MICROCILINDRI ISO6432 Ø8-25
ISO6432 MICROCYLINDERS Ø8-25

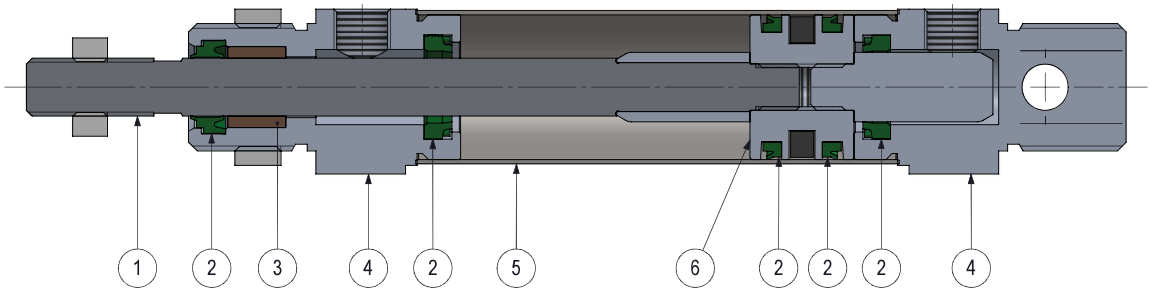
Cilindri realizzati secondo norma ISO6432 disponibili da Ø8 a Ø25 in versione semplice e doppio effetto, magnetico e non, ammortizzato e non, e con stelo standard o passante.

- **Altamente resistenti grazie a chiusura tramite cianfrinatura**
- **Guarnizioni in PU per alte performance e lunga durata**
- **Disponibili secondo diverse varianti costruttive**
- **Interamente realizzabili in versione speciale a disegno**

Cylinders produced according to ISO6432 norm available from Ø8 up to Ø25, in single or double acting, magnetic or not, in cushioned or not version and with standard or through piston rod.

- *High resistance thanks to crimping closure*
- *High and long-lasting performances thanks to PU seals*
- *Available according to several construction variants*
- *Available in special version according to customer's drawing*

MATERIALI STANDARD / *STANDARD MATERIALS*



Stelo *Piston rod*	**Acciaio inox AISI303** *Stainless steel AISI303*
Guarnizioni *Seals*	**Poliuretano** *Polyurethane*
Boccola di guida *Guiding bush*	**Bronzo sinterizzato** *Sintered bronze*
Testate *Covers*	**Alluminio anodizzato** *Anodized aluminum*
Tubo *Tube*	**Acciaio inox AISI304** *Stainless steel AISI304*
Pistone *Piston*	**Ø8-12 Ottone Ø16-25 Alluminio** *Ø8-12 Brass Ø16-25 Aluminum*

INFORMAZIONI TECNICHE / *TECHNICAL INFORMATION*

Fluido *Fluid*	**Aria compressa filtrata lubrificata e non** *Filtered and lubricated or not compressed air*
Temperatura impiego *Working temperature*	**-35°C +80°C con aria secca** *-35°C +80°C with dry air*
Pressione massima *Max pressure*	**10 bar** *10 bar*

CHIAVE DI CODIFICA / *KEY CODE*

Serie *Serie*	Versione *Version*				Diametro *Diameter*	Corsa *Stroke*
MA	DE	0	M	N	020	0100
	DE **Doppio effetto** *Double acting*	**0** **Standard** *Standard*	**M** **Magnetico** *Magnetic*	**A** **Ammortizzato** *Cushioned*	**008** **Ø8**	**XXXX** **corsa** *stroke*
	SA **Semplice effetto molla anteriore** *Single acting front spring*	**1** **Passante** *Through rod*	**N** **Non magnetico** *Not magnetic*	**N** **Non ammortizz.** *Not cushioned*	**010** **Ø10**	
	SP **Semplice effetto molla posteriore** *Single acting rear spring*				**012** **Ø12**	
					016 **Ø16**	
					020 **Ø20**	
					025 **Ø25**	

VARIANTI STANDARD / *STANDARD VARIANTS*

Guarnizioni *Seals*	Costruzione *Construction*	Materiale Stelo *Piston rod material*	Prolunga stelo *Extended piston rod*	Filetto speciale *Special piston rod thread*	Atex *Atex*
HA	R	X	P020		T
HR **Stelo Viton** *Viton rod seal*	**E** **Antirotazione** *Not rotating*	**X** **AISI316** *AISI316*	**PXXX** **P + mm** *P + mm*	**Su richiesta** *On request*	
HA **Tutto Viton** *All Viton*	**A** **Vers. corta alim. assiale** *Short version axial inet*				
	R **Vers. corta alim. radiale** *Short version radial inet*				

Per altre varianti costruttive e di materiali rivolgersi direttamente all'ufficio commerciale.
For other construction and material variants please contact the commercial department.

MICROCILINDRI ISO6432 Ø8-25
ISO6432 MICROCYLINDERS Ø8-25

CORSE STANDARD / *STANDARD STROKES*

Ø	10	25	50	80	100	125	160	200	250	320	400	500
8	*	*	*	*	*							
10	*	*	*	*	*							
12	*	*	*	*	*	*	*	*				
16	*	*	*	*	*	*	*	*				
20	*	*	*	*	*	*	*	*	*	*		
25	*	*	*	*	*	*	*	*	*	*	*	*

Corse standard massime versione semplice effetto (10-25-50)
Single acting cylinders Maximum standard strokes (10-25-50)

Corse fuori standard disponibili a listino e su richiesta
Not standard strokes available on request and on price list

FORZE TEORICHE / *THEORETICAL FORCES*

Molla anteriore
Front spring

Ø	10		25		50	
	F1	F2	F1	F2	F1	F2
8	4,1	4,6	3,4	4,6	2,2	4,6
10	4,1	4,6	3,4	4,6	2,2	4,6
12	5,6	6	5,5	6	4,1	6
16	19,2	21,5	15,7	21,5	9,8	21,5
20	20,4	22,5	17,3	22,5	11,7	22,5
25	17,5	18,8	15,58	18,8	12,4	18,8

Molla posteriore
Rear spring

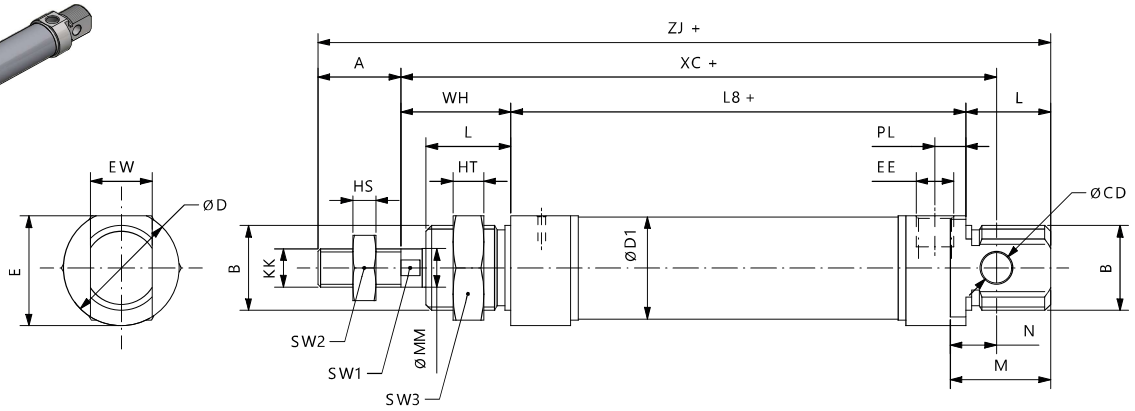
Ø	10		25		50	
	F1	F2	F1	F2	F1	F2
8	5,5	6	4,8	6	3,6	6
10	5	6,2	3,3	6,2	-	-
12	13	14,2	11,3	14,2	8,5	14,2
16	19	20,7	16,3	20,7	12	20,7
20	57,2	61,5	50,7	61,5	39,8	61,5
25	28,5	30,6	25,3	30,6	19,8	30,6

F teoriche a 6 bar
Thererical F at 6 bar

Ø	Forza di spinta (N) *Thrust force (N)*	Forza di trazione (N) *Traction force (N)*
8	30	23
10	47	40
12	68	51
16	121	104
20	189	158
25	295	247

SEMPLICE EFFETTO MOLLA ANTERIORE
SINGLE ACTING FRONT SPRING

MASA0NN - MASA0MN

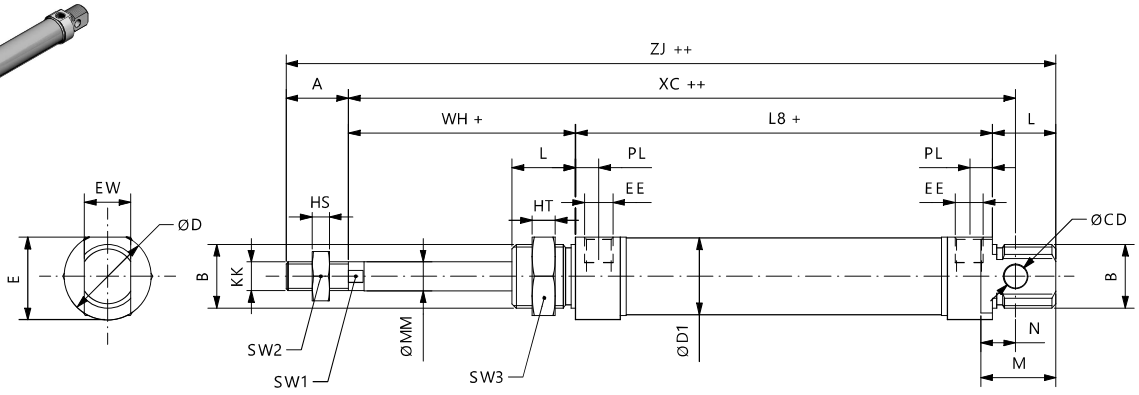


Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	M	PL	EE	ØD1	L8	XC	ZJ	N	ØCD	EW	ØD	E
8	M12x1,25	M4x0,7	-	12	16	4	12	3,2	6	7	19	16	5	M5	9,27	46	64	86	6	4	8	16	15
10	M12x1,25	M4x0,7	-	12	16	4	12	3,2	6	7	19	16	5	M5	11,27	46	64	86	6	4	8	16	15
12	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	22	5	M5	13,27	48	75	104	9	6	12	19	18
16	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	20	4.5	M5	17,27	53	82	109	9	6	12	19	18
20	M22x1.5	M8x1,25	7	20	24	8	20	5	8	13	27	28	8	1/8 G	21,27	67	95	131	12	8	16	27	25,5
25	M22x1.5	M10x1,25	9	22	28	10	22	6	8	17	27	26	8	1/8 G	26,5	68	104	140	12	8	16	30	28,5

+ = sommare corsa / *plus stroke length*

SEMPLICE EFFETTO MOLLA POSTERIORE
SINGLE ACTING REAR SPRING

MASP0NN - MASP0MN



Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	M	PL	EE	ØD1	L8	XC	ZJ	N	ØCD	EW	ØD	E
8	M12x1.25	M4x0.7	-	12	16	4	12	3,2	6	7	19	16	5	M5	9,27	64	82	104	6	4	8	16	15
10	M12x1.25	M4x0.7	-	12	16	4	12	3,2	6	7	19	16	5	M5	11,27	71,5	89,5	111,5	6	4	8	16	15
12	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	22	5	M5	13,27	70,5	97,5	126,5	9	6	12	19	18
16	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	20	4,5	M5	17,27	82	111	138	9	6	12	19	18
20	M22x1.5	M8x1.25	7	20	24	8	20	5	8	13	27	28	8	1/8 G	21,27	98,5	126,5	162,5	12	8	16	27	25,5
25	M22x1.5	M10x1.25	9	22	28	10	22	6	8	17	27	26	8	1/8 G	26,5	99,5	135,5	171,5	12	8	16	30	28,5

+ = sommare corsa / *plus stroke length*
++ = sommare 2 x corsa / *plus stroke length x 2*

MICROCILINDRI ISO6432 Ø8-25
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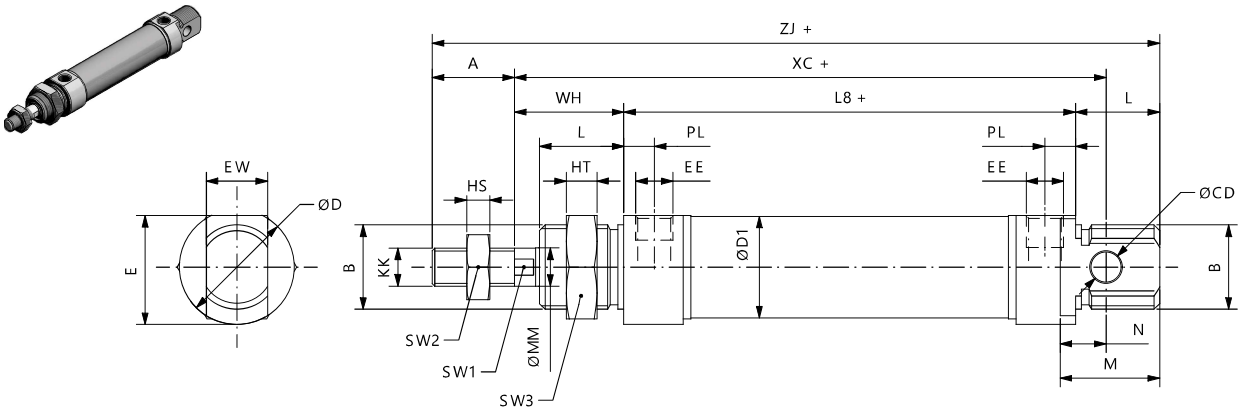
DOPPIO EFFETTO
DOUBLE ACTING

MADE0NN - MADE0MN

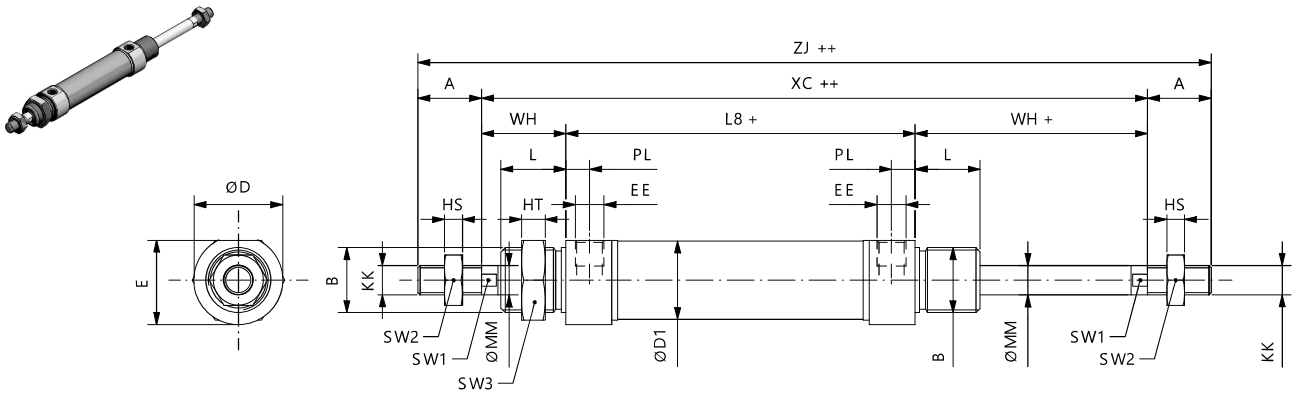


Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	M	PL	EE	ØD1	L8	XC	ZJ	N	ØCD	EW	ØD	E
8	M12x1.25	M4x0.7	-	12	16	4	12	3,2	6	7	19	16	5	M5	9,27	46	64	86	6	4	8	16	15
10	M12x1.25	M4x0.7	-	12	16	4	12	3,2	6	7	19	16	5	M5	11,27	46	64	86	6	4	8	16	15
12	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	22	5	M5	13,27	48	75	104	9	6	12	19	18
16	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	20	4.5	M5	17,27	53	82	109	9	6	12	19	18
20	M22x1.5	M8x1.25	7	20	24	8	20	5	8	13	27	28	8	1/8 G	21,27	67	95	131	12	8	16	27	25,5
25	M22x1.5	M10x1.25	9	22	28	10	22	6	8	17	27	26	8	1/8 G	26,5	68	104	140	12	8	16	30	28,5

+ = sommare corsa / *plus stroke length*

DOPPIO EFFETTO PASSANTE
DOUBLE ACTING THROUGH ROD

MADE1NN - MADE1MN

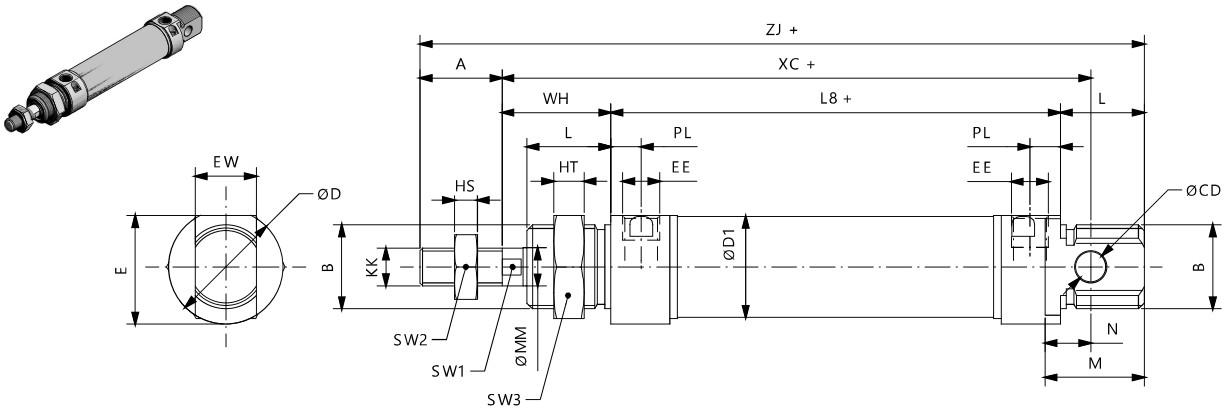


Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	PL	EE	ØD1	L8	XC	ZJ	ØD	E
8	M12x1.25	M4x0.7	-	12	16	4	12	3,2	6	7	19	5	M5	9,27	46	78	102	16	15
10	M12x1.25	M4x0.7	-	12	16	4	12	3,2	6	7	19	5	M5	11,27	46	78	102	16	15
12	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	5	M5	13,27	48	92	124	19	18
16	M16x1.5	M6x1	5	16	22	6	18	4	5	10	20	4,5	M5	17,27	53	97	129	19	18
20	M22x1.5	M8x1.25	7	20	24	8	20	5	8	13	28	8	1/8 G	21,27	67	115	155	27	25,5
25	M22x1.5	M10x1.25	9	22	28	10	22	6	8	17	26	8	1/8 G	26,5	68	124	168	30	28,5

+ = sommare corsa / *plus stroke length*
++ = sommare 2 x corsa / *plus stroke length x 2*

DOPPIO EFFETTO AMMORTIZZATO
DOUBLE ACTING CUSHIONED

MADE0NA - MADE0MA

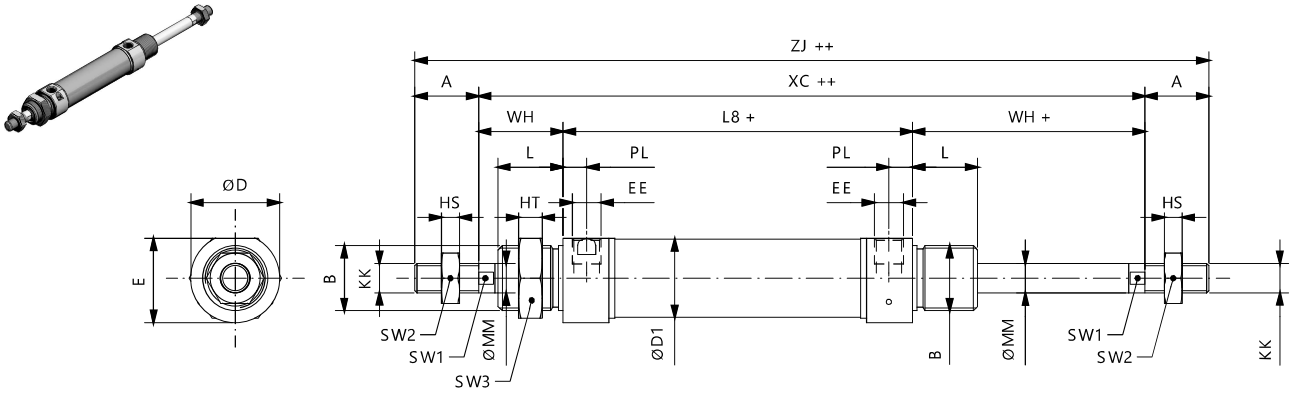


Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	M	PL	EE	ØD1	L8	XC	ZJ	N	ØCD	EW	ØD	E
16	M16x1,5	M6x1	5	16	22	6	18	4	5	10	22	20	5	M5	17,27	53	82	109	9	6	12	21	20
20	M22x1,5	M8x1,25	7	20	24	8	20	5	8	13	27	28	8	1/8 G	21,27	67	95	131	12	8	16	27	25,5
25	M22x1.5	M10x1.25	9	22	28	10	22	6	8	17	27	26	8	1/8 G	26,5	68	104	140	12	8	16	30	28,5

+ = sommare corsa / *plus stroke length*

DOPPIO EFFETTO AMMORTIZZATO PASSANTE
DOUBLE ACTING CUSHIONED THROUGH ROD

MADE1NA - MADE1MA

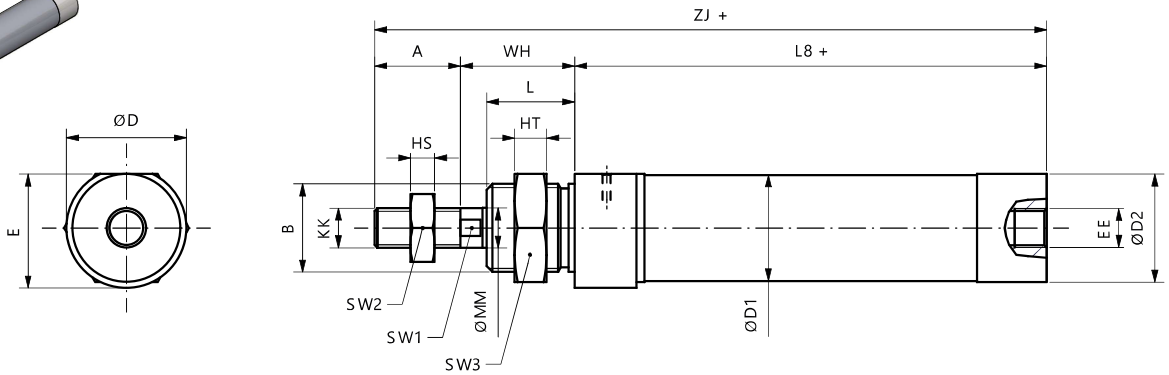


Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	PL	EE	ØD1	L8	XC	ZJ	ØD	E
16	M16x1,5	M6x1	5	16	22	6	18	4	5	10	22	5	M5	17,27	53	97	129	21	20
20	M22x1,5	M8x1,25	7	20	24	8	20	5	8	13	27	8	1/8 G	21,27	67	115	155	27	25,5
25	M22x1.5	M10x1.25	9	22	28	10	22	6	8	17	27	8	1/8 G	26,5	68	124	168	30	28,5

+ = sommare corsa / *plus stroke length*
++ = sommare 2 x corsa / *plus stroke length x 2*

MICROCILINDRI ISO6432 Ø8-25
ISO6432 MICROCYLINDERS Ø8-25

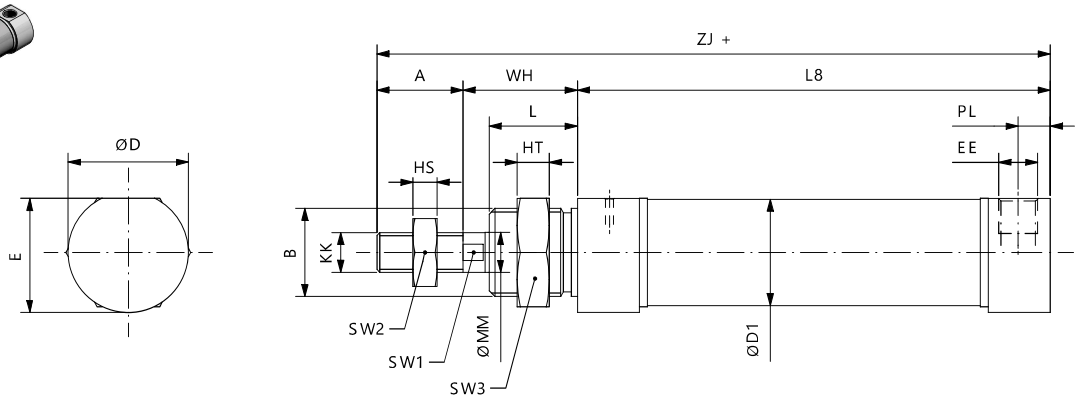
VERSIONE CORTA SEMPLICE EFFETTO
SHORT VERSION SINGLE ACTING
ALIMENTAZIONE ASSIALE / *AXIAL INLET*



Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	EE	ØD1	L8	ZJ	ØD2	ØD	E
16	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	M5	17,27	52	90	17,2	19	18
20	M22x1.5	M8x1.25	7	20	24	8	20	5	8	13	27	1/8 G	21,27	65	109	22,2	27	25,5
25	M22x1.5	M10x1.25	9	22	28	10	22	6	8	17	27	1/8 G	26,5	66	116	27	30	28,5

+ = sommare corsa / *plus stroke length*

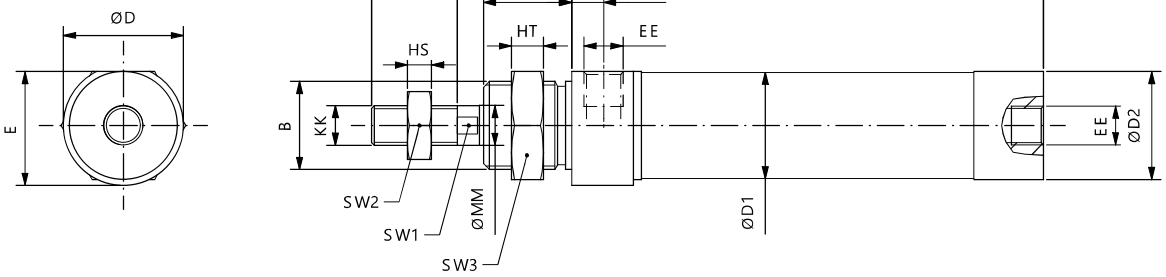
VERSIONE CORTA SEMPLICE EFFETTO
SHORT VERSION SINGLE ACTING
ALIMENTAZIONE RADIALE / *RADIAL INLET*



Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	EE	ØD1	L8	ZJ	PL	ØD	E
16	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	M5	17,27	52,5	90,5	4,5	19	18
20	M22x1.5	M8x1.25	7	20	24	8	20	5	8	13	27	1/8 G	21,27	67	111	8	27	25,5
25	M22x1.5	M10x1.25	9	22	28	10	22	6	8	17	27	1/8 G	26,5	68	118	8	30	28,5

+ = sommare corsa / *plus stroke length*

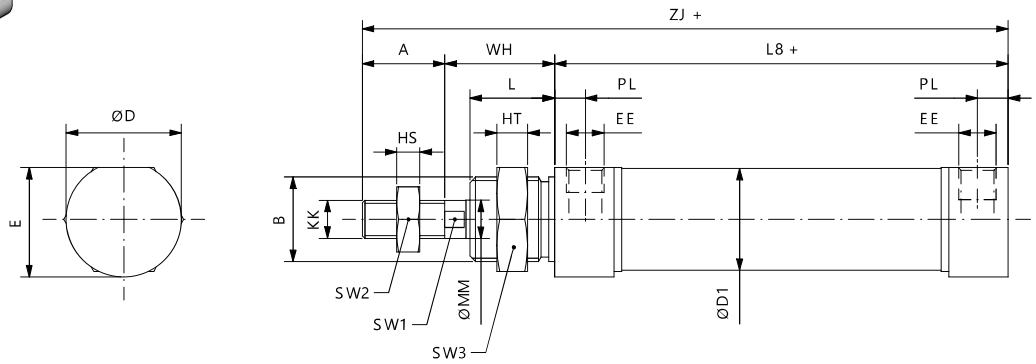
VERSIONE CORTA DOPPIO EFFETTO
SHORT VERSION DOUBLE ACTING
ALIMENTAZIONE ASSIALE / *AXIAL INLET*



Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	PL	EE	ØD1	L8	ZJ	ØD2	ØD	E
16	M16x1,5	M6x1	5	16	22	6	18	4	5	10	22	4,5	M5	17,27	52	90	17,2	19	18
20	M22x1.5	M8x1.25	7	20	24	8	20	5	8	13	27	8	1/8 G	21,27	65	109	22,2	27	25,5
25	M22x1.5	M10x1.25	9	22	28	10	22	6	8	17	27	8	1/8 G	26,5	66	116	27	30	28,5

+ = sommare corsa / *plus stroke length*

VERSIONE CORTA DOPPIO EFFETTO
SHORT VERSION DOUBLE ACTING
ALIMENTAZIONE RADIALE / *RADIAL INLET*



Ø	B	KK	SW1	A	WH	ØMM	L	HS	HT	SW2	SW3	EE	ØD1	L8	ZJ	PL	ØD	E
16	M16x1.5	M6x1	5	16	22	6	18	4	5	10	22	M5	17,27	52,5	90,5	4,5	19	18
20	M22x1.5	M8x1.25	7	20	24	8	20	5	8	13	27	1/8 G	21,27	67	111	8	27	25,5
25	M22x1.5	M10x1.25	9	22	28	10	22	6	8	17	27	1/8 G	26,5	68	118	8	30	28,5

+ = sommare corsa / *plus stroke length*

MICROCILINDRI ISO6432 Ø8-25
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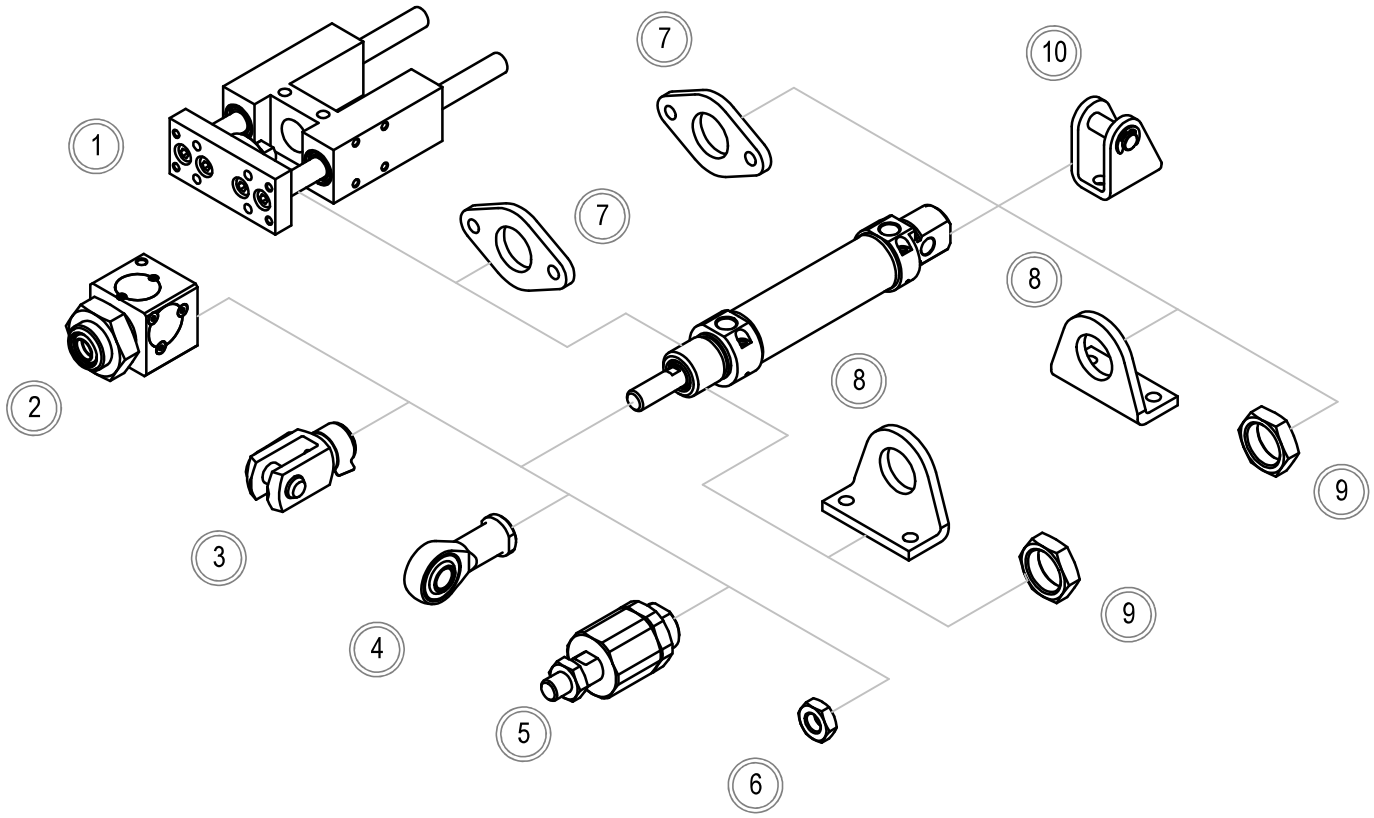
ACCESSORI DI FISSAGGIO
MOUNTING ACCESSORIES



	Descrizione *Description*	Acciaio *Steel*	Acciaio inox *Stainless steel*
1	**Unità di guida** *Guide unit*	**200**	**-**
2	**Bloccastelo** *Rod Lock*	**211**	**-**
3	**Forcella** *Clevis*	**157**	**185**
4	**Testa a snodo** *Rod end*	**158**	**185**
5	**Giunto autoallineante** *Self-aligning joint*	**158**	**-**
6	**Dado stelo** *Piston rod nut*	**159**	**186**
7	**Flangia MF8** *Flange MF8*	**162**	**188**
8	**Piedino MS3** *Foot MS3*	**163**	**189**
9	**Dado testata** *Cover nut*	**159**	**186**
10	**Cerniera femmina MP3** *Female hinge MP3*	**163**	**189**

KIT DI MONTAGGIO
MOUNTING KIT

Contenuto del Kit - *Kit parts*
Testata anteriore completa / *Assembled front cover*
Testata posteriore completa / *Assembled rear cover*
Pistone completo / *Complete piston*
Dado stelo / *Piston rod nut*
Tappi protezione alimentazioni / *Air supply protection caps*
Dado testata / *Cover nut*

Kit disponibile anche nelle altre versioni
Kit available also in other versions

BARRA STELO
PISTON ROD BAR

Ø cilindro *Ø cylinder*	**Barra stelo in AISI303** *AISI303 piston rod bar*	**Barra stelo in AISI316** *AISI316 piston rod bar*	**Ø**
08-10	V30BRT0304000	V30BRT0504000	4
12-16	V30BRT0306000	V30BRT0506000	6
20	V30BRT0308000	V30BRT0508000	8
25	V30BRT0310000	V30BRT0510000	10

Barre lunghezza 3 metri
3 meter long bars

BARRA TUBO
TUBE BAR

Ø cilindro *Ø cylinder*	**Barra tubo in AISI304** *AISI304 tube bar*	
08	V30TGT0408000	Ø8XØ9,27
10	V30TGT0410000	Ø10XØ11,27
12	V30TGT0412000	Ø12XØ13,27
16	V30TGT0416000	Ø16XØ17,27
20	V30TGT0420000	Ø20XØ21,27
25	V30TGT0425000	Ø25XØ26,52

Barre lunghezza 3 metri
3 meter long bars