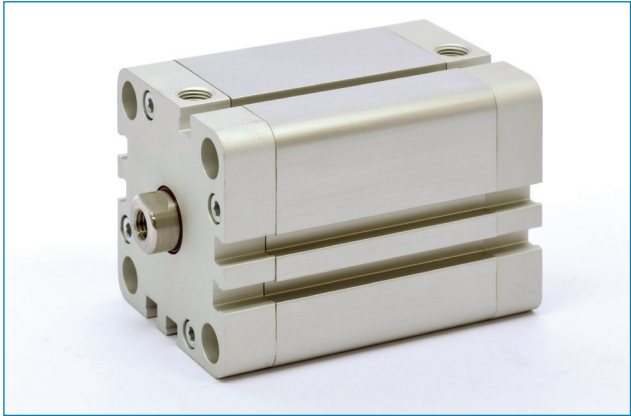




SERIE
C1U

Cilindri compatti UNITOP
UNITOP compact cylinders

Cilindri compatti UNITOP
UNITOP compact cylinders



Chiavi di codifica
Cylinders key code

C 1 U 0 5 0 M 0 0 5 0 D S T

Versione Version		Diametro Diameter	Tipo costruttivo Design type		Corsa Stroke	Versione Version	Varianti Variants	
C1U	Cilindro UNITOP	012	M	Stelo maschio	0-250 mm	A Semplice effetto	ST Standard	
	UNITOP cylinders	016		Male rod		Single acting		
		020	F	Stelo femmina		B Semplice effetto magnetico	EX ATEX	
		025		Female rod		Single acting magnetic		
		032	E	Antirrotazione std		C Doppio effetto	VT Tutte le guarnizioni FKM	
		040		Non-rotating std		Double acting		
		050	N	Antirrotazione maschio		D Doppio effetto magnetico		
		063		Non-rotating male		Double acting magnetic		
		080	G	Antirrotazione femmina		G Semplice effetto molla posteriore		
		100		Non-rotating female		Single acting rear spring		
						H Semplice effetto molla posteriore magnetico		
						Single acting rear spring magnetic		
L Doppio effetto passante								
Double acting through rod								
			M Doppio effetto passante magnetico					
			Double acting through rod magnetic					

Corse standard
Standard strokes

ø	5	10	15	20	25	30	40	50	60	70	80	90	100	125	160	200	250	300	320	350	400	450	500
12	■●	■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●							
16	■●	■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●							
20	■●	■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●	●						
25	■●	■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●	●	●					
32	■●	■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●	●	●	●				
40	■●	■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●	●	●	●	●			
50	■●	■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●	●	●	●	●			
63		■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
80		■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
100		■●	■●	■●	■●	■●	■●	■●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

- = Cilindri semplice effetto - Single acting cylinders
● = Cilindri doppio effetto - Double acting cylinders

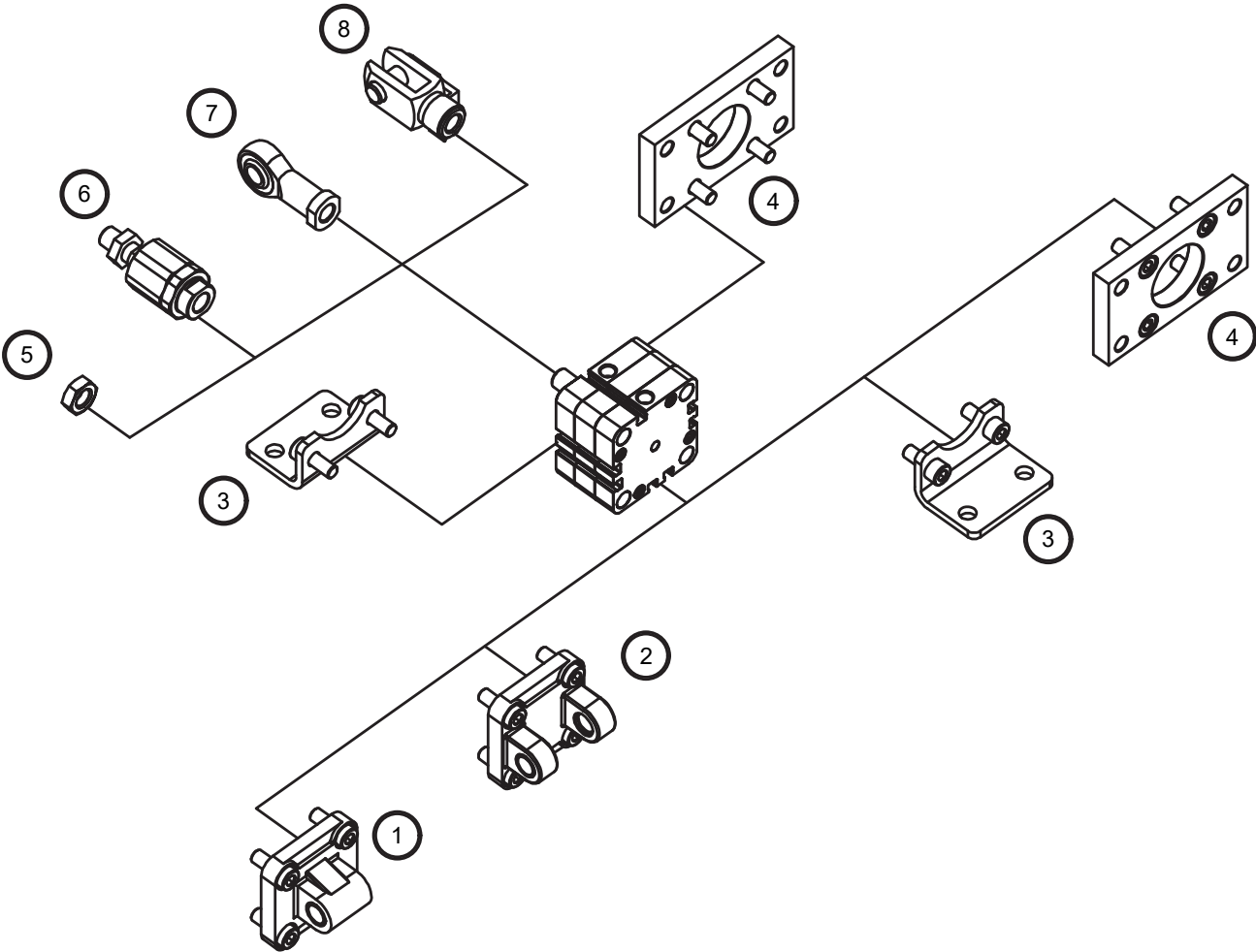
Materiali - Materials	
Testate.....	Alluminio pressofuso verniciato
Covers.....	Painted die-casted aluminium
Tubo.....	Alluminio anodizzato
Tube.....	Anodized aluminium
Pistone.....	Alluminio
Piston.....	Aluminium
Guarnizioni.....	NBR/PU
Seals.....	
Boccola guida.....	Acciaio + PTFE
Guiding bush.....	Steel + PTFE
Stelo.....	Acciaio inox AISI303
Rod.....	AISI303 stainless steel
Caratteristiche tecniche - Technical features	
Fluido.....	Aria compressa filtrata lubrificata e non
Fluid.....	Filtered and lubricated or not compressed air
Temperatura di impiego.....	-30°C +80°C con aria secca
Working temperature.....	-30°C +80°C with dry air
Pressione Max.....	max 10 bar
Max pressure.....	

Forze teoriche a 6 bar
Theoretical forces at 6 bar

Ø	Forza di spinta (N) Thrust force (N)	Forza di trazione (N) Traction force (N)
12	68	51
16	121	104
20	188	141
25	294	247
32	482	414
40	754	633
50	1178	989
63	1869	1681
80	3014	2720
100	4710	4416

Accessori di fissaggio
Mounting accessories

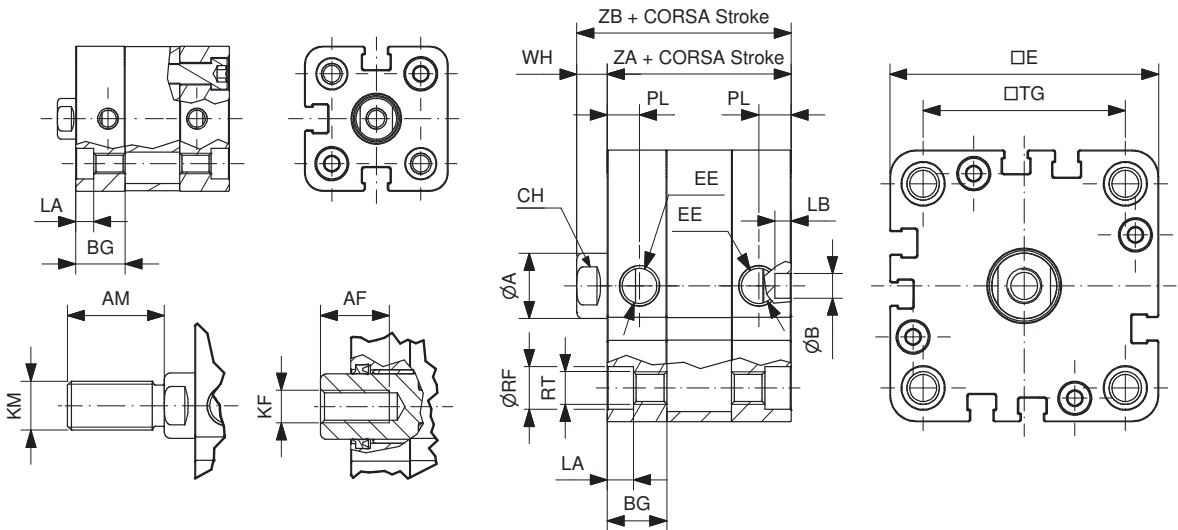
Ø	Accessori in alluminio Aluminium accessories			Accessori in acciaio Steel accessories							
	① Cerniera maschio Male hinge	② Cerniera femmina Female Hinge	④ Flangia Flange	① Cerniera maschio Male hinge	② Cerniera femmina Female Hinge	③ Piedino basso Low foot	④ Flangia Flange	⑤ Dado Nut	⑥ Giunto autoallineante Self-aligning joints	⑦ Testa a snodo Rod end	⑧ Forcella Clevis
12	CMU1216A00	//	APU1216A00	CMU1216S00	CFU1216S00	AFU1216S00	APU1216S00	ANA1216	GASM6X1	TSNDM6X1	FORM6ISO
16	CMU1216A00	//	APU1216A00	CMU1216S00	CFU1216S00	AFU1216S00	APU1216S00	ANA20	GASM8X1.25	TSNDM8X1.25	FORM8ISO
20	CMU20A00	//	APU20A00	CMU20S00	CFU20S00	AFU20S00	APU20S00	ANA25	GASM10X1.25	TSNDM10X1.25	FORM10ISO
25	CMU25A00	//	APU25A00	CMU25S00	CFU25S00	AFU25S00	APU25S00	ANA25	GASM10X1.25	TSNDM10X1.25	FORM10ISO
32	//	CFU32A00	APU32A00	//	CFU32S00	AFU32S00	APU32S00	ANA25	GASM10X1.25	TSNDM10X1.25	FORM10ISO
40	//	CFU40A00	APU40A00	//	CFU40S00	AFU40S00	APU40S00	ANA25	GASM10X1.25	TSNDM10X1.25	FORM10ISO
50	//	CFU50A00	APU50A00	//	CFU50S00	AFU50S00	APU50S00	ANA40B	GASM12X1.25	TSNDM12X1.25	FORM12ISO
63	//	CFU63A00	APU63A00	//	CFU63S00	AFU63S00	APU63S00	ANA40B	GASM12X1.25	TSNDM12X1.25	FORM12ISO
80	CFU80A00		APU80A00	CFU80S00		APU80S00		ANA50B	GASM16X1.5	TSNDM16X1.5	FORM16ISO
100	CFU100A00		APU100A00	CFU100S00		APU100S00		ANA80100	GASM20X1.5	TSNDM20X1.5	FORM20ISO



Semplice effetto
Single acting

ø12-25

ø32-100

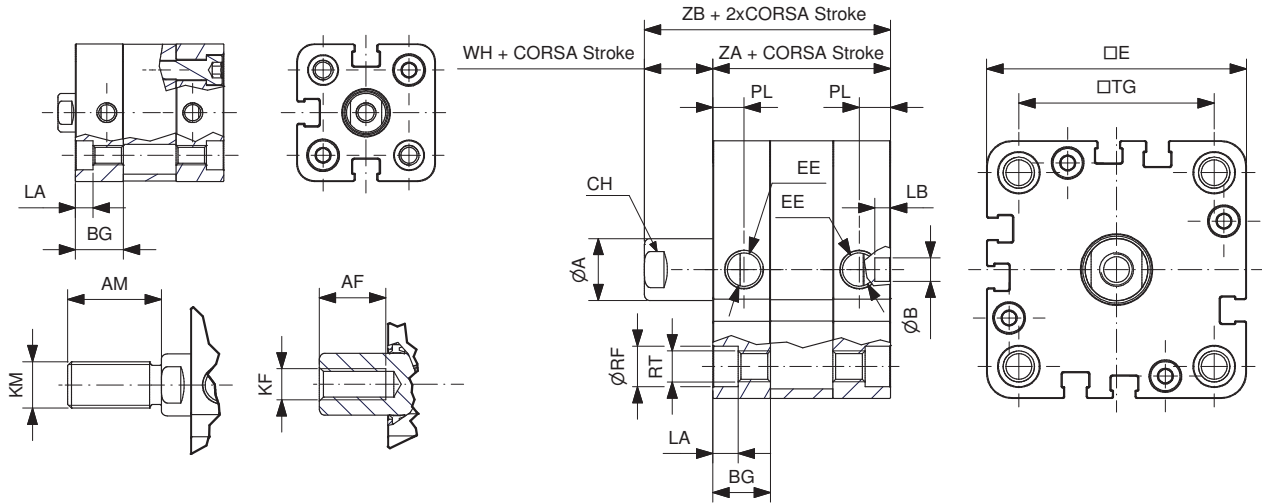


ø	E	TG	øA	CH	KM	AM	KF	AF	EE	RF	RT	LA	BG	PL	øB	LB	WH	ZA*	ZB*
12	29	18	6	5	M6	16	M3	6	M5	6	M4	3.5	12.25	8	6	4	4.5	38	42.5
16	29	18	8	6	M8	20	M4	8	M5	6	M4	3.5	12.25	8	6	4	4.5	38	42.5
20	36	22	10	8	M10X1.25	22	M5	10	M5	7.5	M5	4.5	12.25	8	6	4	4.5	38	42.5
25	40	26	10	8	M10X1.25	22	M5	10	M5	7.5	M5	4.5	12.75	8	6	4	5.5	39.5	45
32	50	32	12	10	M10X1.25	22	M6	12	1/8"	9	M6	5.5	14.5	8	6	4	6	44.5	50.5
40	58	42	12	10	M10X1.25	22	M6	12	1/8"	9	M6	5.5	14.75	8	6	4	6.5	45.5	52
50	67	50	16	13	M12X1.25	24	M8	12	1/8"	10.5	M8	6.5	14.75	8	6	4	7.5	45.5	53
63	80	62	16	13	M12X1.25	24	M8	14	1/8"	13.5	M10	8.5	14.25	8	8	4	7.5	50	57.5
80	100	82	20	17	M16X1.5	32	M10	15	1/8"	13.5	M10	8.5	16	8.5	8	4	8	56	64
100	124	103	25	22	M20X1.5	40	M12	20	1/4"	13.5	M10	8.5	19.25	10.5	8	4	10	66.5	76.5

Semplice effetto molla posteriore
Single acting rear spring

ø12-25

ø32-100



ø	E	TG	øA	CH	KM	AM	KF	AF	EE	RF	RT	LA	BG	PL	øB	LB	WH	ZA*	ZB*
12	29	18	6	5	M6	16	M3	6	M5	6	M4	3.5	12.25	8	6	4	4.5	38	42.5
16	29	18	8	6	M8	20	M4	8	M5	6	M4	3.5	12.25	8	6	4	4.5	38	42.5
20	36	22	10	8	M10X1.25	22	M5	10	M5	7.5	M5	4.5	12.25	8	6	4	4.5	38	42.5
25	40	26	10	8	M10X1.25	22	M5	10	M5	7.5	M5	4.5	12.75	8	6	4	5.5	39.5	45
32	50	32	12	10	M10X1.25	22	M6	12	1/8"	9	M6	5.5	14.5	8	6	4	6	44.5	50.5
40	58	42	12	10	M10X1.25	22	M6	12	1/8"	9	M6	5.5	14.75	8	6	4	6.5	45.5	52
50	67	50	16	13	M12X1.25	24	M8	12	1/8"	10.5	M8	6.5	14.75	8	6	4	7.5	45.5	53
63	80	62	16	13	M12X1.25	24	M8	14	1/8"	13.5	M10	8.5	14.25	8	8	4	7.5	50	57.5
80	100	82	20	17	M16X1.5	32	M10	15	1/8"	13.5	M10	8.5	16	8.5	8	4	8	56	64
100	124	103	25	22	M20X1.5	40	M12	20	1/4"	13.5	M10	8.5	19.25	10.5	8	4	10	66.5	76.5

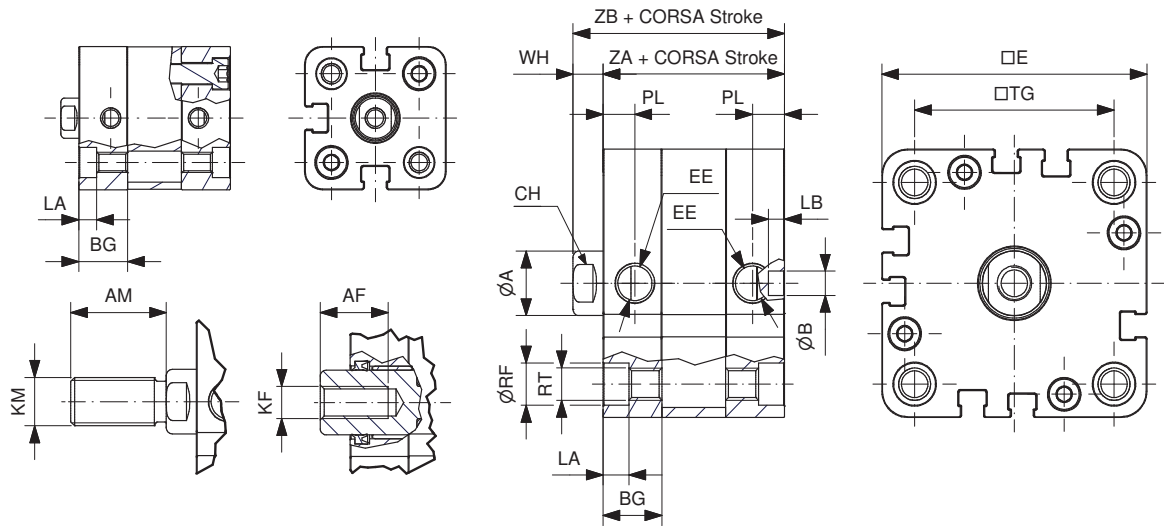
* Dalla corsa 30mm aggiungere alle quote per i diametri 12-16-20mm, 10mm; per i diametri 25-32-40-50-63mm, 20mm; per i diametri 80-100mm, 30mm.
* From the stroke 30mm add to the dimensions for bores 12-16-20mm, 10mm; for bores 25-32-40-50-63mm, 20mm; for bores 80-100mm, 30mm.

Doppio effetto
Double acting

ø12-25

ø32-100

C1UøM...CST - C1UøF...CST
C1UøM...DST - C1UøF...DST



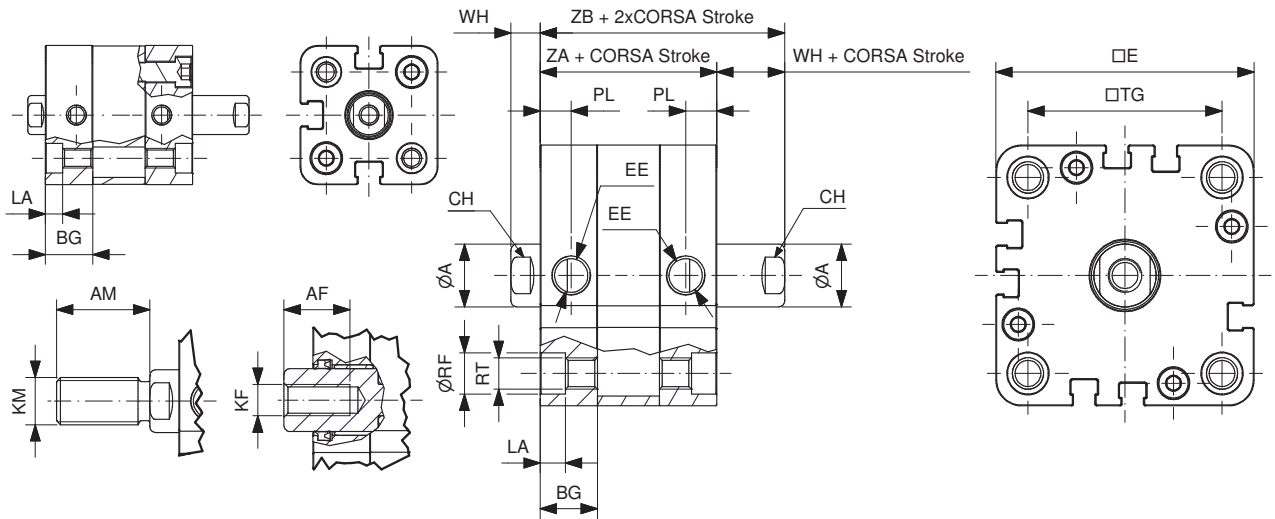
ø	E	TG	øA	CH	KM	AM	KF	AF	EE	RF	RT	LA	BG	PL	øB	LB	WH	ZA	ZB
12	29	18	6	5	M6	16	M3	6	M5	6	M4	3.5	12.25	8	6	4	4.5	38	42.5
16	29	18	8	6	M8	20	M4	8	M5	6	M4	3.5	12.25	8	6	4	4.5	38	42.5
20	36	22	10	8	M10X1.25	22	M5	10	M5	7.5	M5	4.5	12.25	8	6	4	4.5	38	42.5
25	40	26	10	8	M10X1.25	22	M5	10	M5	7.5	M5	4.5	12.75	8	6	4	5.5	39.5	45
32	50	32	12	10	M10X1.25	22	M6	12	1/8"	9	M6	5.5	14.5	8	6	4	6	44.5	50.5
40	58	42	12	10	M10X1.25	22	M6	12	1/8"	9	M6	5.5	14.75	8	6	4	6.5	45.5	52
50	67	50	16	13	M12X1.25	24	M8	12	1/8"	10.5	M8	6.5	14.75	8	6	4	7.5	45.5	53
63	80	62	16	13	M12X1.25	24	M8	14	1/8"	13.5	M10	8.5	14.25	8	8	4	7.5	50	57.5
80	100	82	20	17	M16X1.5	32	M10	15	1/8"	13.5	M10	8.5	16	8.5	8	4	8	56	64
100	124	103	25	22	M20X1.5	40	M12	20	1/4"	13.5	M10	8.5	19.25	10.5	8	4	10	66.5	76.5

Doppio effetto passante
Double acting through rod

ø12-25

ø32-100

C1UøM...LST - C1UøF...LST
C1UøM...MST - C1UøF...MST



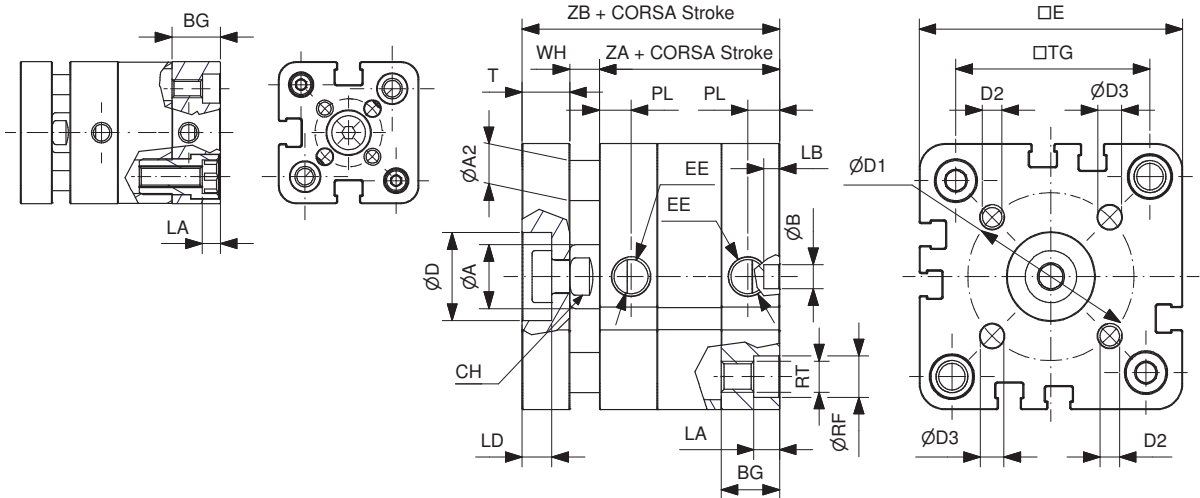
ø	E	TG	øA	CH	KM	AM	KF	AF	EE	RF	RT	LA	BG	PL	WH	ZA	ZB
12	29	18	6	5	M6	16	M3	6	M5	6	M4	3.5	12.25	8	4.5	38	42.5
16	29	18	8	6	M8	20	M4	8	M5	6	M4	3.5	12.25	8	4.5	38	42.5
20	36	22	10	8	M10X1.25	22	M5	10	M5	7.5	M5	4.5	12.25	8	4.5	38	42.5
25	40	26	10	8	M10X1.25	22	M5	10	M5	7.5	M5	4.5	12.75	8	5.5	39.5	45
32	50	32	12	10	M10X1.25	22	M6	12	1/8"	9	M6	5.5	14.5	8	6	44.5	50.5
40	58	42	12	10	M10X1.25	22	M6	12	1/8"	9	M6	5.5	14.75	8	6.5	45.5	52
50	67	50	16	13	M12X1.25	24	M8	12	1/8"	10.5	M8	6.5	14.75	8	7.5	45.5	53
63	80	62	16	13	M12X1.25	24	M8	14	1/8"	13.5	M10	8.5	14.25	8	7.5	50	57.5
80	100	82	20	17	M16X1.5	32	M10	15	1/8"	13.5	M10	8.5	16	8.5	8	56	64
100	124	103	25	22	M20X1.5	40	M12	20	1/4"	13.5	M10	8.5	19.25	10.5	10	66.5	76.5

Antirrotazione
Non-rotating

ø16-25

ø32-100

C1UøE...CST - C1UøE...DST



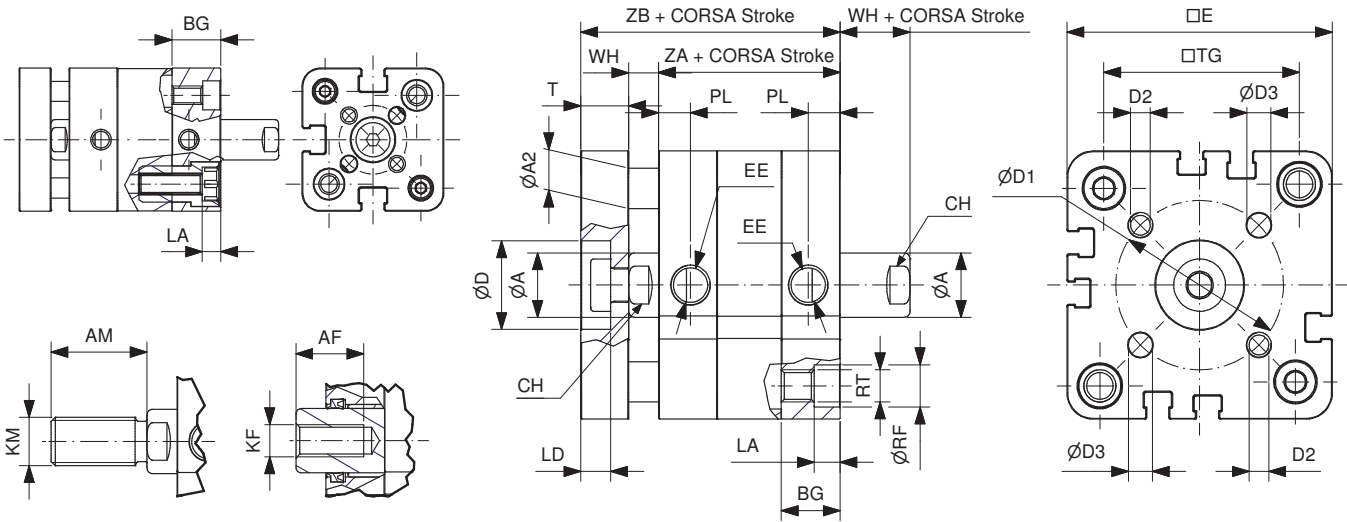
ø	E	TG	øA	CH	øD	LD	øA2	T	EE	RF	RT	LA	BG	PL	øB	LB	WH	øD1	D2	øD3	ZA	ZB
16	29	18	8	6	9	3.8	5	6	M5	6	M4	3.5	12.25	8	6	4	4.5	14	M3	3	38	48.5
20	36	22	10	8	11	5	5	8	M5	7.5	M5	4.5	12.25	8	6	4	4.5	17	M4	4	38	50.5
25	40	26	10	8	14	5	6	8	M5	7.5	M5	4.5	12.75	8	6	4	5.5	22	M5	5	39.5	53
32	50	32	12	10	17	6.5	8	10	1/8"	9	M6	5.5	14.5	8	6	4	6	28	M5	5	44.5	60.5
40	58	42	12	10	17	6.5	10	10	1/8"	9	M6	5.5	14.75	8	6	4	6.5	33	M5	5	45.5	62
50	67	50	16	13	22	7.5	10	12	1/8"	10.5	M8	6.5	14.75	8	6	4	7.5	42	M6	6	45.5	65
63	80	62	16	13	22	7.5	10	12	1/8"	13.5	M10	8.5	14.25	8	8	4	7.5	50	M6	6	50	69.5
80	100	82	20	17	28	9	14	14	1/8"	13.5	M10	8.5	16	8.5	8	4	8	65	M8	8	56	78
100	124	103	25	22	30	10	14	14	1/4"	13.5	M10	8.5	19.25	10.5	8	4	10	80	M10	10	66.5	90.5

Antirrotazione passante
Non-rotating through rod

ø16-25

ø32-100

C1UøN...CST - C1UøG...CST
C1UøN...DST - C1UøG...DST



ø	E	TG	øA	CH	øD	LD	KM	AM	KF	AF	øA2	T	EE	RF	RT	LA	BG	PL	WH	øD1	D2	øD3	ZA	ZB
16	29	18	8	6	9	3.8	M8	20	M4	8	5	6	M5	6	M4	3.5	12.25	8	4.5	14	M3	3	38	48.5
20	36	22	10	8	11	5	M10X1.25	22	M5	10	5	8	M5	7.5	M5	4.5	12.25	8	4.5	17	M4	4	38	50.5
25	40	26	10	8	14	5	M10X1.25	22	M5	10	6	8	M5	7.5	M5	4.5	12.75	8	5.5	22	M5	5	39.5	53
32	50	32	12	10	17	6.5	M10X1.25	22	M6	12	8	10	1/8"	9	M6	5.5	14.5	8	6	28	M5	5	44.5	60.5
40	58	42	12	10	17	6.5	M10X1.25	22	M6	12	10	10	1/8"	9	M6	5.5	14.75	8	6.5	33	M5	5	45.5	62
50	67	50	16	13	22	7.5	M12X1.25	24	M8	12	10	12	1/8"	10.5	M8	6.5	14.75	8	7.5	42	M6	6	45.5	65
63	80	62	16	13	22	7.5	M12X1.25	24	M8	14	10	12	1/8"	13.5	M10	8.5	14.25	8	7.5	50	M6	6	50	69.5
80	100	82	20	17	28	9	M16X1.5	32	M10	15	14	14	1/8"	13.5	M10	8.5	16	8.5	8	65	M8	8	56	78
100	124	103	25	22	30	10	M20X1.5	40	M12	20	14	14	1/4"	13.5	M10	8.5	19.25	10.5	10	80	M10	10	66.5	90.5

Kit guarnizioni Seals kit

Versione Version	Diametro Diameter	Versione Version	Varianti Variants
S1U Cilindro UNITOP UNITOP cylinders	ø	C Doppio effetto Double acting	ST Standard
		L Doppio effetto passante Double acting through rod	VT Tutte le guarnizioni FKM All seals FKM

Versione "C" adatta per semplice effetto e doppio effetto, singolo stelo / "C" version suitable for single acting and double acting, single piston rod
Versione "L" adatta per semplice effetto e doppio effetto, stelo passante / "L" version suitable for single acting and double acting, through piston rod

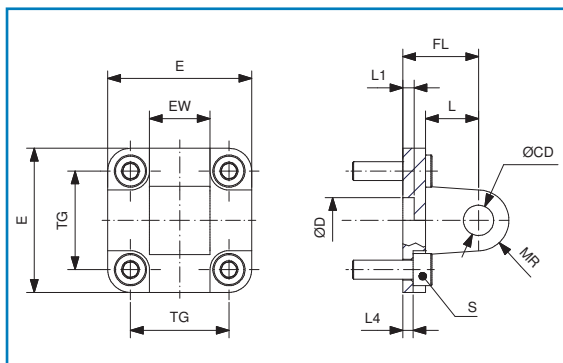
Esempio di codifica
Coding example

S	1	U	0	5	0	C	S	T
---	---	---	---	---	---	---	---	---

composto da / composed of:

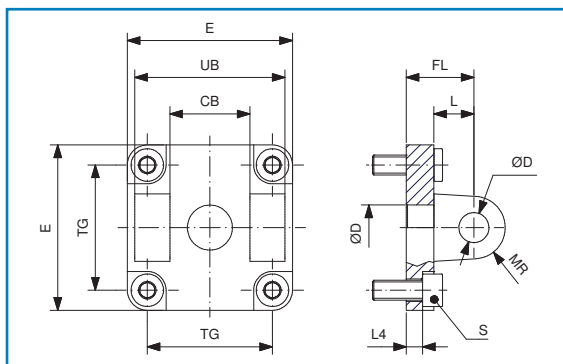
1 x guarnizione stelo - rod seal
2 x o-ring tubo - tube o-rings
2 x guarnizioni pistone - piston seals

Accessori alluminio Aluminium accessories



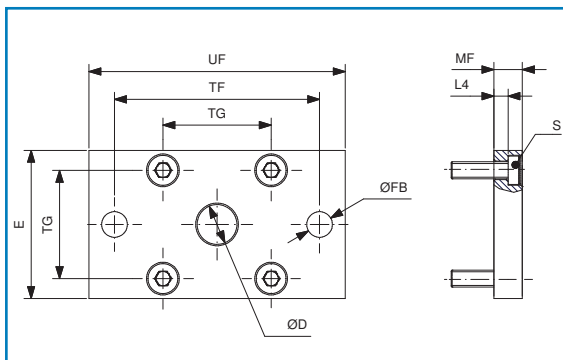
Cerniera maschio Male hinge

CODICE/CODE	TG	E	L	FL	MR	øD	EW	L1	L4	øCD	S
CMU1216A	18	27	10	16	6	10	12	3	2.6	6	M4X12
CMU20A	22	34	14	20	8	12	16	3	2.6	8	M5X14
CMU25A	26	38	14	20	8	12	16	3	2.6	8	M5X14



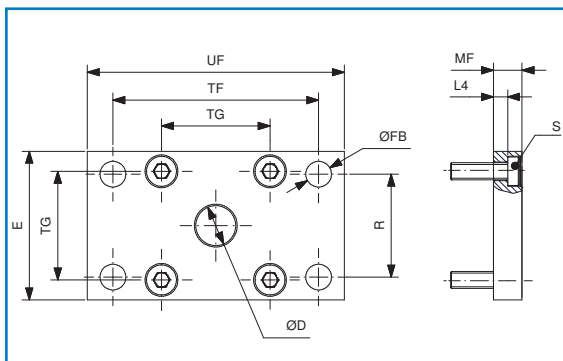
Cerniera femmina Female hinge

CODICE/CODE	TG	E	L4	L	FL	MR	øD	CB	UB	øCD	S
CFU32A	32	48	5.5	13	22	10	14	26	45	10	M6X18
CFU40A	42	58	5.5	16	25	12.5	14	28	52	12	M6X18
CFU50A	50	66	6.5	16	27	12.5	18	32	60	12	M8X20
CFU63A	62	83	6.5	21	32	15	18	40	70	16	M10X25
CFU80A	82	102	10	23	36	15	23	50	90	16	M10X25
CFU100A	103	123	10	26	41	20	28	60	110	20	M10X25



Flangia ø 12-25 Flange ø12-25

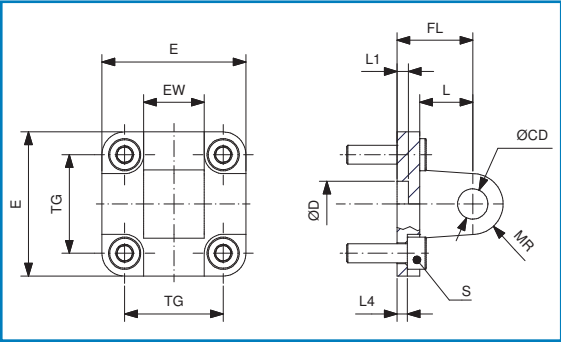
CODICE/CODE	øD	øFB	TG	TF	UF	E	MF	L4	S
APU1216A	10	5.5	18	43	55	29	10	4.6	M4X16
APU20A	12	6.6	22	55	70	36	10	4.6	M5X14
APU25A	12	6.6	26	60	76	40	10	4.6	M5X14



Flangia ø 32-100 Flange ø32-100

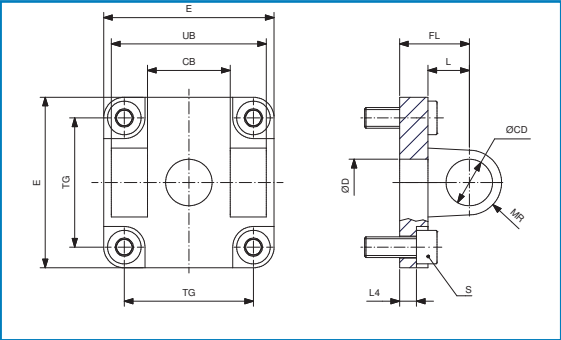
CODICE/CODE	øD	øFB	TG	TF	UF	E	R	MF	L4	S
APU32A	14	7	32	65	80	50	32	10	3.6	M6X16
APU40A	14	9	42	82	102	60	36	10	3.6	M6X16
APU50A	18	9	50	90	110	68	45	12	3.4	M8X16
APU63A	18	9	62	110	130	87	50	15	6.4	M10X25
APU80A	23	12	82	135	160	107	63	15	4.4	M10X25
APU100A	28	14	103	163	190	128	75	15	4.4	M10X25

Accessori acciaio
Steel accessories



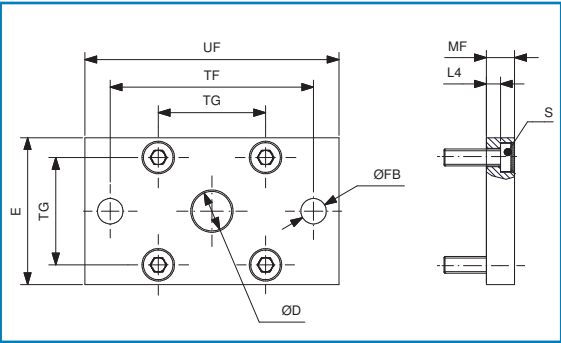
Cerniera maschio
Male hinge

CODICE/CODE	TG	E	L	FL	MR	øD	EW	L1	L4	øCD	S
CMU20S	22	34	14	20	8	12	16	3	2.6	8	M5X14
CMU25S	26	38	14	20	8	12	16	3	2.6	8	M5X14



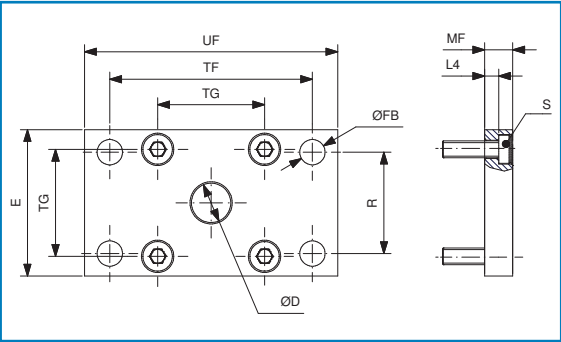
Cerniera femmina
Female hinge

CODICE/CODE	TG	E	L4	L	FL	MR	øD	CB	UB	øCD	S
CFU32S	32	48	5.5	13	22	10	14	26	45	10	M6X18
CFU40S	42	58	5.5	16	25	12.5	14	28	52	12	M6X18
CFU50S	50	66	6.5	16	27	12.5	18	32	60	12	M8X20
CFU63S	62	83	6.5	21	32	15	18	40	70	16	M10X25
CFU80S	82	102	10	23	36	15	23	50	90	16	M10X25
CFU100S	103	123	10	26	41	20	28	60	110	20	M10X25



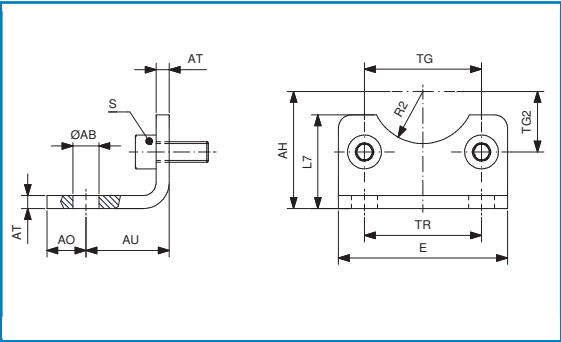
Flangia - ø 12-25
Flange - ø12-25

CODICE/CODE	øD	øFB	TG	TF	UF	E	MF	L4	S
APU1216S	10	5.5	18	43	55	29	10	4.6	M4X16
APU20S	12	6.6	22	55	70	36	10	4.6	M5X14
APU25S	12	6.6	26	60	76	40	10	4.6	M5X14



Flangia - ø 32-100
Flange - ø32-100

CODICE/CODE	øD	øFB	TG	TF	UF	E	R	MF	L4	S
APU32S	14	7	32	65	80	50	32	10	3.6	M6X16
APU40S	14	9	42	82	102	60	36	10	3.6	M6X16
APU50S	18	9	50	90	110	68	45	12	3.4	M8X16
APU63S	18	9	62	110	130	87	50	15	6.4	M10X25
APU80S	23	12	82	135	160	107	63	15	4.4	M10X25
APU100S	28	14	103	163	190	128	75	15	4.4	M10X25



Piedino basso
Low-rise pedestal

CODICE/CODE	TG	TR	E	L7	AU	AT	R2	øAB	AO	AH	S
AFU1216S	18	18	30	17.5	13	3	9	5.5	4.5	22	M4X12
AFU20S	22	22	36	22	16	4	10	6.6	6	27	M5X20
AFU25S	26	26	40	23	16	4	11	6.6	6	30	M5X20
AFU32S	32	32	50	24	18	5	12	6.6	8	32	M6X18
AFU40S	42	42	60	29.5	20	5	//	9	8	42.5	M6X18
AFU50S	50	50	68	30	24	6	//	9	8	49	M8X20
AFU63S	62	62	84	39	27	6	//	11	12	59.5	M10X25
AFU80S	82	82	102	36.5	30	8	//	11	12	71	M10X25
AFU100S	103	103	123	38.5	33	8	//	13.5	12	78	M10X25