CILINDRI COMPATTI ISO21287 Ø20-100
ISO21287 COMPACT CYLINDERS Ø20-100

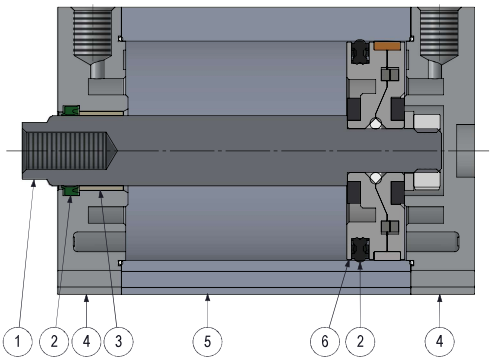
Cilindri compatti ISO21287 disponibili da Ø20 a Ø100 in versione semplice e doppio effetto, magnetico e non, e con stelo standard o passante.

- **Testate in alluminio pressofuso verniciato**
- **Guarnizioni in PU per alte performance e lunga durata**
- **Pistone in alluminio con pattino di guida in PTFE**
- **Interamente realizzabili in versione speciale a disegno**

ISO21287 compact cylinders produced from Ø20 up to Ø100 in single and double acting version, magnetic or not, and with standard or through piston rod.

- *Painted die-casted aluminum covers*
- *High and long-lasting performances thanks to PU seals*
- *Aluminum piston with PTFE guiding ring*
- *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 / NBR** *Polyurethane / NBR*
Boccola di guida *Guiding bush*	**Acciaio + PTFE** *Steel + PTFE*
Testate *Covers*	**Alluminio pressofuso verniciato** *Painted die-casted aluminum*
Tubo *Tube*	**Alluminio anodizzato** *Anodized aluminum*
Pistone *Piston*	**Alluminio** *Aluminum*

INFORMAZIONI TECNICHE / *TECHNICAL INFORMATION*

Fluido *Fluid*	**Aria compressa filtrata lubrificata e non** *Filtered and lubricated or not compressed air*
Temperatura impiego *Working temperature*	**-30°C +80°C con aria secca** *-30°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*
CA	DE	0	M	F	080	0100
	DE **Doppio effetto** *Double acting*	**0** **Standard** *Standard*	**M** **Magnetico** *Magnetic*	**M** **Filetto maschio** *Male thread*	**020** **Ø20**	**XXXX** **corsa** *stroke*
	SA **Semplice effetto molla anteriore** *Single acting front spring*	**1** **Passante** *Through rod*	**N** **Non magnetico** *Not magnetic*	**F** **Filetto femmina** *Female thread*	**...**	
	SP **Semplice effetto molla posteriore** *Single acting rear spring*				**100** **Ø100**	

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	E	X	P020		T
HR **Stelo Viton** *Viton rod seal*	**E** **Antirotazione** *Not rotating*	**Y** **AISI304** *AISI304*	**PXXX** **P + mm** *P + mm*	**Su richiesta** *On request*	
HA **Tutto Viton** *All Viton*		**X** **AISI316** *AISI316*			

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

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CORSE STANDARD / *STANDARD STROKES*

Ø	5	10	15	20	25	30	40	50	60	70	80	90	100	125	160	200	250	300	350	400
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
63	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Corse standard versione semplice effetto (5-10-15-20-25-30-40-50)
Single acting cylinders standard strokes (15-10-15-20-25-30-40-50)

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

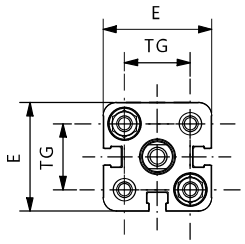
FORZE TEORICHE / *THEORETICAL FORCES*

Forze teoriche molle corsa 25 mm *Theoretical spring forces at stroke 25 mm*		
Ø	F1	F2
20	10	25
25	16	33
32	30	50
40	40	55
50	40	65
63	51	77
80	90	115
100	120	160

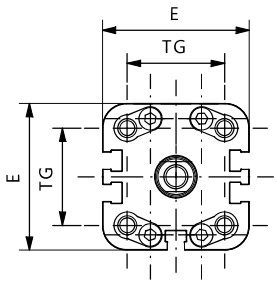
F teoriche a 6 bar *Thererical F at 6 bar*		
Ø	**Forza di spinta (N)** *Thrust force (N)*	**Forza di trazione (N)** *Traction force (N)*
20	188	141
25	294	247
32	482	414
40	754	633
50	1178	989
63	1869	1681
80	3014	2720
100	4710	4416

SEMPLICE EFFETTO MOLLA ANTERIORE
SINGLE ACTING FRONT SPRING

CASA0N - CASA0M



Ø020 - Ø025



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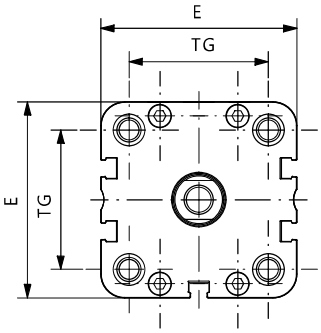
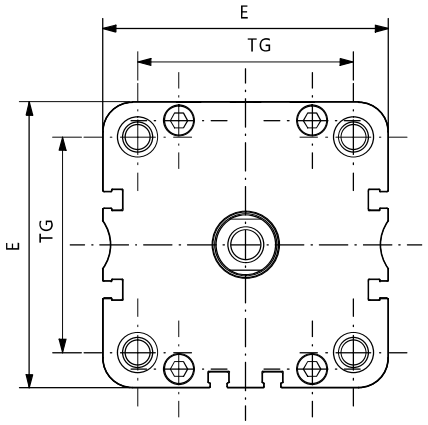
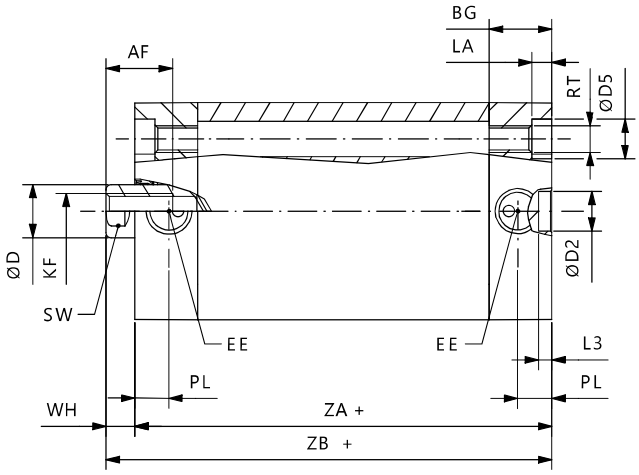
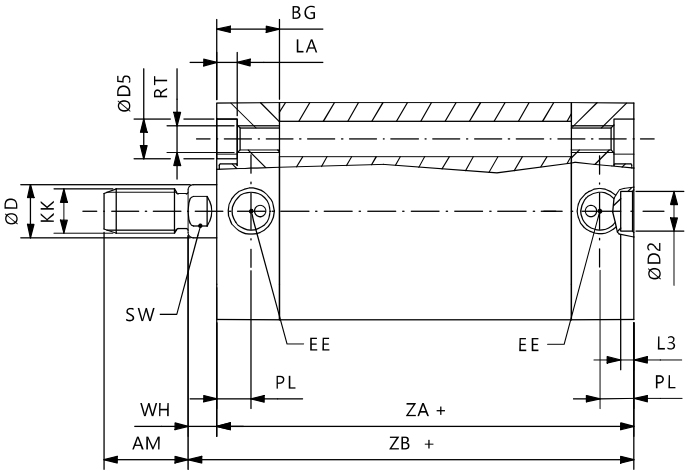


Ø040 - Ø050



Ø063 - Ø080 - Ø100





Ø	E	ØD2	RT	ØD5	KF	ØD	EE	PL	BG	TG	SW	L3	AF	WH	ZA	AM	KK	ZB	LA
20	36	9	M5	7,5	M6	10	M5	7,5	11,8	22	9	3	10	6	37	16	M8X1,25	43	4,5
25	40	9	M5	7,5	M6	10	M5	7,5	12,8	26	9	3	10	6	39	16	M8X1,25	45	4,5
32	49	9	M6	9	M8	12	1/8 G	7,5	14	32,5	10	3	12	7	44	19	M10X1,25	51	4,5
40	54,5	9	M6	9	M8	12	1/8 G	8	14,5	38	10	3	12	7	45	19	M10X1,25	52	5
50	65,5	12	M8	10,5	M10	16	1/8 G	8	14,5	46,5	13	4	16	8	45	22	M12X1,25	53	5
63	77	12	M8	10,5	M10	16	1/8 G	7,5	13,8	56,5	13	4	16	8	49	22	M12X1,25	57	5
80	95,5	12	M10	13,5	M12	20	1/8 G	8	15	72	17	4	20	10	54	28	M16X1,5	64	3
100	113,5	12	M10	13,5	M12	25	1/8 G	10,5	19,5	89	21	4	20	10	67	28	M16X1,5	77	3

+ = sommare corsa / plus stroke length

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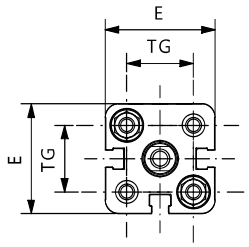
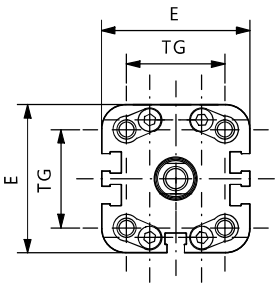
SEMPLICE EFFETTO MOLLA POSTERIORE
SINGLE ACTING REAR SPRING

CASP0N - CASP0M



Ø020 - Ø025



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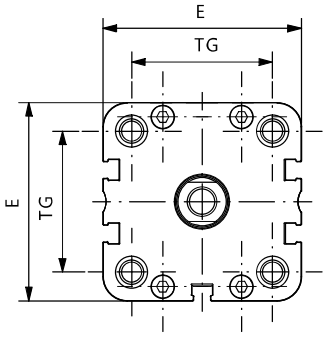
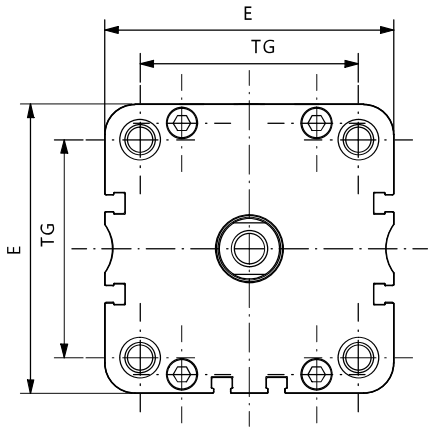
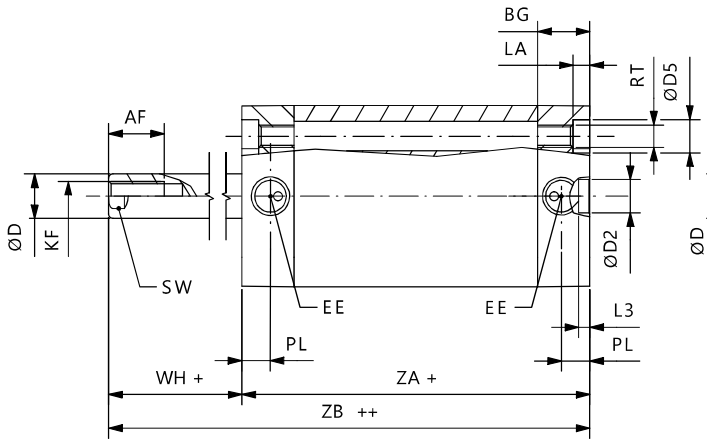
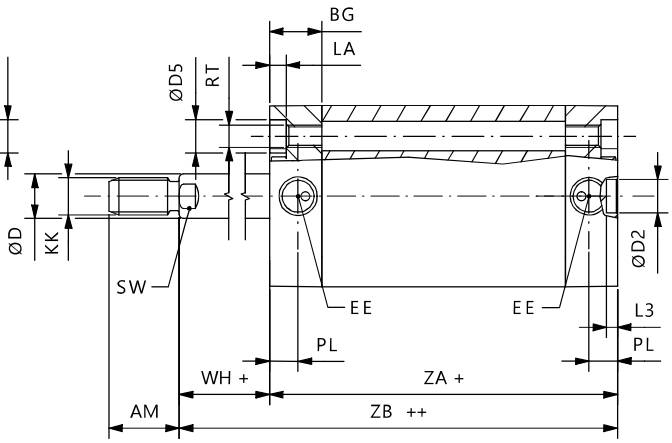


Ø040 - Ø050



Ø063 - Ø080 - Ø100



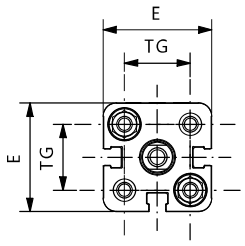


Ø	E	ØD2	RT	ØD5	KF	ØD	EE	PL	BG	TG	SW	L3	AF	WH	ZA	AM	KK	ZB	LA
20	36	9	M5	7,5	M6	10	M5	7,5	11,8	22	9	3	10	6	37	16	M8X1,25	43	4,5
25	40	9	M5	7,5	M6	10	M5	7,5	12,8	26	9	3	10	6	39	16	M8X1,25	45	4,5
32	49	9	M6	9	M8	12	1/8 G	7,5	14	32,5	10	3	12	7	44	19	M10X1,25	51	4,5
40	54,5	9	M6	9	M8	12	1/8 G	8	14,5	38	10	3	12	7	45	19	M10X1,25	52	5
50	65,5	12	M8	10,5	M10	16	1/8 G	8	14,5	46,5	13	4	16	8	45	22	M12X1,25	53	5
63	77	12	M8	10,5	M10	16	1/8 G	7,5	13,8	56,5	13	4	16	8	49	22	M12X1,25	57	5
80	95,5	12	M10	13,5	M12	20	1/8 G	8	15	72	17	4	20	10	54	28	M16X1,5	64	3
100	113,5	12	M10	13,5	M12	25	1/8 G	10,5	19,5	89	21	4	20	10	67	28	M16X1,5	77	3

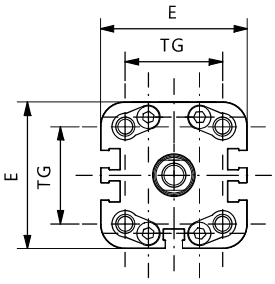
+ = sommare corsa / *plus stroke length*
++ = sommare 2 x corsa / *plus stroke length x 2*

DOPPIO EFFETTO
DOUBLE ACTING

CADE0N - CADE0M



Ø020 - Ø025



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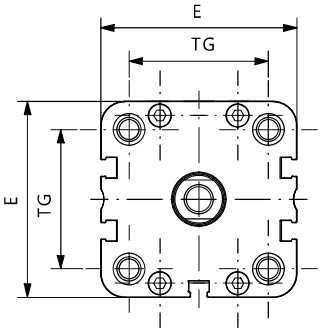
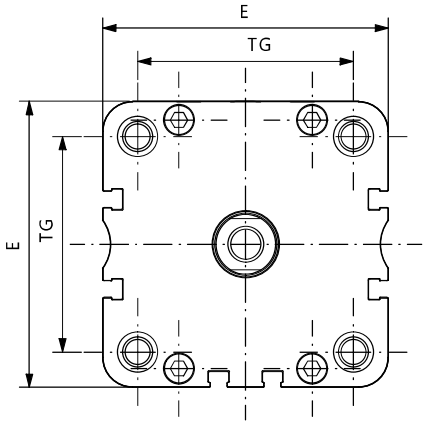
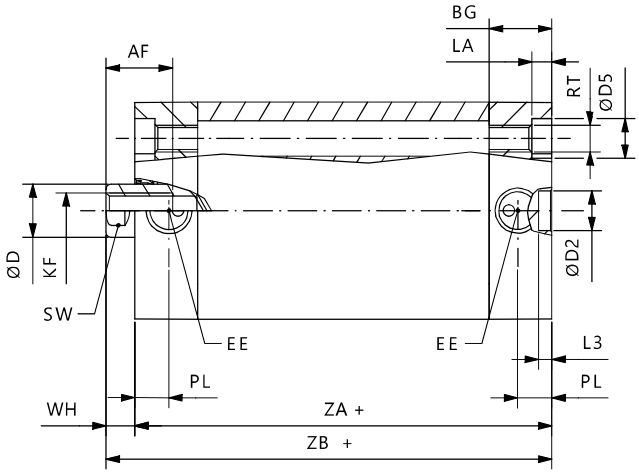
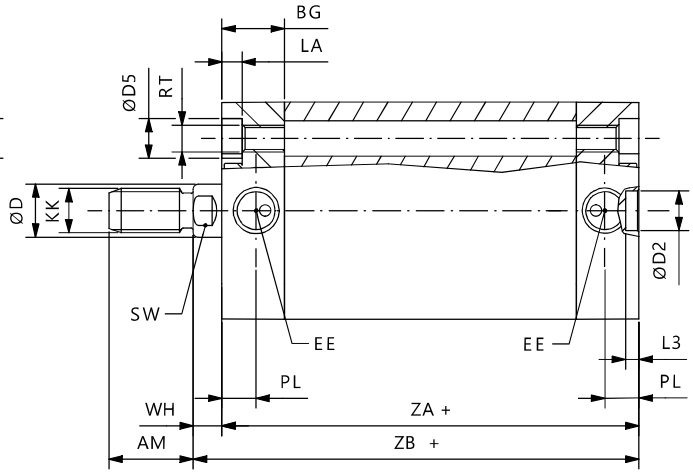


Ø040 - Ø050



Ø063 - Ø080 - Ø100





Ø	E	ØD2	RT	ØD5	KF	ØD	EE	PL	BG	TG	SW	L3	AF	WH	ZA	AM	KK	ZB	LA
20	36	9	M5	7,5	M6	10	M5	7,5	11,8	22	9	3	10	6	37	16	M8X1,25	43	4,5
25	40	9	M5	7,5	M6	10	M5	7,5	12,8	26	9	3	10	6	39	16	M8X1,25	45	4,5
32	49	9	M6	9	M8	12	1/8 G	7,5	14	32,5	10	3	12	7	44	19	M10X1,25	51	4,5
40	54,5	9	M6	9	M8	12	1/8 G	8	14,5	38	10	3	12	7	45	19	M10X1,25	52	5
50	65,5	12	M8	10,5	M10	16	1/8 G	8	14,5	46,5	13	4	16	8	45	22	M12X1,25	53	5
63	77	12	M8	10,5	M10	16	1/8 G	7,5	13,8	56,5	13	4	16	8	49	22	M12X1,25	57	5
80	95,5	12	M10	13,5	M12	20	1/8 G	8	15	72	17	4	20	10	54	28	M16X1,5	64	3
100	113,5	12	M10	13,5	M12	25	1/8 G	10,5	19,5	89	21	4	20	10	67	28	M16X1,5	77	3

+ = sommare corsa / *plus stroke length*

CILINDRI COMPATTI ISO21287 Ø20-100
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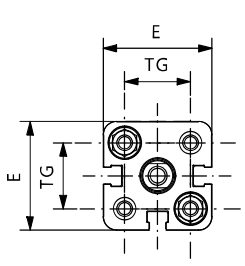
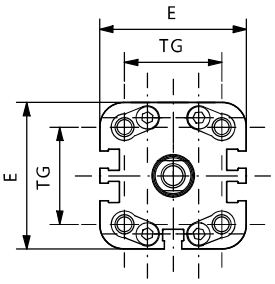
DOPPIO EFFETTO PASSANTE
DOUBLE ACTING THROUGH ROD

CADE1N - CADE1M



Ø020 - Ø025



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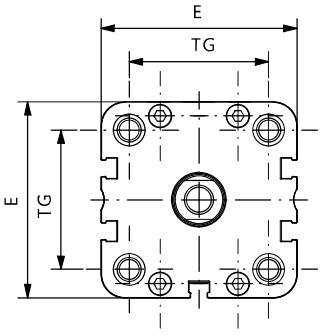
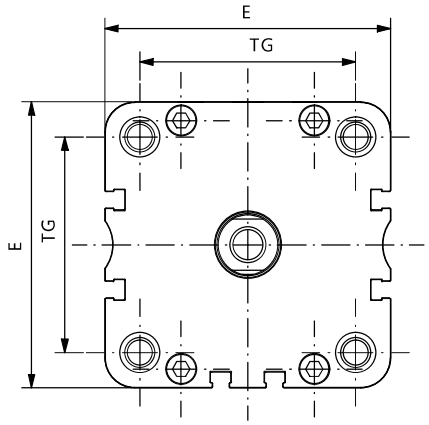
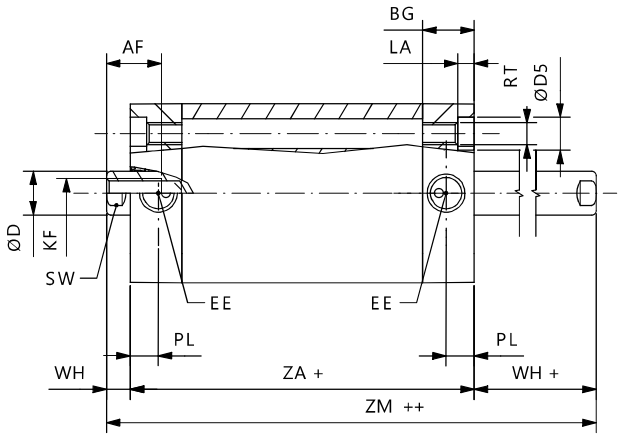
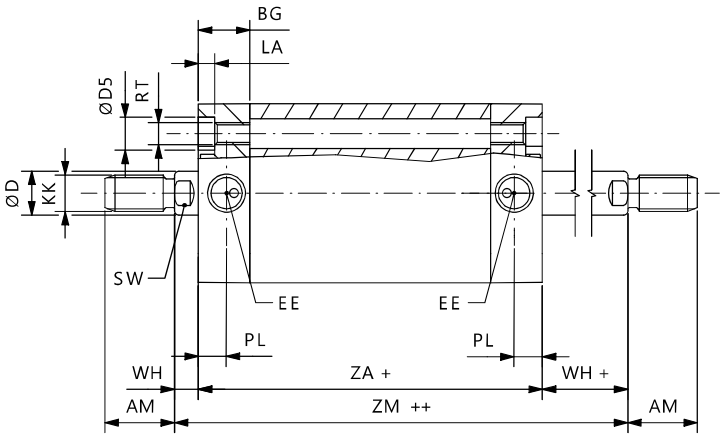


Ø040 - Ø050



Ø063 - Ø080 - Ø100



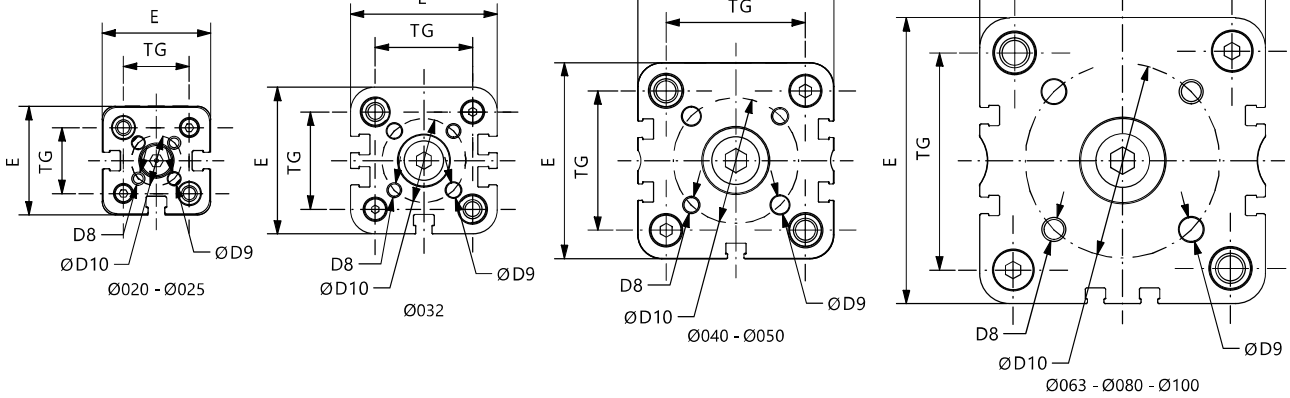


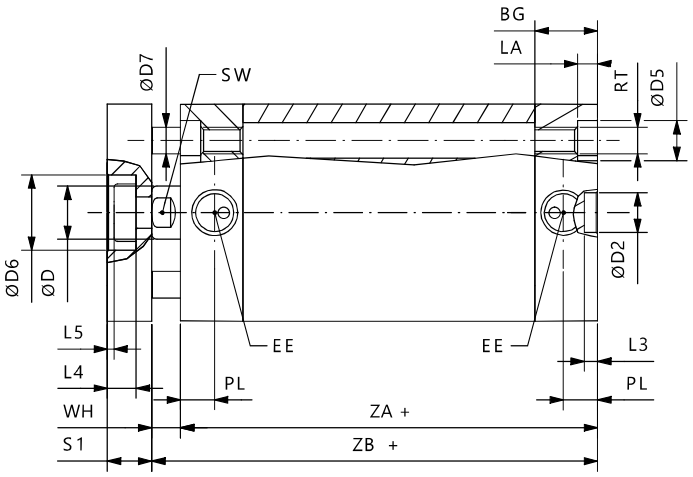
Ø	E	RT	ØD5	KF	ØD	EE	PL	BG	TG	SW	AF	WH	ZA	AM	KK	ZM	LA
20	36	M5	7,5	M6	10	M5	7,5	11,8	22	9	10	6	37	16	M8X1,25	49	4,5
25	40	M5	7,5	M6	10	M5	7,5	12,8	26	9	10	6	39	16	M8X1,25	51	4,5
32	49	M6	9	M8	12	1/8 G	7,5	14	32,5	10	12	7	44	19	M10X1,25	58	5
40	54,5	M6	9	M8	12	1/8 G	8	14,5	38	10	12	7	45	19	M10X1,25	59	5
50	65,5	M8	10,5	M10	16	1/8 G	8	14,5	46,5	13	16	8	45	22	M12X1,25	61	5
63	77	M8	10,5	M10	16	1/8 G	7,5	13,8	56,5	13	16	8	49	22	M12X1,25	65	5
80	95,5	M10	13,5	M12	20	1/8 G	8	15	72	17	20	10	54	28	M16X1,5	74	3
100	113,5	M10	13,5	M12	25	1/8 G	10,5	19,5	89	21	20	10	67	28	M16X1,5	87	3

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

DOPPIO EFFETTO ANTIROTAZIONE
DOUBLE ACTING NOT ROTATING

CADE0N E - CADE0M E





Ø	E	ØD2	RT	ØD5	ØD	EE	PL	BG	TG	SW	L3	WH	ZA	ZB	LA	S1	L4	ØD6	ØD7	ØD8	ØD9	ØD10
20	36	9	M5	7,5	10	M5	7,5	11,8	22	9	3	6	37	43	4,5	8	5	11	6	M4	4	17
25	40	9	M5	7,5	10	M5	7,5	12,8	26	9	3	6	39	45	4,5	8	5	14	6	M5	5	22
32	49	9	M6	9	12	1/8 G	7,5	14	32,5	10	3	7	44	51	4,5	10	6,5	17	6	M5	5	28
40	54,5	9	M6	9	12	1/8 G	8	14,5	38	10	3	7	45	52	5	10	6,5	17	8	M5	5	33
50	65,5	12	M8	10,5	16	1/8 G	8	14,5	46,5	13	4	8	45	53	5	12	7,5	22	10	M6	6	42
63	77	12	M8	10,5	16	1/8 G	7,5	13,8	56,5	13	4	8	49	57	5	12	7,5	22	10	M6	6	50
80	95,5	12	M10	13,5	20	1/8 G	8	15	72	17	4	10	54	64	3	14	9	28	14	M8	8	65
100	113,5	12	M10	13,5	25	1/8 G	10,5	19,5	89	21	4	10	67	77	3	14	10	30	14	M10	10	80

+ = sommare corsa / *plus stroke length*

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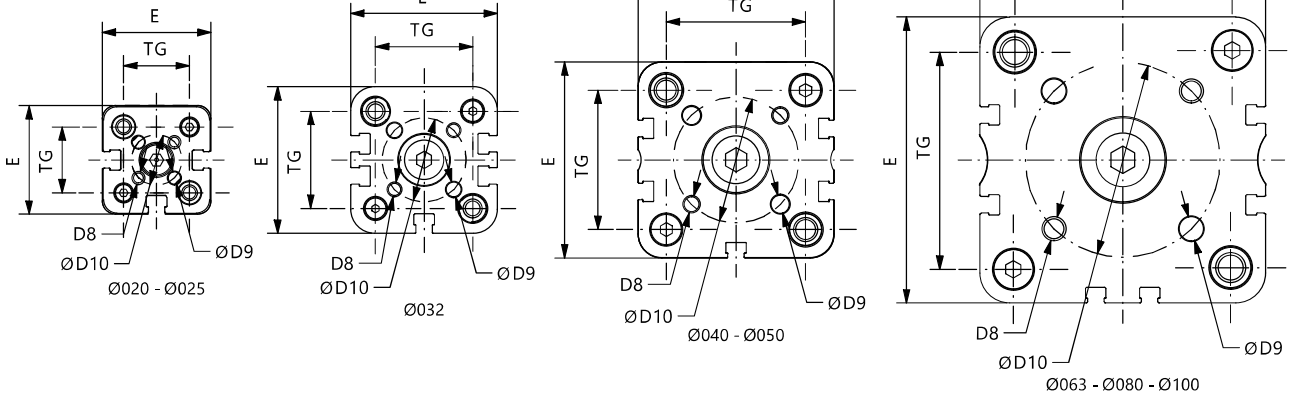
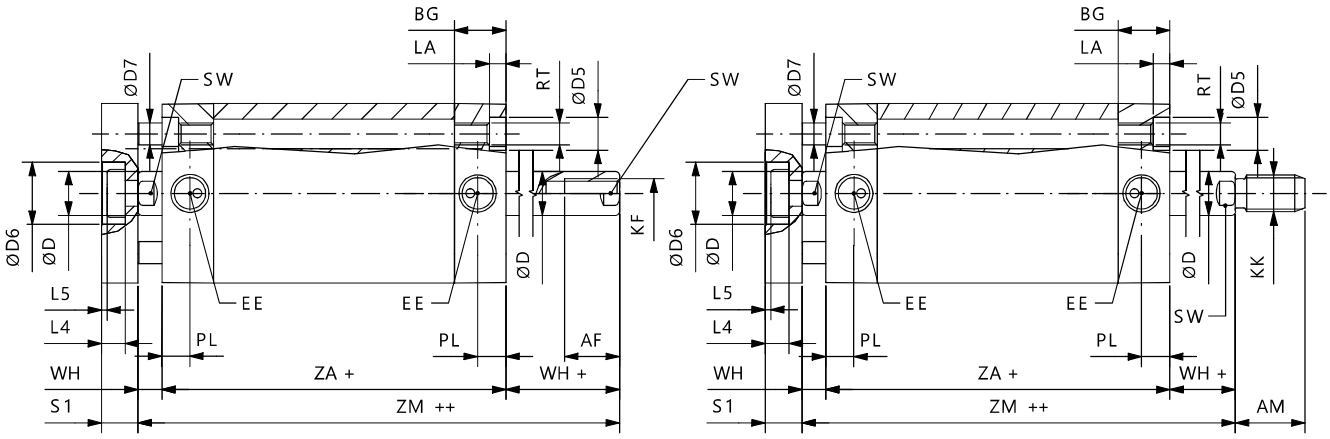
ISO21287 COMPACT CYLINDERS Ø20-100

DOPPIO EFFETTO ANTIROTAZIONE PASSANTE
DOUBLE ACTING NOT ROTATING THROUGH ROD

CADE1N E - CADE1M E

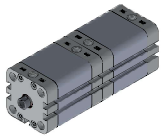


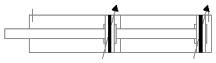


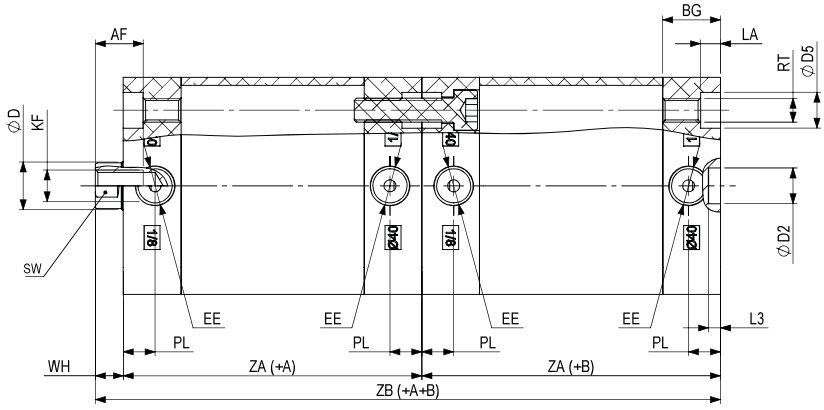
Ø	E	RT	ØD5	ØD	EE	PL	BG	TG	SW	WH	ZA	KK	ZM	LA	S1	L4	ØD6	ØD7	ØD8	ØD9	ØD10
20	36	M5	7,5	10	M5	7,5	11,8	22	9	6	37	M8X1,25	49	4,5	8	5	11	6	M4	4	17
25	40	M5	7,5	10	M5	7,5	12,8	26	9	6	39	M8X1,25	51	4,5	8	5	14	6	M5	5	22
32	49	M6	9	12	1/8 G	7,5	14	32,5	10	7	44	M10X1,25	58	4,5	10	6,5	17	6	M5	5	28
40	54,5	M6	9	12	1/8 G	8	14,5	38	10	7	45	M10X1,25	59	5	10	6,5	17	8	M5	5	33
50	65,5	M8	10,5	16	1/8 G	8	14,5	46,5	13	8	45	M12X1,25	61	5	12	7,5	22	10	M6	6	42
63	77	M8	10,5	16	1/8 G	7,5	13,8	56,5	13	8	49	M12X1,25	65	5	12	7,5	22	10	M6	6	50
80	95,5	M10	13,5	20	1/8 G	8	15	72	17	10	54	M16X1,5	74	3	14	9	28	14	M8	8	65
100	113,5	M10	13,5	25	1/8 G	10,5	19,5	89	21	10	67	M16X1,5	87	3	14	10	30	14	M10	10	80

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

TANDEM MULTI POSIZIONI
MULTI POSITION TANDEM



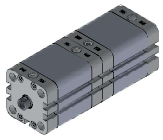


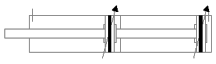


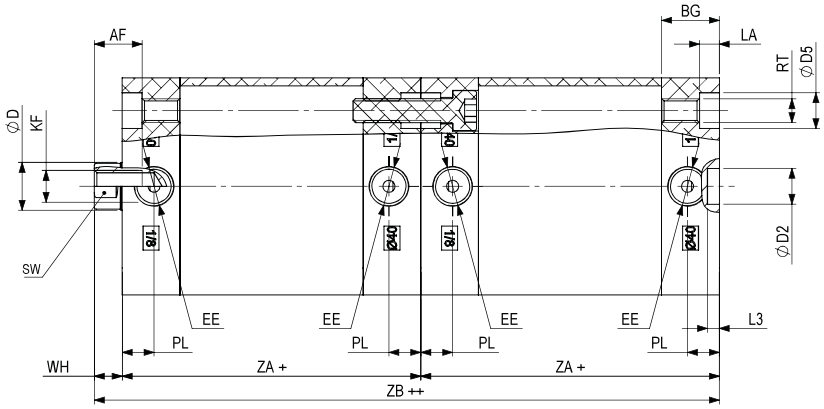
Ø	E	ØD2	RT	ØD5	KF	ØD	EE	PL	BG	TG	SW	L3	AF	WH	ZA	AM	KK	ZB	LA
20	36	9	M5	7,5	M6	10	M5	7,5	11,8	22	9	3	10	6	37	16	M8X1,25	80	4,5
25	40	9	M5	7,5	M6	10	M5	7,5	12,8	26	9	3	10	6	39	16	M8X1,25	84	4,5
32	49	9	M6	9	M8	12	1/8 G	7,5	14	32,5	10	3	12	7	44	19	M10X1,25	95	4,5
40	54,5	9	M6	9	M8	12	1/8 G	8	14,5	38	10	3	12	7	45	19	M10X1,25	97	5
50	65,5	12	M8	10,5	M10	16	1/8 G	8	14,5	46,5	13	4	16	8	45	22	M12X1,25	98	5
63	77	12	M8	10,5	M10	16	1/8 G	7,5	13,8	56,5	13	4	16	8	49	22	M12X1,25	106	5
80	95,5	12	M10	13,5	M12	20	1/8 G	8	15	72	17	4	20	10	54	28	M16X1,5	118	3
100	113,5	12	M10	13,5	M12	25	1/8 G	10,5	19,5	89	21	4	20	10	67	28	M16X1,5	144	3

+ = sommare corsa / *plus stroke length* ; **(+A) = corsa 1** / *stroke 1* ; **(+B) = corsa 2** / *stroke 2*

TANDEM DOPPIA SPINTA
DOUBLE THRUST TANDEM







Ø	E	ØD2	RT	ØD5	KF	ØD	EE	PL	BG	TG	SW	L3	AF	WH	ZA	AM	KK	ZB	LA
20	36	9	M5	7,5	M6	10	M5	7,5	11,8	22	9	3	10	6	37	16	M8X1,25	80	4,5
25	40	9	M5	7,5	M6	10	M5	7,5	12,8	26	9	3	10	6	39	16	M8X1,25	84	4,5
32	49	9	M6	9	M8	12	1/8 G	7,5	14	32,5	10	3	12	7	44	19	M10X1,25	95	4,5
40	54,5	9	M6	9	M8	12	1/8 G	8	14,5	38	10	3	12	7	45	19	M10X1,25	97	5
50	65,5	12	M8	10,5	M10	16	1/8 G	8	14,5	46,5	13	4	16	8	45	22	M12X1,25	98	5
63	77	12	M8	10,5	M10	16	1/8 G	7,5	13,8	56,5	13	4	16	8	49	22	M12X1,25	106	5
80	95,5	12	M10	13,5	M12	20	1/8 G	8	15	72	17	4	20	10	54	28	M16X1,5	118	3
100	113,5	12	M10	13,5	M12	25	1/8 G	10,5	19,5	89	21	4	20	10	67	28	M16X1,5	144	3

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

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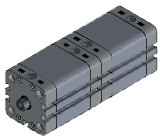
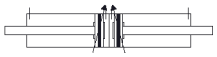
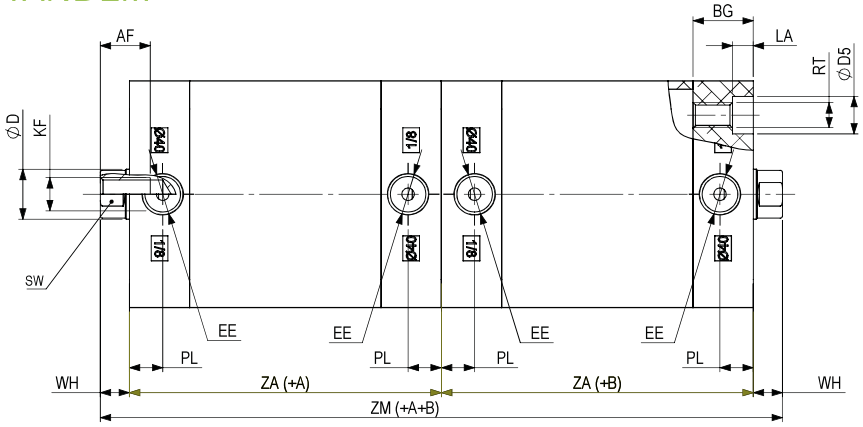
TANDEM BACK TO BACK
BACK TO BACK TANDEM



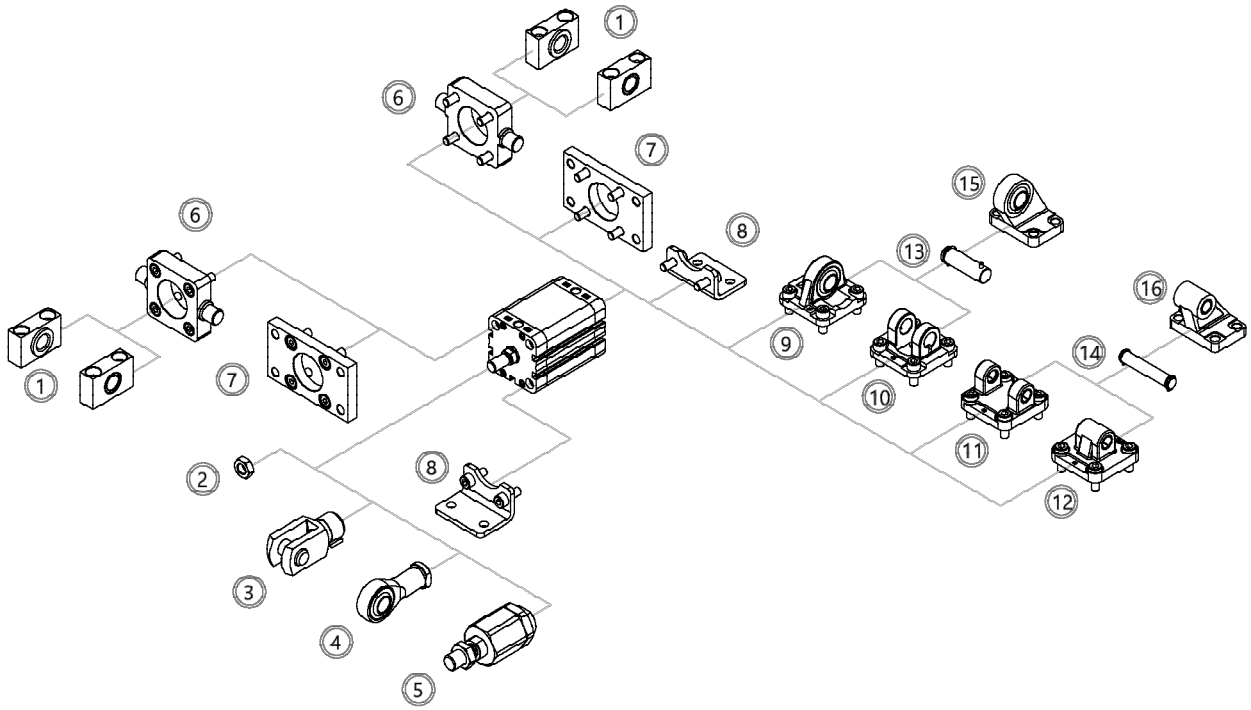




Ø	E	ØD2	RT	ØD5	KF	ØD	EE	PL	BG	TG	SW	L3	AF	WH	ZA	AM	KK	ZM	LA
20	36	9	M5	7,5	M6	10	M5	7,5	11,8	22	9	3	10	6	37	16	M8X1,25	86	4,5
25	40	9	M5	7,5	M6	10	M5	7,5	12,8	26	9	3	10	6	39	16	M8X1,25	90	4,5
32	49	9	M6	9	M8	12	1/8 G	7,5	14	32,5	10	3	12	7	44	19	M10X1,25	102	4,5
40	54,5	9	M6	9	M8	12	1/8 G	8	14,5	38	10	3	12	7	45	19	M10X1,25	104	5
50	65,5	12	M8	10,5	M10	16	1/8 G	8	14,5	46,5	13	4	16	8	45	22	M12X1,25	106	5
63	77	12	M8	10,5	M10	16	1/8 G	7,5	13,8	56,5	13	4	16	8	49	22	M12X1,25	114	5
80	95,5	12	M10	13,5	M12	20	1/8 G	8	15	72	17	4	20	10	54	28	M16X1,5	128	3
100	113,5	12	M10	13,5	M12	25	1/8 G	10,5	19,5	89	21	4	20	10	67	28	M16X1,5	154	3

+ = sommare corsa / *plus stroke length* ; **(+A) = corsa 1** / *stroke 1* ; **(+B) = corsa 2** / *stroke 2*

ACCESSORI DI FISSAGGIO
MOUNTING ACCESSORIES



	Descrizione *Description*	Alluminio *Aluminum*	Acciaio *Steel*	Acciaio inox *Stainless steel*
1	**Supporto per cerniera intermedia AT4** *Support for intermediate hinge AT4*	-	177	-
2	**Dado stelo** *Piston rod nut*	-	159	186
3	**Forcella** *Clevis*	-	157	185
4	**Testa a snodo** *Rod end*	-	158	185
5	**Giunto autoallineante** *Self-aligning joint*	-	158	-
6	**Cerniera anteriore-posteriore MT5/MT6** *Front-rear trunnion MT5/MT6*	-	175	-
7	**Flangia MF1-MF2** *Flange MF1-MF2*	-	173	195
8	**Piedino basso MS1** *Low rise pedestral MS1*	-	173	195
9	**Cerniera maschio snodata MP6** *Male hinge with spherical head MP6*	167	172	194
10	**Cerniera femmina stretta AB6** *Narrow female hinge AB6*	167	171	193
11	**Cerniera femmina MP2** *Female hinge MP2*	165	170	191
12	**Cerniera maschio MP4** *Male hinge MP4*	165 - 168	170	191
13	**Perno antirotazione AA6** *Not rotating pin AA6*	-	168	193
14	**Perno ISO AA4** *ISO Pin AA4*	-	166	192
15	**Articolazione a squadra con testina snodata DIN 648K** *Square joint w spherical head DIN 648K*	-	172	194
16	**Articolazione a squadra AB7** *Square join AB7*	166	171	192

CILINDRI COMPATTI ISO21287 Ø20-100
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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*
Viti fissaggio testate / *Locking screws*
Tappi protezione alimentazioni / *Air supply protection caps*

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

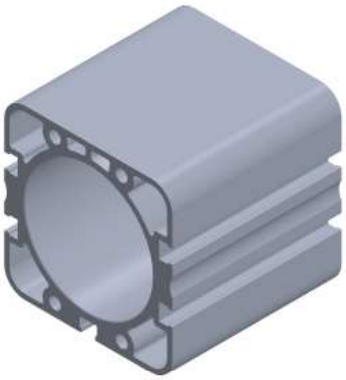
BARRA STELO
PISTON ROD BAR

Ø cilindro *Ø cylinder*	Barra stelo in AISI303 *AISI303 piston rod bar*	Barra stelo in AISI316 *AISI316 piston rod bar*	Ø
20	V30BRT0310000	V30BRT0510000	10
25	V30BRT0310000	V30BRT0510000	10
32	V30BRT0312000	V30BRT0512000	12
40	V30BRT0312000	V30BRT0512000	12
50	V30BRT0316000	V30BRT0516000	16
63	V30BRT0316000	V30BRT0516000	16
80	V30BRT0320000	V30BRT0520000	20
100	V30BRT0325000	V30BRT0525000	25

Barre lunghezza 3 metri
3 meter long bars

BARRA TUBO
TUBE BAR

Ø	Barra tubo in alluminio anodizzato *Anodized aluminum tube bar*
20	V30TG10020000
25	V30TG10025000
32	V30TG10320000
40	V30TG10040000
50	V30TG10050000
63	V30TG10063000
80	V30TG10080000
100	V30TG100A0000



Barre lunghezza 3 metri
3 meter long bars

Barre tubo e barre stelo disponibili anche lavorate e tagliate a misura/corsa
Tube bars and piston rod bars available also worked and cut at lenght/stroke