.2	460	PBIS100	26.042.2N	430		26.119.0	441	SGT040V	26.361.2N	403
KRO50PV	25.136.3	470	PBIS125	26.043.2N	430	FR8C10	26.119.2	440	SGT050V	26.362.2N	403
GPO80PV	25.137.2	460	PBIS160	26.044.2N	430		26.120.0	441	SGT032A	26.430.2	403
KRO63PV	25.137.3	470	SND125	26.045.0	443	FR12C16	26.120.2	440	SGT040A	26.431.2	403
GP100PV	25.138.2	460	PBIS200	26.045.2N	430		26.121.0	441	SGT050A	26.432.2	403
KRO80PV	25.138.3	470	TST40X	26.046.0	442	FRC20	26.121.2	440	SGT032AV	26.433.2	403
KR100PV	25.139.3	470	TS80T100X	26.047.0	442		26.122.0	441	SGT040AV	26.434.2	403
CFIS032	26.001.2N	428	TST125X	26.048.0	442	FR25C32	26.122.2	440	SGT050AV	26.435.2	403
CFIS040	26.002.2N	428	TS160T200X	26.049.0	442		26.123.0	441	CFUN032	26.501.2	474
CFIS050	26.003.2N	428	TS8T10X	26.050.0	442	FRC40	26.123.2	440	CFUN040	26.502.2	474
CFIS063	26.004.2N	428	TS12T16X	26.051.0	442		26.124.0	441	CFUN050	26.503.2	474
CFIS080	26.005.2N	428	TST20X	26.052.0	442	FR50C63	26.124.2	440	CFUN063	26.504.2	474
CFIS100	26.006.2N	428	COIS032	26.052.2N	435		26.125.0	441	CFUN080	26.505.2	474
CFIS125	26.007.2N	428	TS25T32X	26.053.0	442	FR80C100	26.125.2	440	CFUN100	26.506.2	474
CFIS160	26.008.2N	428	COIS040	26.053.2N	435	FRC125	26.126.2	440	CFKN032	26.510.2	474
CFIS200	26.009.2N	428	TS50T63X	26.054.0	442	FR160C200	26.127.2	440	CFKN040	26.511.2	474

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CFKN063	26.513.2	474	HS100C150	27.053.0	453	UB020C100	27.123.2	450	HS025C050	27.203.0	452
CFKN080	26.514.2	474	HS100C200	27.054.0	453	UB020C160	27.124.2	450	HS025C100	27.204.0	452
CFKN100	26.515.2	474	HS100C250	27.055.0	453	UB020C200	27.125.2	450	HS025C160	27.205.0	452
PBUN032	26.537.2	476	HS100C300	27.056.0	453	UB020C250	27.126.2	450	HS025C200	27.206.0	452
PBUN040	26.538.2	476	HS100C400	27.057.0	453	UB032C050	27.127.2	451	HS025C250	27.207.0	452
PBUN050	26.539.2	476	HS100C500	27.058.0	453	UB032C100	27.128.2	451	HB025C050	27.208.2	452
PBUN063	26.540.2	476	HB012C050	27.059.2	452	UB032C150	27.129.2	451	HB025C100	27.209.2	452
PBUN080	26.541.2	476	HB012C100	27.060.2	452	UB032C200	27.130.2	451	HB025C160	27.210.2	452
PBUN100	26.542.2	476	HB012C160	27.061.2	452	UB032C250	27.131.2	451	HB025C200	27.211.2	452
FLUN032	26.570.2	475	HB012C200	27.062.2	452	UB032C300	27.132.2	451	HB025C250	27.212.2	452
FLUN040	26.571.2	475	HB012C250	27.063.2	452	UB032C400	27.133.2	451	HB080C050	27.230.2	453
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FLUN063	26.573.2	475	HB020C100	27.065.2	452	UB040C050	27.135.2	451	HB080C150	27.232.2	453
FLUN080	26.574.2	475	HB020C160	27.066.2	452	UB040C100	27.136.2	451	KHB 020	27.250.0	454
FLUN100	26.575.2	475	HB020C200	27.067.2	452	UB040C150	27.137.2	451	KHB 025	27.251.0	454
HS012C050	27.001.0	452	HB020C250	27.068.2	452	UB040C200	27.138.2	451	KHB 032	27.252.0	454
HS012C100	27.002.0	452	HB032C050	27.069.2	453	UB040C250	27.139.2	451	KHB 040	27.253.0	454
HS012C160	27.003.0	452	HB032C100	27.070.2	453	UB040C300	27.140.2	451	KHB 050	27.254.0	454
HS012C200	27.004.0	452	HB032C150	27.071.2	453	UB040C400	27.141.2	451	KHB 063	27.255.0	454
HS012C250	27.005.0	452	HB032C200	27.072.2	453	UB040C500	27.142.2	451	KHB 080	27.256.0	454
HS020C050	27.006.0	452	HB032C250	27.073.2	453	UB050C050	27.143.2	451	KHB 100	27.257.0	454
HS020C100	27.007.0	452	HB032C300	27.074.2	453	UB050C100	27.144.2	451	KHB 012/016	27.259.0	454
HS020C160	27.008.0	452	HB032C400	27.075.2	453	UB050C150	27.145.2	451	KHS 012/016	27.260.0	454
HS020C200	27.009.0	452	HB032C500	27.076.2	453	UB050C200	27.146.2	451	KHS 020	27.261.0	454
HS020C250	27.010.0	452	HB040C050	27.077.2	453	UB050C250	27.147.2	451	KHS 032	27.262.0	454
HS032C050	27.011.0	453	HB040C100	27.078.2	453	UB050C300	27.148.2	451	KHS 040	27.263.0	454
HS032C100	27.012.0	453	HB040C150	27.079.2	453	UB050C400	27.149.2	451	KHS 050	27.264.0	454
HS032C150	27.013.0	453	HB040C200	27.080.2	453	UB050C500	27.150.2	451	KHS 063	27.265.0	454
HS032C200	27.014.0	453	HB040C250	27.081.2	453	UB063C050	27.151.2	451	KHS 080	27.266.0	454
HS032C250	27.015.0	453	HB040C300	27.082.2	453	UB063C100	27.152.2	451	KHS 100	27.267.0	454
HS032C300	27.016.0	453	HB040C400	27.083.2	453	UB063C150	27.153.2	451	KHS 025	27.268.0	454
HS032C400	27.017.0	453	HB040C500	27.084.2	453	UB063C200	27.154.2	451	KUB 012/016	27.271.0	454
HS032C500	27.018.0	453	HB050C050	27.085.2	453	UB063C250	27.155.2	451	KUB 020	27.272.0	454
HS040C050	27.019.0	453	HB050C100	27.086.2	453	UB063C300	27.156.2	451	KUB 025	27.273.0	454
HS040C100	27.020.0	453	HB050C150	27.087.2	453	BM012	27.157.0	446	KUB 032	27.274.0	454
HS040C150	27.021.0	453	HB050C200	27.088.2	453	BM020	27.158.0	446	KUB 040	27.275.0	454
HS040C200	27.022.0	453	HB050C250	27.089.2	453	BM025	27.159.0	446	KUB 050	27.278.0	454
HS040C250	27.023.0	453	HB050C300	27.090.2	453	BM032	27.160.0	446	KUB 063	27.279.0	454
HS040C300	27.024.0	453	HB050C400	27.091.2	453	BM040	27.161.0	446	KUB 080	27.280.0	454
HS040C400	27.025.0	453	HB050C500	27.092.2	453	BM050	27.162.0	446	KUB 100	27.281.0	454
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HS050C050	27.027.0	453	HB063C100	27.094.2	453	BM080	27.164.0	446	CGB16-020	30.0002.4	497
HS050C100	27.028.0	453	HB063C150	27.095.2	453	BM100	27.165.0	446	CGB16-030	30.0003.4	497
HS050C150	27.029.0	453	HB063C200	27.096.2	453	BM125	27.166.0	446	CGB16-040	30.0004.4	497
HS050C200	27.030.0	453	HB063C250	27.097.2	453	UB063C400	27.180.2	451	CGB16-050	30.0005.4	497
HS050C250	27.031.0	453	HB063C300	27.098.2	453	UB063C500	27.181.2	451	CGB16-075	30.0006.4	497
HS050C300	27.032.0	453	HB063C400	27.099.2	453	UB080C050	27.182.2	451	CGB16-100	30.0007.4	497
HS050C400	27.033.0	453	HB063C500	27.100.2	453	UB080C100	27.183.2	451	CGBB16-010	30.0051.4	497
HS050C500	27.034.0	453	HB080C200	27.104.2	453	UB080C150	27.184.2	451	CGBB16-020	30.0052.4	497
HS063C050	27.035.0	453	HB080C250	27.105.2	453	UB080C200	27.185.2	451	CGBB16-030	30.0053.4	497
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HS080C500	27.050.0	453	UB012C200	27.120.2	450	UB025C160	27.200.2	450	CGBB20-020	30.0151.4	497
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CGB40-100	30.0404.4	497	ARM270-50	32.0023.4	501	20158	37.031.0	516		37.DJ.xxxxx	510
CGB40-125	30.0405.4	497	ARM360-50	32.0024.4	501	20028	37.032.0	516	OPL50-00000-xxxxx	37.EA.xxxxx	509
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CGBB40-200	30.0458.4	497	ARF270-80	32.0035.4	501	20006	37.044.0	517		AU.002.1	330
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AZ-SEP4	AU.076.0	333	E23M4...		409	N21M4...		409	R13M3...		456
	AX.007.4	361	J11M2...		491	N22B2...		409	R13M4...		456
RS1-A	RS1/A	532	J11M4...		491	N22B4...		409	R21M1...		456
RS1-A 5MT	RS1/A 5MT	532	J11M9...		491	N22M2...		409	R21M2...		456
RS2-A	RS2/A	532	M21A1...		387	N22M4...		409	R21M3...		456
RS3-A	RS3/A	532	M21A2...		387	N23B2...		409	R21M4...		456
RS4-A	RS4/A	532	M21A3...		387	N23B4...		409	R22M1...		456
RS5-C	RS5/C	532	M21A4...		387	N23M2...		409	R22M2...		456
RS6-3F	RS6/3F	533	M21A5...		387	N23M4...		409	R22M3...		456
RS7-3F	RS7/3F	533	M21A6...		387	P11M1...		456	R22M4...		456
SH1-P	SH1/P	533	M21B1...		387	P11M2...		456	R23M1...		456
SH2-P	SH2/P	533	M21B2...		387	P11M3...		456	R23M2...		456
	SO.A...	444	M21B3...		387	P11M4...		456	R23M3...		456
	SO.B...	444	M21B4...		387	P12M1...		456	R23M4...		456
	SO.C...	444	M21B5...		387	P12M2...		456	R31M1...		456
	SO.D...	444	M21B6...		387	P12M3...		456	R31M2...		456

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