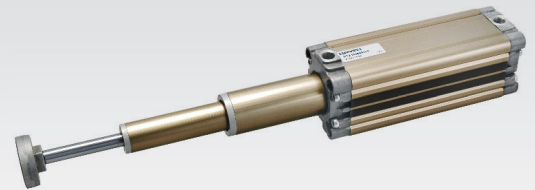


# RT

## Cilindri pneumatici telescopici a 2/3 stadi Ø 25 ÷ 63 mm

Design e tecnologia originale UNIVER  
 Componenti industrializzati e tecnologia all'avanguardia  
 Ingombro ridotto: -60% rispetto ad un cilindro tradizionale  
 Non rotante di serie  
 Versione magnetica sul primo stadio standard di serie (sul secondo e terzo stadio a richiesta)  
 Disponibile unità di guida per versione 2 stadi (J64RT)

Disponibile versione ATEX su richiesta  
 II 2Gc IIC T5 II 2Dc T100°C



### CARATTERISTICHE TECNICHE

Temperatura ambiente	-20 ÷ 80 °C
Fluido	aria filtrata, con o senza lubrificazione
Pressione di esercizio	1,5 ÷ 10 bar
Alesaggi	2 stadi: Ø 25 - 32 - 40 - 50 - 63    3 stadi: Ø 40 - 50 - 63

### CARATTERISTICHE COSTRUTTIVE

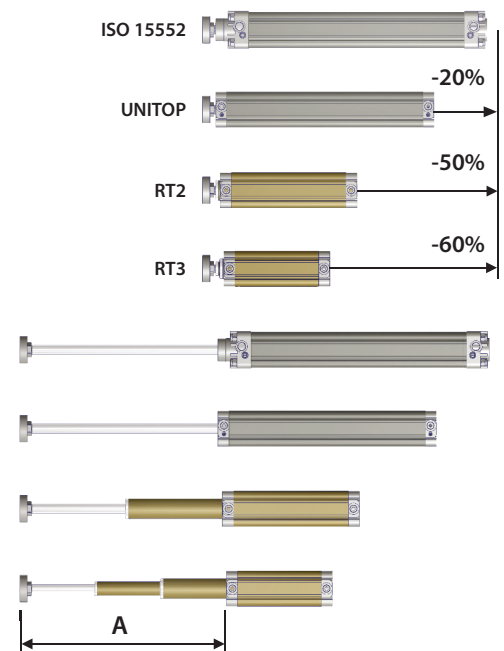
Testate	alluminio pressofuso
Camicia	alluminio anodizzato
Pistone	alluminio
Pattino di guida	resina acetale
Stelo	acciaio cromato non rotante completo di flangia (stelo femmina) acciaio inox su richiesta
Guarnizione pistone	gomma nitrilica
Bussola guida stelo	resina acetale
Paracolpi	gomma nitrilica
Magnete	standard di serie (primo stadio)

### CHIAVE DI CODIFICA

R	T	2	2	0	0	3	2	0	6	0	0		
1	2	3	4	5	6			7	8				

### Comparazione ingombro cilindri

Corsa 300 mm (A)



2 HIGH-TECH

<b>1 Serie</b> RT = Cilindri pneumatici telescopici a 2/3 stadi Ø 25÷63 mm (con stelo non rotante e paracolpi elastici)	<b>2 Stelo</b> 1 = Stelo acciaio inox 2 = Stelo acciaio cromato	<b>3 Stadi</b> 2 = 2 stadi 3 = 3 stadi	<b>4 Tipologia</b> 0 = D.E. Stelo femmina 3 = D.E. Stelo maschio  D.E. = Doppio effetto
--	---	--	---

<b>5 Alesaggio (mm)</b> 2 stadi    3 stadi 025 = Ø25    040 = Ø40 032 = Ø32    050 = Ø50 040 = Ø40    063 = Ø63 050 = Ø50 063 = Ø63	<b>6 Corsa (mm)</b> 2 stadi 0100 - 0120 - 0160 - 0180 - 0200 - 0300 - 0400 - 0500 0600 - 0700 - 0800 - 0900 - 1000 - 1100 - 1200 corsa Max: 0300 (Ø25)    0900 (Ø50) 0400 (Ø32)    1200 (Ø63) 0600 (Ø40)  3 stadi 0150 - 0180 - 0210 - 0240 - 0270 - 0300 - 0360 - 0450 0600 - 0750 - 900 - 1050 - 1200 - 1500 - 1800 corsa Max: 1200 (Ø40) 1500 (Ø50) 1800 (Ø63)	<b>7 Variante</b> I = Senza flangia (solo per stelo femmina) L = Stelo libero di ruotare (senza flangia) M = Con asta magnetica telescopica (2°-3° stadio) escluso Ø25 solo per stelo femmina	<b>8 Variante ATEX</b> X = ATEX (su richiesta)  <b>Per tipologia e versioni, consultare catalogo ATEX</b>
---	--	--	--

Tabella riassuntiva della combinazione alesaggi

Ø	Ø		
	1° stadio	2° stadio	3° stadio
25	25	16	-
32	32	20	-
40	40	25	16
50	50	32	20
63	63	40	25

Tolleranze nominali sulla corsa      Massimo momento torcente (Nm) per stelo non rotante

Ø	Tolleranza nominale		Momento torcente	
	mm		Nm	
	2 stadi	3 stadi	2 stadi	3 stadi
25	+2 - 0	+4 - 0	0,5	-
32	+3,2 - 0	+4 - 0	0,8	-
40	+3,2 - 0	+4 - 0	1	0,5
50	+3,2 - 0	+4 - 0	2	0,8
63	+3,2 - 0	+4 - 0	3	1

Cilindro telescopico **2 stadi**

Forze teoriche (N) sviluppate alla pressione d'esercizio (bar)

Ø	Superficie utile		Pressione di esercizio									
	mm <sup>2</sup>		bar									
	Spinta	Trazione	Spinta					Trazione				
			2	4	6	8	10	2	4	6	8	10
25	201	111	41	82	123	164	205	22	43	65	87	108
32	314	201	64	128	192	256	320	41	82	123	164	205
40	490	377	100	200	300	400	500	77	154	231	308	384
50	804	603	164	328	492	656	820	123	246	369	492	615
63	1256	1055	256	512	769	1025	1281	215	430	649	861	1076

2

Cilindro telescopico **3 stadi**

Forze teoriche (N) sviluppate alla pressione d'esercizio (bar)

Ø	Superficie utile		Pressione di esercizio									
	mm <sup>2</sup>		bar									
	Spinta	Trazione	Spinta					Trazione				
			2	4	6	8	10	2	4	6	8	10
40	201	111	41	82	123	164	205	22	43	65	87	108
50	314	201	64	128	192	256	320	41	82	123	164	205
63	490	377	100	200	300	400	500	77	154	231	308	384

Massa cilindro 2 stadi **RT220/RT220I/RT220M/RT223**

Ø	Cilindro - corsa 0				Incremento ogni mm di corsa per 1/2 corsa				Equipaggio mobile corsa 0				Incremento ogni mm di corsa per 1/2 corsa			
	g				g				g				g			
	RT220	RT220I	RT220M	RT223	RT220	RT220I	RT220M	RT223	RT220	RT220I	RT220M	RT223	RT220	RT220I	RT220M	RT223
25	232	206	-	230	2,02	2,02	-	2,02	75	68	-	80	1,02	1,02	-	1,02
32	252	228	254	250	3,00	3,00	3,01	3,00	125	100	138	130	1,38	1,38	1,39	1,38
40	377	342	379	364	3,74	3,74	3,75	3,74	182	143	189	173	1,59	1,59	1,60	1,59
50	597	540	599	585	5,20	5,20	5,21	5,20	314	246	318	291	2,52	2,52	2,53	2,52
63	913	819	915	870	6,31	6,31	6,32	6,31	480	385	487	430	2,70	2,70	2,71	2,70

Massa cilindro 3 stadi **RT230/RT230I/RT230M/RT233**

Ø	Cilindro - corsa 0				Incremento ogni mm di corsa per 1/3 corsa				Equipaggio mobile corsa 0				Incremento ogni mm di corsa per 1/3 corsa			
	g				g				g				g			
	RT230	RT230I	RT230M	RT233	RT230	RT230I	RT230M	RT233	RT230	RT230I	RT230M	RT233	RT230	RT230I	RT230M	RT233
40	367	337	369	362	3,88	3,88	3,90	3,88	162	137	191	168	1,73	1,73	1,75	1,73
50	510	486	512	511	5,00	5,00	5,02	5,00	265	226	307	257	2,32	2,32	2,34	2,32
63	810	775	812	810	6,32	6,32	6,34	6,32	417	349	459	380	2,71	2,71	2,73	2,71

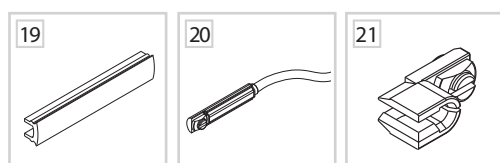
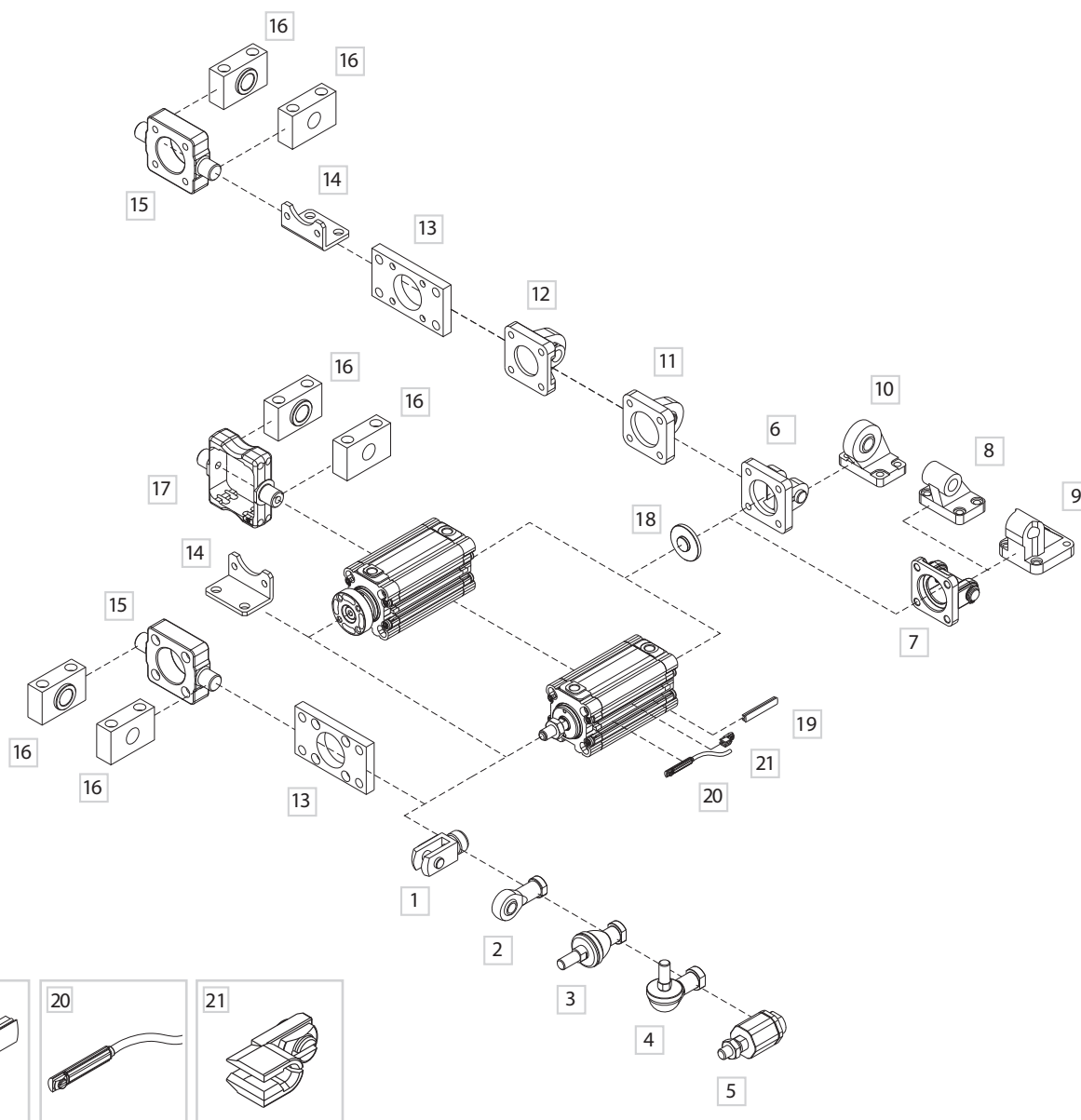
Precauzioni d'uso e di montaggio

Il cilindro telescopico lavora in condizioni ottimali quando il carico è assiale, cioè con il cilindro in verticale, verso l'alto o verso il basso.

Può naturalmente lavorare in orizzontale e a sbalzo; in questo caso però occorre:

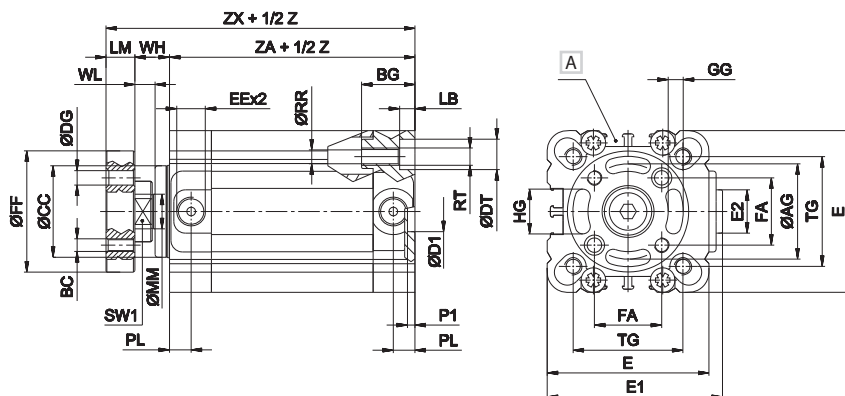
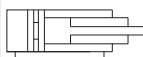
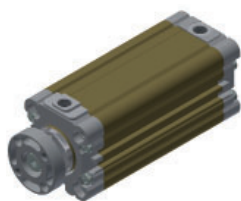
- limitare le corse massime, che devono essere ridotte del 50% rispetto a quelle massime nominali;
- richiedere cilindri con unità di guida;
- supportare il carico radiale con altri sistemi (carrelli, pattini, guide di scorrimento);
- si consiglia velocità massima 0,5 m/sec.

Fissaggi e accessori

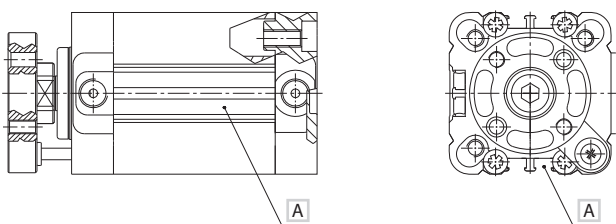
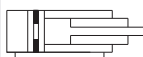
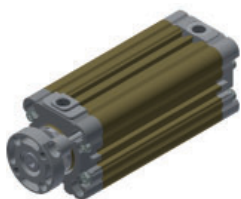


DESCRIZIONE	CODICE
1 Forcella femmina con clips	KF-15___
2 Forcella snodata autolubrificata	KF-17___
3 Forcella con perno snodato in asse	KF-22___
4 Forcella con perno snodato ad angolo	KF-23___
5 Snodo autoallineante	KF-24___
6 Cerniera femmina con perno	KF-10___A
7 Cerniera femmina stretta con perno	KF-10___AS
8 Contro-cerniera a 90° (AB7)	KF-19___CTA
9 Contro-cerniera a 90°	KF-19___
10 Contro-cerniera a squadra snodata	KF-19___SC
11 Cerniera maschio con testina snodata	KF-11___S
12 Cerniera post. maschio	KF-11___
13 Flangia ant./post.	KF-12___
14 Piedino ad angolo	KF-13___
15 Cerniera ant./post. oscillante	KF-14___AP
16 Supporto per cerniera	KF-41___
17 Cerniera intermedia ISO	KDF-14___/RPF-14___
18 Adattatore per centraggio	RSF-09___
19 Bandella coprifilo DHF	DHF-0020100
20 Sensore DF	DF-___
21 Bloccacavo guida filo sensore DF	DF-001

2 stadi con flangia RT220...

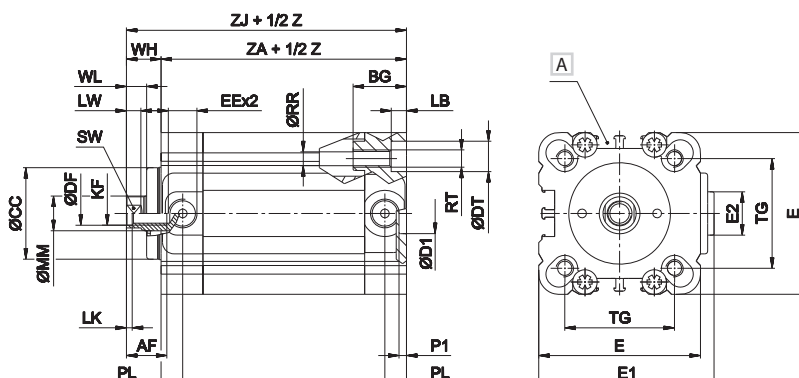
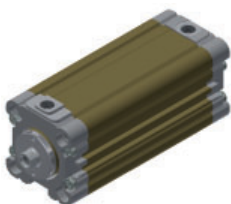


2 stadi con flangia magnetico RT220...M

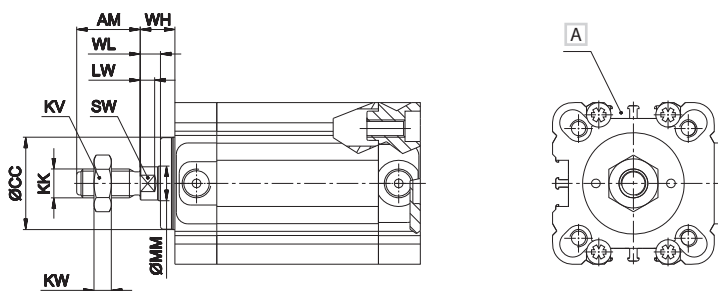
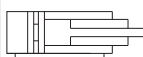
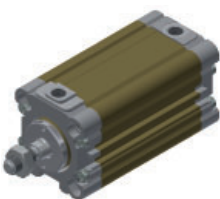


A = per la versione magnetica i sensori DF... possono essere posizionati solo in prossimità dell'astina telescopica porta magneti indicata.

2 stadi stelo femmina RT220...I



2 stadi stelo maschio RT223...



A Scanalatura per sensore

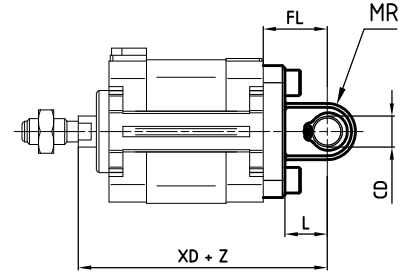
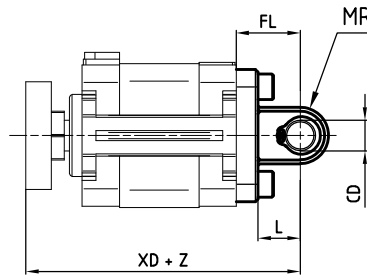
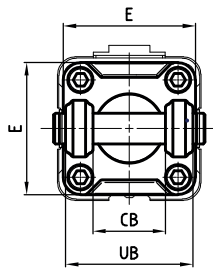
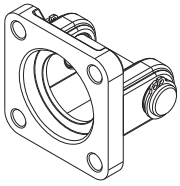
Z = Corsa

Ø	AF	AG	AM	BC	BG	CC	DF	DG	DT	D1 H11	E	E1	E2	EE	FA	FF	GG	HG	KF	KK
25	10	22	22	M5	16	22	6,1	5	8	2	37	39	18	M5	15,6	30	5	9	M6	M10x1,25
32	12	28	22	M5	18	26	8,2	5	9	14	46	50,5	16	G1/8	19,8	37	5,2	11	M8	M10x1,25
40	12	33	22	M5	18	32	8,2	5	9	14	56	60,5	16	G1/8	23,3	42	5,2	15	M8	M10x1,25
50	16	42	24	M6	24	40	10,2	6	11	18	66	70,5	16	G1/8	29,7	52	6,2	19	M10	M12x1,25
63	16	50	24	M6	24	48	10,2	6	11	18	79	83,5	38	G1/8	35,4	64	6,2	25	M10	M12x1,25
Ø	KV	KW	LB	LK	LM	LW	MM	PL	P1	RR	RT	SW	SW1	TG	WH	WL	ZA	ZJ	ZX	
25	17	3	4,5	1	8	4,5	10	8	8	4,2	M5	8	-	26	17	7	48	65	73	
32	17	4	5,3	2	10	5	12	7,5	2,5	5,2	M6	10	17	32,5	13	7	58	71	81	
40	17	4	5,3	2	10	5	12	7,5	2,5	5,2	M6	10	19	38	12	7	60	72	82	
50	19	5	6,5	2	12	6	16	7,5	2,5	6,6	M8	13	24	46,5	15	8	61	76	88	
63	19	5	6,5	2	12	6	16	7,5	2,5	6,6	M8	13	24	56,5	15	8	65	80	92	

**Cerniera femmina con perno (ISO MP2)**

> Versione standard (con flangia)

> Versione stelo maschio



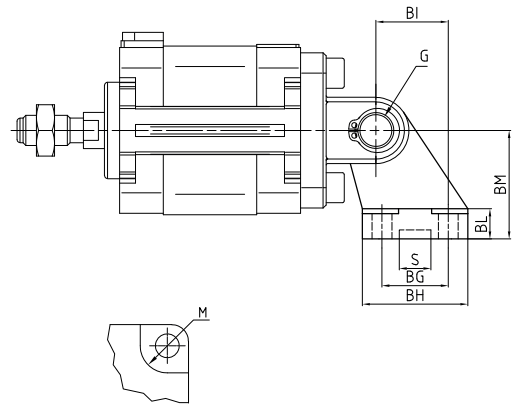
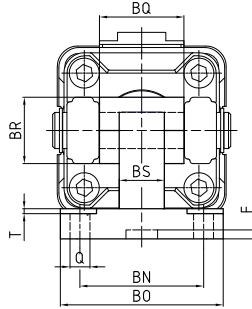
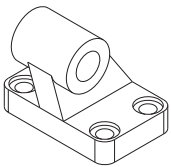
Materiale:

Alluminio

Z = Corsa

Ø	CB	CD	E	FL	L	MR	UB	XD (versione standard)		XD (versione stelo maschio)		Massa g	Codice
	H14	H9		± 0,2	min	Max	H14						
25	-	-	-	-	-	-	-	-	-	-	-	-	-
32	26	10	48	22	12	11	45	103	±1,25	93	±1,25	75	KF-10032A
40	28	12	54	25	15	13	52	107	±1,25	97	±1,25	110	KF-10040A
50	32	12	65	27	15	13	60	115	±1,25	103	±1,25	150	KF-10050A
63	40	16	75	32	20	17	70	124	±1,6	112	±1,6	270	KF-10063A

**Contro-cerniera a 90° (AB7)**

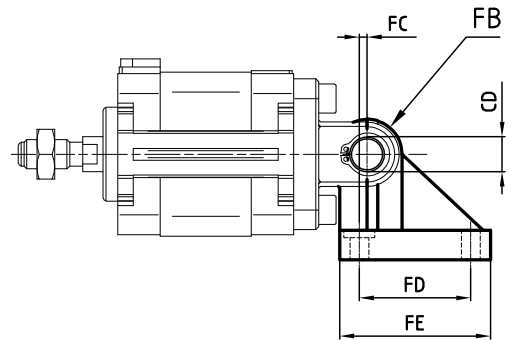
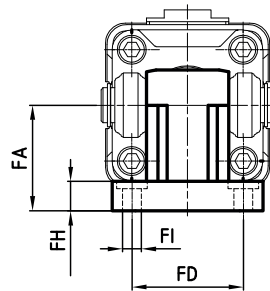
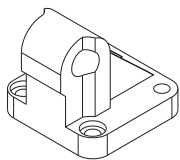


Materiale:

Alluminio

Ø	Q	M	BG	BH	BI	BL	BM	BN	BO	BS	BR	T	G	S	F	BQ	Massa g	Codice
	H13	H13	JS 14	Max	JS 14	JS 15	JS 14	Max	Max	Max	Max	H9	<sup>+0,5</sup> <sub>0</sub>	<sup>+0,5</sup> <sub>0</sub>				
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	6,6	11	18	31	21	8	32	38	51	10	20	1,6	10	10,5	3	26	56	KF-19032CTA
40	6,6	11	22	35	24	10	36	41	54	15	22	1,6	12	10,5	3	28	139	KF-19040CTA
50	9	15	30	45	33	12	45	50	65	16	26	1,6	12	10,5	3	32	142	KF-19050CTA
63	9	15	35	50	37	14	50	52	67	16	30	1,6	16	10,5	3	40	200	KF-19063CTA

**Contro-cerniera a 90°**

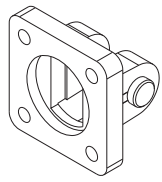


Materiale:

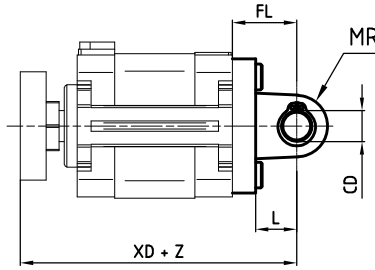
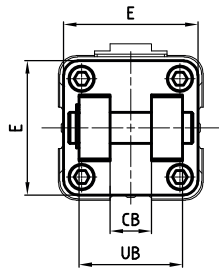
Alluminio

Ø	CD	FA	FB	FC	FD	FE	FH	FI	Massa g	Codice
	H9									
25	-	-	-	-	-	-	-	-	-	-
32	10	32	10	1,2	32,5	46,5	9	6,5	90	KF-19032
40	12	36	12	2,6	38	51,5	9	6,5	120	KF-19040
50	12	45	12	0,3	46,5	63,5	9	8,5	200	KF-19050
63	16	50	16	3,3	56,5	73	10,5	8,5	320	KF-19063

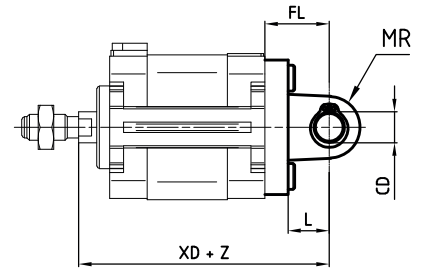
**Cerniera femmina stretta con perno (DIN 648K)**



> Versione standard (con flangia)



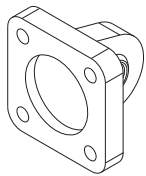
> Versione stelo maschio



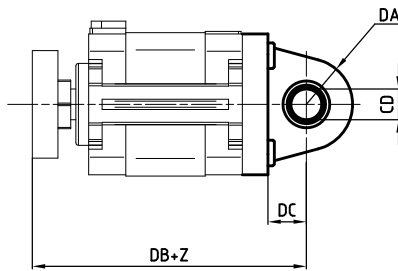
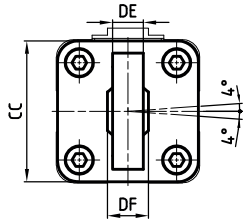
Materiale: Alluminio Z = Corsa

Ø	CB H14	CD H9	E	FL ± 0,2	L min	MR Max	UB H14	XD (versione standard)	XD (versione stelo maschio)	Massa g	Codice		
25	-	-	-	-	-	-	-	-	-	-	-		
32	14	10	45	22	13	10	34	103	±1,25	93	±1,25	68	KF-10032AS
40	16	12	52	25	16	12	40	107	±1,25	97	±1,25	112	KF-10040AS
50	21	16	65	27	16	14	45	115	±1,25	113	±1,25	196	KF-10050AS
63	21	16	75	32	21	18	51	124	±1,6	112	±1,6	288	KF-10063AS

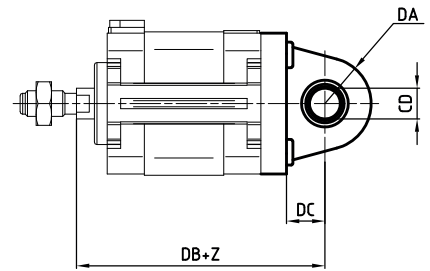
**Cerniera posteriore maschio snodata (ISO MP6)**



> Versione standard (con flangia)



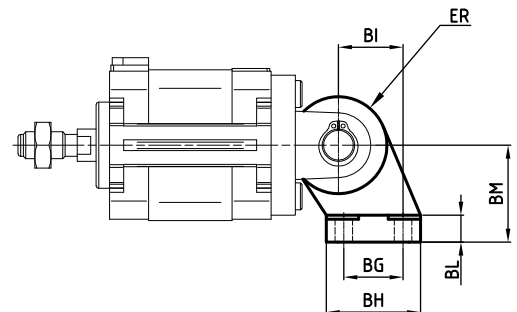
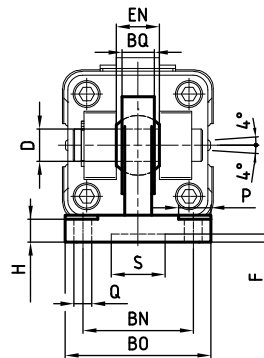
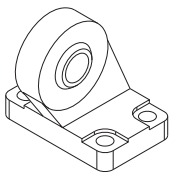
> Versione stelo maschio



Materiale: Alluminio Z = Corsa

Ø	CC	CD H9	DA	DB (versione standard)	DB (versione stelo maschio)	DC	DE	DF	Massa g	Codice
25	-	-	-	-	-	-	-	-	-	-
32	48	10	15	115	95	14	10,5	14	100	KF-11032S
40	54	12	18	118,5	98,5	16,5	12	16	200	KF-11040S
50	65	12	20	129	105,5	17,5	12	16	300	KF-11050S
63	75	16	21	137,5	113,5	21,5	15	21	350	KF-11063S

**Contro-cerniera a squadra snodata (DIN 648K)**



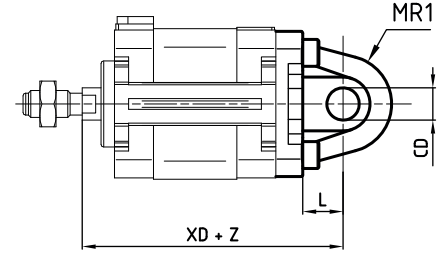
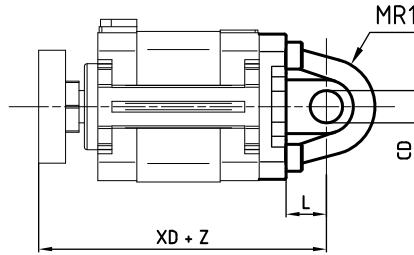
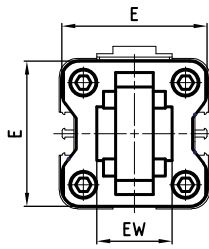
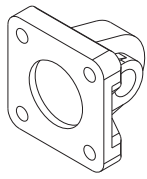
Materiale: Acciaio zincato

Ø	Q H13	P H13	BG JS14	BH Max	BI JS15	BL	BM JS15	BN JS14	BO Max	EN -0,1	ER Max	BQ Max	D H7	H +0,5	S H13	F	Massa g	Codice
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	6,6	11	18	31	21	10	32	38	51	14	15	10,5	10	8,5	20	3	178	KF-19032SC
40	6,6	11	22	35	24	10	36	41	54	16	18	12	12	8,5	20	3	268	KF-19040SC
50	9	15	30	45	33	12	45	50	65	21	20	15	16	10,5	20	3	458	KF-19050SC
63	9	15	35	50	37	12	50	52	67	21	23	15	16	10,5	20	3	550	KF-19063SC

**Cerniera posteriore maschio (ISO MP4)**

> Versione standard (con flangia)

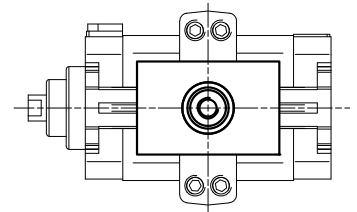
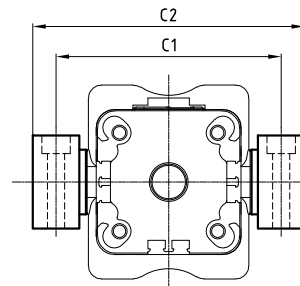
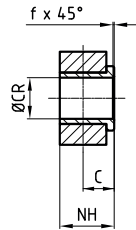
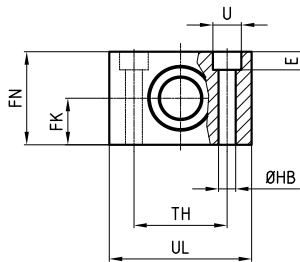
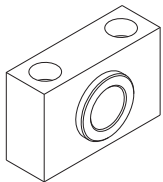
> Versione stelo maschio



Materiale: Alluminio Z = Corsa

Ø	CD H9	E	EW	L min	MR1 Max	XD (versione standard)	XD (versione stelo maschio)	Massa g	Codice
25	8	38	16 -0,2/-0,6	14	8	85 ±1,25	75 ±1,25	43	RPF-11025
32	10	48	26 -0,2/-0,6	12	15	113 ±1,25	103 ±1,25	80	KF-11032
40	12	54	28 -0,2/-0,6	15	18	117 ±1,25	107 ±1,25	100	KF-11040
50	12	65	32 -0,2/-0,6	15	20	127 ±1,25	125 ±1,25	170	KF-11050
63	16	75	40 -0,2/-0,6	20	23	136 ±1,6	124 ±1,6	250	KF-11063

**Supporto per cerniera**



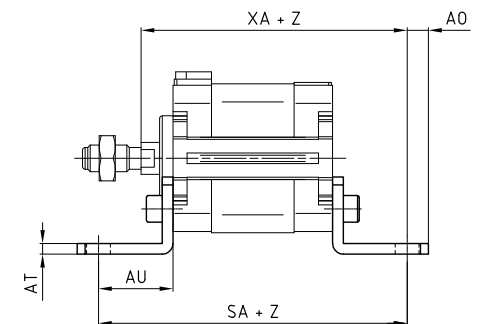
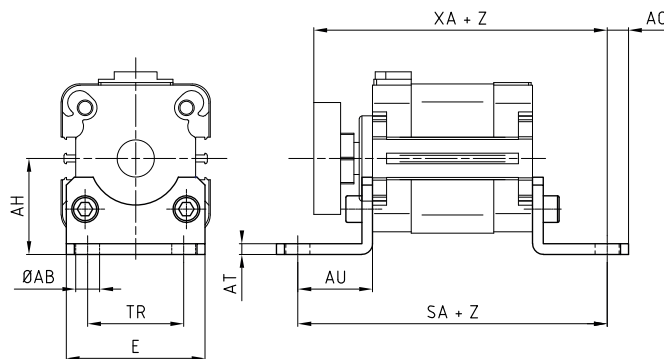
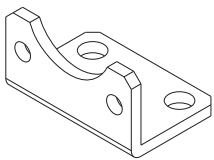
Materiale: Alluminio anodizzato e boccola in ottone

Ø	C	CR F7	FK ±0,1	FN	HB	NH	TH ±0,1	UL	U	E ±0,5	f	C1	C2	Massa g	Codice
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	10,2	12	15	30	6,6	18	32	46	11	7	1	71	86	110	KF-41032
40	12	16	18	36	9	21	36	55	15	9	1,6	87	105	200	KF-41040050
50	12	16	18	36	9	21	36	55	15	9	1,6	99	117	200	KF-41040050
63	13	20	20	40	11	23	42	65	18	11	1,6	116	136	267	KF-41063080

**Piedino ad angolo**

> Versione standard (con flangia)

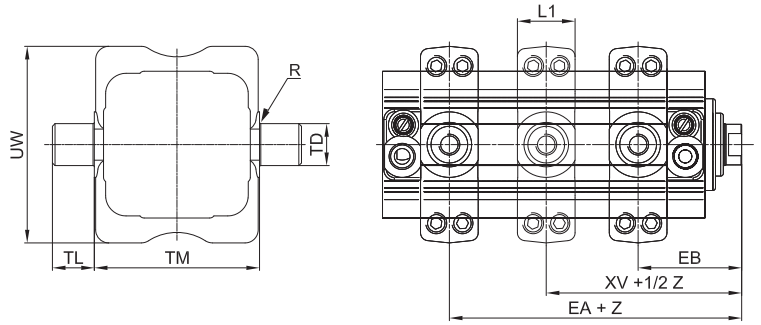
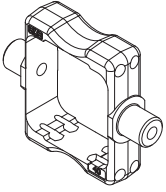
> Versione stelo maschio



Materiale: Acciaio zincato Z = Corsa

Ø	Ø AB Ø h13	AH Js15	AO	AT	AU ±0,2	E Max	SA	TR	XA	Massa g	Codice
25	6,6	30	6	4	16	40	80	26	89	40	RTF-13025
32	7	32	11	4	24	50	106	32	105	70	KF-13032
40	9	36	15	4	28	58	116	36	110	100	KF-13040
50	9	45	15	5	32	70	125	45	120	150	KF-13050
63	9	50	15	5	32	85	129	50	124	250	KF-13063

Cerniera intermedia ISO



Materiale: Acciaio zincato

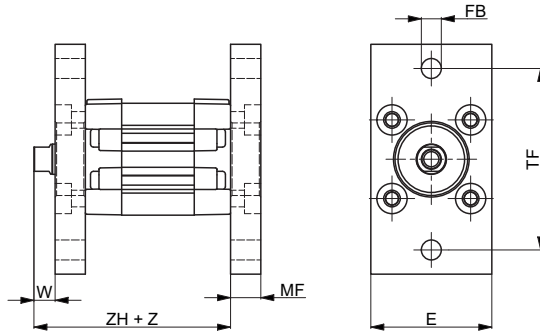
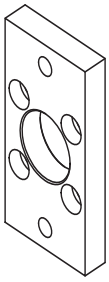
Z = Corsa

Ø	EA Max	EB min	L1 Max	R Max	TD e9	TL h14	TM h14	UW Max	XV	Massa g	Codice
25	-	-	-	-	-	-	-	-	-	-	-
32	24	34	22	0,5	12	12	50	65	29	130	KDF-14032
40	25	34	22	0,5	16	16	63	75	29,5	240	RPF-14040
50	26	35	22	1	16	16	75	95	30,5	320	RPF-14050
63	27	38	28	1	20	20	90	105	32,5	470	RPF-14063

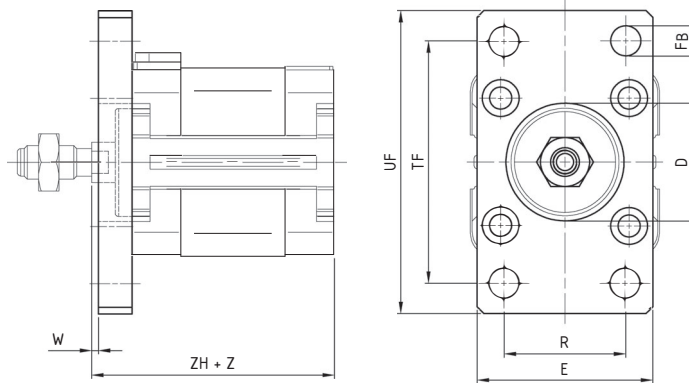
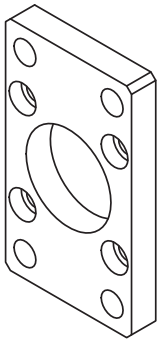


Flangia anteriore/posteriore

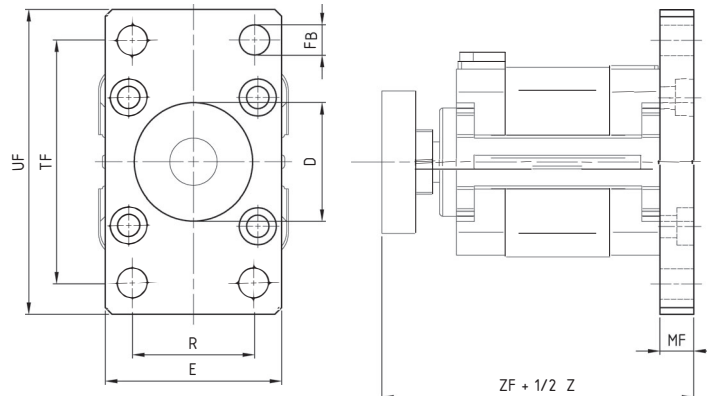
> Montaggio anteriore/posteriore Ø25 mm



> Montaggio anteriore Ø32 ÷ 63 mm



> Montaggio posteriore Ø32 ÷ 63 mm

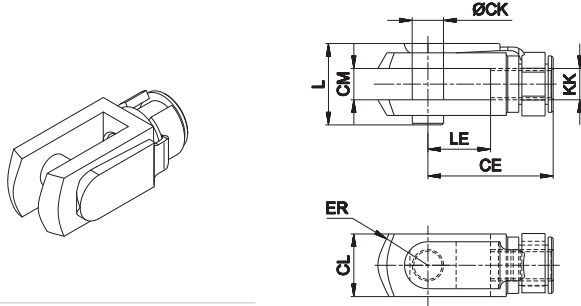


Materiale: Acciaio zincato

Z = Corsa

Ø	ØD h11	E	ØFB h13	MF	R Js14	TF Js14	UF	W	ZF	ZH	Massa g	Codice
25	24	40	6,6	10	-	60	76	7	83	58	180	RTF-12025
32	30	45	7	10	32	64	80	3	91	68	200	KF-12032
40	35	52	9	10	36	72	90	2	92	70	250	KF-12040
50	44	65	9	12	45	90	110	3	100	73	500	KF-12050
63	52	75	9	12	50	100	120	3	104	77	650	KF-12063

**Forcella femmina con clips**

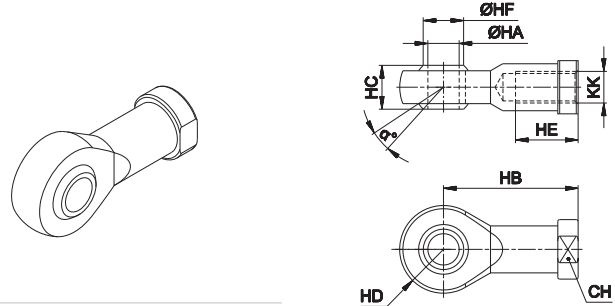


Materiale: Acciaio zincato

Cilindro Ø	CE	CK	CL	CM	ER	KK	L	LE	Massa g	Codice
25-32-40	40	10	20	10	16	M10x1,25	26	20	90	KF-15032
50-63	48	12	24	12	19	M12x1,25	32	24	150	KF-15040

Forcella adatta per stelo a norma ISO 8140 completa di perno

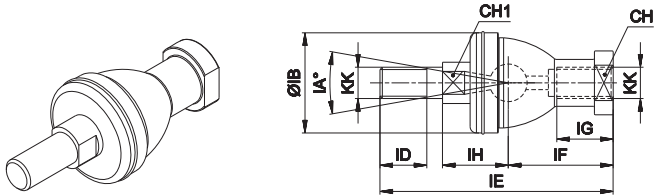
**Forcella snodata autolubrificata**



Materiale: Acciaio zincato

Cilindro Ø	α°	CH	KK	HA	HB	HC	HD	HE	HF	Massa g	Codice
25-32-40	13	17	M10x1,25	10	43	14	14 <sup>0-0,12</sup>	20	12,9	76	KF-17032
50-63	13	19	M12x1,25	12	50	16	16	22	15,4	110	KF-17040

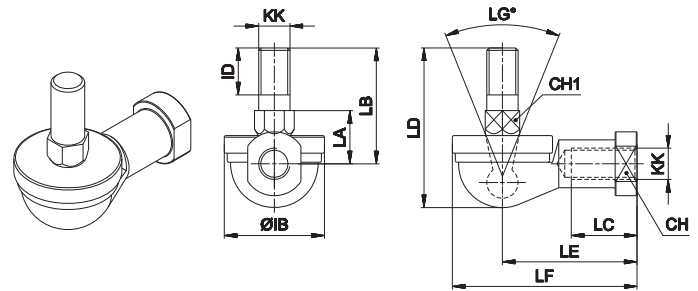
**Forcella con perno snodato in asse**



Materiale: Acciaio zincato

Cilindro Ø	CH	CH1	IA°	KK	IH	IB	ID	IE	IF	IG	Massa g	Codice
25-32-40	17	11	30	M10x1,25	19,5 ±0,3	32	15	74,5	35	18	120	KF-22025
50-63	19	17	30	M12x1,25	22 ±0,3	36	17	84	40	20	185	KF-22040

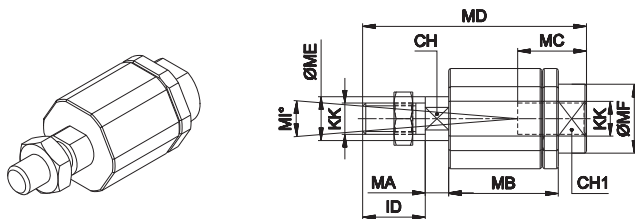
**Forcella con perno snodato ad angolo**



Materiale: Acciaio zincato

Cilindro Ø	CH	CH1	LG°	KK	IB	ID	LA	LB	LC	LD	LE	LF	Massa g	Codice
25-32-40	17	11	50	M10x1,25	32	15	17 ±0,3	37	21	50,5	43	57	110	KF-23025
50-63	19	17	50	M12x1,25	36	17	19 ±0,3	42	27	57,5	50	66	165	KF-23040

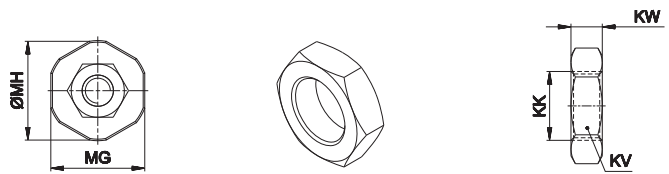
**Snodo autoallineante**



Materiale: Acciaio zincato

Cilindro Ø	CH	CH1	ID	KK	MA	MB	MC	MD	ME	MF	MG	MH	MI°	Massa g	Codice
25-32-40	12	19	71	M10x1,25	5	35	20	71	14	22	30	32	8	220	KF-24032
50-63	12	19	75	M12x1,25	5	35	20	75	14	22	30	32	8	230	KF-24040

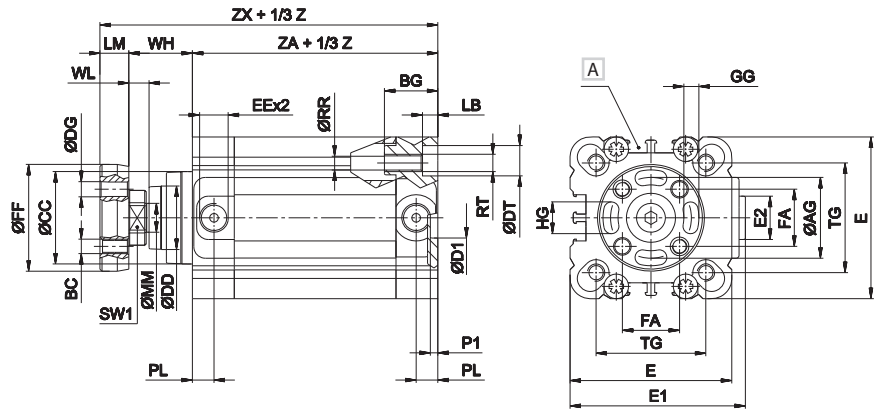
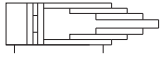
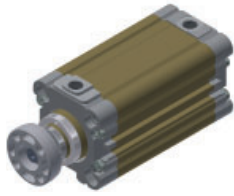
**Dado per stelo in acciaio zincato**



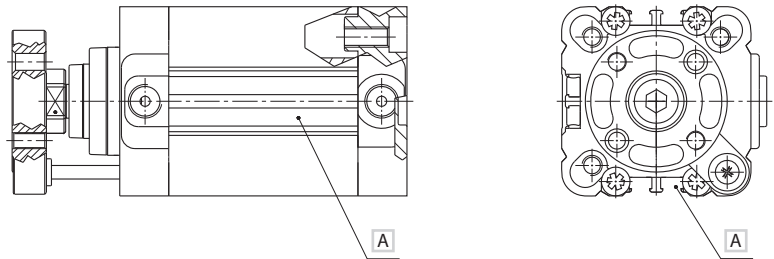
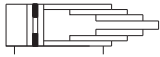
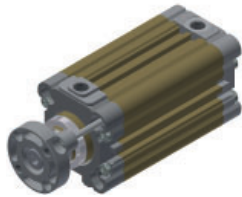
Materiale: Acciaio zincato

Cilindro Ø	KK	KV	KW	Massa g	Codice
25-32-40	M10x1,25	17	6	5	KF-16032
50-63	M12x1,25	19	7	10	KF-16040

### 3 stadi con flangia RT230...

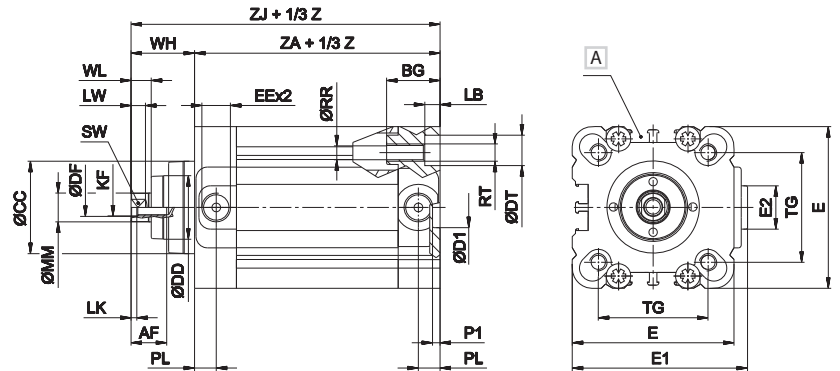
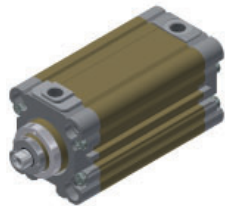


### 3 stadi magnetico RT230...M

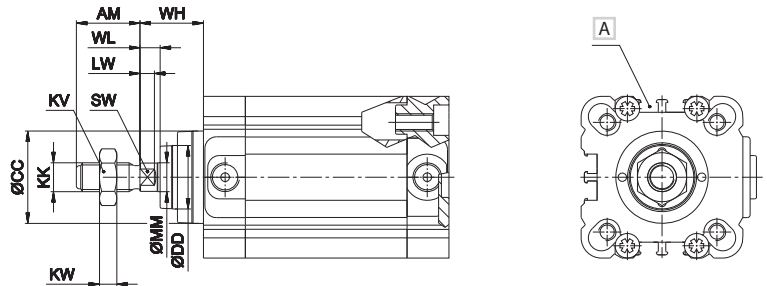
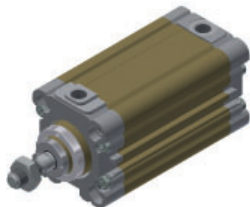


A = per la versione magnetica i sensori DF... possono essere posizionati solo in prossimità dell'astina telescopica porta magnete indicata.

### 3 stadi stelo femmina RT230...I



### 3 stadi stelo maschio RT233...



A Scanalatura per sensore

Z = Corsa

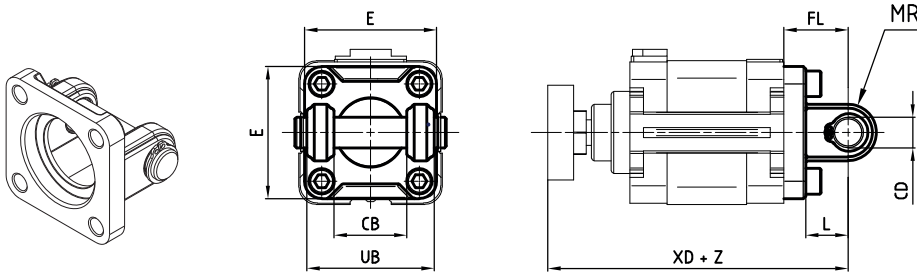
Ø	AF	AG	AM	BC	BG	CC	DF	DG	DT	D1	E	E1	E2	EE	FA	FF	GG	HG	KF	KK	KV	KW	LB	LK	LM
40	12	33	22	M5	18	32	8,2	5	9	14	56	60,5	16	G1/8	23,3	42	5,2	15	M8	M10x1,25	17	4	5,3	2	10
50	16	42	24	M6	24	40	10,2	6	11	18	66	70,5	16	G1/8	29,7	52	6,2	19	M10	M10x1,25	19	5	6,5	2	12
63	16	50	24	M6	24	48	10,2	6	11	18	79	83,5	38	G1/8	35,4	64	6,2	25	M10	M10x1,25	19	5	6,5	2	12

Varianti dimensionali per RT230...M

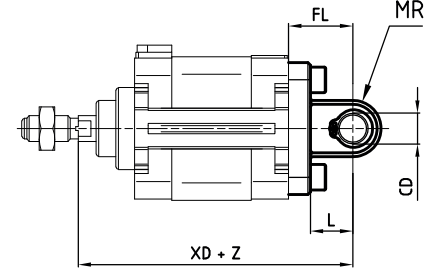
Ø	LW	MM	PL	P1	RR	RT	SW	SW1	TG	WH	WL	ZA	ZJ	ZX	Ø	AG	BC	DG	FA	FF	GG	HG	LM	SW2	ZX
40	5	12	7,5	2,5	5,2	M6	10	19	38	22	7	60	82	92	40	33	M5	5	23,3	42	5,2	15	10	19	92
50	6	16	7,5	2,5	6,6	M8	13	24	46,5	24	7	61	85	95	50	42	M6	6	29,7	52	6,2	19	12	24	97
63	6	16	7,5	2,5	6,6	M8	13	24	56,5	25	7	65	90	100	63	50	M6	6	35,4	64	6,2	25	12	24	102

Cerniera femmina con perno (ISO MP2)

> Versione standard (con flangia)



> Versione stelo maschio



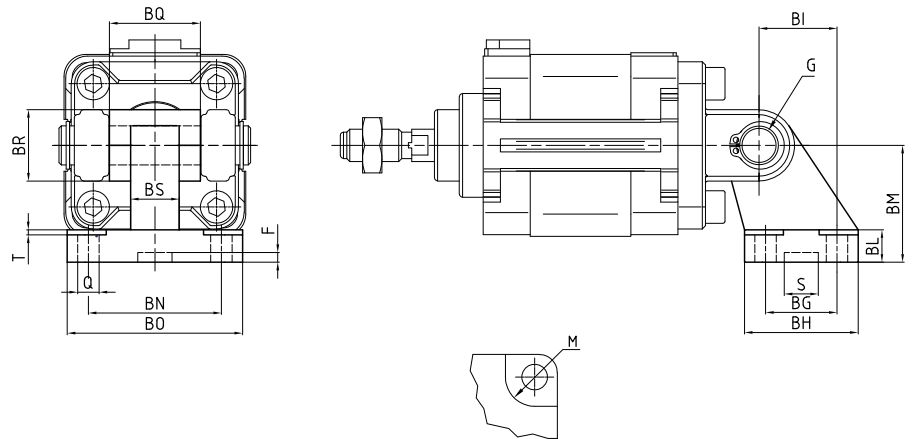
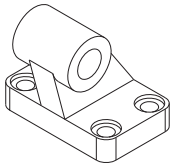
Materiale:

Alluminio

Z = Corsa

Ø	CB	CD	E	FL	L	MR	UB	XD (versione standard)		XD (versione stelo maschio)		Massa g	Codice
	H14	H9		± 0,2			H14	±1,25	±1,25	g			
40	28	12	54	25	15	13	52	107	±1,25	97	±1,25	110	KF-10040A
50	32	12	65	27	15	13	60	115	±1,25	103	±1,25	150	KF-10050A
63	40	16	75	32	20	17	70	124	±1,6	112	±1,6	270	KF-10063A

Contro-cerniera a 90° (AB7)

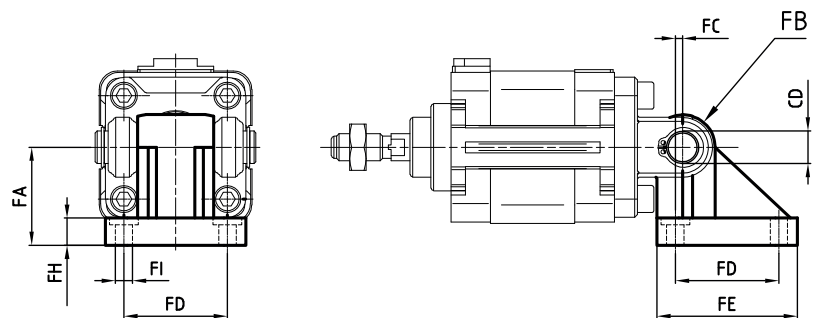
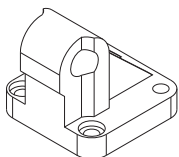


Materiale:

Alluminio

Ø	Q	M	BG	BH	BI	BL	BM	BN	BO	BS	BR	T	G	S	F	BQ	Massa g	Codice	
	H13	H13	JS 14	Max	JS 14	JS 15	JS 14	Max	Max	Max	Max	H9	<sup>+0,5</sup> <sub>0</sub>	<sup>+0,5</sup> <sub>0</sub>					
40	6,6	11	22	35	24	10	36	41	54	15	22	1,6	12	10,5	3	28	+0,2 -0,6	139	KF-19040CTA
50	9	15	30	45	33	12	45	50	65	16	26	1,6	12	10,5	3	32		142	KF-19050CTA
63	9	15	35	50	37	14	50	52	67	16	30	1,6	16	10,5	3	40		200	KF-19063CTA

Contro-cerniera a 90°

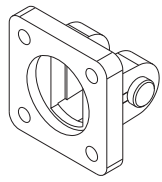


Materiale:

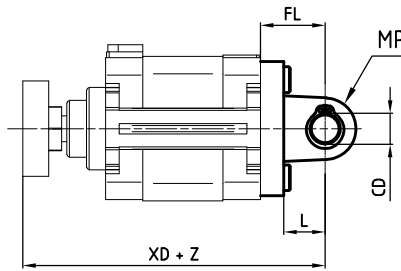
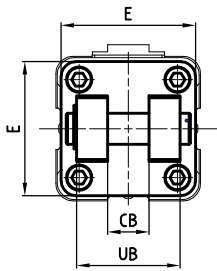
Alluminio

Ø	CD	FA	FB	FC	FD	FE	FH	FI	Massa g	Codice
	H9									
40	12	36	12	2,6	38	51,5	9	6,5	120	KF-19040
50	12	45	12	0,3	46,5	63,5	9	8,5	200	KF-19050
63	16	50	16	3,3	56,5	73	10,5	8,5	320	KF-19063

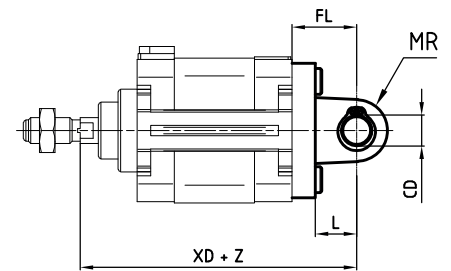
**Cerniera femmina stretta con perno (DIN 648K)**



> Versione standard (con flangia)



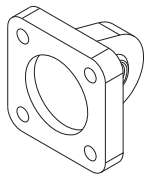
> Versione stelo maschio



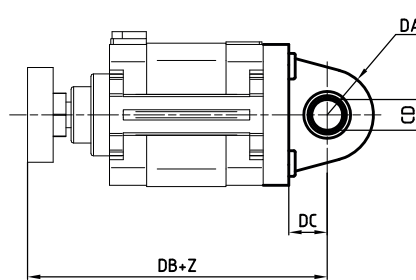
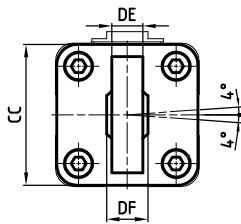
Materiale: Alluminio Z = Corsa

Ø	CB H14	CD H9	E	FL ± 0,2	L min	MR Max	UB H14	XD (versione standard)	XD (versione stelo maschio)	Massa g	Codice
40	16	12	52	25	16	12	40	107 ±1,25	97 ±1,25	112	KF-10040AS
50	21	16	65	27	16	14	45	115 ±1,25	103 ±1,25	196	KF-10050AS
63	21	16	75	32	21	18	51	124 ±1,6	112 ±1,6	288	KF-10063AS

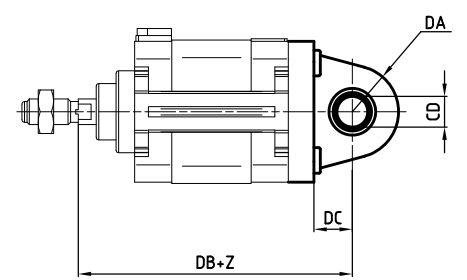
**Cerniera posteriore maschio snodata (ISO MP6)**



> Versione standard (con flangia)



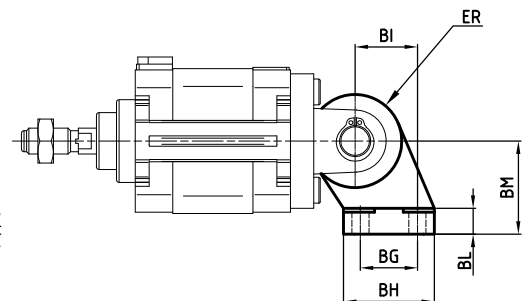
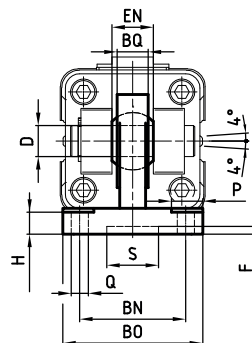
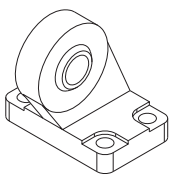
> Versione stelo maschio



Materiale: Alluminio Z = Corsa

Ø	CC	CD H9	DA	DB (versione standard)	DB (versione stelo maschio)	DC	DE	DF	Massa g	Codice
40	54	12	18	107	97	16,5	12	16	200	KF-11040S
50	65	12	20	115	103	17,5	12	16	300	KF-11050S
63	75	16	21	124	112	21,5	15	21	350	KF-11063S

**Contro-cerniera a squadra snodata (DIN 648K)**



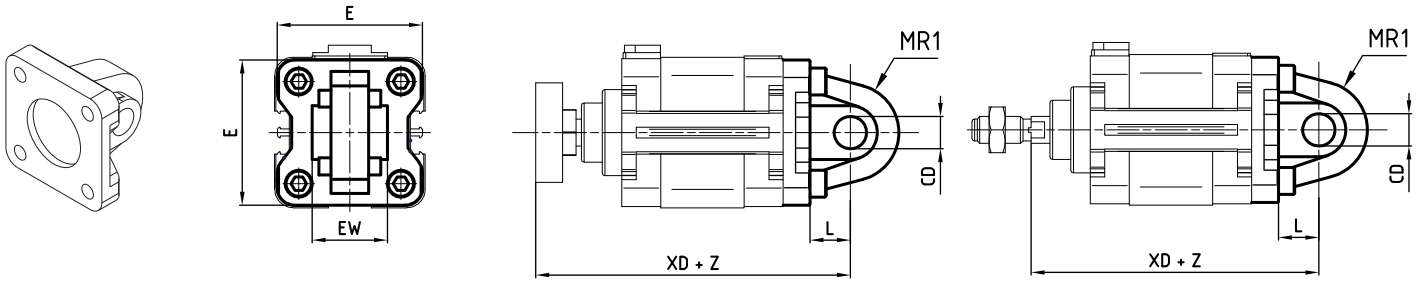
Materiale: Acciaio zincato

Ø	Q H13	P H13	BG JS14	BH Max	BI JS15	BL	BM JS15	BN JS14	BO Max	EN 0,1	ER Max	BQ Max	D H7	H +0,5	S H13	F	Massa g	Codice
40	6,6	11	22	35	24	10	36	41	54	16	18	12	12	8,5	20	3	268	KF-19040SC
50	9	15	30	45	33	12	45	50	65	21	20	15	16	10,5	20	3	458	KF-19050SC
63	9	15	35	50	37	12	50	52	67	21	23	15	16	10,5	20	3	550	KF-19063SC

**Cerniera posteriore maschio (ISO MP4)**

> Versione standard (con flangia)

> Versione stelo maschio

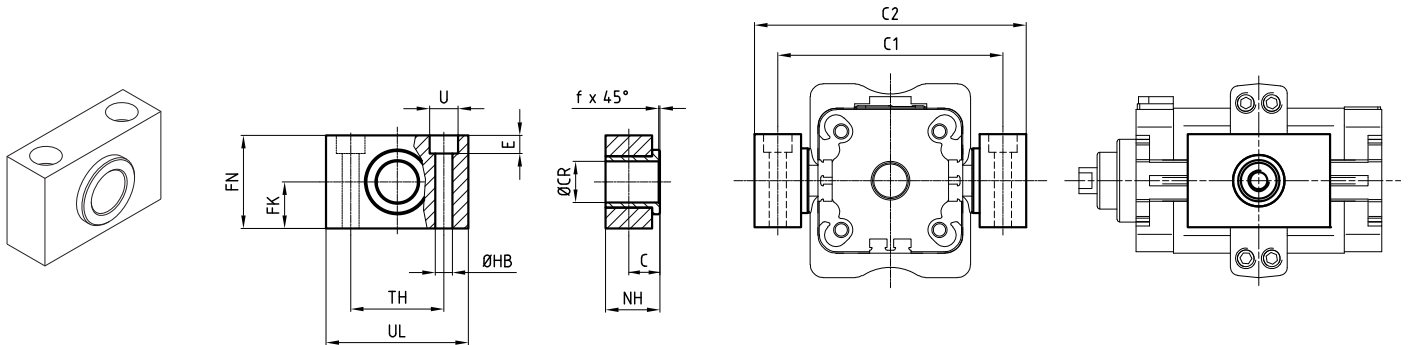


Materiale: Alluminio

Z = Corsa

Ø	CD H9	E	EW	L min	MR1 Max	XD (versione standard)		XD (versione stelo maschio)		Massa g	Codice	
							±		±			
40	12	54	28	-0,2/-0,6	15	18	107	±1,25	97	±1,25	100	KF-11040
50	12	65	32	-0,2/-0,6	15	20	115	±1,25	103	±1,25	170	KF-11050
63	16	75	40	-0,2/-0,6	20	23	124	±1,6	112	±1,6	250	KF-11063

**Supporto per cerniera**



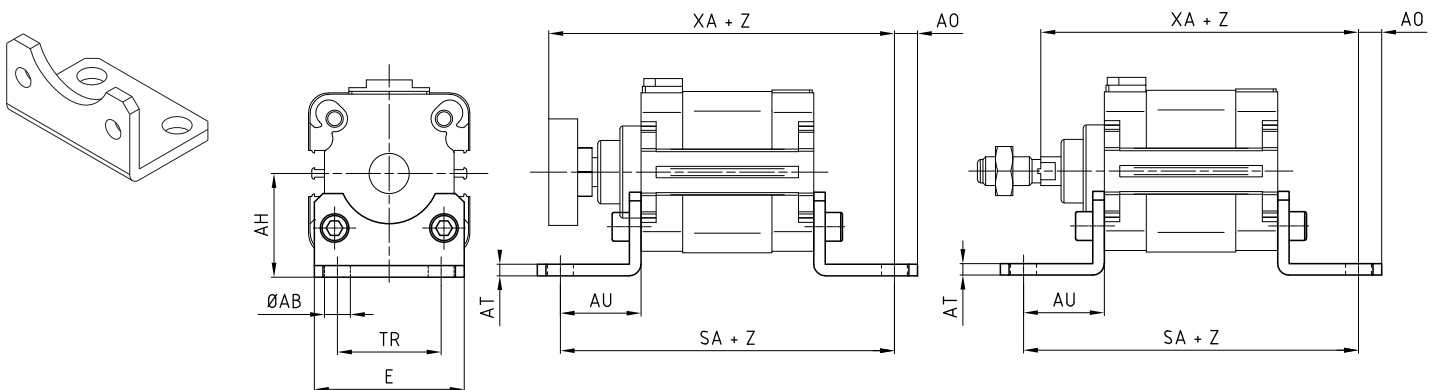
Materiale: Alluminio anodizzato e boccola in ottone

Ø	C	CR F7	FK ±0,1	FN	HB	NH	TH ±0,1	UL	U	E ±0,5	F	C1	C2	Massa g	Codice
50	12	16	18	36	9	21	36	55	15	9	1,6	99	117	200	KF-41040050
63	13	20	20	40	11	23	42	65	18	11	1,6	116	136	267	KF-41063080

**Piedino ad angolo**

> Versione standard (con flangia)

> Versione stelo maschio

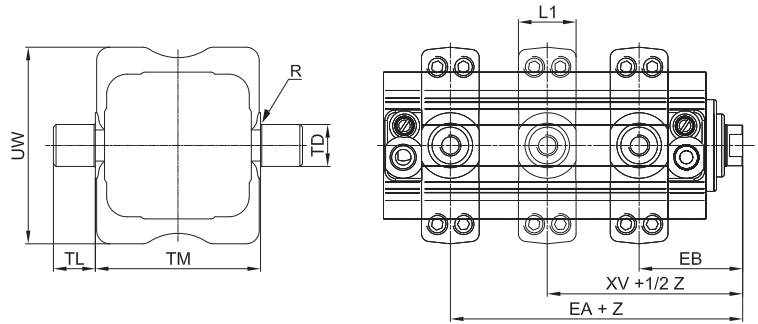
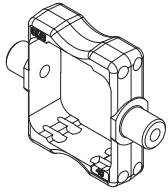


Materiale: Acciaio zincato

Z = Corsa

Ø	Ø AB Ø h13	AH Js15	AO	AT	AU ±0,2	E Max	SA	TR	XA	Massa g	Codice
50	9	45	15	5	32	70	125	45	120	150	KF-13050
63	9	50	15	5	32	85	129	50	124	250	KF-13063

**Cerniera intermedia ISO**

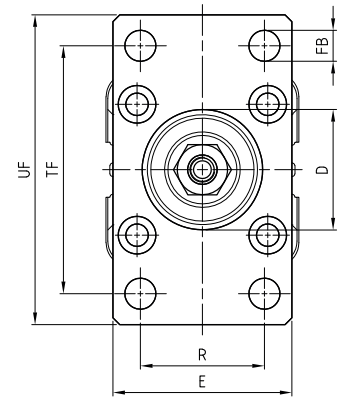
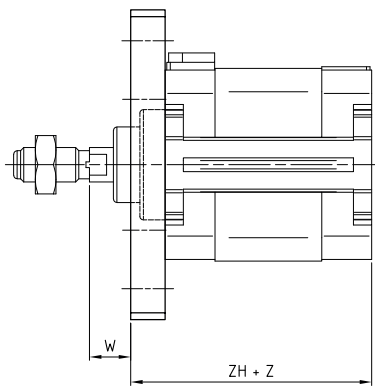
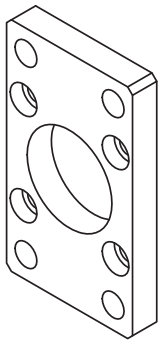


Materiale: Acciaio zincato

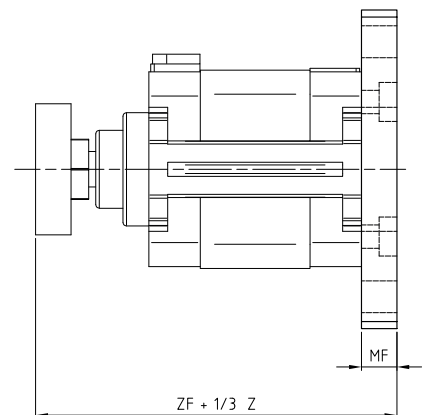
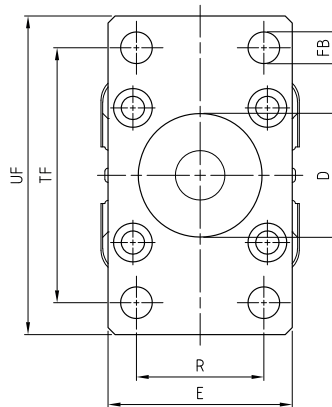
Ø	EA	EB	L1	R	TD	TL	TM	UW	XV	Massa	Codice
	Max	min	Max	Max	e9	h14	h14	Max	Max		
40	25	34	22	0,5	16	16	63	75	29,5	268	KF-19040SC
50	26	35	22	1	16	16	75	95	30,5	458	KF-19050SC
63	27	38	28	1	20	20	90	105	32,5	550	KF-19063SC

**Flangia anteriore/posteriore**

> Montaggio anteriore



> Montaggio posteriore

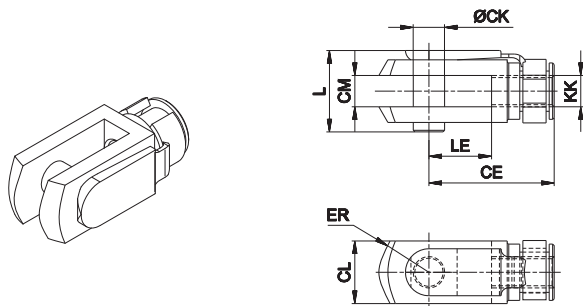


Materiale: Acciaio zincato

Z = Corsa

Ø	ØD	E	ØFB	MF	R	TF	UF	W	ZF	ZH	Massa	Codice
	h11		h13		Js14	Js14						
40	35	52	9	10	36	72	90	2	92	70	250	KF-12040
50	44	65	9	12	45	90	110	3	100	73	500	KF-12050
63	52	75	9	12	50	100	120	3	104	77	650	KF-12063

**Forcella femmina con clips**

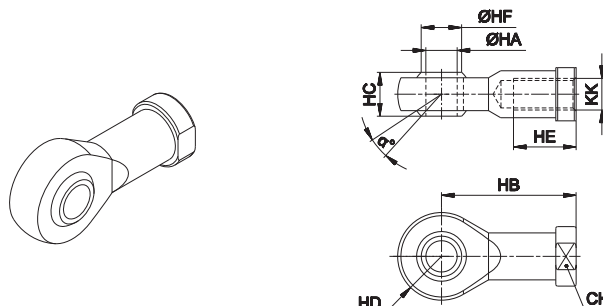


Materiale: Acciaio zincato

Cilindro Ø	CE	CK	CL	CM	ER	KK	L	LE	Massa g	Codice
40	40	10	20	10	16	M10x1,25	26	20	90	KF-15032
50 - 63	48	12	24	12	19	M12x1,25	32	24	150	KF-15040

Forcella adatta per stelo a norma ISO 8140 completa di perno

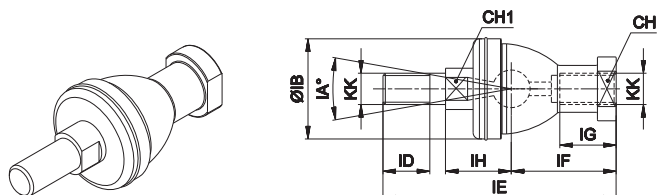
**Forcella snodata autolubrificata**



Materiale: Acciaio zincato

Cilindro Ø	α°	CH	KK	HA	HB	HC	HD	HE	HF	Massa g	Codice
40	13	17	M10x1,25	10	43	14	14 <sup>0-0,12</sup>	20	12,9	76	KF-17032
50 - 63	13	19	M12x1,25	12	50	16	16	22	15,4	110	KF-17040

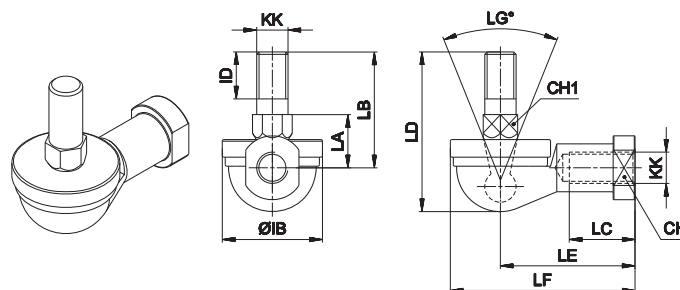
**Forcella con perno snodato in asse**



Materiale: Acciaio zincato

Cilindro Ø	CH	CH1	IA°	KK	IH	IB	ID	IE	IF	IG	Massa g	Codice
40	17	11	30	M10x1,25	19,5 ±0,3	32	15	74,5	35	18	120	KF-22025
50 - 63	19	17	30	M12x1,25	22	36	17	84	40	20	185	KF-22040

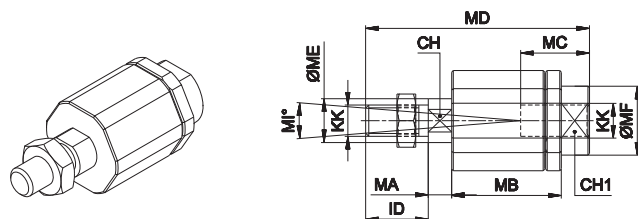
**Forcella con perno snodato ad angolo**



Materiale: Acciaio zincato

Cilindro Ø	CH	CH1	LG°	KK	IB	ID	LA	LB	LC	LD	LE	LF	Massa g	Codice
40	17	11	50	M10x1,25	32	15	17 ±0,3	37	21	50,5	43	57	110	KF-23025
50 - 63	19	17	50	M12x1,25	36	17	19	42	27	57,5	50	66	165	KF-23040

**Snodo autoallineante**



Materiale: Acciaio zincato

Cilindro Ø	CH	CH1	ID	KK	MA	MB	MC	MD	ME	MF	MG	MH	MI°	Massa g	Codice
40	12	19	71	M10x1,25	5	35	20	71	14	22	30	32	8	220	KF-24032
50 - 63	12	19	75	M12x1,25	5	35	20	75	14	22	30	32	8	230	KF-24040

**Dado per stelo in acciaio zincato**



Materiale: Acciaio zincato

Cilindro Ø	KK	KV	KW	Massa g	Codice
40	M10x1,25	17	6	5	KF-16032
50 - 63	M12x1,25	19	7	10	KF-16040