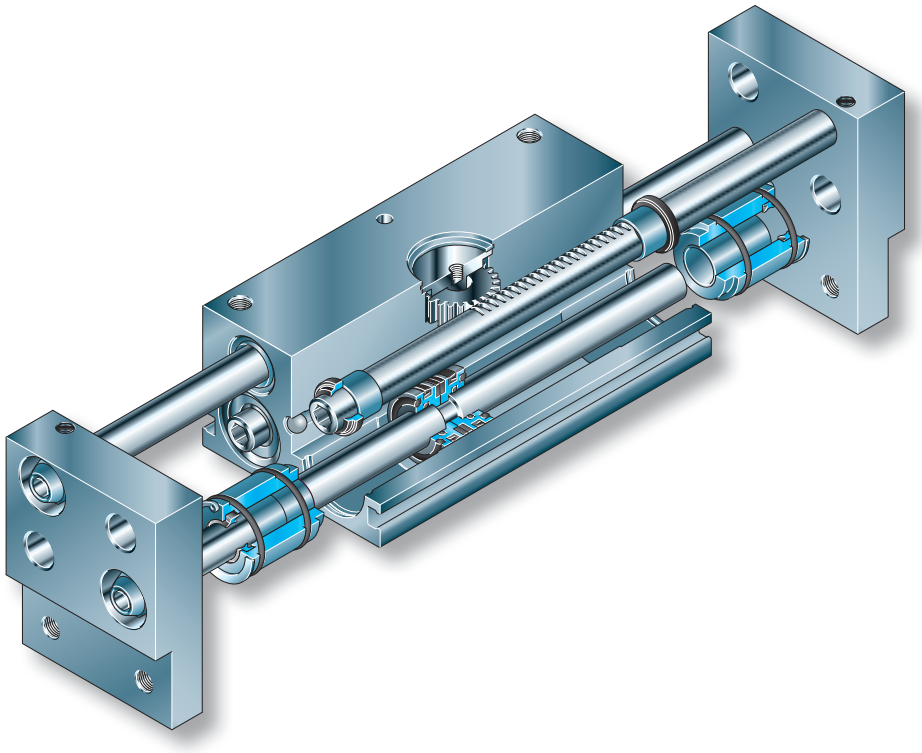
PINZE PARALLELE A GRANDE APERTURA - *WIDE PARALLEL OPENING GRIPPERS*

CARATTERISTICHE TECNICHE E STANDARD QUALITATIVI - *OPERATING FEATURES AND QUALITATIVE STANDARDS*

Le pinze parallele a grande apertura sono degli attuatori a doppio effetto che per mezzo di un meccanismo pignone cremagliera muovono in modo sincronizzato le piastre di estremità per afferrare e conseguentemente movimentare un carico. Le piastre di estremità possono essere agevolmente smontate per fissare le attrezzature di presa per mezzo di appositi fori e riferimenti senza comprometterne il funzionamento. Dotate di smorzatori d'urto meccanici di fine corsa e predisposte per l'utilizzo di finecorsa magnetici sono inoltre dotate di raschiatori sulle cremagliere che ne incrementano la durata in ambienti polverosi.

Wide parallel opening grippers are double acting actuators which working principle is a double pinion-rack mechanism in order to get a sincronized movement of the plates to grasp and move a load.
End Plates can be easily disassembled in order to fix grasping devices by means of threaded holes mechanical stopper without compromizing its working . On standard they have mechanical dumpers at the end of the stroke, ready to be used with magnetic switches; moreover they have wipers on the racks to allow a safe use even in the dusty environments.



Informazioni tecniche - *Technical informations*

Fluido: aria filtrata 40 µm lubrificata o non lubrificata (se lubrificata usare olio per circuiti pneumatici).
Fluid: filtered air 40 µm lubricated or not lubricated (when lubricated use oil for pneumatic circuits).

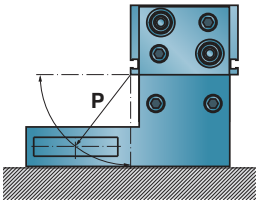
Temperatura di esercizio - *Working temperature:* **-10 ÷ +80 °C**

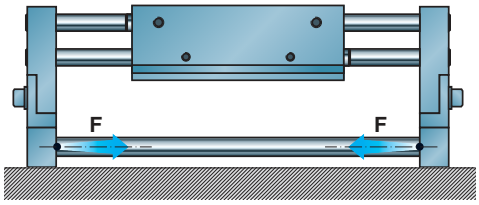
Pressione di esercizio - *Working pressure:* **2 ÷ 7 bar (0,2 ÷ 0,7 MPa)**

Materiali standard - *Standard material*

Corpo: ..... **lega alluminio anodizzato**	*Body:* ..... *anodized aluminium alloy*
Piastre di presa: ..... **lega alluminio anodizzato**	*Finger:* ..... *anodized aluminium alloy*
Stelo: ..... **acciaio C45 cromato**	*Piston rod:* ..... *cromium plated C45 steel*
Cremagliera: ..... **acciaio inox AISI 420B**	*Rack:* ..... *AISI 420B stainless steel*
Pignone: ..... **acciaio C40**	*Pinion:* ..... *C40 carbon steel*
Fondello pignone: ..... **acciaio inox**	*Pinion cover:* ..... *stainless steel*
Seeger: ..... **acciaio inox**	*Seeger:* ..... *stainless steel*
Pistone: ..... **lega di alluminio**	*Piston:* ..... *aluminium alloy*
Paracolpo pistone: ..... **NBR**	*Shock absorber:* ..... *NBR*
Boccole strisciamento: ..... **acciaio/bronzo/teflon**	*Bearing:* ..... *steel/bronze/teflon*
Dadi/Rosette: ..... **acciaio zincato**	*Nut:* ..... *galvanized steel alloy*
Raschiatore cremagliera: ..... **poliuretano**	*Rack wiper:* ..... *polyurethane*
Guarnizione/raschiatore stelo: ... **poliuretano**	*Rod wiper:* ..... *polyurethane*
Fondelli: ..... **lega alluminio anodizzato**	*Cover:* ..... *anodized aluminium alloy*
Guarnizione pistone: ..... **poliuretano**	*Piston seal:* ..... *polyurethane*

Effettive forze di presa - *Effective holding force*





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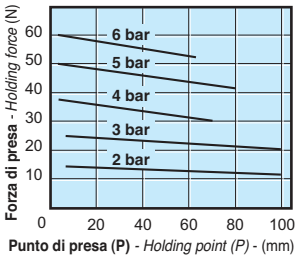

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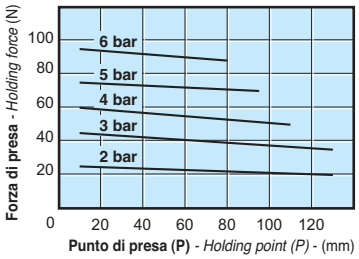

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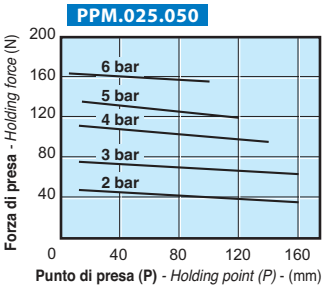

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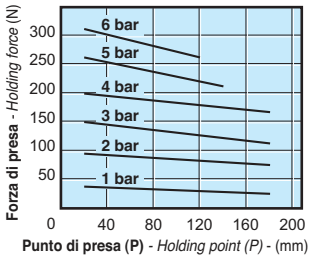
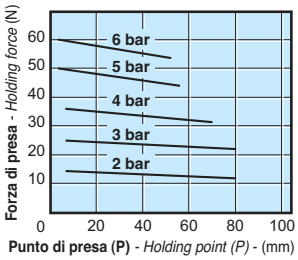


PPM.016.060
PPM.016.080



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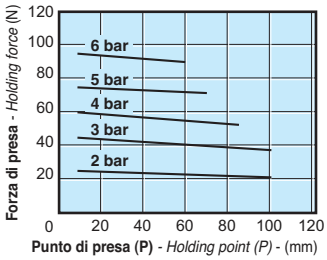
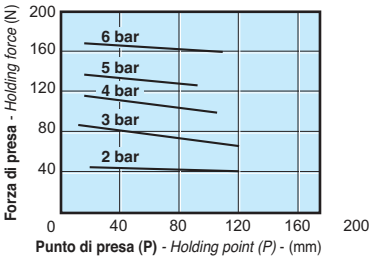
PPM.020.100



PPM.025.100
PPM.025.120



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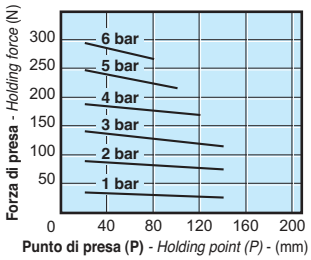


CODICI DI ORDINAZIONE - *ORDER CODES*

Serie
Series

alesaggio
bore (mm)
Ø16; 20;
25; 32 mm.

Corse standard
Standard stroke (mm):
16: 30; 60; 80 mm.
20: 40; 80, 100 mm.
25: 50; 100, 120 mm.
32: 70; 120, 160 mm.

Indicare in successione i codici delle varianti eventualmente richieste.
Please indicate in sequence the codes of variants possibly requested.

PPM . 16 . 030 . [ ]

Varianti - *Variants*		**Codice** *Code*
Esecuzione: *Version:*	**Corsa ridotta in apertura a:** *Opening stroke reduced:*	**RA_ _ _**
	Corsa ridotta in chiusura a: *Closing stroke reduced:*	**RC_ _ _**

Per tipologie e caratteristiche tecniche dei sensori vedere la relativa sezione a pagina 1-177.
For types and specifications of the sensors see the section on page 1-177.

Come ordinare - *Code example*

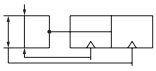
Pinze parallele a grande apertura, alesaggio Ø25 mm, corsa 100 mm.
Wide paralllel opening grippers, bore Ø25, stroke 100 mm.

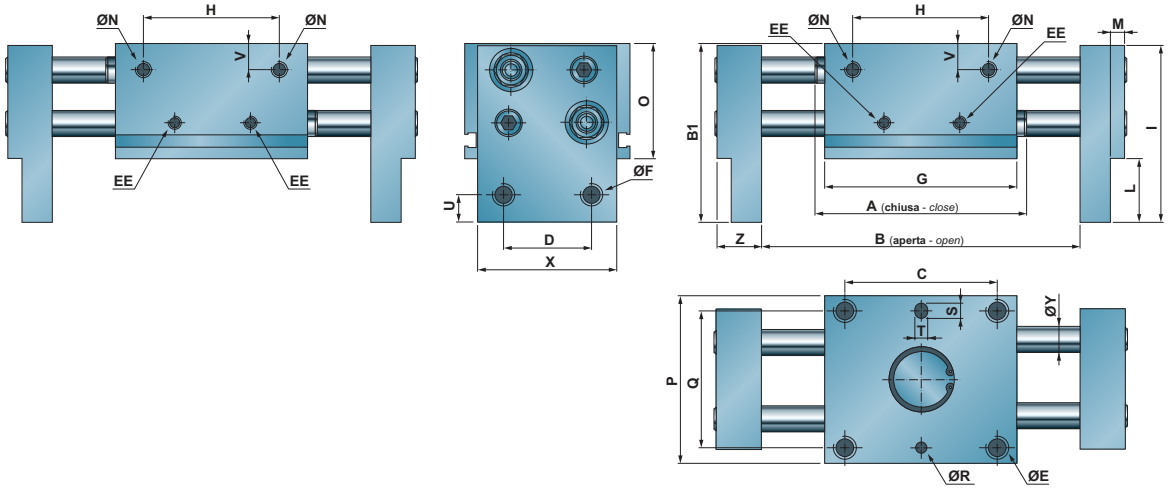
PPM.025.100

DIMENSIONI DI INGOMBRO - *OVERALL DIMENSIONS*

PPM .. ...

Doppio effetto
Double acting





Serie *Serie*	A	B	C	D	ØE	ØF	G	H	I	L	M	ØN	O	P	Q	B1	EE	ØR H9	S	T	U	V	Z	X	ØY	Massa (g) *Mass (g)*
PPM.016.030	68	98	45	25	M5x6	M5	60	28	58	19	4	M5	39	55	42	58,5	M5	3	4	3	8	10	13	43	8	300
PPM.016.060	110	170	75	25	M5x6	M5	90	58	58	19	4	M5	39	55	42	58,5	M5	3	4	3	8	10	13	43	8	350
PPM.016.080	130	210	95	25	M5x6	M5	110	78	58	19	4	M5	39	55	42	58,5	M5	3	4	3	8	10	13	43	8	430
PPM.020.040	82	122	58	30	M6x10	M6	71	38	70	24	4,5	M6x7	46	65	52	71	M5	4	5	4	10	11	17	54	10	1020
PPM.020.080	142	222	100	30	M6x10	M6	113	80	70	24	4,5	M6x7	46	65	52	71	M5	4	5	4	10	11	17	54	10	1460
PPM.020.100	162	262	120	30	M6x10	M6	133	100	70	24	4,5	M6x7	46	65	52	71	M5	4	5	4	10	11	17	54	10	1680
PPM.025.050	100	150	70	40	M8x10	M8	88	48	80	29	7	M8	52	76	62	81	M5	5	6	5	12	12,5	20	64	12	1640
PPM.025.100	182	282	124	40	M8x10	M8	142	102	80	29	7	M8	52	76	62	81	M5	5	6	5	12	12,5	20	64	12	2350
PPM.025.120	200	320	142	40	M8x10	M8	160	120	80	29	7	M8	52	76	62	81	M5	5	6	5	12	12,5	20	64	12	2640
PPM.032.070	150	220	86	50	M8x10	M10	110	60	100	32	9	M8x10	68	82	64	101	G1/8x7	6	7	6	15	15,5	24	70	16	3120
PPM.032.120	198	318	134	50	M8x10	M10	158	108	100	32	9	M8x10	68	82	64	101	G1/8x7	6	7	6	15	15,5	24	70	16	4120
PPM.032.160	242	402	178	50	M8x10	M10	202	152	100	32	9	M8x10	68	82	64	101	G1/8x7	6	7	6	15	15,5	24	70	16	5040

Tolleranze nominali sulla corsa - *nominal tolerances of stroke*

Le tolleranze sulla corsa nominale sono di 0 / +2 mm per tutte le corse.
Nominal tolerances of stroke are 0 / +2 mm for all strokes.