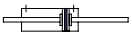
CILINDRI COMPATTI ISO 21287 Ø20-100 ISO 21287 COMPACT CYLINDERS Ø20-100



Cilindri compatti a norma ISO 21287.
Disponibili in versione magnetica, semplice o doppio effetto, a stelo singolo o passante, anti rotazione o non.
Compatibile con la gamma di accessori ISO 15552.
Su richiesta sono fornibili in varie esecuzioni speciali.

ISO 21287 compact cylinders.
Available with magnet, single or double acting, single or through piston rod, non-rotating or not.
Compatible with ISO 15552 mounting accessories.
Special versions are available.

VERSIONE
VERSION

CDEM		CDEMP	
CSEM		CSEMT	

INFORMAZIONI TECNICHE
TECHNICAL INFORMATION

Testate Covers	**Alluminio pressofuso verniciato** Painted die-casted aluminium
Tubo Tube	**Alluminio anodizzato** Anodized aluminium
Guarnizioni Seals	**Poliuretano - NBR** Polyurethane - NBR
Boccola guida Guiding bush	**Bronzo sinterizzato** Sintered bronze
Stelo Piston rod	**Acciaio inox AISI303** AISI303 Stainless steel
Pressione MAX MAX pressure	**10 bar**
Temperatura di impiego Working temperature	**-20°C +80°C con aria secca** -20°C +80°C with dry air
Fluido Working fluid	**Aria compressa filtrata e lubrificata e non** Filtered and lubricated or not compressed air

CHIAVI DI CODIFICA
CYLINDERS KEY CODE

CDEM	32	100	KN	F	V

Versione Version		Diametro Diameter	Corsa Stroke	Tipo costruttivo Design Type		Filettatura stelo Piston rod thread		Guarnizioni Seals	
CSEM	**Semplice effetto molla anteriore magnetico** Single acting front spring magnetic	20	0...2700	KN	**ISO 21287 standard** ISO 21287 standard	F	**Filettatura femmina** Female thread	-	**Standard**
CDEM	**Doppio effetto magnetico** Double acting magnetic	25		KNR	**Versione Antirotazione** Non-rotating version	M	**Filettatura maschio** Male thread	VG	**Guarnizione stelo FKM** FKM rod seal
CSEMT	**Semplice effetto molla posteriore magnetico** Single acting rear spring magnetic	32							
CDEMP	**Doppio effetto stelo passante magnetico** Double acting through rod magnetic	40							
		50							
		63							
		80							
		100							

CORSE STANDARD CILINDRO DOPPIO EFFETTO
STANDARD STROKES DOUBLE ACTING CYLINDER

Ø (mm)	Corse standard (mm) Standard strokes (mm)								
20	5	10	15	20	25	30	40	50	60
25	5	10	15	20	25	30	40	50	60
32	5	10	15	20	25	30	40	50	60
40	5	10	15	20	25	30	40	50	60
50	5	10	15	20	25	30	40	50	60
63	5	10	15	20	25	30	40	50	60
80	5	10	15	20	25	30	40	50	60
100	5	10	15	20	25	30	40	50	60

FORZE TEORICHE A 6 BAR
THEORETICAL FORCES AT 6 BAR

Ø (mm)	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

FORZE TEORICHE DELLE MOLLE
THEORETICAL SPRING FORCES

	Molla anteriore Front spring										Molla posteriore Rear spring									
	Corsa Stroke 5		Corsa Stroke 10		Corsa Stroke 15		Corsa Stroke 20		Corsa Stroke 25		Corsa Stroke 5		Corsa Stroke 10		Corsa Stroke 15		Corsa Stroke 20		Corsa Stroke 25	
Ø (mm)	F1 (N)	F2(N)	F1 (N)	F2(N)	F1 (N)	F2(N)	F1 (N)	F2(N)	F1 (N)	F2(N)	F1 (N)	F2(N)	F1 (N)	F2(N)	F1 (N)	F2(N)	F1 (N)	F2(N)	F1 (N)	F2(N)
20	8	9	6	9	6	9	5	9	4	9	8	9	6	9	6	9	5	9	4	9
25	19	22	16	22	13	22	10	22	7	22	19	22	16	22	13	22	10	22	7	22
32	24	27	21	27	18	27	14	27	11	27	24	27	21	27	18	27	14	27	11	27
40	33	36	29	36	26	36	23	36	19	36	33	36	29	36	26	36	23	36	19	36
50	50	54	45	54	41	54	37	54	32	54	50	54	45	54	41	54	37	54	32	54
63	69	76	62	76	55	76	48	76	41	76	69	76	62	76	55	76	48	76	41	76
80	87	96	81	96	73	96	66	96	58	96	87	96	81	96	73	96	66	96	58	96
100	87	96	79	96	71	96	63	96	55	96	87	96	79	96	71	96	63	96	55	96

VARIANTI
VARIANTS

Simbolo Symbol	Caratteristiche Features
WH	Stelo prolungato Piston rod extension
	Basso attrito Low friction
	Stelo in acciaio inox Stainless steel piston rod
FDA	Lubrificazione FDA FDA lubrication
	Filettature e steli su richiesta Custom made thread or piston rod

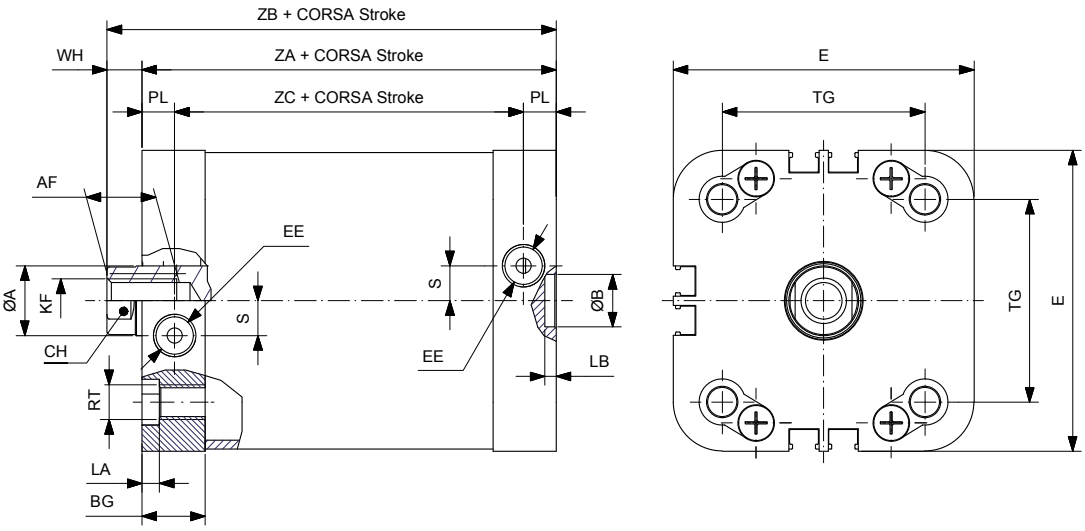
Simbolo Symbol	Caratteristiche Features
	Guarnizione stelo ad elevata resistenza chimica Rod seal with increased chemical resistance
C1 + C2	Configurazione tandem a più posizioni Multi position configuration
2xF	Configurazione tandem a doppia spinta Double thrust tandem configuration
	Configurazione tandem contrapposti anteriore Front opposed tandem configuration
	Configurazione tandem contrapposti posteriore Rear opposed tandem configuration

CILINDRI COMPATTI ISO 21287 Ø20-100 ISO 21287 COMPACT CYLINDERS Ø20-100

SEMPLICE EFFETTO MAGNETICO STELO FILETTTATO FEMMINA
SINGLE ACTING MAGNETIC FEMALE THREADED PISTON ROD

CSEMØ/...KNF

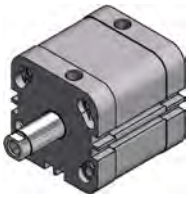


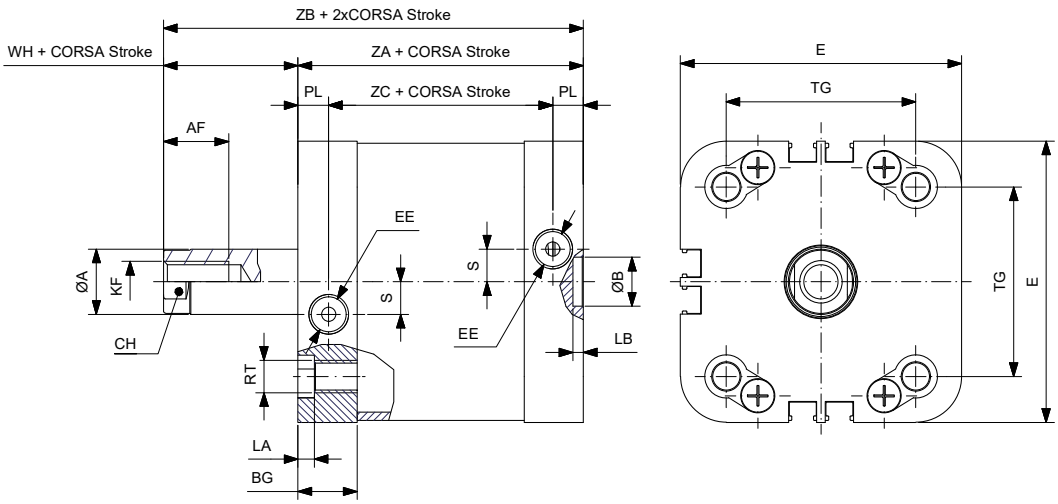


Ømm	ØA	CH	AF	WH	ZA	ZB	ZC	KF	EE	BG	TG	E	RT	LA	PL	ØB	LB	S
20	10	9	10	6	37	43	23	M6X1	M5X0.8	14.25	22	36	M5X0.8	3	7	9	2.1	2.5
25	10	9	10	6	39	45	25	M6X1	M5X0.8	14	26	39.5	M5X0.8	3	7	9	2.1	2.5
32	12	10	12	7	44	51	28.5	M8X1.25	1/8"G	15.5	32.5	49.5	M6X1	3.5	7.75	9	2.1	6
40	12	10	12	7	45	52	29.5	M8X1.25	1/8"G	15.5	38	54	M6X1	3.5	7.75	9	2.1	8
50	16	13	16	8	45	53	29.5	M10X1.5	1/8"G	14.5	46.5	69	M8X1.25	4	7.5	12	2.6	8
63	16	13	16	8	49	57	33.5	M10X1.5	1/8"G	15.5	56.5	79	M8X1.25	4	7.75	12	2.6	11.5
80	20	17	20	10	54	64	36.5	M12X1.75	1/8"G	17.5	72	94.5	M10X1.5	5	8.75	12	2.6	11.5
100	25	21	20	10	67	77	46	M12X1.75	1/8"G	21	89	114.5	M10X1.5	5	10.5	12	2.6	20

SEMPLICE EFFETTO MOLLA POSTERIORE MAGNETICO STELO FILETTTATO FEMMINA
SINGLE ACTING REAR SPRING MAGNETIC FEMALE THREADED PISTON ROD

CSEMTØ/...KNF



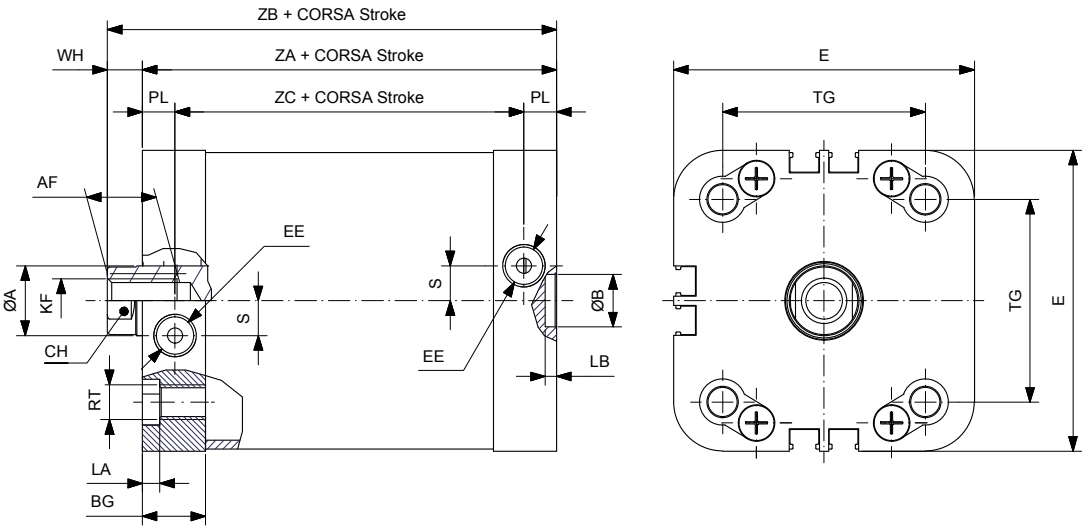


Ømm	ØA	CH	AF	WH	ZA	ZB	ZC	KF	EE	BG	TG	E	RT	LA	PL	ØB	LB	S
20	10	9	10	6	37	43	23	M6X1	M5X0.8	14.25	22	36	M5X0.8	3	7	9	2.1	2.5
25	10	9	10	6	39	45	25	M6X1	M5X0.8	14	26	39.5	M5X0.8	3	7	9	2.1	2.5
32	12	10	12	7	44	51	28.5	M8X1.25	1/8"G	15.5	32.5	49.5	M6X1	3.5	7.75	9	2.1	6
40	12	10	12	7	45	52	29.5	M8X1.25	1/8"G	15.5	38	54	M6X1	3.5	7.75	9	2.1	8
50	16	13	16	8	45	53	29.5	M10X1.5	1/8"G	14.5	46.5	69	M8X1.25	4	7.5	12	2.6	8
63	16	13	16	8	49	57	33.5	M10X1.5	1/8"G	15.5	56.5	79	M8X1.25	4	7.75	12	2.6	11.5
80	20	17	20	10	54	64	36.5	M12X1.75	1/8"G	17.5	72	94.5	M10X1.5	5	8.75	12	2.6	11.5
100	25	21	20	10	67	77	46	M12X1.75	1/8"G	21	89	114.5	M10X1.5	5	10.5	12	2.6	20

DOPPIO EFFETTO MAGNETICO STELO FILETTTATO FEMMINA
DOUBLE ACTING MAGNETIC FEMALE THREADED PISTON ROD

CDEMØ/...KNF



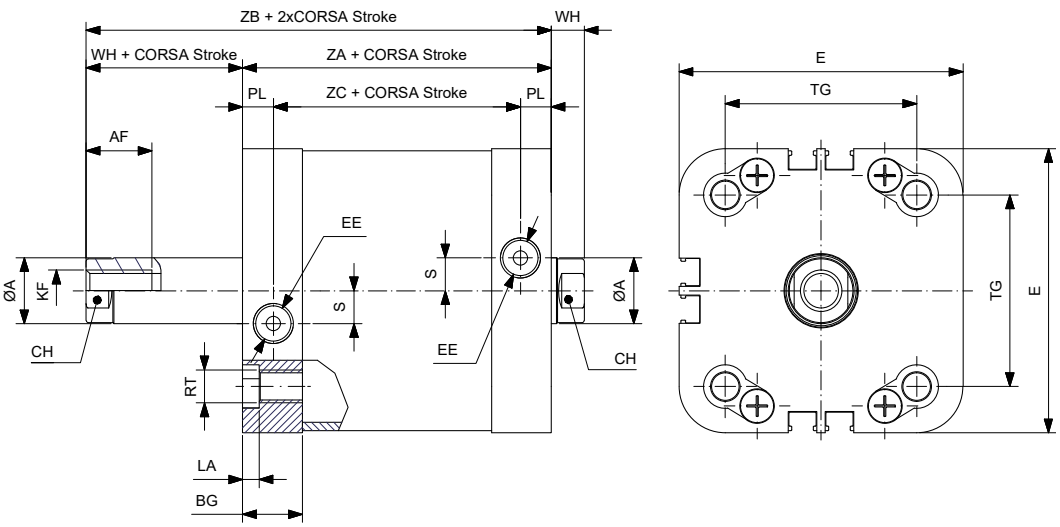


Ømm	ØA	CH	AF	WH	ZA	ZB	ZC	KF	EE	BG	TG	E	RT	LA	PL	ØB	LB	S
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25	10	9	10	6	39	45	25	M6X1	M5X0.8	14	26	39.5	M5X0.8	3	7	9	2.1	2.5
32	12	10	12	7	44	51	28.5	M8X1.25	1/8"G	15.5	32.5	49.5	M6X1	3.5	7.75	9	2.1	6
40	12	10	12	7	45	52	29.5	M8X1.25	1/8"G	15.5	38	54	M6X1	3.5	7.75	9	2.1	8
50	16	13	16	8	45	53	29.5	M10X1.5	1/8"G	14.5	46.5	69	M8X1.25	4	7.5	12	2.6	8
63	16	13	16	8	49	57	33.5	M10X1.5	1/8"G	15.5	56.5	79	M8X1.25	4	7.75	12	2.6	11.5
80	20	17	20	10	54	64	36.5	M12X1.75	1/8"G	17.5	72	94.5	M10X1.5	5	8.75	12	2.6	11.5
100	25	21	20	10	67	77	46	M12X1.75	1/8"G	21	89	114.5	M10X1.5	5	10.5	12	2.6	20

DOPPIO EFFETTO PASSANTE MAGNETICO STELO FILETTTATO FEMMINA
DOUBLE ACTING THROUGH PISTON ROD MAGNETIC FEMALE THREADED PISTON ROD

CDEMPØ/...KNF



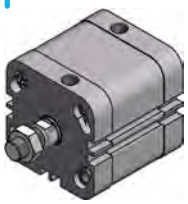


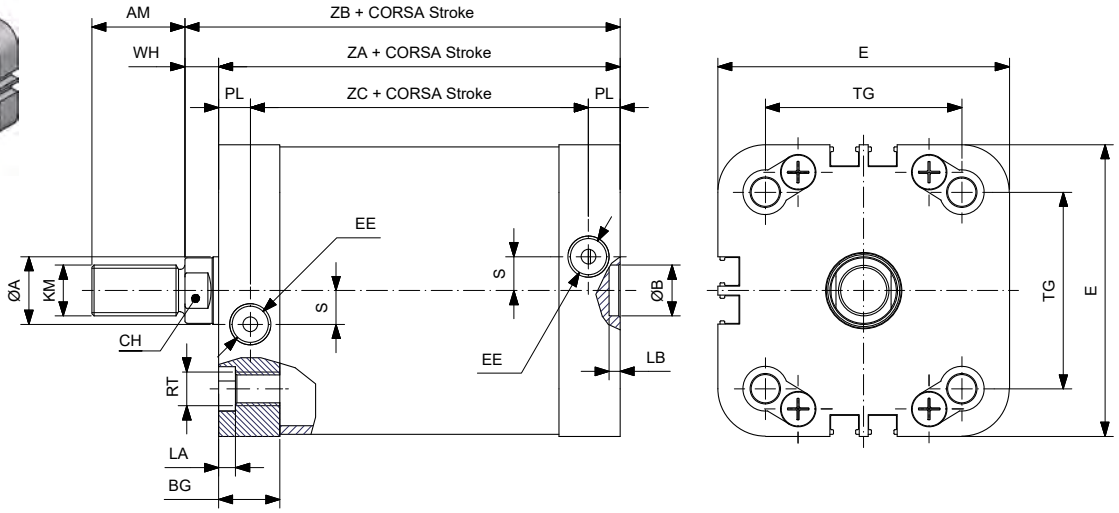
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25	10	9	10	6	39	45	25	M6X1	M5X0.8	14	26	39.5	M5X0.8	3	7	2.5
32	12	10	12	7	44	51	28.5	M8X1.25	1/8"G	15.5	32.5	49.5	M6X1	3.5	7.75	6
40	12	10	12	7	45	52	29.5	M8X1.25	1/8"G	15.5	38	54	M6X1	3.5	7.75	8
50	16	13	16	8	45	53	29.5	M10X1.5	1/8"G	14.5	46.5	69	M8X1.25	4	7.5	8
63	16	13	16	8	49	57	33.5	M10X1.5	1/8"G	15.5	56.5	79	M8X1.25	4	7.75	11.5
80	20	17	20	10	54	64	36.5	M12X1.75	1/8"G	17.5	72	94.5	M10X1.5	5	8.75	11.5
100	25	21	20	10	67	77	46	M12X1.75	1/8"G	21	89	114.5	M10X1.5	5	10.5	20

CILINDRI COMPATTI ISO 21287 Ø20-100 ISO 21287 COMPACT CYLINDERS Ø20-100

SEMPLICE EFFETTO MAGNETICO STELO FILETTTATO MASCHIO
SINGLE ACTING MAGNETIC MALE THREADED PISTON ROD

CSEMØ/...KNM

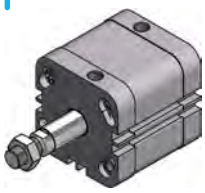


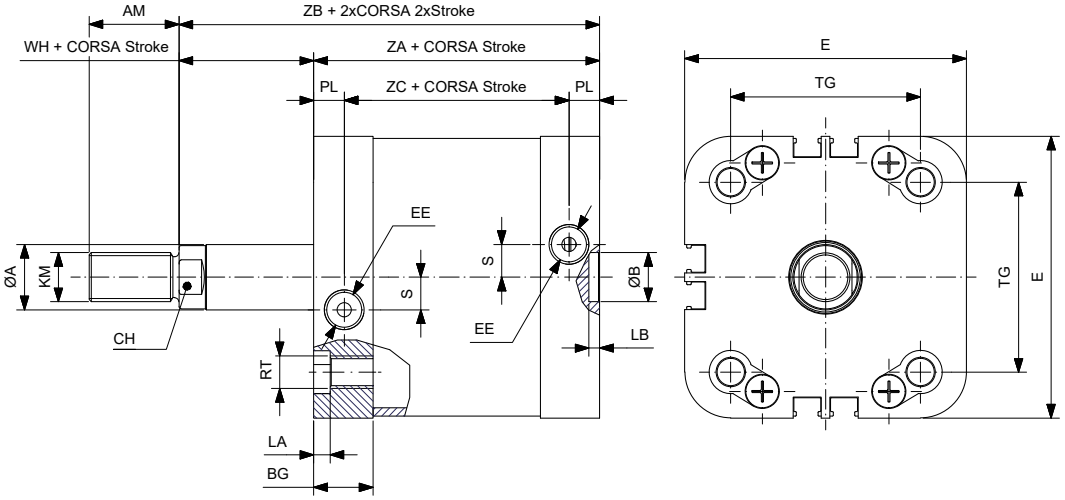


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25	10	9	16	6	39	45	25	M8X1.25	M5X0.8	14	26	39.5	M5X0.8	3	7	9	2.1	2.5
32	12	10	19	7	44	51	28.5	M10X1.25	1/8"G	15.5	32.5	49.5	M6X1	3.5	7.75	9	2.1	6
40	12	10	19	7	45	52	29.5	M10X1.25	1/8"G	15.5	38	54	M6X1	3.5	7.75	9	2.1	8
50	16	13	22	8	45	53	29.5	M12X1.25	1/8"G	14.5	46.5	69	M8X1.25	4	7.5	12	2.6	8
63	16	13	22	8	49	57	33.5	M12X1.25	1/8"G	15.5	56.5	79	M8X1.25	4	7.75	12	2.6	11.5
80	20	17	28	10	54	64	36.5	M16X1.5	1/8"G	17.5	72	94.5	M10X1.5	5	8.75	12	2.6	11.5
100	25	21	28	10	67	77	46	M16X1.5	1/8"G	21	89	114.5	M10X1.5	5	10.5	12	2.6	20

SEMPLICE EFFETTO MOLLA POSTERIORE MAGNETICO STELO FILETTTATO MASCHIO
SINGLE ACTING REAR SPRING MAGNETIC MALE THREADED PISTON ROD

CSEMTØ/...KNM

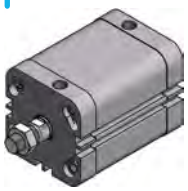


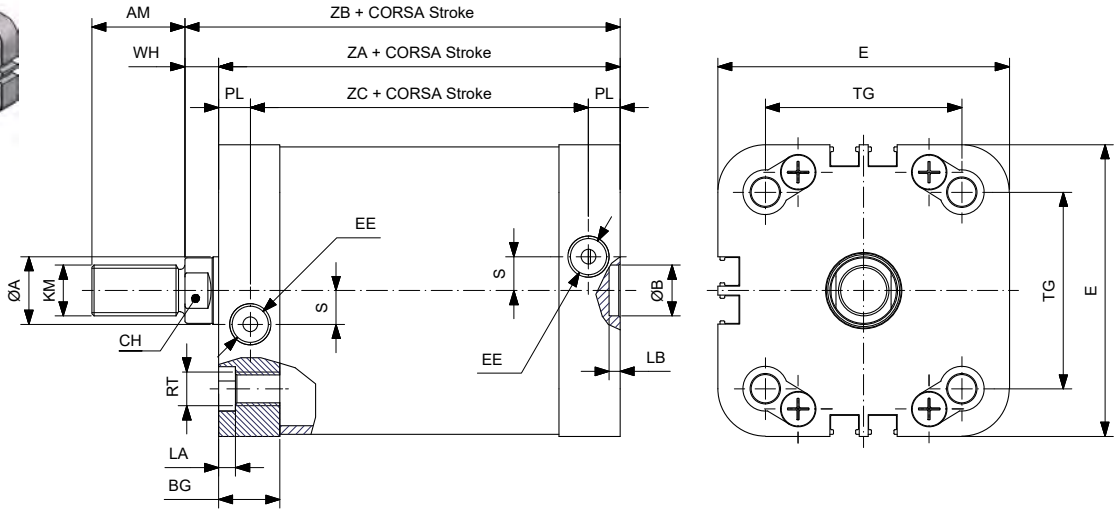


Ømm	ØA	CH	AM	WH	ZA	ZB	ZC	KM	EE	BG	TG	E	RT	LA	PL	ØB	LB	S
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25	10	9	16	6	39	45	25	M8X1.25	M5X0.8	14	26	39.5	M5X0.8	3	7	9	2.1	2.5
32	12	10	19	7	44	51	28.5	M10X1.25	1/8"G	15.5	32.5	49.5	M6X1	3.5	7.75	9	2.1	6
40	12	10	19	7	45	52	29.5	M10X1.25	1/8"G	15.5	38	54	M6X1	3.5	7.75	9	2.1	8
50	16	13	22	8	45	53	29.5	M12X1.25	1/8"G	14.5	46.5	69	M8X1.25	4	7.5	12	2.6	8
63	16	13	22	8	49	57	33.5	M12X1.25	1/8"G	15.5	56.5	79	M8X1.25	4	7.75	12	2.6	11.5
80	20	17	28	10	54	64	36.5	M16X1.5	1/8"G	17.5	72	94.5	M10X1.5	5	8.75	12	2.6	11.5
100	25	21	28	10	67	77	46	M16X1.5	1/8"G	21	89	114.5	M10X1.5	5	10.5	12	2.6	20

DOPPIO EFFETTO MAGNETICO STELO FILETTTATO MASCHIO
DOUBLE ACTING MAGNETIC MALE THREADED PISTON ROD

CDEMØ/...KNM

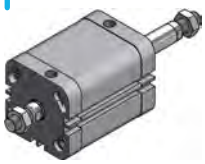


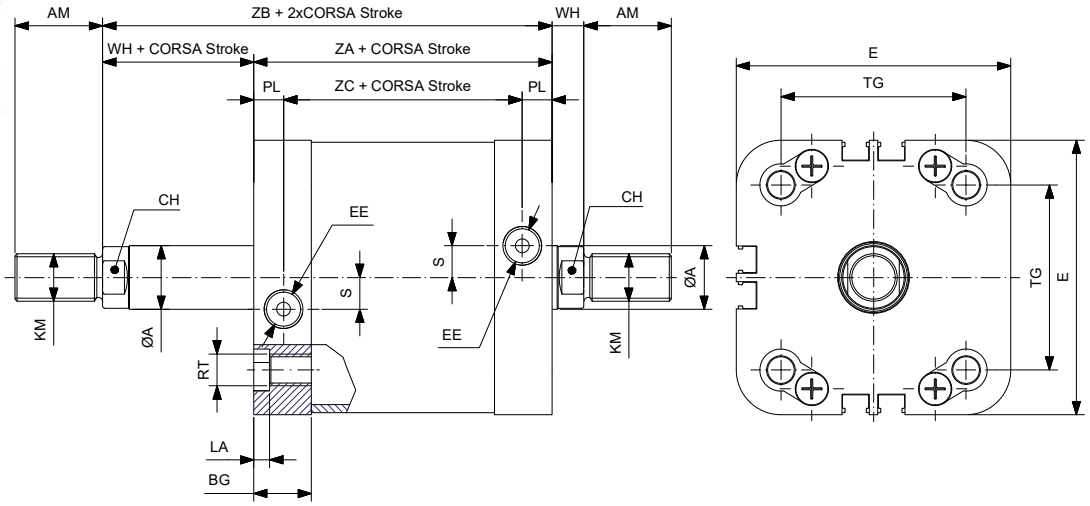


Ømm	ØA	CH	AM	WH	ZA	ZB	ZC	KM	EE	BG	TG	E	RT	LA	PL	ØB	LB	S
20	10	9	16	6	37	43	23	M8X1.25	M5X0.8	14.25	22	36	M5X0.8	3	7	9	2.1	2.5
25	10	9	16	6	39	45	25	M8X1.25	M5X0.8	14	26	39.5	M5X0.8	3	7	9	2.1	2.5
32	12	10	19	7	44	51	28.5	M10X1.25	1/8"G	15.5	32.5	49.5	M6X1	3.5	7.75	9	2.1	6
40	12	10	19	7	45	52	29.5	M10X1.25	1/8"G	15.5	38	54	M6X1	3.5	7.75	9	2.1	8
50	16	13	22	8	45	53	29.5	M12X1.25	1/8"G	14.5	46.5	69	M8X1.25	4	7.5	12	2.6	8
63	16	13	22	8	49	57	33.5	M12X1.25	1/8"G	15.5	56.5	79	M8X1.25	4	7.75	12	2.6	11.5
80	20	17	28	10	54	64	36.5	M16X1.5	1/8"G	17.5	72	94.5	M10X1.5	5	8.75	12	2.6	11.5
100	25	21	28	10	67	77	46	M16X1.5	1/8"G	21	89	114.5	M10X1.5	5	10.5	12	2.6	20

DOPPIO EFFETTO PASSANTE MAGNETICO STELO FILETTTATO MASCHIO
DOUBLE ACTING THROUGH PISTON ROD MAGNETIC MALE THREADED PISTON ROD

CDEMPØ/...KNM



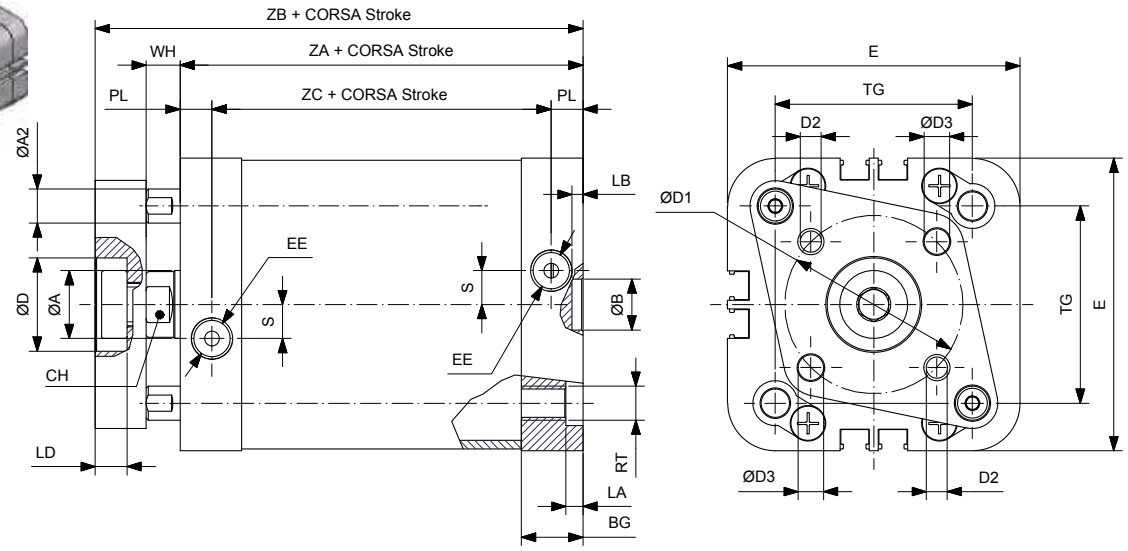


Ømm	ØA	CH	AM	WH	ZA	ZB	ZC	KM	EE	BG	TG	E	RT	LA	PL	S
20	10	9	16	6	37	43	23	M8X1.25	M5X0.8	14.25	22	36	M5X0.8	3	7	2.5
25	10	9	16	6	39	45	25	M8X1.25	M5X0.8	14	26	39.5	M5X0.8	3	7	2.5
32	12	10	19	7	44	51	28.5	M10X1.25	1/8"G	15.5	32.5	49.5	M6X1	3.5	7.75	6
40	12	10	19	7	45	52	29.5	M10X1.25	1/8"G	15.5	38	54	M6X1	3.5	7.75	8
50	16	13	22	8	45	53	29.5	M12X1.25	1/8"G	14.5	46.5	69	M8X1.25	4	7.5	8
63	16	13	22	8	49	57	33.5	M12X1.25	1/8"G	15.5	56.5	79	M8X1.25	4	7.75	11.5
80	20	17	28	10	54	64	36.5	M16X1.5	1/8"G	17.5	72	94.5	M10X1.5	5	8.75	11.5
100	25	21	28	10	67	77	46	M16X1.5	1/8"G	21	89	114.5	M10X1.5	5	10.5	20

DOPPIO EFFETTO MAGNETICO ANTIROTAZIONE
NON-ROTATING DOUBLE ACTING MAGNETIC

CDEMØ/...KNR



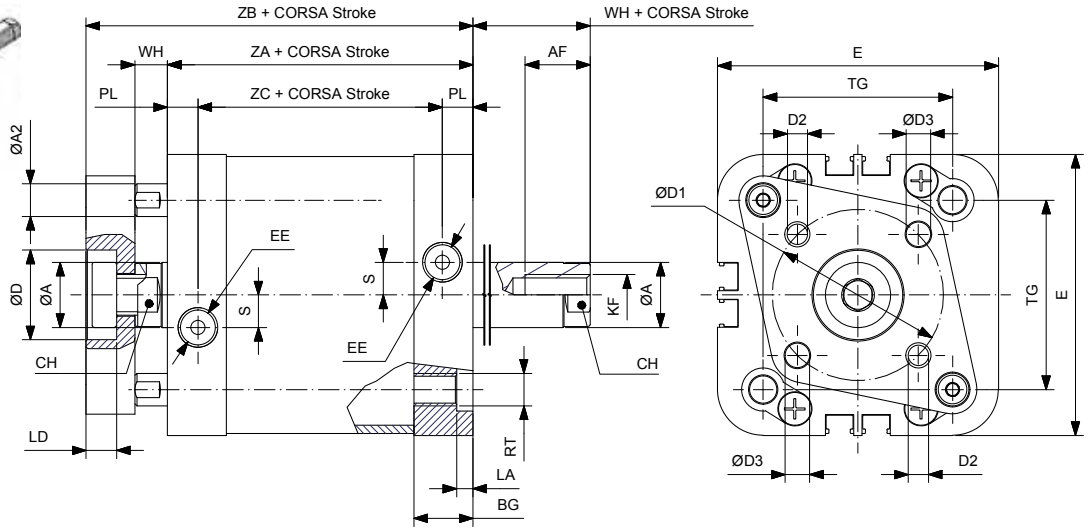


Ømm	ØA	ØD	LD	ØA2	WH	ZA	ZB	ZC	EE	PL	S	RT	BG	LA	TG	E	ØD1	D2	ØD3	ØB	LB	CH
20	10	10.5	5.5	5	6	37	51	23	M5X0.8	7	2.5	M5X0.8	14.25	3	22	36	17	M4X0.7	4	9	2.1	9
25	10	14	5.5	5	6	39	53	25	M5X0.8	7	2.5	M5X0.8	14	3	26	39.5	22	M5X0.8	5	9	2.1	9
32	12	17	6.5	5	7	44	61	28.5	1/8"G	7.75	6	M6X1	15.5	3.5	32.5	49.5	28	M5X0.8	5	9	2.1	10
40	12	17	6	6	7	45	62	29.5	1/8"G	7.75	8	M6X1	15.5	3.5	38	54	33	M5X0.8	5	9	2.1	10
50	16	22	7.5	8	8	45	65	29.5	1/8"G	7.5	8	M8X1.25	14.5	4	46.5	69	42	M6X1	6	12	2.6	13
63	16	22	7.5	8	8	49	69	33.5	1/8"G	7.75	11.5	M8X1.25	15.5	4	56.5	79	50	M6X1	6	12	2.6	13
80	20	24	10.5	10	10	54	78	36.5	1/8"G	8.75	11.5	M10X1.5	17.5	5	72	94.5	65	M8X1.25	8	12	2.6	17
100	25	24	10.5	10	10	67	91	46	1/8"G	10.5	20	M10X1.5	21	5	89	114.5	80	M10X1.25	10	12	2.6	21

DOPPIO EFFETTO PASSANTE MAGNETICO ANTIROTAZIONE FILETTTATO FEMMINA
NON-ROTATING DOUBLE ACTING THROUGH PISTON ROD MAGNETIC FEMALE THREAD

CDEMPØ/...KNRF



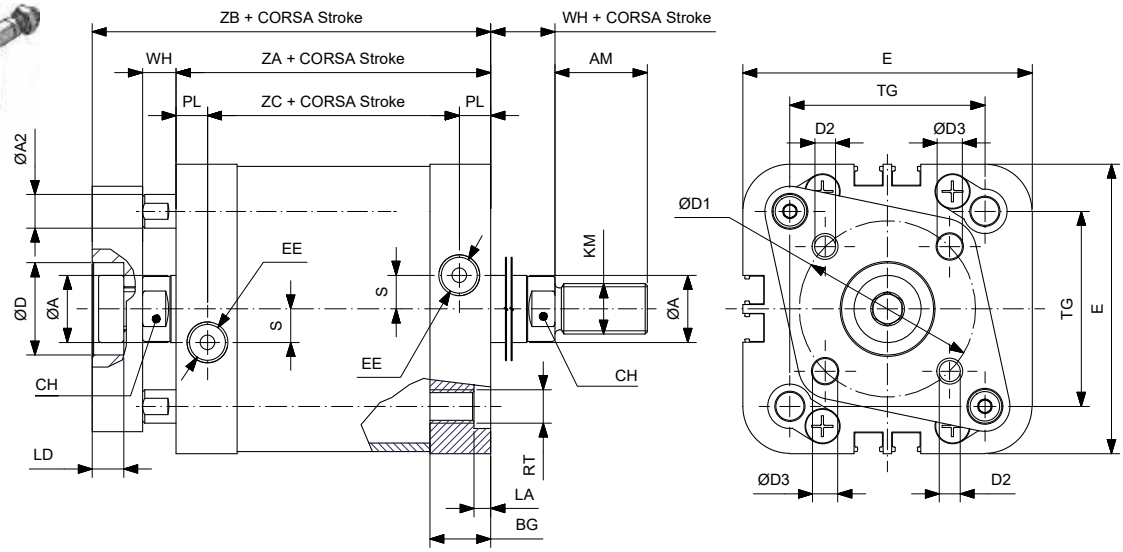


Ømm	ØA	KF	AF	ØD	LD	ØA2	WH	ZA	ZB	ZC	EE	PL	S	RT	BG	LA	TG	E	ØD1	D2	ØD3	CH
20	10	M6X1	10	10.5	5.5	5	6	37	51	23	M5X0.8	7	2.5	M5X0.8	14.25	3	22	36	17	M4X0.7	4	9
25	10	M6X1	10	14	5.5	5	6	39	53	25	M5X0.8	7	2.5	M5X0.8	14	3	26	39.5	22	M5X0.8	5	9
32	12	M8X1.25	12	17	6.5	5	7	44	61	28.5	1/8"G	7.75	6	M6X1	15.5	3.5	32.5	49.5	28	M5X0.8	5	10
40	12	M8X1.25	12	17	6	6	7	45	62	29.5	1/8"G	7.75	8	M6X1	15.5	3.5	38	54	33	M5X0.8	5	10
50	16	M10X1.5	16	22	7.5	8	8	45	65	29.5	1/8"G	7.5	8	M8X1.25	14.5	4	46.5	69	42	M6X1	6	13
63	16	M10X1.5	16	22	7.5	8	8	49	69	33.5	1/8"G	7.75	11.5	M8X1.25	15.5	4	56.5	79	50	M6X1	6	13
80	20	M12X1.75	20	24	10.5	10	10	54	78	36.5	1/8"G	8.75	11.5	M10X1.5	17.5	5	72	94.5	65	M8X1.25	8	17
100	25	M12X1.75	20	24	10.5	10	10	67	91	46	1/8"G	10.5	20	M10X1.5	21	5	89	114.5	80	M10X1.5	10	21

DOPPIO EFFETTO PASSANTE MAGNETICO ANTIROTAZIONE FILETTTATO MASCHIO
NON-ROTATING DOUBLE ACTING THROUGH PISTON ROD MAGNETIC MALE THREAD

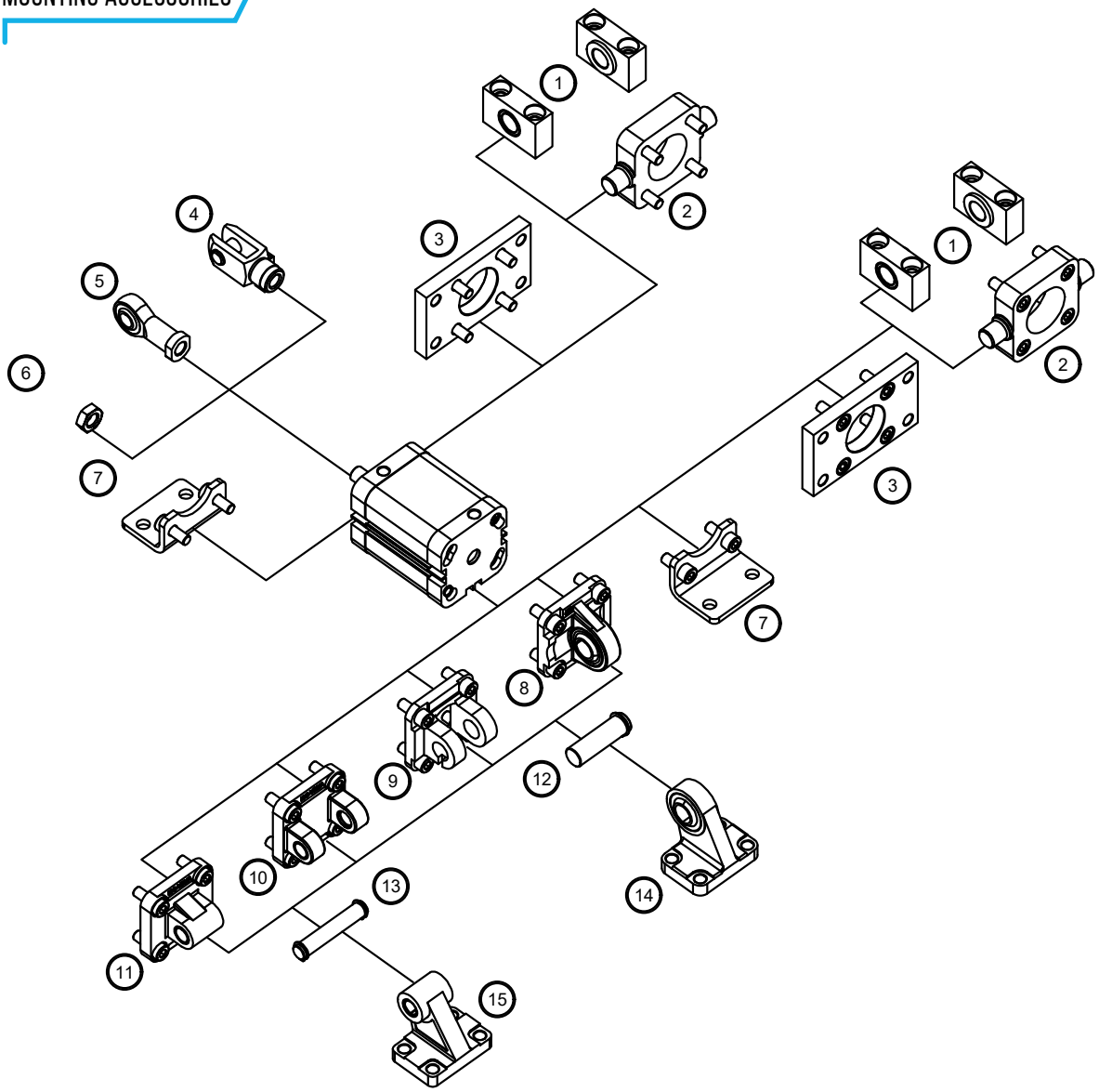
CDEMPØ/...KNRM





Ømm	ØA	KM	AM	ØD	LD	ØA2	WH	ZA	ZB	ZC	EE	PL	S	RT	BG	LA	TG	E	ØD1	D2	ØD3	CH
20	10	M8X1.25	16	10.5	5.5	5	6	37	51	23	M5X0.8	7	2.5	M5X0.8	14.25	3	22	36	17	M4X0.7	4	9
25	10	M8X1.25	16	14	5.5	5	6	39	53	25	M5X0.8	7	2.5	M5X0.8	14	3	26	39.5	22	M5X0.8	5	9
32	12	M10X1.25	19	17	6.5	5	7	44	61	28.5	1/8"G	7.75	6	M6X1	15.5	3.5	32.5	49.5	28	M5X0.8	5	10
40	12	M10X1.25	19	17	6	6	7	45	62	29.5	1/8"G	7.75	8	M6X1	15.5	3.5	38	54	33	M5X0.8	5	10
50	16	M12X1.25	22	22	7.5	8	8	45	65	29.5	1/8"G	7.5	8	M8X1.25	14.5	4	46.5	69	42	M6X1	6	13
63	16	M12X1.25	22	22	7.5	8	8	49	69	33.5	1/8"G	7.75	11.5	M8X1.25	15.5	4	56.5	79	50	M6X1	6	13
80	20	M16X1.5	28	24	10.5	10	10	54	78	36.5	1/8"G	8.75	11.5	M10X1.5	17.5	5	72	94.5	65	M8X1.25	8	17
100	25	M16X1.5	28	24	10.5	10	10	67	91	46	1/8"G	10.5	20	M10X1.5	21	5	89	114.5	80	M10X1.5	10	21

ACCESSORI DI FISSAGGIO
MOUNTING ACCESSORIES



	Descrizione Description	Alluminio Alluminium	Accaio Steel	Accaio inox Stainles steel
1	**Supporto per cerniera intermedia** / Support for intermediate hinge (AT4)	-	141	-
2	**Cerniera oscillante anteriore-posteriore** / Front-rear trunnion (MT5 / MT6)	-	141	-
3	**Flangia** / Flange (MF1-MF2)	-	139	152
4	**Forcella** / Clevis	-	131	147
5	**Testa a snodo** / Rod end	-	132	148
6	**Dado per aste** / Piston rod nut	-	130	146
7	**Piedino basso** / Low-rise pedestal (MS1)	-	138	152
8	**Cerniera maschio snodata** / Male hinge with spherical bearing (MP6)	137	143	-
9	**Cerniera stretta per snodo sferico AB6** / Clevis braket, spherical eye, straight AB6	136	142	-
10	**Cerniera femmina** / Female hinge (MP2)	134	142	150
11	**Cerniera maschio** / Male hinge (MP4)	135	-	151
12	**Perno per cerniera snodata AA6** / Pivot pin, spherical bearing AA6	-	136	-
13	**Perno per cerniera femmina** / Pivot for female hinge (AA4)	-	135	151
14	**Articolazione a squadra con testina snodata DIN 648 K** / Square joint with spherical head DIN 648 K	-	138	-
15	**Articolazione a squadra** / Square joint (AB7)	137	-	151
16	**Giunto autoallineante** / Self-aligning joint	-	131	-