



### Pressures

1 bar (0.1 MPa)  
10 bar (1 MPa)



### Reference Standard

1907/2006  
REACH ✓

2011/65/CE  
RoHS ✓

SILICON  
FREE

ATEX  
2014/34/UE



### Temperature

0 °C (-20 °C with dry air)  
+ 80 °C



### Sensors recommended

DF - DT

## CHARACTERISTICS

Fluids	Filtered lubricated and non-lubricated compressed air
Nut	Galvanized steel
Front and rear head	die-cast aluminum
Bearing shell	Sintered bronze
Tie rod	Galvanized steel
O-RING seals	NBR o FKM
Piston	Aluminum
Tube	Anodized aluminum
Piston guide	Acetal resin
Piston seal	Polyurethane or FKM
Shock absorber pin	Galvanized steel
Shock absorber seal	Polyurethane or FKM
Fixing screw	Galvanized steel
Rod seal	Polyurethane or FKM
Rod	Chromed steel or stainless steel
Magnet	Plastoferrite
Operation	Double-acting, cushioned, magnetic, single-rod or through-rod type..



II 2GD cT6 -20°C < Tamb < +80°C



Series

Version

Ø mm

Stroke

**B B**



**0 1 2**

**0 0 2 5**

**BB** Single-Acting Magnetic  
**BD** Single-Acting Magnetic Molla in thrust  
**BF** Double acting Magnet  
**BJ** Double acting Through piston rod Magnet  
**BFA** Double acting Magnet Antirotation

= Standard female rod  
**M** = Male rod (NO QFA)

012  
016  
020  
025  
032  
040  
050  
063  
080  
100

0005  
0010  
0015  
0020  
0025  
0030  
0040  
0050  
0075  
0100

Intermediate or higher strokes are available on request.

Thrust and traction forces														
Cylinder ∅	Rod ∅	Effective area mm <sup>2</sup>		Working pressure bar										
				1	2	3	4	5	6	7	8	9	10	
<b>Developed force</b>														
12	6	S	=	113	10	20	30	40	50	60	70	80	90	100
		T	=	85	7,5	15	22	30	37	45	52	60	68	75
16	8	S	=	200	18	35	53	70	90	105	125	145	160	180
		T	=	150	13	26	40	53	65	80	95	105	120	130
20	10	S	=	314	28	55	85	110	140	170	195	220	250	280
		T	=	235	21	42	60	85	105	125	150	170	190	210
25	10	S	=	490	44	88	132	176	220	264	308	352	396	440
		T	=	412	36	72	108	144	180	216	252	288	324	360
32	12	S	=	804	72	144	216	288	360	432	504	576	648	720
		T	=	691	62	124	186	248	310	372	434	496	558	620
40	12	S	=	1257	110	220	330	440	550	660	770	880	990	1100
		T	=	1144	100	200	300	400	500	600	700	800	900	1000
50	16	S	=	1963	175	350	525	700	875	1050	1225	1400	1575	1750
		T	=	1762	155	310	465	620	775	930	1085	1240	1395	1550
63	16	S	=	3117	280	560	840	1120	1400	1680	1960	2240	2520	2800
		T	=	2916	260	520	780	1040	1300	1560	1820	2080	2340	2600
80	20	S	=	5027	450	900	1350	1800	2250	2700	3150	3600	4050	4500
		T	=	4712	420	840	1260	1680	2100	2520	2940	3360	3780	4200
100	25	S	=	7854	700	1400	2100	2800	3500	4200	4900	5650	6360	7000
		T	=	7363	660	1320	1980	2640	3300	3960	4620	5280	5940	6600

S Thrust; T Traction

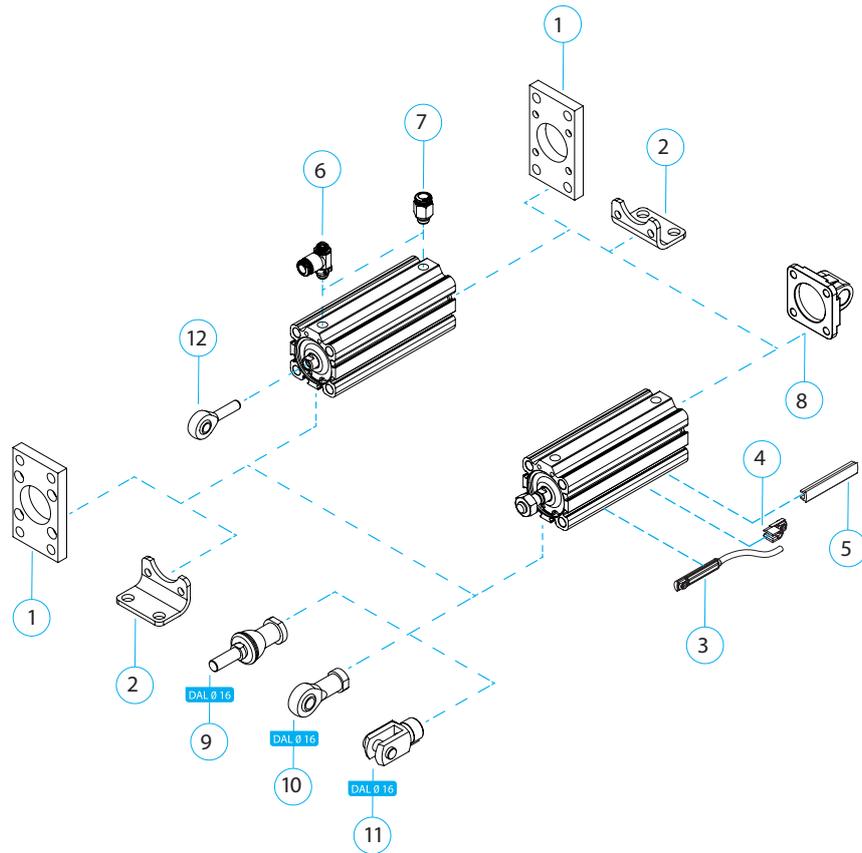
Spring forces										
Cylinder ∅	spring forces	Stroke								
		5	10	15	20	25	30	40	50	
<b>Developed force</b>										
12	R	7,5	6,8	6	5,2	4,5	-	-	-	-
	C	8	8	8	8	8	-	-	-	-
16	R	12,3	10,8	9,5	7,8	6,5	-	-	-	-
	C	13,3	13,3	13,3	13,3	13,3	-	-	-	-
20	R	15,7	14	12,2	10,4	8,7	-	-	-	-
	C	17,4	17,4	17,4	17,4	17,4	-	-	-	-
25	R	19,5	18,5	17,3	16	15	-	-	-	-
	C	22	22	22	22	22	-	-	-	-
32	R	13,1	23,6	34	39,3	44,5	49,8	55	60,3	60,3
	C	65,5	65,5	65,5	65,5	65,5	65,5	65,5	65,5	65,5
40	R	44,7	42,2	39,6	37	34,4	31,8	26,7	21,6	21,6
	C	47,3	47,3	47,3	47,3	47,3	47,3	47,3	47,3	47,3
50	R	32,6	31	29,6	28,1	26,6	25,1	22,2	19,2	19,2
	C	34	34	34	34	34	34	34	34	34
63	R	62,3	59,8	57,2	54,7	52,2	49,7	44,6	39,6	39,6
	C	64,8	64,8	64,8	64,8	64,8	64,8	64,8	64,8	64,8
80	R	90,7	87	84,4	81,3	78	75	68,7	62,5	62,5
	C	93,8	93,8	93,8	93,8	93,8	93,8	93,8	93,8	93,8
100	R	156	150	145	140	134	129	118	107	107
	C	161	161	161	161	161	161	161	161	161

R Spring load at rest; C Compressed spring load

Cylinder air consumption														
Cylinder ∅	Rod ∅	Effective area mm <sup>2</sup>		Working pressure bar										
				1	2	3	4	5	6	7	8	9	10	
<b>Air consumption per 10 mm of stroke</b>														
12	6	S	=	113	0,002	0,003	0,005	0,006	0,007	0,008	0,009	0,010	0,011	0,012
		T	=	85	0,002	0,003	0,003	0,004	0,005	0,006	0,007	0,008	0,009	0,009
16	8	S	=	200	0,004	0,006	0,008	0,010	0,012	0,014	0,016	0,018	0,020	0,022
		T	=	150	0,003	0,005	0,006	0,008	0,009	0,011	0,012	0,014	0,015	0,017
20	10	S	=	314	0,006	0,009	0,013	0,016	0,019	0,022	0,025	0,028	0,031	0,035
		T	=	235	0,005	0,007	0,009	0,012	0,014	0,016	0,019	0,021	0,024	0,026
25	10	S	=	490	0,010	0,015	0,020	0,025	0,029	0,034	0,039	0,044	0,049	0,054
		T	=	412	0,008	0,012	0,016	0,021	0,025	0,029	0,033	0,037	0,041	0,045
32	12	S	=	804	0,016	0,024	0,032	0,040	0,048	0,056	0,064	0,072	0,080	0,088
		T	=	691	0,014	0,021	0,028	0,035	0,041	0,048	0,055	0,062	0,069	0,076
40	12	S	=	1257	0,025	0,038	0,050	0,063	0,075	0,088	0,101	0,113	0,126	0,138
		T	=	1144	0,023	0,034	0,046	0,057	0,069	0,080	0,092	0,103	0,114	0,126
50	16	S	=	1963	0,039	0,059	0,079	0,098	0,118	0,137	0,157	0,177	0,196	0,216
		T	=	1762	0,035	0,053	0,070	0,088	0,106	0,123	0,141	0,159	0,176	0,194
63	16	S	=	3117	0,062	0,094	0,125	0,156	0,187	0,218	0,249	0,281	0,312	0,343
		T	=	2916	0,058	0,087	0,117	0,146	0,175	0,204	0,233	0,262	0,292	0,321
80	20	S	=	5027	0,101	0,151	0,201	0,251	0,302	0,352	0,402	0,452	0,503	0,553
		T	=	4712	0,094	0,141	0,188	0,236	0,283	0,330	0,377	0,424	0,471	0,518
100	25	S	=	7854	0,157	0,236	0,314	0,393	0,471	0,550	0,628	0,707	0,785	0,864
		T	=	7363	0,147	0,221	0,295	0,368	0,442	0,515	0,589	0,663	0,736	0,810

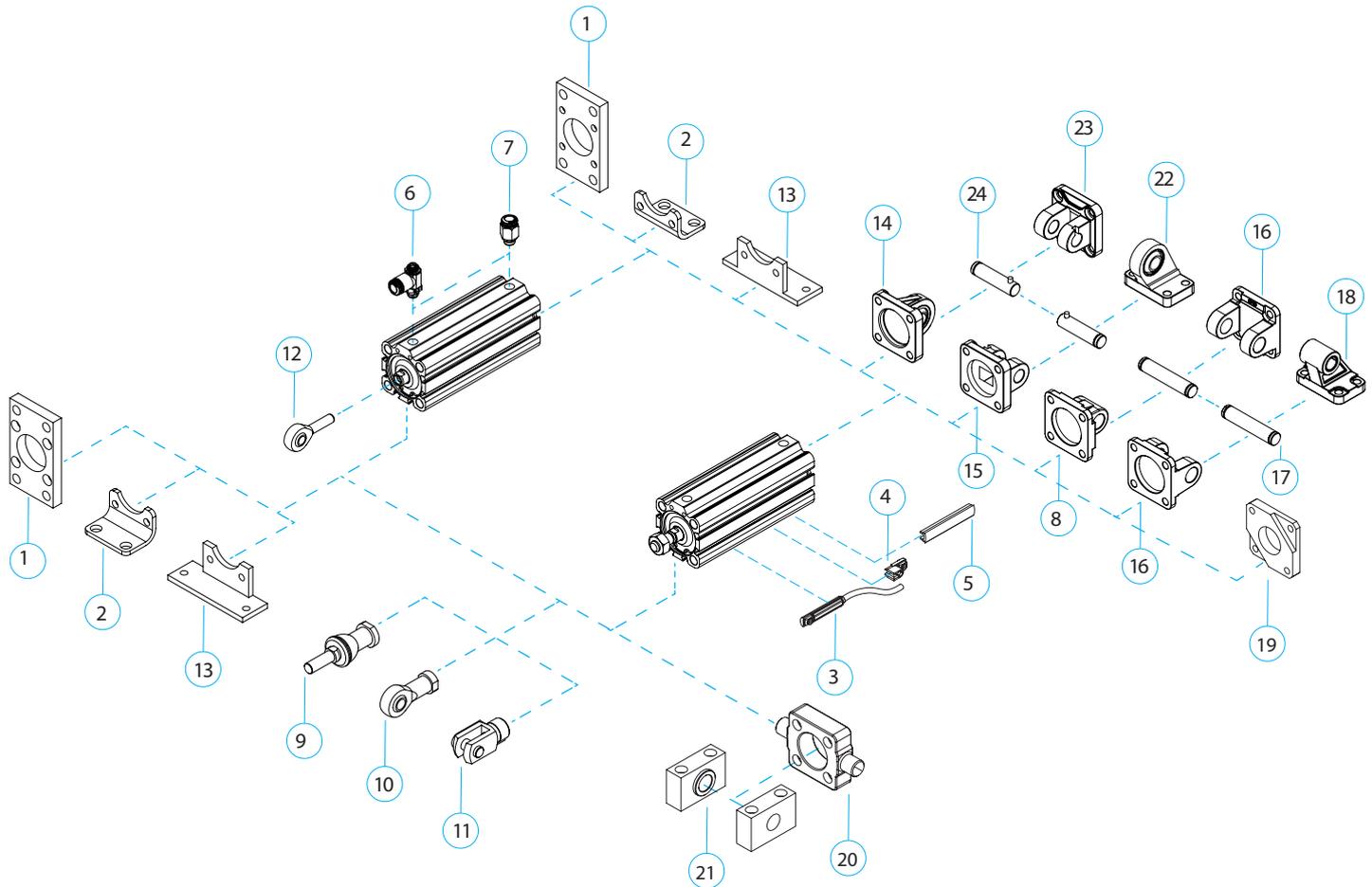
S Thrust; T Traction

FIXING ELEMENTS AND ACCESSORIES - SERIES B Ø12 - Ø25



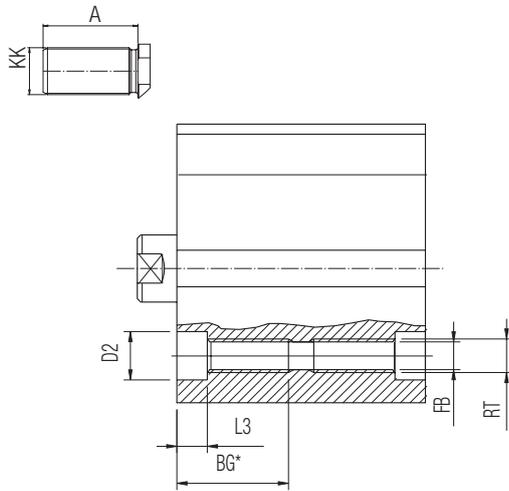
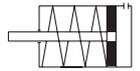
1	FLANGE - QFL
2	LOW-RISE PEDESTAL - QCP
3	SENSOR DF - DSL - DSH
4	CABLE CLAMPING FOR DF SENSOR
5	DHF COVERING STRIP
6	FLOW REGULATOR
7	QUICK CONNECTOR
8	MALE HINGE WITH SELF-LUBRICATING BUSHES - QCM
9	SNODABLE YOKE - TS
10	ROD ENDS SELF-LUBRICATING - TF
11	YOKE WITH LOCABLE PIN - FC
12	MALE ROD ENDS - TM

FIXING ELEMENTS AND ACCESSORIES - SERIES B Ø32 - Ø100



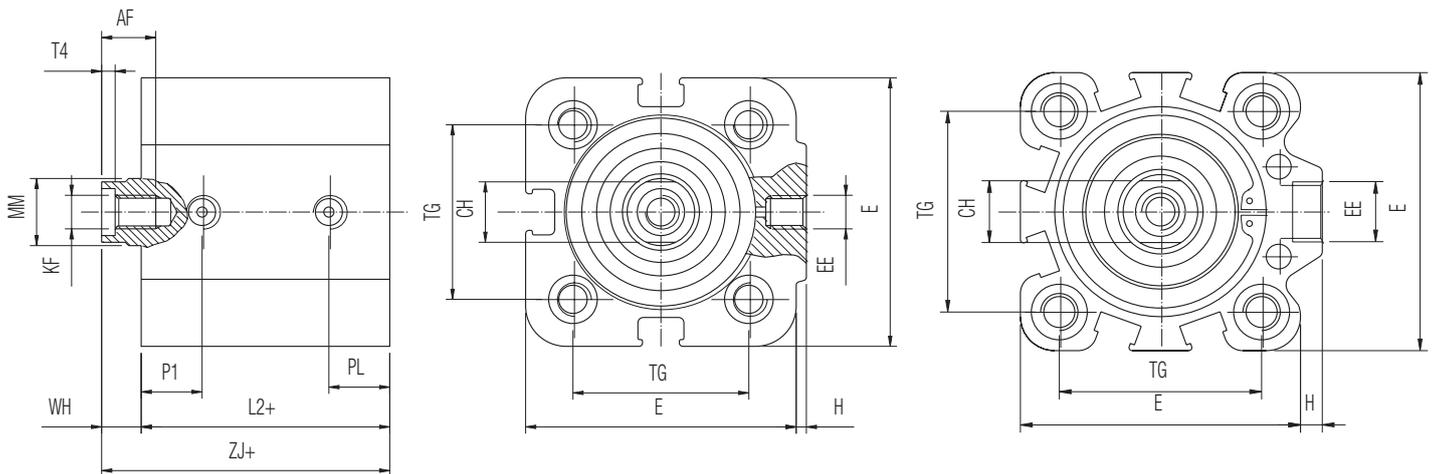
1	FLANGE - VFL
2	LOW-RISE PEDESTAL - VCP
3	SENSOR DF - DSL - DSH
4	CABLE CLAMPING FOR DF SENSOR
5	DHF COVERING STRIP
6	FLOW REGULATOR
7	QUICK CONNECTOR
8	MALE CLEVIS WITH SELF-LUBRICATING BUSHES - VCM
9	SNODABLE YOKE- TS
10	ROD ENDS SELF-LUBRICATING - TF
11	YOKE WITH LOCABLE PIN - FC
12	MALE ROD ENDS - TM
13	LARGE LOW-RISE PEDESTAL - VCB
14	NARROW MALE HINGE WITH ARTICULATED HEAD DIN648K - VCS
15	NARROW FEMALE HINGE FOR SQUARE JOINT WITH ARTICULATED HEAD DIN648K - VCD
16	FEMALE HINGE WITH SELF-LUBRICATING BUSHES - VCF / VCH
17	PIN ANTI-ROTATION FOR NARROW FEMALE HINGE VCD - VPS
18	SQUARE JOINT - VAS
19	FLANGE FOR OPPOSED CYLINDERS - KF36
20	FRONT/REAR HINGE - VCNF
21	SUPPORT FOR INTERMEDIATE HINGE - VSI
22	ARTICULATED COUNTER HINGE - VADZ
23	NARROW FEMALE HINGE FOR SQUARE JOINT WITH ARTICULATED HEAD DIN648K - VCD
24	PIN WITH SEEGER - VPE

BB - SINGLE-ACTING MAGNETIC



Ø 12 - 16 - 20 - 25

Ø 32 - 40 - 50 - 63 - 80 - 100

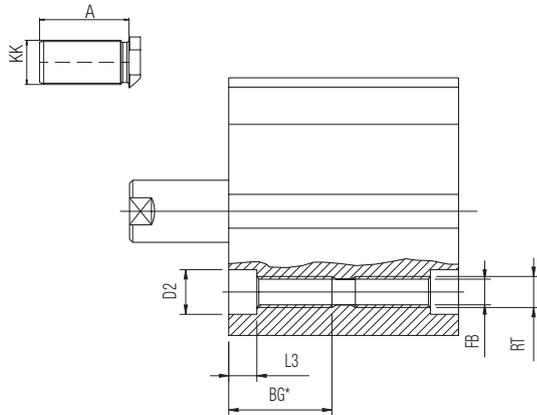
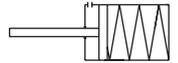


Ø	KK	A	AF	RT	BG*	ØD2	E	EE	ØFB	H	KF	L2+	L3	ØMM	P1	PL	T4	TG	WH	ZJ+	CH
12	M6	16	6	M4	12.5	5.5	29	M5	3.3	1	M3	28	3.5	6	7.5	7.5	1.5	18	6	34	5
16	M8	20	8	M4	14.5	5.5	29	M5	3.3	1	M4	30.5	3.5	8	8.5	8.5	2	18	6	36.5	7
20	M10X1,25	22	8	M5	16.5	7.2	36	M5	4.2	1.5	M5	31.5	4.5	10	9	9	2	22	6	37.5	9
25	M10X1,25	22	8	M5	16.5	7.2	40	M5	4.2	1.5	M5	31.5	4.5	10	9	9	2	26	6	37.5	9
32	M10X1,25	22	10	M6	21.7	8.5	45	G1/8	5	3.5	M6	32	5.7	12	10	10	2.8	32.5	7	39	10
40	M10X1,25	22	10	M6	21.7	8.5	52	G1/8	5	5	M6	38.5	5.7	12	11	11	2.8	38	7.2	45.7	10
50	M12X1,25	24	12	M8	22.8	10	63.5	G1/8	6.8	7	M8	39	6.8	16	11	11	3.5	46.5	8.5	47.5	13
63	M12X1,25	24	12	M8	22.8	10	77	G1/8	6.8	7	M8	46	6.8	16	11.5	11.5	3.5	56.5	8	54	13
80	M16X1,5	32	16	M10	25	13	92	G1/8	8.5	10	M10	54	9	20	14	14	4.5	72	11	65	17
100	M20X1,5	40	20	M10	25	13	113	G1/4	8.5	13	M12	65	9	25	17.5	17.5	6	89	12	77	22

\* = Through threads only on small strokes

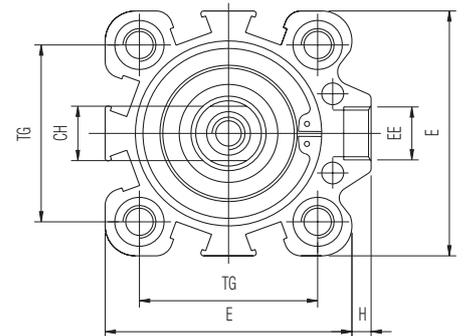
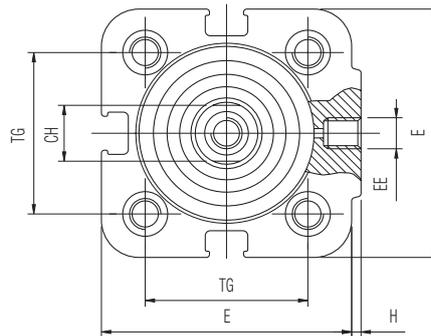
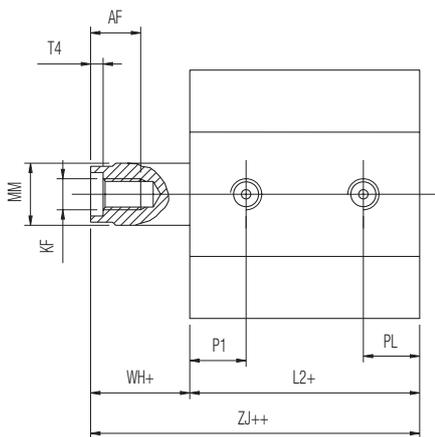
+ = Add Stroke

BD - SINGLE-ACTING MAGNETIC - SPRING THRUST



Ø 12 - 16 - 20 - 25

Ø 32 - 40 - 50 - 63 - 80 - 100

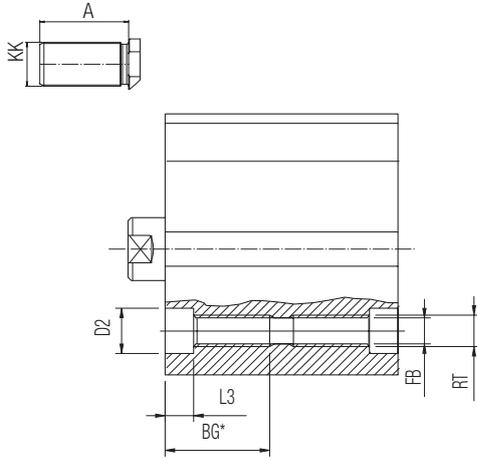
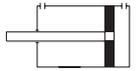


Ø	KK	A	AF	RT	BG*	ØD2	E	EE	ØFB	H	KF	L2+	L3	ØMM	P1	PL	T4	TG	WH+	ZJ++	CH
12	M6	16	6	M4	12.5	5.5	29	M5	3.3	1	M3	28	3.5	6	7.5	7.5	1.5	18	6	34	5
16	M8	20	8	M4	14.5	5.5	29	M5	3.3	1	M4	30.5	3.5	8	8.5	8.5	2	18	6	36.5	7
20	M10X1,25	22	8	M5	16.5	7.2	36	M5	4.2	1.5	M5	31.5	4.5	10	9	9	2	22	6	37.5	9
25	M10X1,25	22	8	M5	16.5	7.2	40	M5	4.2	1.5	M5	31.5	4.5	10	9	9	2	26	6	37.5	9
32	M10X1,25	22	10	M6	21.7	8.5	45	G1/8	5	3.5	M6	32	5.7	12	10	10	2.8	32.5	7	39	10
40	M10X1,25	22	10	M6	21.7	8.5	52	G1/8	5	5	M6	38.5	5.7	12	11	11	2.8	38	7.2	45.7	10
50	M12X1,25	24	12	M8	22.8	10	63.5	G1/8	6.8	7	M8	39	6.8	16	11	11	3.5	46.5	8.5	47.5	13
63	M12X1,25	24	12	M8	22.8	10	77	G1/8	6.8	7	M8	46	6.8	16	11.5	11.5	3.5	56.5	8	54	13
80	M16X1,5	32	16	M10	25	13	92	G1/8	8.5	10	M10	54	9	20	14	14	4.5	72	11	65	17
100	M20X1,5	40	20	M10	25	13	113	G1/4	8.5	13	M12	65	9	25	17.5	17.5	6	89	12	77	22

\* = Through threads only on small strokes

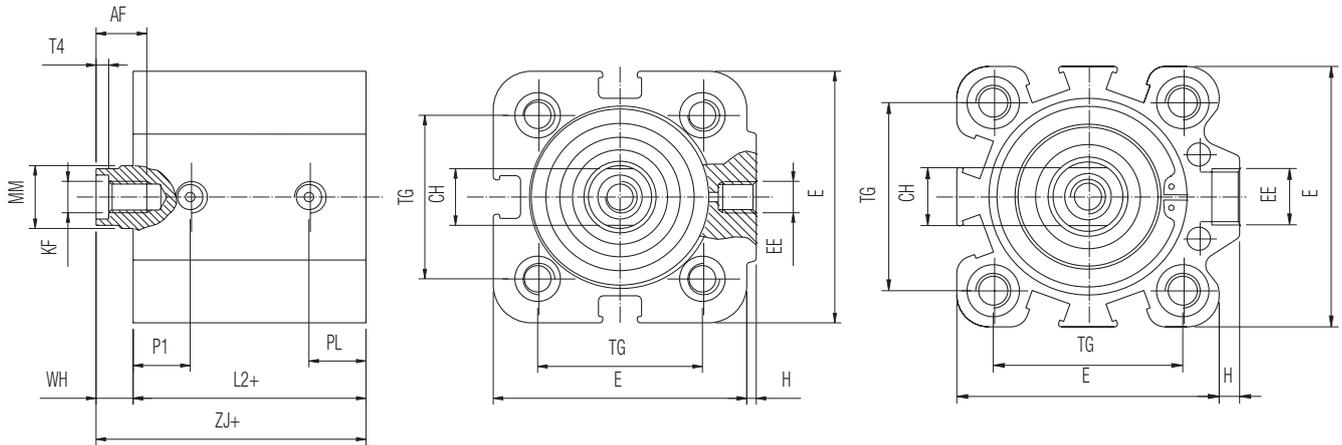
+ = Add Stroke

++ = Double stroke dimension and add it

**BF - DOUBLE ACTING MAGNETIC**


Ø 12 - 16 - 20 - 25

Ø 32 - 40 - 50 - 63 - 80 - 100

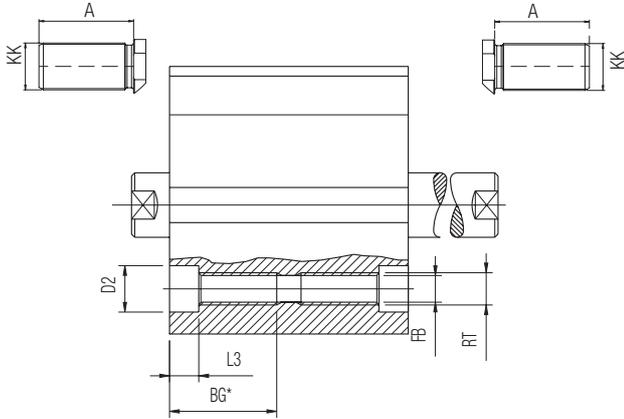


Ø	KK	A	AF	RT	BG*	ØD2	E	EE	ØFB	H	KF	L2+	L3	ØMM	P1	PL	T4	TG	WH	ZJ+	CH
12	M6	16	6	M4	12.5	5.5	29	M5	3.3	1	M3	28	3.5	6	7.5	7.5	1.5	18	6	34	5
16	M8	20	8	M4	14.5	5.5	29	M5	3.3	1	M4	30.5	3.5	8	8.5	8.5	2	18	6	36.5	7
20	M10X1,25	22	8	M5	16.5	7.2	36	M5	4.2	1.5	M5	31.5	4.5	10	9	9	2	22	6	37.5	9
25	M10X1,25	22	8	M5	16.5	7.2	40	M5	4.2	1.5	M5	31.5	4.5	10	9	9	2	26	6	37.5	9
32	M10X1,25	22	10	M6	21.7	8.5	45	G1/8	5	3.5	M6	32	5.7	12	10	10	2.8	32.5	7	39	10
40	M10X1,25	22	10	M6	21.7	8.5	52	G1/8	5	5	M6	38.5	5.7	12	11	11	2.8	38	7.2	45.7	10
50	M12X1,25	24	12	M8	22.8	10	63.5	G1/8	6.8	7	M8	39	6.8	16	11	11	3.5	46.5	8.5	47.5	13
63	M12X1,25	24	12	M8	22.8	10	77	G1/8	6.8	7	M8	46	6.8	16	11.5	11.5	3.5	56.5	8	54	13
80	M16X1,5	32	16	M10	25	13	92	G1/8	8.5	10	M10	54	9	20	14	14	4.5	72	11	65	17
100	M20X1,5	40	20	M10	25	13	113	G1/4	8.5	13	M12	65	9	25	17.5	17.5	6	89	12	77	22

\* = Through threads only on small strokes

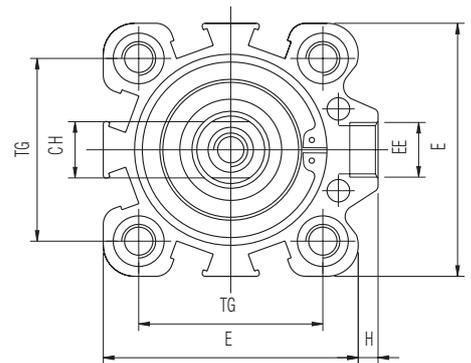
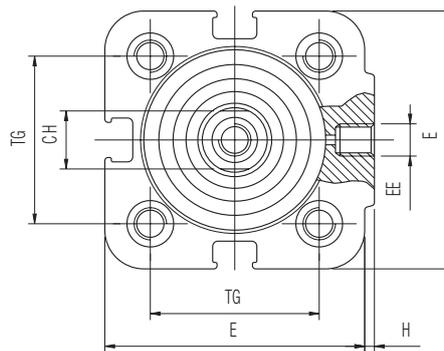
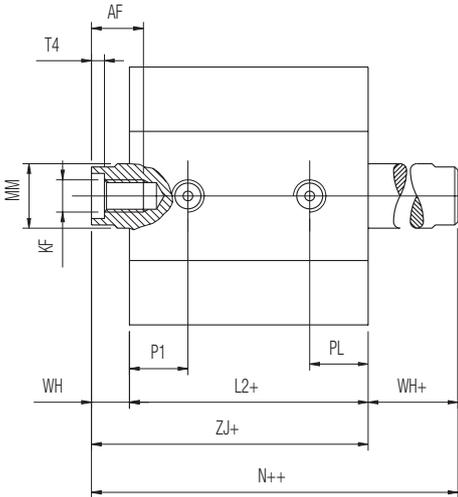
+ = Add Stroke

BJ - DOUBLE ACTING MAGNETIC WITH DOUBLE ROD END



Ø 12 - 16 - 20 - 25

Ø 32 - 40 - 50 - 63 - 80 - 100



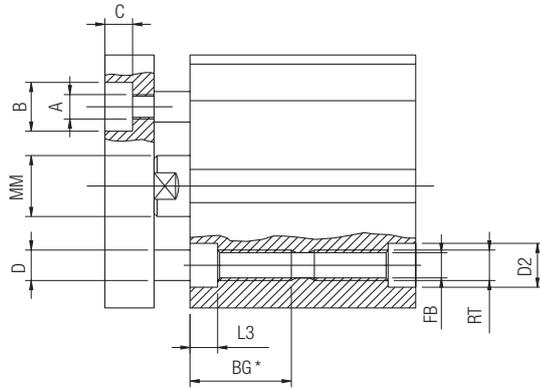
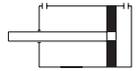
Ø	KK	A	AF	RT	BG*	ØD2	E	EE	ØFB	H	KF	CH	L2	L3	ØMM	P1	PL	T4	TG	N++	WH/WH+	ZJ+
12	M6	16	6	M4	12.5	5.5	29	M5	3.3	1	M3	5	28	3.5	6	7.5	7.5	1.5	18	40	6	34
16	M8	20	8	M4	14.5	5.5	29	M5	3.3	1	M4	7	30.5	3.5	8	8.5	8.5	2	18	42.5	6	36.5
20	M10X1,25	22	8	M5	16.5	7.2	36	M5	4.2	1.5	M5	9	31.5	4.5	10	9	9	2	22	43.5	6	37.5
25	M10X1,25	22	8	M5	16.5	7.2	40	M5	4.2	1.5	M5	9	31.5	4.5	10	9	9	2	26	43.5	6	37.5
32	M10X1,25	22	10	M6	21.7	8.5	45	G1/8	5	3.5	M6	10	32	5.7	12	10	10	2.8	32.5	46	7	39
40	M10X1,25	22	10	M6	21.7	8.5	52	G1/8	5	5	M6	10	38.5	5.7	12	11	11	2.8	38	53	7.2	45.7
50	M12X1,25	24	12	M8	22.8	10	63.5	G1/8	6.8	7	M8	13	39	6.8	16	11	11	3.5	46.5	56	8.5	47.5
63	M12X1,25	24	12	M8	22.8	10	77	G1/8	6.8	7	M8	13	46	6.8	16	11.5	11.5	3.5	56.5	62	8	54
80	M16X1,5	32	16	M10	25	13	92	G1/8	8.5	10	M10	17	54	9	20	14	14	4.5	72	76	11	65
100	M20X1,5	40	20	M10	25	13	113	G1/4	8.5	13	M12	22	65	9	25	17.5	17.5	6	89	89	12	77

\* = Through threads only on small strokes

+ = Add Stroke

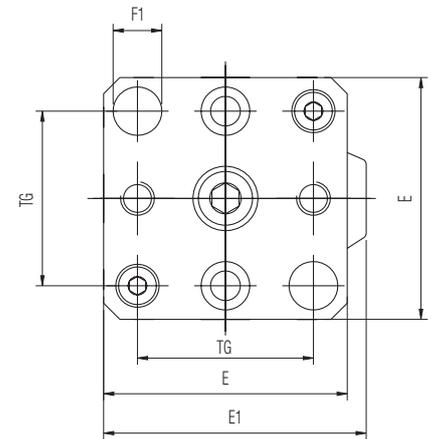
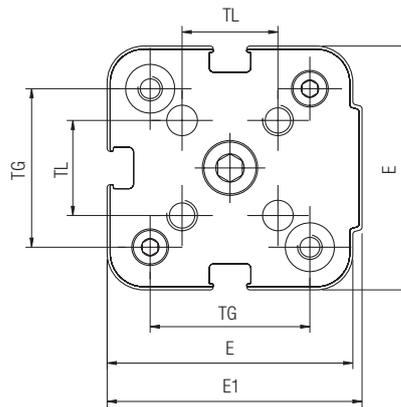
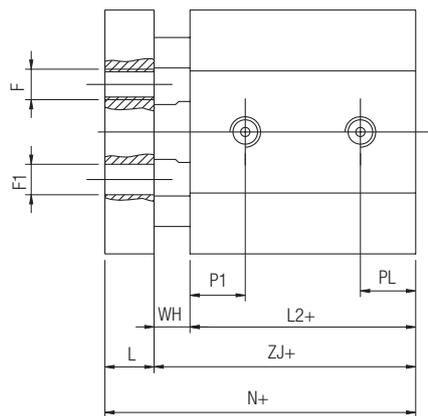
++ = Double stroke dimension and add it

BFA - DOUBLE ACTING MAGNETIC ANTIROTATION



Ø 12 - 16 - 20 - 25

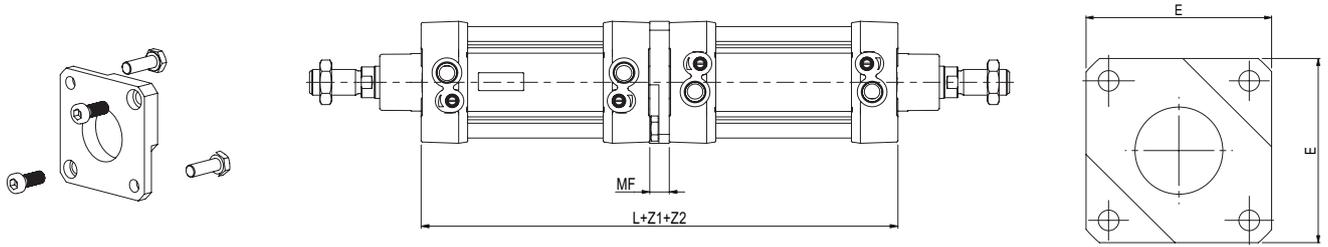
Ø 32 - 40 - 50 - 63 - 80 - 100



Ø	A	ØB	C	ØD	E	E1	F	ØF1	ØFB	RT	BG*	ØD2	L	L2+	L3	ØMM	P1	PL	TG	TL	WH	ZJ+	N+
12	M3	6	3.5	4	28.2	30	M3	3	3.5	M4	12.5	5.5	5	28	3.5	6	7.5	7.5	18	9.9	6	34	39
16	M3	6	3.5	4	28.2	30	M3	3	3.5	M4	14.5	5.5	5	30.5	3.5	8	8.5	8.5	18	9.9	6	36.5	41.5
20	M3	6	3.5	6	35	37.5	M4	4	4.2	M5	16.5	7	8	31.5	4.5	10	9	9	22	12	6	37.5	45.5
25	M4	8	4.5	6	39	41.5	M5	5	4.2	M5	16.5	7	8	31.5	4.5	10	9	9	26	15.6	6	37.5	45.5
32	4.5	8	4.5	6	45	48.5	M5	9	5	M6	21.7	8.5	10	32	5.7	12	10	10	32.5	-	7	39	48
40	4.5	8	4.5	6	52	57	M5	9	5	M6	21.7	8.5	10	38.5	5.7	12	11	11	38	-	7.2	45.7	55.5
50	5.5	9	5.5	8	63.5	70.5	M6	10	6.8	M8	22.8	10	12	39	6.8	16	11	11	46.5	-	8.5	47.5	59
63	5.5	9	5.5	8	75	84	M6	14	6.8	M8	22.8	10	12	46	6.8	16	11.5	11.5	56.5	-	8	54	66
80	8.5	14	9	12	90	102	M8	14	8.5	M10	25	13	14	54	9	20	14	14	72	-	11	65	79
100	8.5	14	9	12	110	126	M8	17	8.5	M10	25	13	14	65	9	25	17.5	17.5	89	-	12	77	91

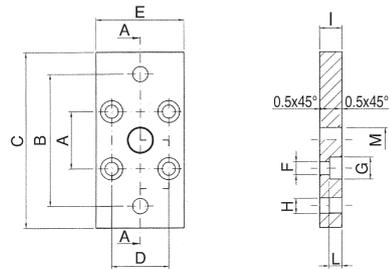
\* = Through threads only on small strokes

+ = Add Stroke

**FIXING ELEMENTS AND ACCESSORIES - SERIES B**
**KF36 - FLANGE FOR OPPOSED CYLINDERS**


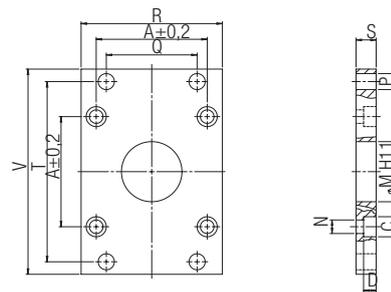
Code	∅	E	L	MF
KF - 36032	32	46,5	198	10
KF - 36040	40	52	220	10
KF - 36050	50	64,5	227	15
KF - 36063	63	76,5	257	15
KF - 36080	80	95	271	15
KF - 36100	100	114	291	15

Material: Aluminium

**QFL - FLANGE**


Code	∅	A	B	C	D	E	F	G	H	I	L	M
QFL 012	12 - 16	18	43	55	18	29	4.5	9	5.5	10	5.4	10
QFL 020	20	22	55	70	22	36	5.5	10	6.6	10	5.4	12
QFL 025	25	26	60	76	26	40	5.5	10	6.6	10	5.4	12

Materiale: Steel

**VFL - FLANGE**


Code ●	Code ■	∅	∅ M	P	S	D	C	N	A	Q	R	T	V
VFL 032	VFLI 032	32	30	7	10	5	10.5	6.5	32.5	32	45	64	80
VFL 040	VFLI 040	40	35	9	10	5	11	6.5	38	36	52	72	90
VFL 050	VFLI 050	50	40	9	12	5.5	15	8.5	46.5	45	65	90	110
VFL 063	VFLI 063	63	45	9	12	5.5	15	8.5	56.5	50	75	100	120
VFL 080	VFLI 080	80	45	12	16	8	18	10.5	72	63	95	126	150
VFL 100	VFLI 100	100	55	14	16	8	18	10.5	89	75	115	150	170

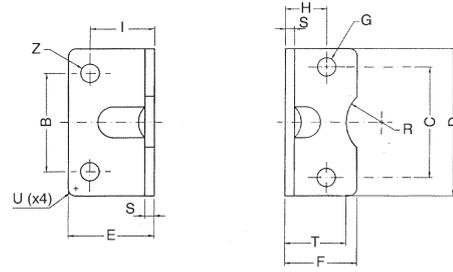
● Material: Steel

■ Material: Stainless steel

Screw: din6912

FIXING ELEMENTS AND ACCESSORIES - SERIES B

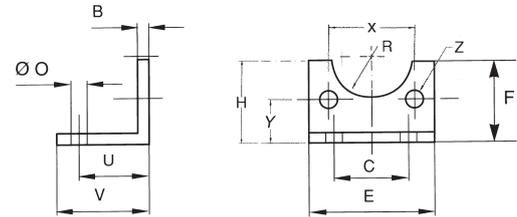
QCP - LOW-RISE PEDESTAL



Code	Ø mm	C	B	D	E	F	G	H	I	S	T	R	U	Z
QCP 012	12 - 16	18	18	30	17.5	17.5	4.4	13	13	3	15	9	2	5.5
QCP 020	20	22	22	36	22	22	5.4	16	16	4	17	10	2	6.6
QCP 025	25	26	26	40	22	23	5.4	17	16	4	19	11	2	6.6

Material: Steel

VCP - LOW RISE PEDESTAL

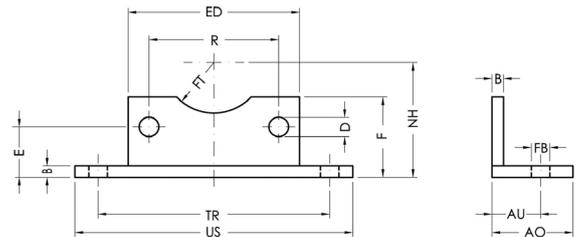


Code ●	Code ■	Ø	B	C	E	F	O	U	V	R	Z	X	Y	H
VCP 032	VCPI 032	32	4	32	45	30	7	24	35	15	7	32.5	15.75	32
VCP 040	VCPI 040	40	4	36	52	30	9	28	36	17.5	7	38	17	36
VCP 050	VCPI 050	50	5	45	65	36	9	32	47	20	9	46.5	21.75	45
VCP 063	VCPI 063	63	5	50	75	35	9	32	45	22.5	9	56.5	21.75	50
VCP 080	VCPI 080	80	6	63	95	47	12	41	55	22.5	11	72	27	63
VCP 100	VCPI 100	100	6	75	115	53	14	41	57	27.5	11	89	26.5	71

● Material: steel

■ Material: Stainless steel

VCB - LARGE LOW-RISE PEDESTAL

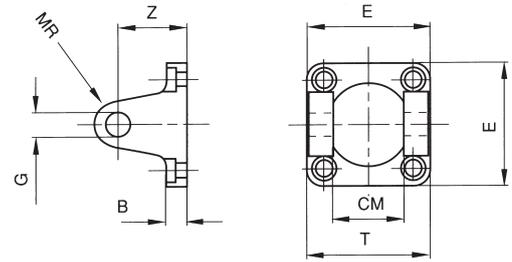


Code	Ø	US	ED	F	AO	B	TR	E	D	FT	NH	R	AU	FB
VCB 032 NE	32	79	45	30	30	5	65	15.75	6.5	15	32	32.5	18	6.5
VCB 040 NE	40	90	55	30	30	5	75	17	6.5	17.5	36	38	18	6.5
VCB 050 NE	50	110	65	35	35	5	90	21.75	8.5	20	45	46.5	21	8.5
VCB 063 NE	63	120	75	35	35	5	100	21.75	8.5	22.5	50	56.5	21	8.5
VCB 080 NE	80	153	95	45	45	6	128	27	10.5	22.5	63	72	27	10.5
VCB 100 NE	100	178	115	45	45	6	148	26.5	10.5	27.5	71	89	27	10.5

Material: Steel

FIXING ELEMENTS AND ACCESSORIES - SERIES B

VCF - FEMALE HINGE



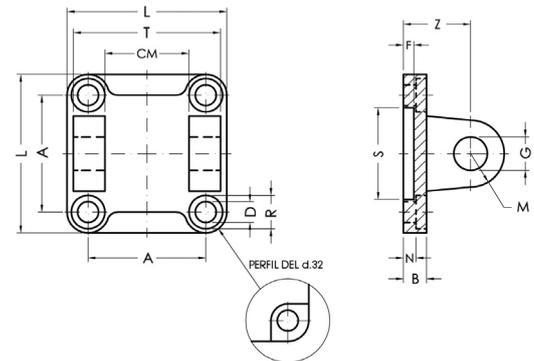
Code ●	Code ■	Ø	B	E	G	T	Z	CM	MR
* VCF 032	VCFI 032	32	9	45	10	45	22	26	10
* VCF 040	VCFI 040	40	9	52	12	52	25	28	12
* VCF 050	VCFI 050	50	11	65	12	60	27	32	12
* VCF 063	VCFI 063	63	11	75	16	70	32	40	16
* VCF 080	VCFI 080	80	14	95	16	90	36	50	16
* VCF 100	VCFI 100	100	14	115	20	110	41	60	20

● Material: Aluminium

■ Material: Stainless steel

\* With self-lubricating bushes

VCH - FEMALE CLEVIS BRACKET

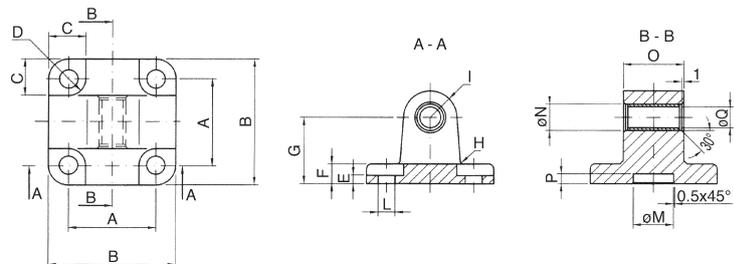


Code	Code ◆	Ø	A	L	D	R	N	B	S	F	Z	G	M	CM	T
VCH 032	VCHZ 032 NE	32	32.5	45	6.6	11	5.5	9	30	5	22	10	10	26	45
VCH 040	VCHZ 040 NE	40	38	52	6.6	11	5.5	9	35	5	25	12	12	28	52
VCH 050	VCHZ 050 NE	50	46.5	65	9	15	6.5	11	40	5	27	12	12	32	60
VCH 063	VCHZ 063 NE	63	56.5	75	9	15	6.5	11	45	5	32	16	16	40	70
VCH 080	VCHZ 080 NE	80	72	95	11	18	10	14	45	5	36	16	16	50	90
VCH 100	VCHZ 100 NE	100	89	115	11	18	10	14	55	5	41	20	20	60	110

● Material: Aluminium

■ Material: Steel

QCM - MALE HINGE

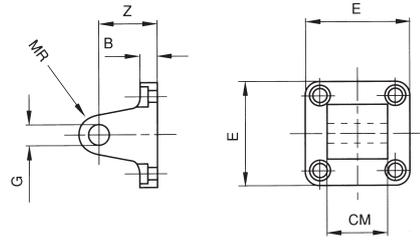


Code	Ø	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q
QCM 012	12 - 16	18	27	10	4.5	2.6	6	16	2	6	4.5	10	8	12	3	6
QCM 020	20	22	34	11	5	2.6	6	20	2	8	5.5	12	10	16	3	8
QCM 025	25	26	38	11	5	2.6	6	20	2	8	5.5	12	10	16	3	8

Material: Alluminium with self-lubricating bushes

FIXING ELEMENTS AND ACCESSORIES - SERIES B

VCM - MALE CLEVIS



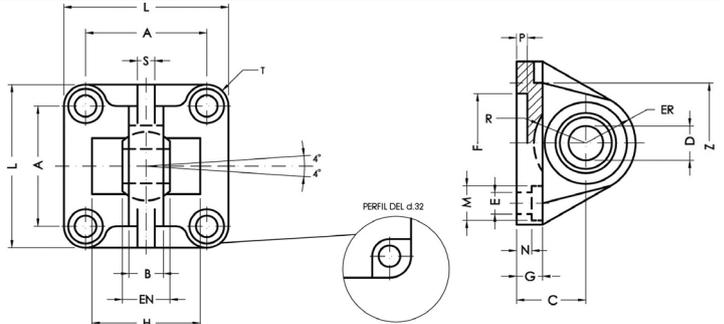
Code ●	Code ■	Code ◆	Ø	B	E	G	Z	CM	MR
VCM 032	VCFI 032	VCMZ 032 NE	32	9	45	10	22	26	10
VCM 040	VCFI 040	VCMZ 040 NE	40	9	52	12	25	28	12
VCM 050	VCFI 050	VCMZ 050 NE	50	11	65	12	27	32	12
VCM 063	VCFI 063	VCMZ 063 NE	63	11	75	16	32	40	16
VCM 080	VCFI 080	VCMZ 080 NE	80	14	95	16	36	50	16
VCM 100	VCFI 100	VCMZ 100 NE	100	14	115	20	41	60	20

● Material: Aluminium with self-lubricating bushes

■ Material: Stainless steel

◆ Material: Steel

VCS - NARROW MALE HINGE WITH ARTICULATED HEAD DIN648K



Code ●	Code ■	Code ◆	Ø	A	B	C	D	EN	ER	F	G	E	L	M	N	P	H	R	S	Z	T
VCS 032	VCSI 032	VCSZ 032 NE	32	32.5	10.5	22	10	14	16	30	9	6.6	45	11	5.5	5	-	-	4	32.5	6.25
VCS 040	VCSI 040	VCSZ 040 NE	40	38	12	25	12	16	19	35	9	6.6	52	11	5.5	5	-	-	6	39	7
VCS 050	VCSI 050	VCSZ 050 NE	50	46.5	15	27	16	21	21	40	11	9	65	15	6.5	5	51	18	8	47	9.25
VCS 063	VCSI 063	VCSZ 063 NE	63	56.5	15	32	16	21	24	45	11	9	75	15	6.5	5	-	-	8	52	9.25
VCS 080	VCSI 080	VCSZ 080 NE	80	72	18	36	20	25	28.5	45	14	11	95	18	10	5	72	24	10	67	11.5
VCS 100	VCSI 100	VCSZ 100 NE	100	89	18	41	20	25	30	55	14	11	115	18	10	8	-	-	10	77	13

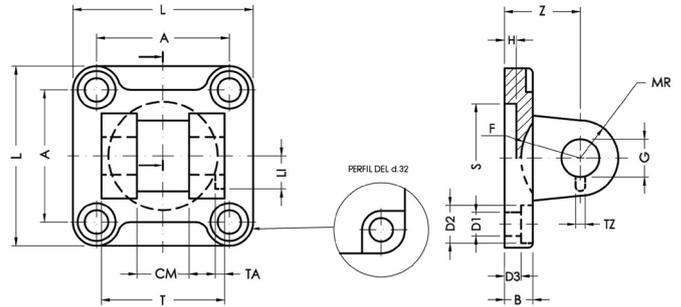
● Material: Aluminium

■ Material: Stainless steel

◆ Material: Steel

FIXING ELEMENTS AND ACCESSORIES - SERIES B

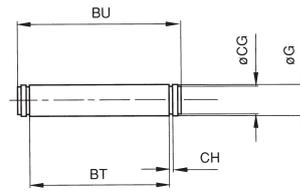
VCD - NARROW MALE HINGE WITH ARTICULATED HEAD DIN648K



Code ●	Code ◆	∅	L	T	CM	A	Z	H	B	D3	S	G	MR	D1	D2	TA	TZ	LI	F
VCD 032	VCDZ 032 NE	32	45	34	14	32.5	22	5	9	5.5	30	10	10	6.6	11	3	3.3	11.5	17
VCD 040	VCDZ 040 NE	40	52	40	16	38	25	5	9	5.5	35	12	12	6.6	11	4	4.3	12	20
VCD 050	VCDZ 050 NE	50	65	45	21	46.5	27	5	11	6.5	40	16	14	9	15	4	4.3	14	22
VCD 063	VCDZ 063 NE	63	75	51	21	56.5	32	5	11	6.5	45	16	18	9	15	4	4.3	14	25
VCD 080	VCDZ 080 NE	80	95	65	25	72	36	5	14	10	45	20	20	11	18	4	4.3	16	30
VCD 100	VCDZ 100 NE	100	115	75	25	89	41	5	14	10	55	20	22	11	18	4	6.3	16	32

● Material: Aluminium  
◆ Material: Steel

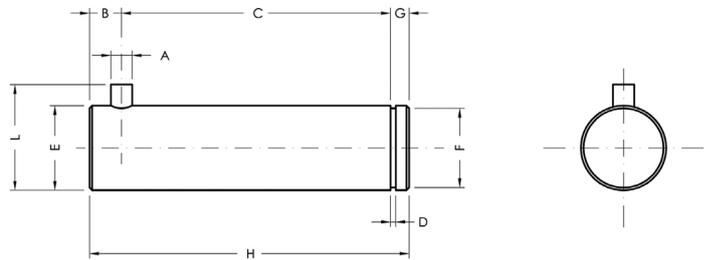
VPE - PIN WITH SEEGER



Code ●	Code ■	∅	G	BT	BU	CG	CH
VPE 032	VPEI 032	32	10	46	53	9.6	1.1
VPE 040	VPEI 040	40	12	53	60	11.5	1.1
VPE 050	VPEI 050	50	12	61	68	11.5	1.1
VPE 063	VPEI 063	63	16	71	78	15.2	1.1
VPE 080	VPEI 080	80	16	91	98	15.2	1.1
VPE 100	VPEI 100	100	20	111	118	19	1.3

● Material: Steel  
■ Material: Stainless steel

VPS - PIN ANTI-ROTATION FOR NARROW FEMALE HINGE VCD

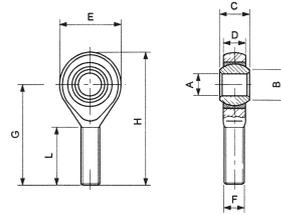


Code ●	Code ■	∅	A	C	D	E	F	G	H	L	B
VPS 032	VPSI 032	32	3	32.5	1.1	10	9.6	4	41	14	4.5
VPS 040	VPSI 040	40	4	38	1.1	12	11.5	4	48	16	6
VPS 050	VPSI 050	50	4	43	1.1	16	15.2	5	54	20	6
VPS 063	VPSI 063	63	4	49	1.1	16	15.2	5	54	20	6
VPS 080	VPSI 080	80	4	63	1.3	20	19	6	75	24	6
VPS 100	VPSI 100	100	4	73	1.3	20	19	6	85	24	6

● Material: Steel  
■ Material: Stainless steel

FIXING ELEMENTS AND ACCESSORIES - SERIES B

TM - MALE ROD ENDS

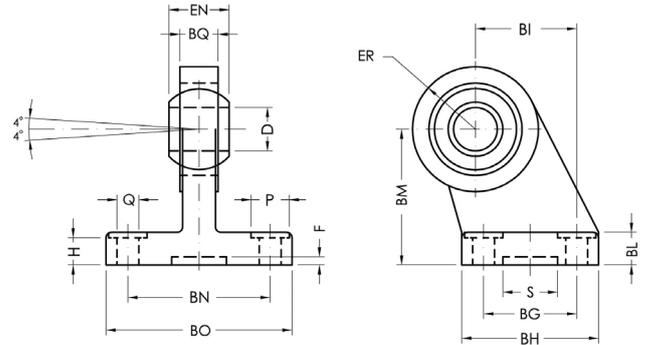


Code	Ø	F	A	B	C	Spera	D	E	G	H	L	Radial load		Weight	
												D	S		
			0	0	0		± 0.13	± 0.5	± 0.5		± 0.7		kg	kg	g
			H7		-0.13										
TM 020	20	M5X0,8	5	7,5	8	11.11	7,5	18	33	42	19	430	1000	13	
TM 032	20 - 25	M6x1	6	8.9	9	12.7	7.5	20	36	46	21	470	1100	15	
TM 050	32 - 40	M8x1,25	8	10.4	12	15.88	9.5	24	42	54	25	780	1900	34	
TM 080	50 - 63	M10x1,5	10	12.9	14	19.05	11.5	30	48	63	28	1200	3100	70	
TM 100	80 - 100	M12x1,75	12	15.4	16	22.23	12.5	34	54	71	32	1400	3700	110	

Material: Steel

D Dynamic; S Static

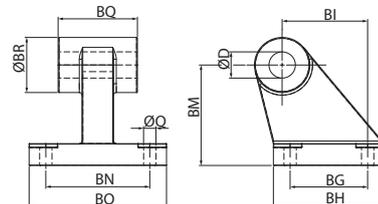
SQUADRE JOINT WITH ARTICULATED HEAD DIN648K



Code	Ø	Q	P	BG	BH	BI	BL	BM	BN	BO	EN	ER	BQ	D	H	S	F
VADZ 032 NE	32	6.6	11	18	31	21	10	32	38	51	14	15	10.5	10	8.5	20	3
VADZ 040 NE	40	6.6	11	22	35	24	10	36	41	54	16	18	12	12	8.5	20	3
VADZ 050 NE	50	9	15	30	45	33	12	45	50	65	21	20	15	16	10.5	20	3
VADZ 063 NE	63	9	15	35	50	37	12	50	52	67	21	23	15	16	10.5	20	3
VADZ 080 NE	80	11	18	40	60	47	14	63	66	86	25	27	18	20	11.5	20	3
VADZ 100 NE	100	11	18	50	70	55	15	71	76	96	25	30	18	20	12.5	20	3

Material: Steel / treatment: Black Cathaphoresis

VAS - SQUARE JOINT



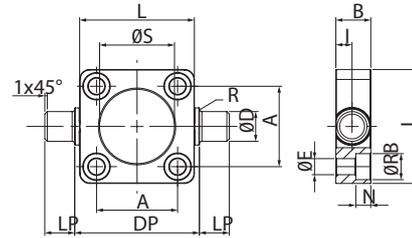
Code ●	Code ■	Ø	Q	BG	BH	BI	BM	BN	BO	BQ	BR	ØD
VAS 032	VASI 032	32	6.6	18	31	21	32	38	51	26	20	10
VAS 040	VASI 040	40	6.6	22	35	24	36	41	54	28	22	12
VAS 050	VASI 050	50	9	30	45	33	45	50	65	32	26	12
VAS 063	VASI 063	63	9	35	50	37	50	52	67	40	30	16
VAS 080	VASI 080	80	11	40	60	47	63	66	86	50	30	16
VAS 100	VASI 100	100	11	50	70	55	71	76	96	60	38	20

● Material: Aluminium

■ Material: Stainless steel

FIXING ELEMENTS AND ACCESSORIES - SERIES B

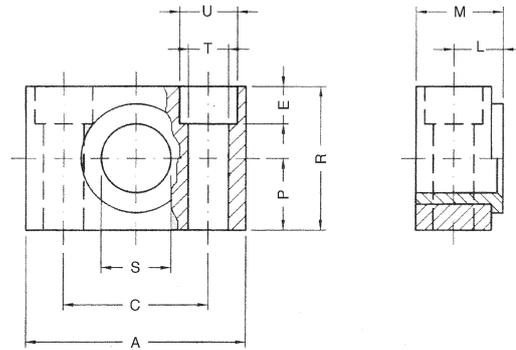
VCNL - FRONT - REAR HINGE



Code	Ø	A	L	DP	LP	D	S	B	R	I	E	RB	N	XV max
VCNF 032	32	32,5	46	50	12	12	30	14	1	6.5	6.5	10.5	6	84.5
VCNF 040	40	38	59	63	16	16	35	19	1,5	9	6.5	10.5	6	93.5
VCNF 050	50	46,5	69	75	16	16	40	19	1,6	9	8.5	13.5	8	101.5
VCNF 063	63	56,5	84	90	20	20	45	24	1,6	11.5	8.5	13.5	8	110.5
VCNF 080	80	72	102	110	20	20	45	24	1,6	11.5	10.5	16.5	10	125.5
VCNF 100	100	89	125	132	25	25	55	29	2	14	10.5	16.5	10	133.5

Material: steel

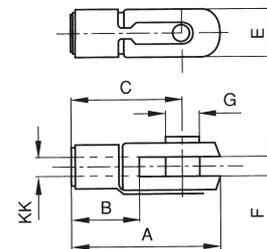
VSI - INTERMEDIATE HINGE SUPPORT



Code	Ø	A	M	R	P	C	S	L	U	T	E
VSI 032	32	46	18	30	15	32	12	10.5	11	6.6	7
VSI 040	40 - 50	55	21	36	18	36	16	12	15	9	9
VSI 063	63 - 80	65	23	40	20	42	20	13	18	11	11
VSI 100	100 - 125	75	28.5	50	25	50	25	16	20	14	13

Material: Steel / Suggested for VCNT - XCN - VCNL - VCNF

FC - YOKE WITH LOCABLE PIN



Code ●	Code ■	KK	A	B	C	E	F	G
FC 020	* FCI 020	M8	42	16	32	16	8	8
FC 025	* FCI 025	M10x1.25	52	20	40	20	10	10
FC 040	* FCI 040	M12x1.25	62	24	48	24	12	12
FC 050	* FCI 050	M16x1.5	83	32	64	32	16	16
FC 080	* FCI 080	M20x1.5	105	40	80	40	20	20

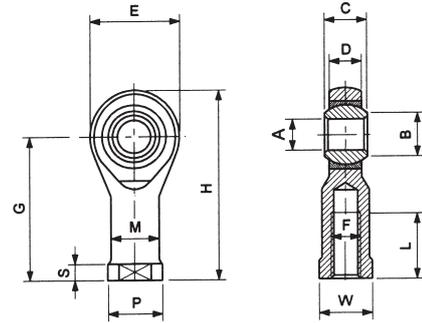
● Material: Steel

■ Material: Stainless steel

\* With pin and seeger

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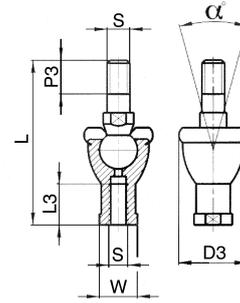
TF - ROD ENDS SELF-LUBRICATING



Code ●	Code ■	F	A	B	C	Sphere	D	E	G	H	L	M	P	S	W	Radial load		Weight	
																D	S		
			0	0	0		±0.13	±0.5	±0.5			±0.7	±0.7	±0.5	±0.7	±0.25	kg	kg	g
			H7		-0.13														
TF 020	TFI 020	M8x1,25	8	10,4	12	15.88	9	24	36	48	12	12,5	16	5	14	780	1900	36	
TF 025	TFI 025	M10x1,25	10	12,9	14	19.05	11.5	30	43	58	15	15	19	6.5	16	1.200	3.100	88	
TF 040	TFI 040	M12x1,25	12	15,4	16	22.23	12.5	34	50	67	18	17,5	22	6.5	18	1.400	3.700	120	
TF 050	TFI 050	M16x1,5	16	19,3	21	28.58	15.5	42	64	85	24	22	27	8	24	2.500	6.300	240	
TF 080	TFI 080	M20x1,5	20	24,4	25	34.93	18.5	50	77	102	30	27,5	34	10	30	3.700	8.300	430	

● Material: Steel  
 ■ Material: Stainless steel  
 D Dynamic; S Static

TS - SNODABLE YOKE

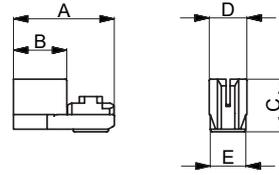
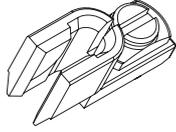


Code	S	L	L3	W	P3	D3	α°	Carico radiale (kN)
TS 020	M8x1,25	65	16	14	12	20	30°	3,5
TS 025	M10x1.25	74.5	18	17	15	30	30°	16
TS 040	M12x1.25	84	20	19	17	32	30°	22
TS 050	M16x1.5	112	27	22	23	40	22°	33
TS 080	M20x1.5	133	38	30	25	45	15°	37

Material: Steel  
 S Static

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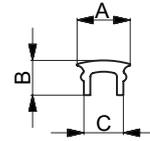
DF - SENSOR WIRE GUIDE CABLE CLAMP



Code	A	B	C	D	E
DF-001	15	7,8	7,9	5,8	5,5

Material: Polycarbonate body - chrome-plated steel screw

DHF - DF SENSOR WIRE COVER STRIP



Code	A	D	E
DHF-002010	7	4,6	5,2

Material: Pvc