RP - COMPACT CYLINDERS UNITOP

Pressures
1,5 bar (0.15 MPa)
10 bar (1 MPa)

Reference Standard
ATEX 2014/34/UE

Temperature
-20 °C
+ 80 °C

Sensors recommended
DF - DT

CHARACTERISTICS

Fluid	**filtered air, with or without lubrication**
End-caps	**die-cast zamak (Ø 16 ÷ 25 mm)**
	die-cast aluminium (Ø 32 ÷ 63 mm)
Barrel	**anodized aluminium**
Piston	**aluminium**
Guide slide	**acetalic resin**
Piston rod	**chromium-plated steel, stainless steel on request**
Piston seal	**NBR**
Guide bush for piston rod	**acetalic resin**
Shock absorber seals	**NBR**
Cushionings	**adjustable on both sides (Original Univer standard)**
Magnet	**plasto-ferrite (standard)**
Other available versions	**tandem, two-position tandem, opposed tandem, with common piston rod (On request)**

Series	Type	Version	Bore (mm)	Stroke (mm)	Option (mm)
R P	2	0 0	0 3 2	0 0 2 5	

RP Compact Cylinders UNITOP Ø 40 ÷ 63 mm
RM Compact Cylinders Ø 16 ÷ 32 mm

2 Chromium-plated steel female piston rod

On request
1 Stainless steel female piston rod
3 Stainless steel male piston rod (Ø40÷63)
4 Chromium-plated steel male piston rod (Ø40÷63)

Type 1-2
00 = D.E. Standard version
01 = D.E. Through piston rod
10 = D.E. Non-rotating guided piston rod (only female piston rod)
11 = D.E. Non-rotating guided through piston rod (only female piston rod)
60 = S.E. Retracted piston rod
70 = S.E. Extended piston rod

Meaning
D.E. = Double action
S.E. = Single action

016 = Ø16
020 = Ø20
025 = Ø25
032 = Ø32
040 = Ø40
050 = Ø50
063 = Ø63

Single acting
(Ø16 - Ø25)
0005 - 0010
(Ø32 - Ø63)
0005 - 0010 - 0015 - 0020 - 0025

Double acting
0005 - 0010
0015 - 0020 - 0025 - 0030 - 0040 - 0050 - 0060 -0080

Max standard stroke
(Ø16)
0040
(Ø20 - Ø25)
0050
(Ø32 Ø63)
0080

Max stroke with non-rotating guided piston rod (on request)
(Ø16)
0100
(Ø20 - Ø25)
0200
(Ø32 - Ø40)
0400
(Ø50 - Ø63)
0500

C With flange for versions: 100-101-160-170 200-201-260-270
H Hollow piston rod only for through piston rod versions without flange

Stroke tolerances

Ø	mm
16	+1,5 - 0
20	+1,5 - 0
25	+1,5 - 0
32	+2 - 0
40	+2 - 0
50	+2 - 0
63	+2,5 - 0

Single acting cylinder Spring return theoretical forces (N)

Ø	Max force	Min force	Max stroke	Decrease for mm stroke
	N	N	mm	N/mm
16	14	11,8	10	0,22
20	23,5	20	10	0,35
25	23,5	20	10	0,35
32	40	24	25	0,64
40	50	35	25	0,6
50	90	49	25	1,64
63	90	49	25	1,64

Theoretical forces (N) at working pressure (bar)

Ø	Surface area mm²		Working pressure bar					Working pressure bar				
	Thrust	Traction	Thrust					Traction				
			2	4	6	8	10	2	4	6	8	10
16	201	151	40	80	121	161	201	30	60	91	121	151
20	314	236	63	126	188	251	314	47	94	142	189	236
25	491	412	98	196	295	393	491	82	165	247	330	412
32	804	691	161	322	482	643	804	138	276	414	553	691
40	1256	1143	251	502	754	1005	1256	228	457	685	914	1143
50	1962	1762	393	785	1178	1570	1963	352	704	1057	1409	1762
63	3116	2916	623	1246	1869	2493	3116	583	1166	1749	2332	2916

Mass - Standard cylinder and long piston version

Ø	Cylinder - stroke 0 Standard g		Increase for mm stroke g	Moving element stroke 0 - Standard g		Increase for mm stroke g
	200	400	200/220 - 400/420	200	400	200/220 - 400/420
16	103	115	1,05	15,5	27,5	0,39
20	135	157	1,45	24,5	46,5	0,62
25	203	225	1,65	34,5	56,5	0,62
32	205	240	2,65	60	95	0,9
40	305	340	3,3	75	110	0,9
50	450	505	4,7	125	180	1,6
63	735	790	5,65	200	255	1,6

Mass - Through piston rod cylinder

Ø	Cylinder - stroke 0 g		Increase for mm stroke g	Moving element - stroke 0 g		Increase for mm stroke g
	201	401	201 - 401	201	401	201 - 401
16	105	129	1,45	17,5	41,5	0,78
20	138	182	2,07	24,8	68,8	1,24
25	206	250	2,27	34,8	78,8	1,24
32	230	290	3,55	85	125	1,8
40	325	390	4,2	100	140	1,8
50	490	570	6,3	165	225	3,2
63	775	855	7,25	245	300	3,2

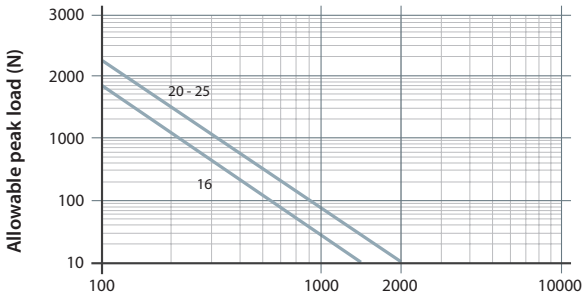
Mass - Retracted and extended piston rod cylinder

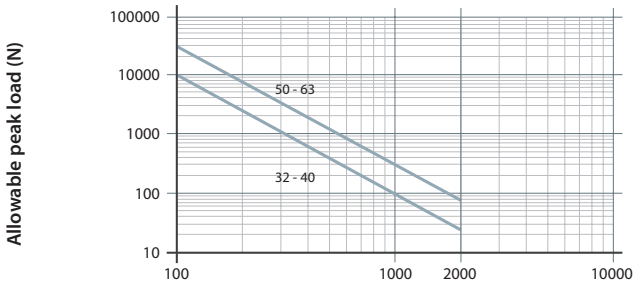
Ø	Cylinder - stroke 0 Retracted piston rod g		Cylinder - stroke 0 Extended piston rod g		Increase for mm stroke Retracted/extended piston rod g	Moving mass - stroke 0 Retracted/extended piston rod g		Increase for mm stroke Retracted/extended piston rod g
	260	460	270	470	260/460 - 270/470	260/270	460/470	260/460 - 270/470
16	103	115	103	115	1,05	15,5	27,5	0,39
20	135	157	135	157	1,45	24,5	46,5	0,62
25	203	225	203	225	1,65	34,5	56,5	0,62
32	215	250	203	238	2,65	63	98	0,9
40	315	350	302	337	3,3	81	116	0,9
50	468	523	445	500	4,7	137	192	1,6
63	753	808	730	785	5,65	212	267	1,6

Cylinder mass with non-rotating device and through piston rod with non-rotating device

	Cylinder - stroke 0		Increase for mm stroke		Moving mass - stroke 0		Increase for mm stroke	
Ø	g		g		g		g	
	210	211	210	211	210	211	210	211
16	122	124	1,25	1,64	34,5	36,7	0,59	0,98
20	165	168	1,75	2,37	54,5	57,5	0,93	1,65
25	240	243	1,95	2,57	71,5	74,5	0,93	1,55
32	245	270	3,09	3,99	100	125	1,34	2,24
40	372	392	4,1	5	142	167	1,7	2,6
50	545	585	5,5	7,1	220	260	2,4	4
63	875	915	6,89	8,49	340	385	2,84	4,44

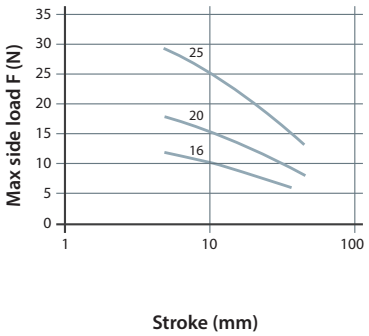
Peak load



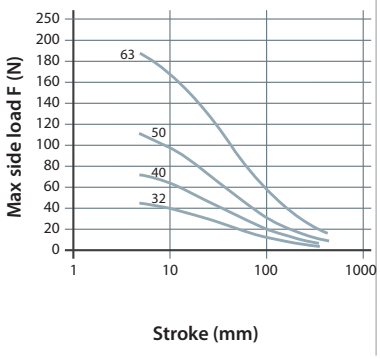


Transverse load diagrams on the stem

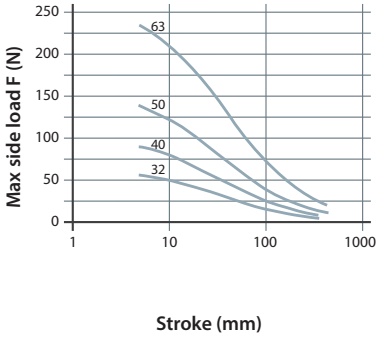
Standard Piston Ø16 ÷ 25 mm



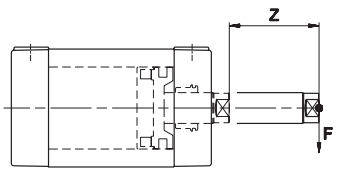
Standard Piston Ø32 ÷ 63 mm



Long piston Ø32 ÷ 63 mm

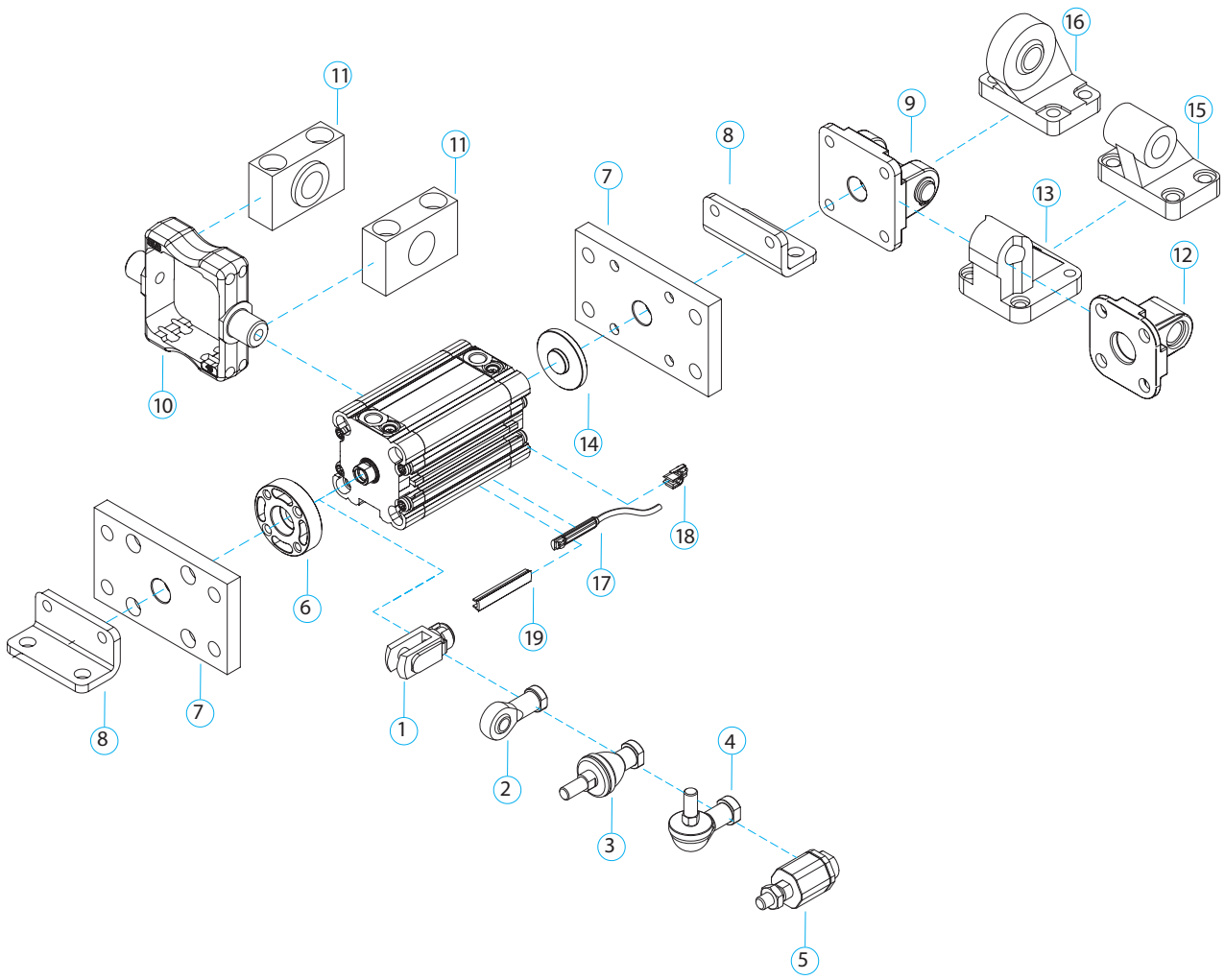


Transverse load diagrams on the stem



Z = Stroke
F = Force

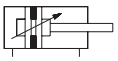
FIXING ELEMENTS AND ACCESSORIES - SERIES RP

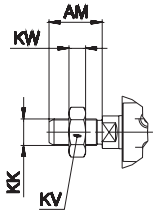


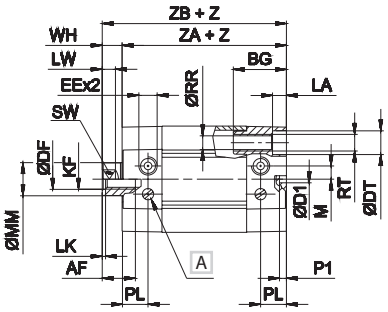
1	FEMALE FORK WITH CLIPS - FC
2	ARTICULATED SELF-LUBRICATING FORK - TF
3	FORK WITH AXIALLY MOUNTED ARTICULATED PIN - TS
4	FORK WITH ANGLE MOUNTED ARTICULATED PIN - MF 32 - KF 23
5	FLOATING JOINT - KF 24
6	FLANGE FOR FEMALE PISTON ROD - RPF
7	FRONT/REAR FLANGE - QFL / VFL
8	ANGLE BRACKET - QCP / VCP
9	REAR FEMALE HINGE WITH PIN - QCF / VCF
10	ISO INTERMEDIATE HINGE - KDF 14 / RPF 14
11	HINGE SUPPORT - VSI
12	ARTICULATED REAR MALE HINGE - QCM / KF11
13	COUNTER HINGE 90°- KF 19
14	CENTERING ADAPTOR RING - RSF
15	COUNTER HINGE 90° (CETOP) - VAS
16	ARTICULATED COUNTER HINGE - VADZ
17	DF SENSOR - DF
18	CABLE CLAMPING FOR DF SENSOR - DF
19	DHF COVERING STRIP - DHF

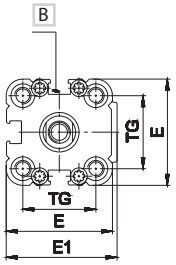
SERIES RP

Double acting RM Ø 16 ÷ 25

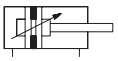


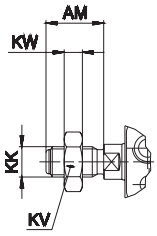


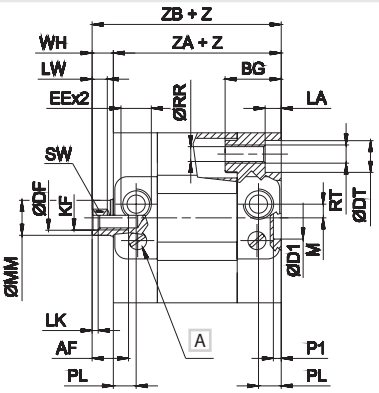


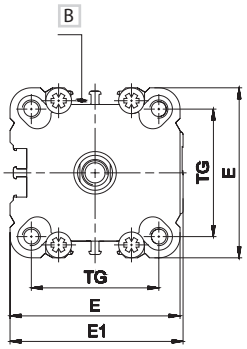


Double acting RM Ø 32 RP Ø 40 ÷ 63









Ø	AM	AF	BG	DF	DT	D1	E	EE H11	E1	KF	KK	KV	KW	LA
16	12	8	16	4,1	5,8	2	28	M5	30	M4	M6x1	10	4	3,2
20	16	10	16	6,1	7,3	2	32	M5	34	M6	M8x1,25	13	5	4,2
25	16	10	16	6,1	8	2	37	M5	39	M6	M8x1,25	13	5	4,5
32	19	12	18	8,2	9	14	46	G1/8	47	M8	M10x1,25	17	6	5,3
40	19	12	18	8,2	9	14	56	G1/8	57	M8	M10x1,25	17	6	5,3
50	22	16	24	10,2	11	18	66	G1/8	67	M10	M12x1,25	19	7	6,5
63	22	16	24	10,2	11	18	79	G1/8	80	M10	M12x1,25	19	7	6,5

Ø	LK	LW	M	MM	PL	P1	RR	RT	SW	TG	WH	ZA	ZB
16	1	4,5	3,5	8	8	2	3,2	M4	7	18	5	37	42
20	1	4,5	4	10	8	2	4,2	M5	8	22	6	37	43
25	1	4,5	4	10	8	2	4,2	M5	8	26	6	39	45
32	2	5	4,5	12	7,5	2,5	5,2	M6	10	32,5	7	44	51
40	2	5	4,5	12	7,5	2,5	5,2	M6	10	42	7	45	52
50	2	6	6,5	16	7,5	2,5	6,5	M8	13	50	8	45	53
63	2	6	6,5	16	7,5	2,5	6,5	M8	13	62	8	50	58

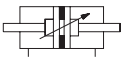
Z = Stroke

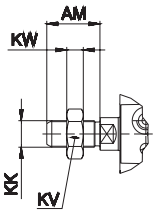
A. Pneumatic cushioning adjusting screw

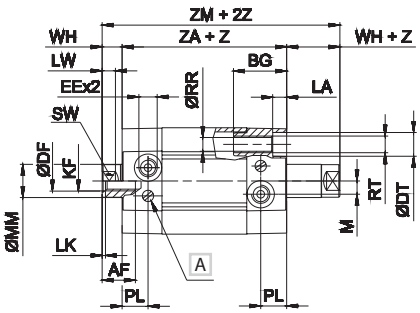
B. Groove for sensor

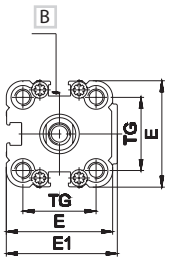
SERIES RP

Double acting through piston rod RM Ø 16 ÷ 25

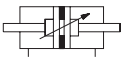


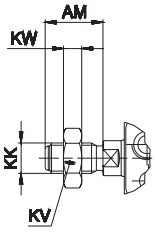


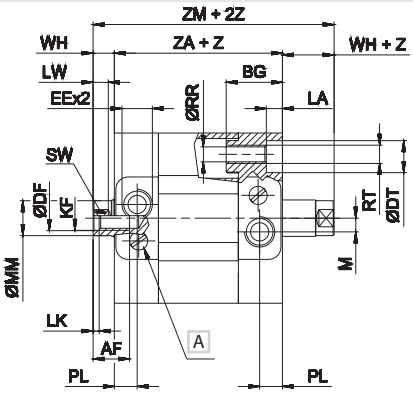


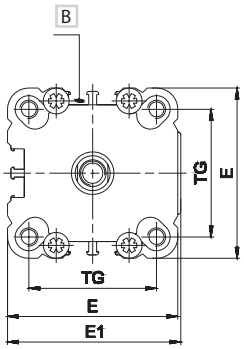


Double acting through piston rod RM Ø 32 RP Ø 40 ÷ 63









Ø	AM	AF	BG	DF	DT	E	EE	E1	KF	KK	KV	KW	LA
16	12	8	16	4,1	5,8	28	M5	30	M4	M6x1	10	4	3,2
20	16	10	16	6,1	7,3	32	M5	34	M6	M8x1,25	13	5	4,2
25	16	10	16	6,1	8	37	M5	39	M6	M8x1,25	13	5	4,5
32	19	12	18	8,2	9	46	G1/8	47	M8	M10x1,25	17	6	5,3
40	19	12	18	8,2	9	56	G1/8	57	M8	M10x1,25	17	6	5,3
50	22	16	24	10,2	11	66	G1/8	67	M10	M12x1,25	19	7	6,5
63	22	16	24	10,2	11	79	G1/8	80	M10	M12x1,25	19	7	6,5

Ø	LK	LW	M	MM	PL	RR	RT	SW	TG	WH	ZA	ZM
16	1	4,5	3,5	8	8	3,2	M4	7	18	5	37	47
20	1	4,5	4	10	8	4,2	M5	8	22	6	37	49
25	1	4,5	4	10	8	4,2	M5	8	26	6	39	51
32	2	5	4,5	12	7,5	5,2	M6	10	32,5	7	44	58
40	2	5	4,5	12	7,5	5,2	M6	10	42*	7	45	59
50	2	6	6,5	16	7,5	6,5	M8	13	50*	8	45	61
63	2	6	6,5	16	7,5	6,5	M8	13	62*	8	50	66

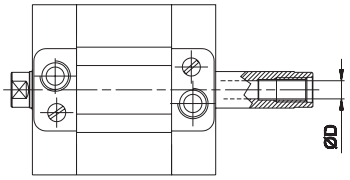
Z = Stroke

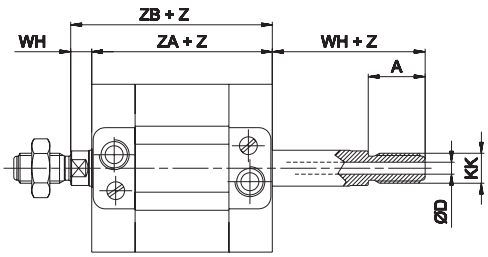
A. Pneumatic cushioning adjusting screw

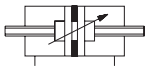
B. Groove for sensor

SERIES RP

Double acting female/male hollow through piston rod Ø 16 ÷ 63





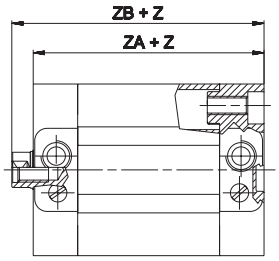


Ø	D
16	2
20	2,5
25	2,5
32	3,5
40	3,5
50	4,5
63	4,5

Z = Stroke

Ø16 ÷ 25 Max stroke 50 mm Ø32 ÷ 63 Max stroke 75 mm Ø80 - 100 Max stroke 100 mm
For all other dimensions please refer to the through piston rod version at the previous page

Double acting long piston Ø 32 ÷ 63

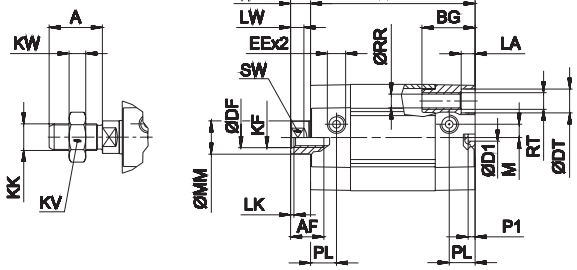


Ø	ZA	ZB
32	64	71
40	65	72
50	70	78
63	75	83

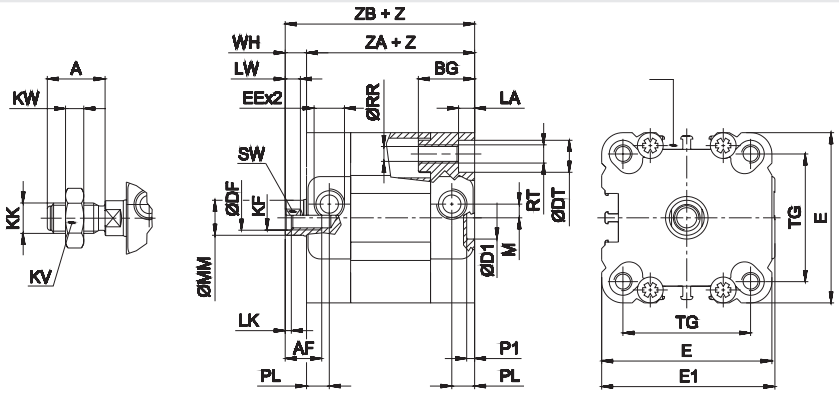
Z = Stroke

SERIES RP

Single acting retracted piston rod RM Ø 16 ÷ 25



Single acting retracted piston rod RM Ø 32 RP Ø 40 ÷ 63



Ø	A	AF	BG	DF	DT	D1 H11	E	EE	E1	KF	KK	KV	KW	LA
16	12	8	16	4,1	5,8	2	28	M5	30	M4	M6x1	10	4	3,2
20	16	10	16	6,1	7,3	2	32	M5	34	M6	M8x1,25	13	5	4,2
25	16	10	16	6,1	8	2	37	M5	39	M6	M8x1,25	13	5	4,5
32	19	12	18	8,2	9	14	46	G1/8	47	M8	M10x1,25	17	6	5,3
40	19	12	18	8,2	9	14	56	G1/8	57	M8	M10x1,25	17	6	5,3
50	22	16	24	10,2	11	18	66	G1/8	67	M10	M12x1,25	19	7	6,5
63	22	16	24	10,2	11	18	79	G1/8	80	M10	M12x1,25	19	7	6,5

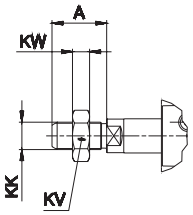
Ø	LK	LW	M	MM	PL	P1	RR	RT	SW	TG	WH	ZA	ZB
16	1	4,5	3,5	8	8	2	3,2	M4	7	18	5	37	42
20	1	4,5	4	10	8	2	4,2	M5	8	22	6	37	43
25	1	4,5	4	10	8	2	4,2	M5	8	26	6	39	45
32	2	5	4,5	12	7,5	2,5	5,2	M6	10	32,5	7	44	51
40	2	5	4,5	12	7,5	2,5	5,2	M6	10	42*	7	45	52
50	2	6	6,5	16	7,5	2,5	6,5	M8	13	50*	8	45	53
63	2	6	6,5	16	7,5	2,5	6,5	M8	13	62*	8	50	58

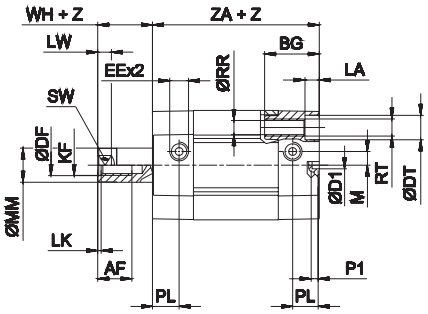
Z = Stroke

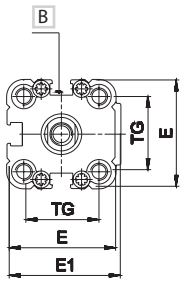
B. Groove for sensor

SERIES RP

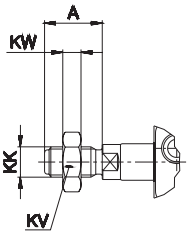
Single acting extended piston rod RM Ø 16 ÷ 25

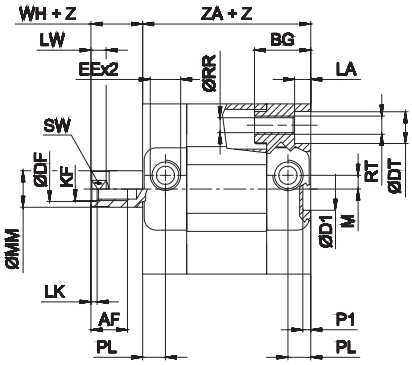


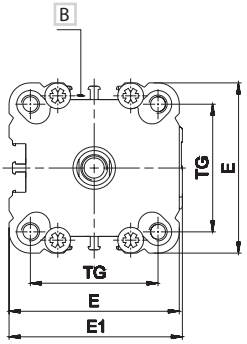




Single acting extended piston rod RM Ø 32 RP Ø 40 ÷ 63







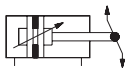
Ø	A	AF	BG	DF	DT	D1 H11	E	EE	E1	KF	KK	KV	KW
16	12	8	16	4,1	5,8	2	28	M5	30	M4	M6x1	10	4
20	16	10	16	6,1	7,3	2	32	M5	34	M6	M8x1,25	13	5
25	16	10	16	6,1	8	2	37	M5	39	M6	M8x1,25	13	5
32	19	12	18	8,2	9	14	46	G1/8	47	M8	M10x1,25	17	6
40	19	12	18	8,2	9	14	56	G1/8	57	M8	M10x1,25	17	6
50	22	16	24	10,2	11	18	66	G1/8	67	M10	M12x1,25	19	7
63	22	16	24	10,2	11	18	79	G1/8	80	M10	M12x1,25	19	7

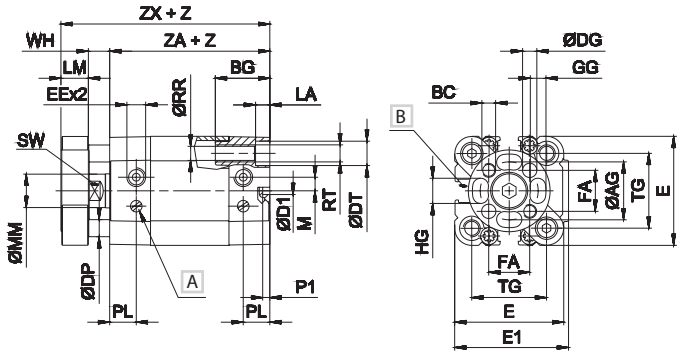
Ø	LA	LK	LW	M	MM	PL	P1	RR	RT	SW	TG	WH	ZA
16	3,2	1	4,5	3,5	8	8	2	3,2	M4	7	18	5	37
20	4,2	1	4,5	4	10	8	2	4,2	M5	8	22	6	37
25	4,5	1	4,5	4	10	8	2	4,2	M5	8	26	6	39
32	5,3	2	5	4,5	12	7,5	2,5	5,2	M6	10	32,5	7	44
40	5,3	2	5	4,5	12	7,5	2,5	5,2	M6	10	42*	7	45
50	6,5	2	6	6,5	16	7,5	2,5	6,5	M8	13	50*	8	45
63	6,5	2	6	6,5	16	7,5	2,5	6,5	M8	13	62*	8	50

Z = Stroke

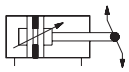
B. Groove for sensor

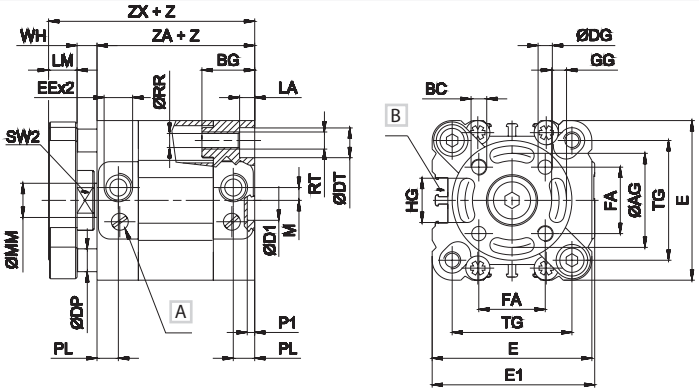
Double acting non-rotating guided piston rod RM Ø 16 ÷ 25





Double acting non-rotating guided piston rod RM Ø 32 RP Ø 40 ÷ 63





Ø	AG	BC	BG	DG	DP	DT	D1	E	EE	E1	FA	GG	HG	LA
16	14	M3	16	3	4	5,8	2	28	M5	30	9,9	3	5	3,2
20	17	M4	16	4	5	7,3	2	32	M5	34	12	4	7	4,2
25	22	M5	16	5	5	8	2	37	M5	39	15,6	5	9	4,5
32	28	M5	18	5	6	9	14	46	G1/8	47	19,8	5,2	11	5,3
40	33	M5	18	5	8	9	14	56	G1/8	57	23,3	5,2	15	5,3
50	42	M6	24	6	8	11	18	66	G1/8	67	29,7	6,2	19	6,5
63	50	M6	24	6	10	11	18	79	G1/8	80	35,4	6,2	25	6,5

Ø	LM	M	MM	PL	P1	RR	RT	SW	SW2	TG	WH	ZA	ZX
16	6	3,5	8	8	2	3,2	M4	7	-	18	5	37	48
20	8	4	10	8	2	4,2	M5	8	-	22	6	37	51
25	8	4	10	8	2	4,2	M5	8	-	26	6	39	53
32	10	4,5	12	7,5	2,5	5,2	M6	10	17	32,5	7	44	61
40	10	4,5	12	7,5	2,5	5,2	M6	10	19	42*	7	45	62
50	12	6,5	16	7,5	2,5	6,5	M8	13	24	50*	8	45	65
63	12	6,5	16	7,5	2,5	6,5	M8	13	24	62*	8	50	70

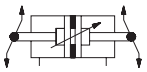
Z = Stroke

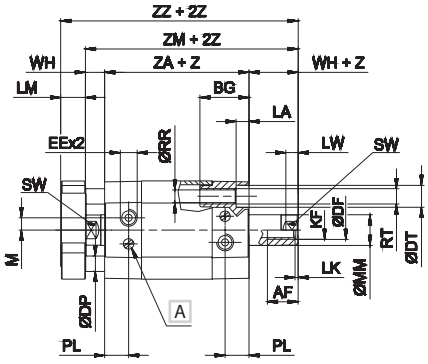
A. Pneumatic cushioning adjusting screw

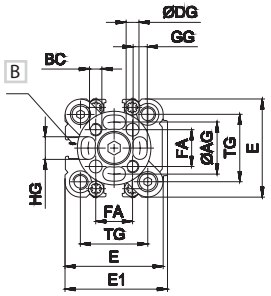
B. Groove for sensor

SERIES RP

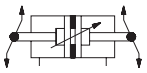
Double acting non-rotating guided through piston rod RM Ø 16 ÷ 25

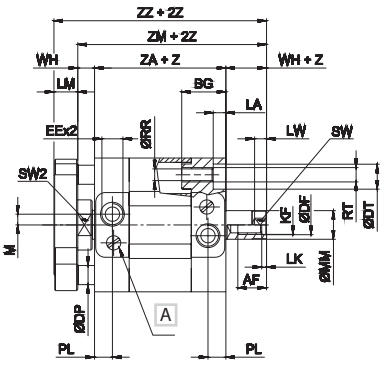


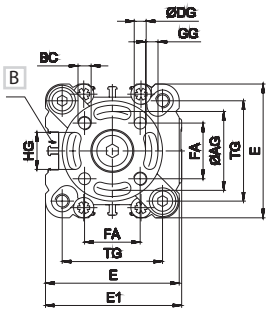




Double acting non-rotating guided through piston rod RM Ø 32 RP Ø 40 ÷ 63







Ø	AF	AG	BC	BG	DF	DG	DP	DT	E	EE	E1	FA	GG	HG	KF	LA
16	8	14	M3	16	4,1	3	4	5,8	28	M5	30	9,9	3	5	M4	3,2
20	10	17	M4	16	6,1	4	5	7,3	32	M5	34	12	4	7	M6	4,2
25	10	22	M5	16	6,1	5	5	8	37	M5	39	15,6	5	9	M6	4,5
32	12	28	M5	18	8,2	5	6	9	46	G1/8	47	19,8	5,2	11	M8	5,3
40	12	33	M5	18	8,2	5	8	9	56	G1/8	57	23,3	5,2	15	M8	5,3
50	16	42	M6	24	10,2	6	8	11	66	G1/8	67	29,7	6,2	19	M10	6,5
63	16	50	M6	24	10,2	6	10	11	79	G1/8	80	35,4	6,2	25	M10	6,5

Ø	LK	LM	LW	M	MM	PL	RR	RT	SW	SW2	TG	WH	ZA	ZM	ZZ
16	1	6	4,5	3,5	8	8	3,2	M4	7	-	18	5	37	47	53
20	1	8	4,5	4	10	8	4,2	M5	8	-	22	6	37	49	57
25	1	8	4,5	4	10	8	4,2	M5	8	-	26	6	39	51	59
32	2	10	5	4,5	12	7,5	5,2	M6	10	17	32,5	7	44	58	68
40	2	10	5	4,5	12	7,5	5,2	M6	10	19	42*	7	45	59	69
50	2	12	6	6,5	16	7,5	6,5	M8	13	24	50*	8	45	61	73
63	2	12	6	6,5	16	7,5	6,5	M8	13	24	62*	8	50	66	78

Z = Stroke

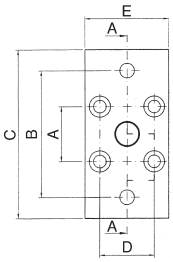
A. Pneumatic cushioning adjusting screw

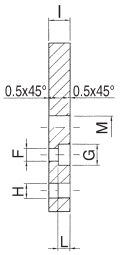
B. Groove for sensor

FIXING ELEMENTS AND ACCESSORIES - SERIES RP

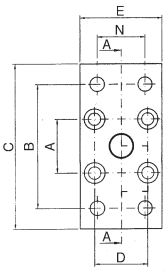
QFL - FLANGE ANTERIOR / POSTERIOR

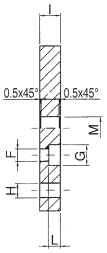
Ø12 - 25





Ø40 - 63

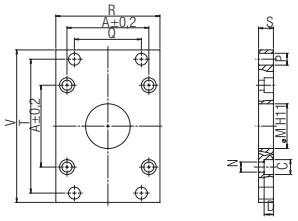




Code	Ø	A	B	C	D	E	F	G	H	I	L	M	N
QFL 012	12 - 16	18	43	55	18	29	4.5	9	5.5	10	5.4	10	-
QFL 020	20	22	55	70	22	36	5.5	10	6.6	10	5.4	12	-
QFL 025	25	26	60	76	26	40	5.5	10	6.6	10	5.4	12	-
QFL 040	40	42	82	102	42	60	6.6	11	9	10	6.4	14	36
QFL 050	50	50	90	110	50	68	9	15	9	12	8.6	18	45
QFL 063	63	62	110	130	62	87	11	15	9	15	10.6	18	50

Material: Steel

VFL - FLANGIA ANTERIOR / POSTERIOR

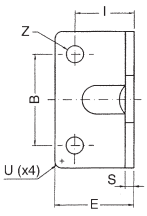


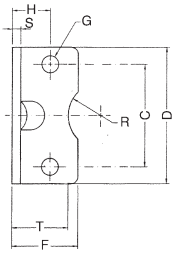
Code	Ø	Ø M	P	S	D	C	N	A	Q	R	T	V
VFL 032	32	30	7	10	5	10,5	6,5	32,5	32	45	64	80

Material: Steel

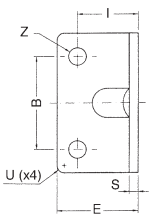
QCP - LOW-RISE PEDESTAL

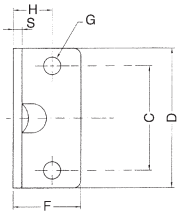
Ø12 - 25





Ø40 - 63



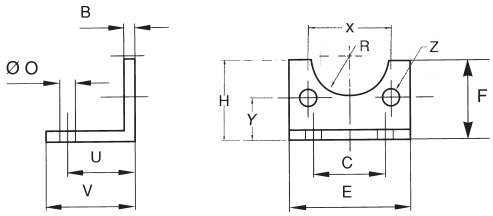


Code	Ø	C	B	D	E	F	G	H	I	S	T	R	U	Z
QCP 012	12 - 16	18	18	30	17.5	17.5	4.4	13	13	3	15	9	2	5.5
QCP 020	20	22	22	36	22	22	5.4	16	16	4	17	10	2	6.6
QCP 025	25	26	26	40	22	23	5.4	17	16	4	19	11	2	6.6
QCP 040	40	42	42	60	28	29.5	6.6	21.5	20	5	5	9	-	-
QCP 050	50	50	50	68	32	30	9	22	24	6	5	9	-	-
QCP 063	63	62	62	84	39	39	9	28.5	27	6	5	11	-	-

Material: Steel

FIXING ELEMENTS AND ACCESSORIES - SERIES RP

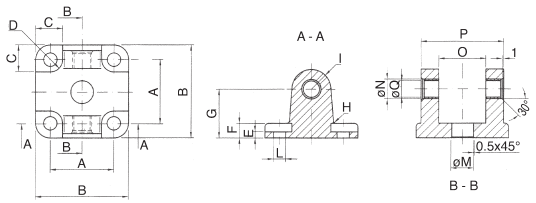
VCP - LOW-RISE PEDESTAL



Code	Ø	B	C	E	F	O	U	V	R	Z	X	Y	H
VCP 032	32	4	32	45	30	7	24	35	15	7	32,5	15,75	32

Material: Steel

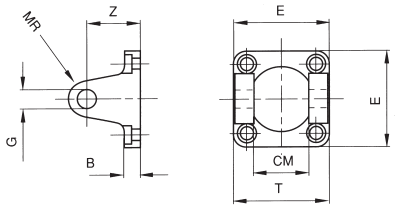
QCF - FEMALE HINGE WITH SELF-LUBRICATING BUSHES



Code	Ø	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q
QCF 040	40	42	58	13.5	5.5	5.5	9	25	2.5	12.5	6.6	14	14	28	52	12
QCF 050	50	50	66	15.5	7.5	6.5	11	27	2.5	12.5	9	18	14	32	60	12
QCF 063	63	62	83	18	7.5	6.5	11	32	4	15	11	18	18	40	70	16

Material: Aluminium

VCF - FEMALE HINGE



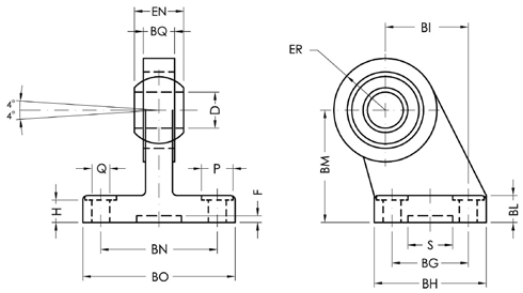
Code ●	Code ■	Ø	B	E	G	T	Z	CM	MR
* VCF 032	VCFI 032	32	9	45	10	45	22	26	10

● Material: Aluminium

■ Material: Stainless steel

*** With self-lubricating bushes**

SQUADRE JOINT WITH ARTICULATED HEAD DIN648K

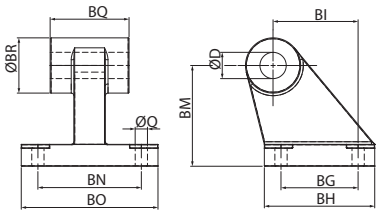


Code	Ø	Q	P	BG	BH	BI	BL	BM	BN	BO	EN	ER	BQ	D	H	S	F
VADZ 032 NE	32	6.6	11	18	31	21	10	32	38	51	14	15	10.5	10	8.5	20	3
VADZ 040 NE	40	6.6	11	22	35	24	10	36	41	54	16	18	12	12	8.5	20	3
VADZ 050 NE	50	9	15	30	45	33	12	45	50	65	21	20	15	16	10.5	20	3
VADZ 063 NE	63	9	15	35	50	37	12	50	52	67	21	23	15	16	10.5	20	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 Cataphoresis

FIXING ELEMENTS AND ACCESSORIES - SERIES RP

VAS - SQUARE JOINT

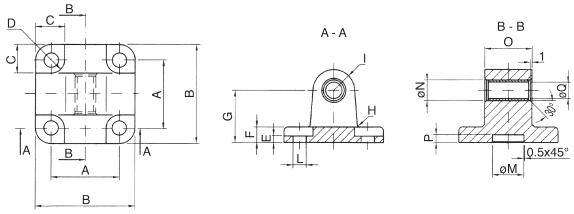


Code ●	Code ■	Ø	Q	BG	BH	BI	BM	BN	BO	BQ	BR	ØD
VAS 032	VASI 032	32	6.6	18	31	21	32	38	51	26	20	10
VAS 040	VASI 040	40	6.6	22	35	24	36	41	54	28	22	12
VAS 050	VASI 050	50	9	30	45	33	45	50	65	32	26	12
VAS 063	VASI 063	63	9	35	50	37	50	52	67	40	30	16
VAS 080	VASI 080	80	11	40	60	47	63	66	86	50	30	16
VAS 100	VASI 100	100	11	50	70	55	71	76	96	60	38	20
VAS 125	VASI 125	125	14	60	90	70	90	94	124	70	45	25

● Material: Aluminium

■ Material: stainless steel

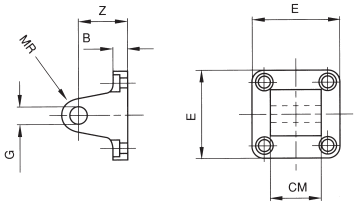
QCM - MALE HINGE WITH SELF-LUBRICATING BUSHES



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: AluminiUM

VCM - CERNIERA MASCHIO



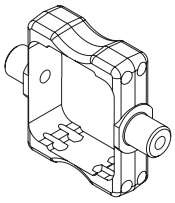
Code ●	Code ■	Code ◆	Ø	B	E	G	Z	CM	MR
VCM 032	VCMI 032	VCMZ 032 NE	32	9	45	10	22	26	10

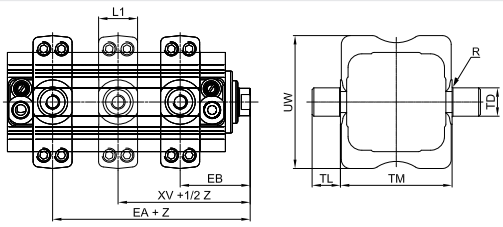
● Materiale: Alluminio con boccole autolubrificanti

■ Materiale: Inox

◆ Materiale: Acciaio

KDF14/RPF14 - ISO INTERMEDIATE HINGE





Code	Ø	EA	EB	L1	R	TD	TL	TM	UW	XV		g
						e9	h14	h14				
KDF-14032	32	31	41	22	0,5	12	12	50	65	36	±2	120
RPF-14040	40	32	41	22	0,5	16	16	63	75	36,5	±2	240
RPF-14050	50	36	45	22	1	16	16	75	95	40,5	±2	320
RPF-14063	63	37	48	28	1	20	20	90	105	43	±2	470

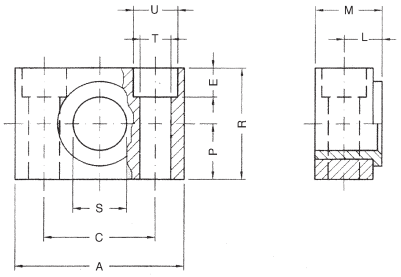
Z = Stroke

The dimension **XV + 1/2** indicates the position of the hinge between the end-caps of the cylinder

Material: Zinc-plated steel

FIXING ELEMENTS AND ACCESSORIES - SERIES RP

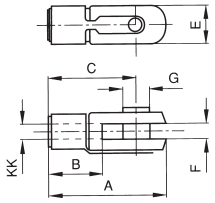
VSI - INTERMEDIATE HINGE SUPPORT



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

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

FC - YOKE WITH LOCABLE PIN



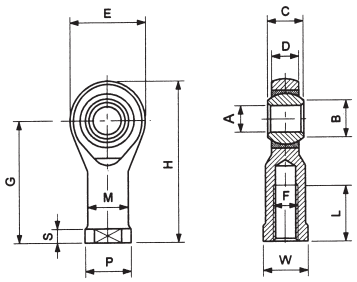
Code ●	Code ■	KK	A	B	C	E	F	G
FC 012	* FCI 012	M6	31	12	24	12	6	6
FC 020	* FCI 020	M8X1,25	42	16	32	16	8	8
FC 025	* FCI 025	M10x1.25	52	20	40	20	10	10
FC 040	* FCI 040	M12x1.25	62	24	48	24	12	12
FC 050	* FCI 050	M16x1.5	83	32	64	32	16	16

● Material: Steel

■ Material: Stainless steel

*** With pin and seeger**

TF - ROD ENDS SELF-LUBRICATING



Code ●	Code ■	F	A	B	C	Sphere	D	E	G	H	L	M	P	S	W	Radial load D	Radial load S	Weight
			0 H7	0	0 - 0.13		±0.13	±0.5	±0.5		±0.7	±0.7	±0.5	±0.7	±0.25	kg	kg	g
TF 012	TFI 012	M6X1	6	8,9	9	12.7	6,75	20	30	40	9	10	13	5	11	470	1100	19
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

● Material: Steel

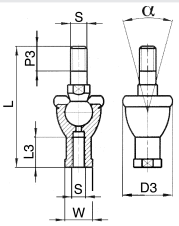
■ Material: Stainless steel

D Dynamic; S Static

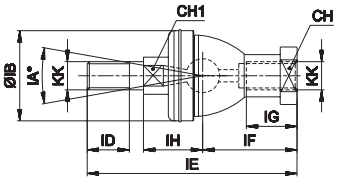
FIXING ELEMENTS AND ACCESSORIES - SERIES RP

TS - SNODABLE YOKE

TS



MF



Code	S	L	L3	W	P3	D3	α°	Radial load (kN) S
TS 020	M8x1.25	65	16	14	12	20	30°	11
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

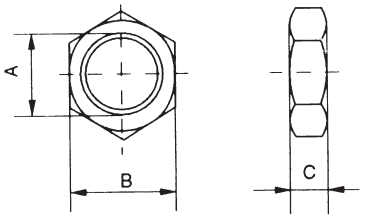
Material: steel

S Static

Code	Ø	CH	CH1	IA°	KK	IH ±0.13	IB	ID	IE	IF	IG	g
MF-22016	16	11	8	30	M6X1	12,2	22	11	55,2	28	15	40

Material: Steel

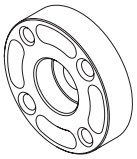
DA - NUT FOR RODS



Code	A	B	C
0DA00 00 51 C3 ZI	M8x1.25	13	6.5
0DA00 00 51 C9 ZI	M10x1.25	17	8
0DA00 00 51 D5 ZI	M12x1.25	19	7
0DA00 00 51 E3 ZI	M16x1.5	22	6

Material: steel

RPF28 - FLANGE FOR FEMALE PISTON ROD (STANDARD SUPPLIED FOR RQ SERIES)

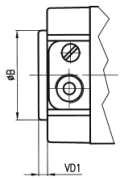


Code	Ø	g
RPF-28016	16	0,007
RPF-28020	20	0,018
RPF-28025	25	0,020
RPF-28032	32	0,024
RPF-28040	40	0,035
RPF-28050	50	0,057
RPF-28063	63	0,094

Material: Aluminum

FIXING ELEMENTS AND ACCESSORIES - SERIES RP

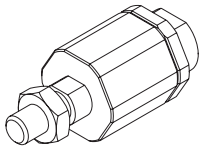
RPF09 - ADAPTER FOR CENTRING

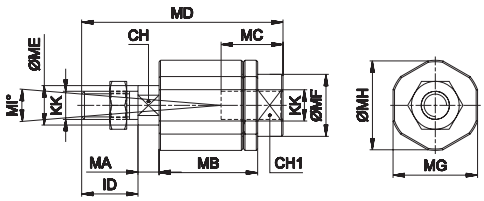


Code	Ø	ØB	VD1
RSF-09032	32	30	3
RSF-09040	40	35	3
RSF-09050	50	40	3
RSF-09063	63	45	3

Material: Aluminium

KF-24 - SELF-ALIGNING JOINT

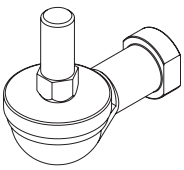


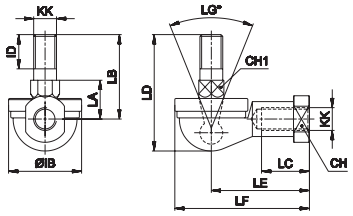


Code	Ø	CH	CH1	ID	KK	MA	MB	MC	MD	ME	MF	MG	MH	MI°	g
MF-24012	12	5	7	11	M6x1	2,5	17,5	12,5	35	6	8,5	13	14,5	6	55
MF-24020	20 - 25	7	11	21	M8x1.25	5	26	16	57	8	12,5	17	19	8	60
KF-24032	32	12	19	71	M10x1.25	5	35	20	71	14	22	30	32	8	220
KF-24040	40	12	19	75	M12x1.25	5	35	20	75	14	22	30	32	8	220
KF-24050	50-63	20	30	103	M16x1.5	8	54	32	103	22	32	41	45	6	660
KF-24080	80 - 100	20	30	119	M20x1.5	8	54	40	119	22	32	41	45	6	700

Material: galvanized steel

MF32/KF23 - FORK WITH ANGLE MOUNTED ARTICULATED PIN



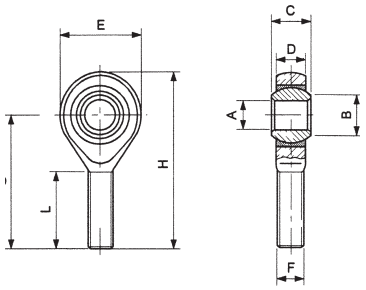


Code	Ø	CH	CH1	LG°	KK	IB	ID	LA ± 0.3	LB	LC	LD	LE	LF	g
MF-32012	16	11	8	50	M6x1	22	11	11	26	14	35,5	30	40	37
MF-32020	20 - 25	14	10	50	M8x1,25	28	12	14	31	17	42,5	36	48	67
KF-23025	32	17	11	50	M10x1.25	32	15	17	37	21	50,5	43	57	110
KF-23040	40	19	17	50	M12x1.25	36	17	19	42	42	57,5	50	66	165
KF-23050	50-63	22	19	40	M16x1.5	47	23	23,5	60	60	79,5	64	84	330
KF-23080	80 - 100	30	24	32	M20x1.5	58	25	27	68	68	90	77	99	540

Material: galvanized steel

FIXING ELEMENTS AND ACCESSORIES - SERIES RP

TM - MALE ROD ENDS



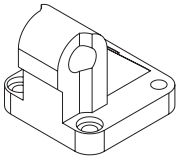
Code	Ø	F	A	B	C	Sphera	D	E	G	H	L	Radial load D	Radial load S	Weight
			0 H7	0	0 - 0.13		±0.13	±0.5	±0.5		±0.7	kg	kg	g
TM 032	20 - 25	M6x1	6	8.9	9	12.7	7.5	20	36	46	21	470	1100	15
TM 050	32 - 40	M8x1,25	8	10.4	12	15.88	9.5	24	42	54	25	780	1900	34
TM 080	50 - 63	M10x1,5	10	12.9	14	19.05	11.5	30	48	63	28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

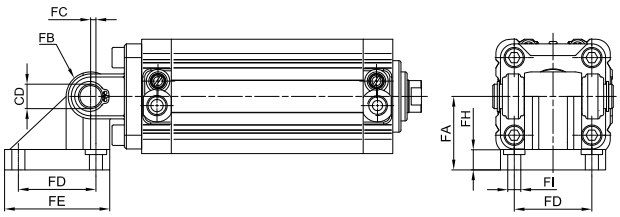
Material: steel

D Dinamic; **S** Static

KF19 - COUNTER HINGE 90°

TO EXHAUSTION

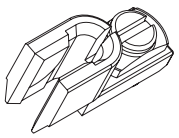


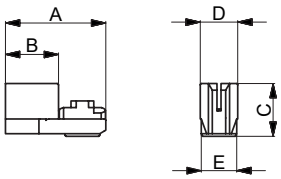


Code	Ø	Q H13	BG ±0,2	H	I ±0,2	L	M ±0,2	N ±0,2	O	S	R Max	BQ ±0,2/ ±0,1	G H9	g
KF-19032	32	10	32	10	1,2	32,5	46,5	26	-0,2 / -0,6	9	6,5	5,5	10,5	90
KF-19040	40	12	36	12	2,6	38	51,5	28	-0,2 / -0,6	9	6,5	5,5	10,5	120
KF-19050	50	12	45	12	0,3	46,5	63,5	32	-0,2 / -0,6	9	8,5	5	13,5	200
KF-19063	63	16	50	16	3,3	56,5	73,5	40	-0,2 / -0,6	10,5	8,5	5	13,5	320

Material: Aluminium

DF - SENSOR WIRE GUIDE CABLE CLAMP

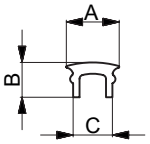




Code	A	B	C	D	E
DF-001	15	7,8	7,9	5,8	5,5

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