

ISO 1552
PNEUMATIC CYLINDERS
ISO-M SERIES Ø32 - Ø125



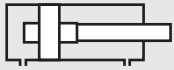


ISO-M SERIES

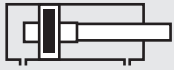
ISO 15552 - Ø32 - Ø125

MAGNETIC CUSHIONING CYLINDER

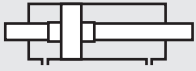
HIGH TEMPERATURE ENDURANCE,
HIGH DURABILITY



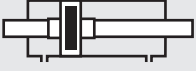
ISO: DOUBLE ACTING CYLINDER WITH CUSHIONING



ISO-M: DOUBLE ACTING CYLINDER WITH CUSHIONING AND MAGNETIC



ISO-D: DOUBLE ACTING CYLINDER WITH CUSHIONING AND DOUBLE ROD



ISO-MD: DOUBLE ACTING CYLINDER WITH CUSHIONING, MAGNETIC AND DOUBLE ROD

Cushioning is standard on these products.

Example of order:

ISO-M

Product Code

050-0100

Cylinder Ø
Stroke

SF RC

Cylinder
Mountings

R1 K1

Variants from
Standard System

VARIANTS FROM STANDARD SYSTEM:

- R1: Stainless Steel Piston Rod (SS 304-SS 316)
- R3: Stainless Steel Screws for Cylinder Covers (SS 304)
- R4: Stainless Steel Nut for Piston Rod (SS 304)
- R5: Piston Rod as CK45 (Hard chrome plated)
- M1: Extended male Piston Rod Thread
- M2: Female Piston Rod Thread
- M3: Special Piston Rod Thread
- M4: Extended Piston Rod
- E1: Hard Eloxal Plated, Anticorrosive Aluminium Covers
- K1: Seals for Max. 150°C (Viton)
- K2: Piston Rod Seal NBR + PA
- K3: Seals NBR
- K4: Piston Rod Seal Viton

Working Fluid:

Filtered and lubricated or filtered and not lubricated air

Operating Temperature Range:

Polyurethane (PU) : (-20°C) - (+80°C)

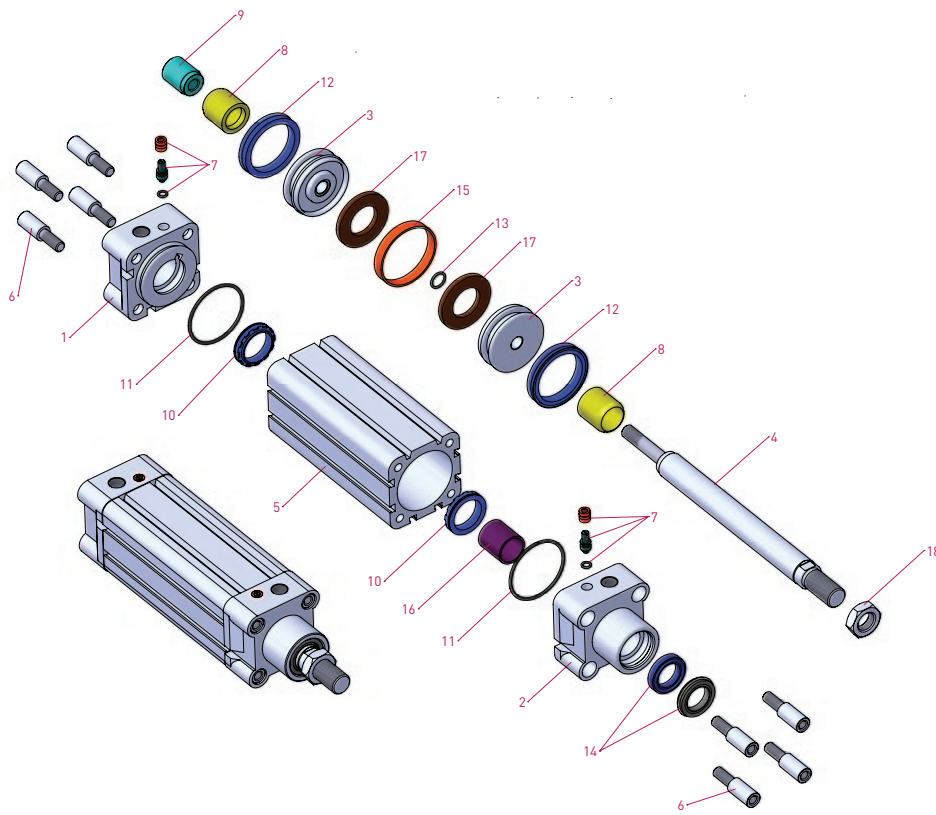
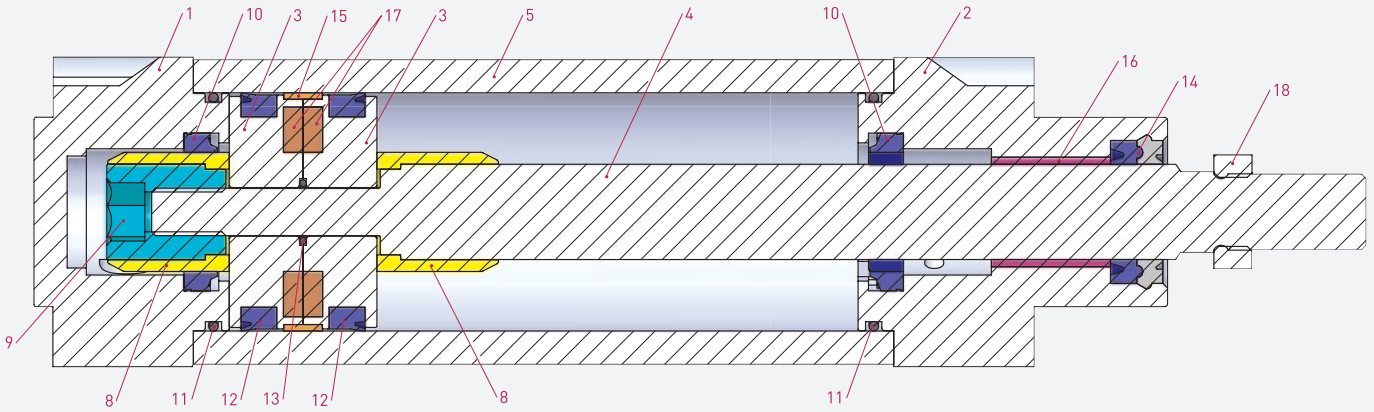
Viton (FKM) : (-30°C) - (+180°C)

Max. Work Pressure:

10 Bar

Force:

Cylinder Ø mm	Rod Ø mm	Thrust and traction forces (6 Bar)	
		Thrust Force (N)	Traction Force (N)
32	12	482	415
40	16	754	633
50	20	1178	990
63	20	1870	1682
80	25	3016	2721
100	25	4712	4418
125	32	7363	6881



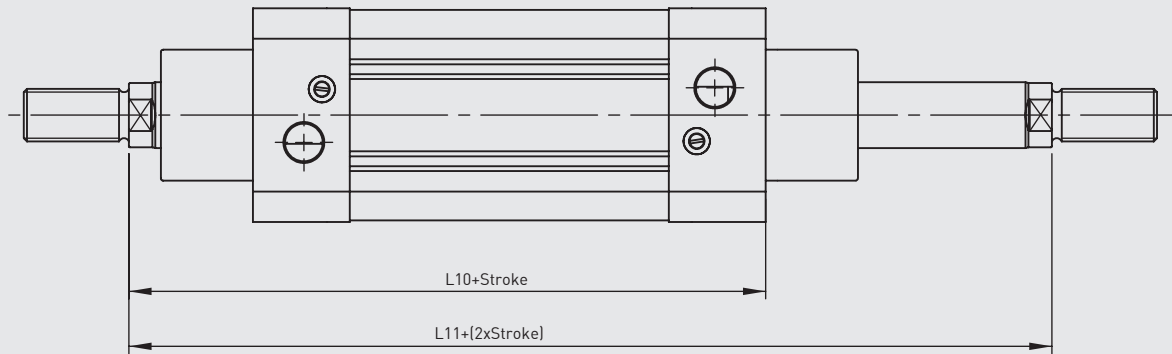
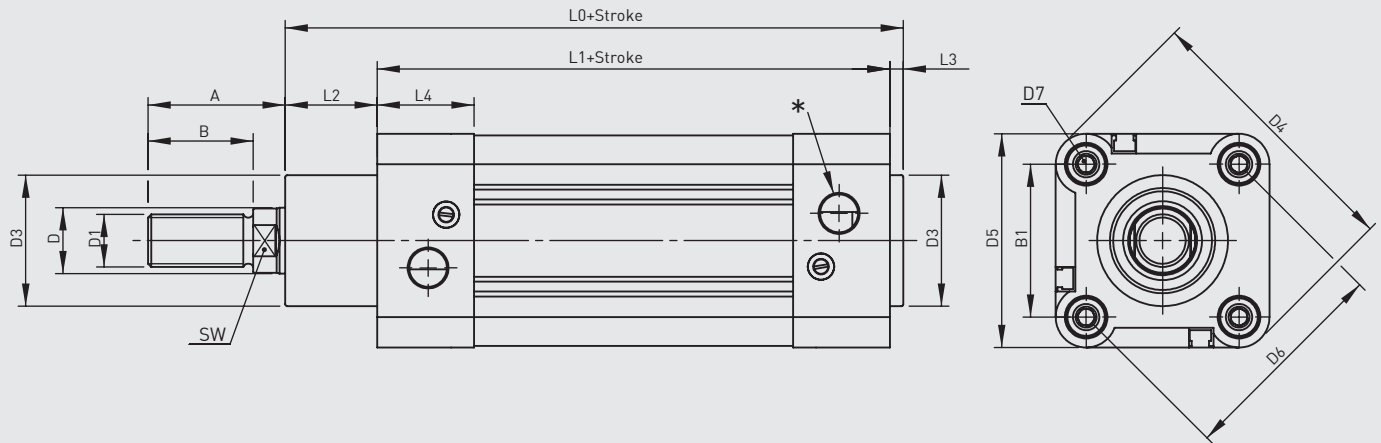
No	MATERIAL NAME	CHARACTERISTIC	PC.
1	Rear Head	Aluminium	1
2	Front Head	Aluminium	1
3	Middle Piston	Aluminium	2
4	Piston Rod	X20 Cr13 Hard Chrome Plated	1
5	Tube	Al Mg Si1+Eloxal Plated	1
6	Bolt	Galvanized Steel	8
7	Cushioning Screw	6082 Al. + Eloxal + AISI 303 NBR	2
8	Cushioning Plastic	Polyacetal	2
9	Cushioning Fem. Thread	Galvanized Steel	1
10	Cushioning Seal	PU	2
11	Head O-ring	NBR	2

No	MATERIAL NAME	CHARACTERISTIC	PC.
12	Piston Seal	PU	2
13	Middle Piston O-ring	NBR	1
14	Rod Seal	HYTREL + PU	1
15	Guiding Band	Polyacetal	1
16	Guiding Bush	CSB-40	1
17	Magnet		2
18	Nut	Galvanized Steel	1

Note:

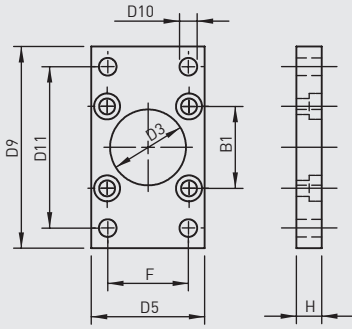
Dia 32: Instead of Cushioning Plastic is used Cushioning yellow and instead of Cushioning Plastic Female Thread is used Cushioning yellow Female Thread. (Material:Brass)

Dia 125: Instead of Cushioning Plastic is used Cushioning Aluminium and instead of Cushioning Plastic Female Thread is used Cushioning Aluminium Female Thread. (Material: Anodized Aluminium)

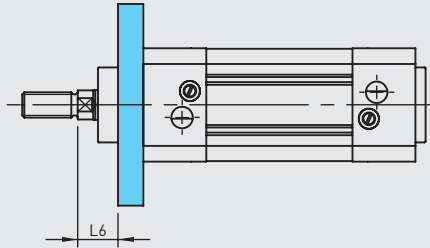


Cylinder Ø mm	A	B	B1	D Ø	D1	D3 Ø	D4	D5	D6 Ø	D7	L0	L1	L2	L3	L4	L10	L11	SW	*
32	30	22	32.5	12	M10x1.25	30	59	45	46	M6	116	94	18	4	25	120	146	10	G1/8"
40	34	24	38	16	M12x1.25	35	70.2	54	53.7	M6	129	105	20	4	27	135	165	13	G1/4"
50	41	32	46.5	20	M16x1.5	40	84.2	65	65.7	M8	138	106	28	4	29.5	143	180	17	G1/4"
63	42	32	56.5	20	M16x1.5	45	99.5	76	80	M8	152	121	27	4	34.5	158	195	17	G3/8"
80	52	40	72	25	M20x1.5	45	123.8	94	101.8	M10	167	128	34	4	35	174	220	22	G3/8"
100	52.5	40	89	25	M20x1.5	55	148.8	112	125.9	M10	182.5	138	38.5	4	38	189	240	22	G1/2"
125	73	54	110	32	M27x2	60	179.5	134	155.5	M12	213	160	46	6	44	225	290	27	G1/2"

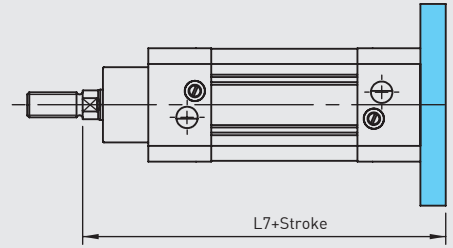
FLM FLANGE MOUNTING



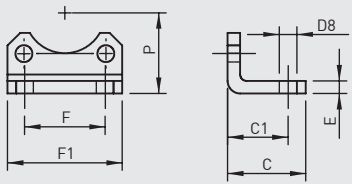
FMF FLANGE MOUNTING AT FRONT



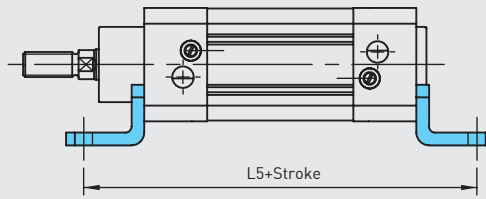
FMTR FLANGE MOUNTING AT REAR



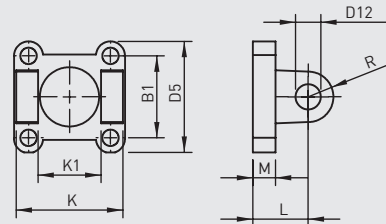
FM FOOT MOUNTING



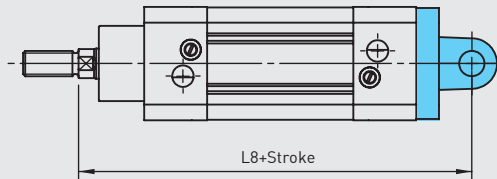
FM FOOT MOUNTING



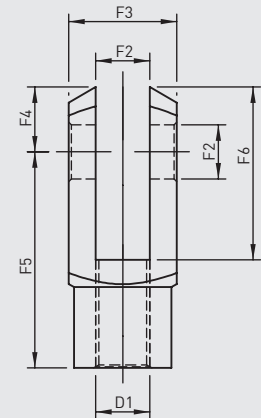
SF SWIVEL FLANGE



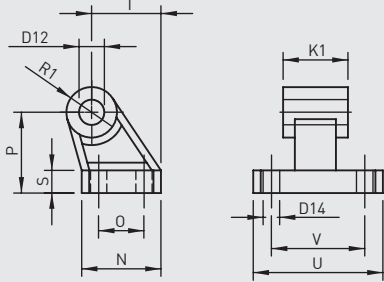
SF SWIVEL FLANGE



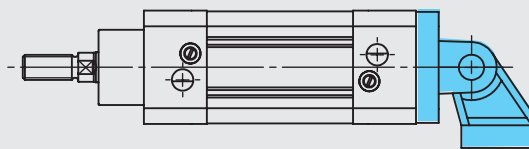
RC ROD CLEVIS



CFM CLEVIS FOOT MOUNTING

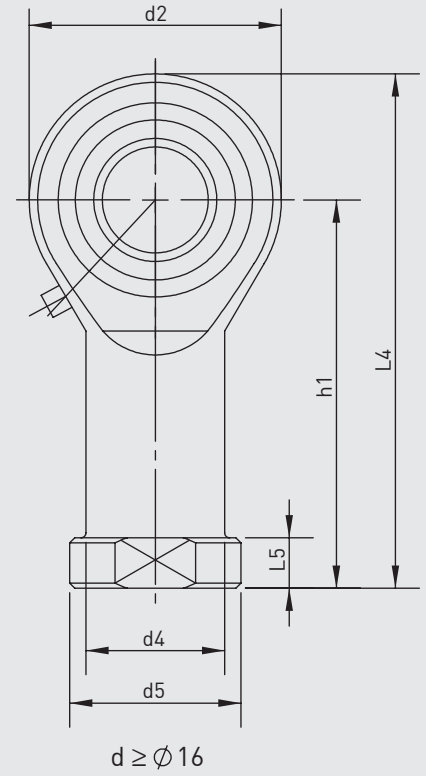
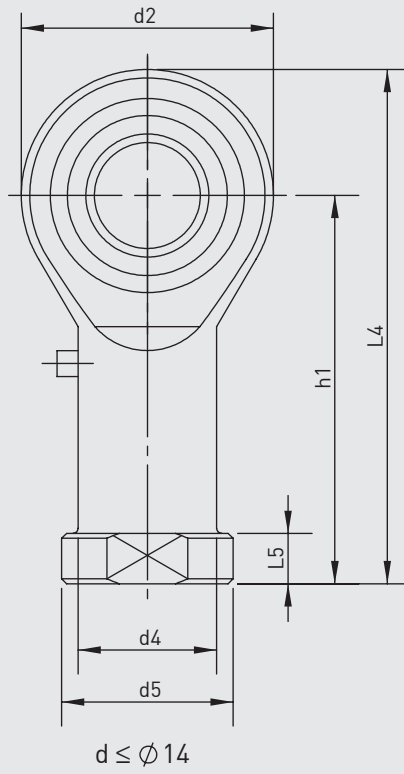
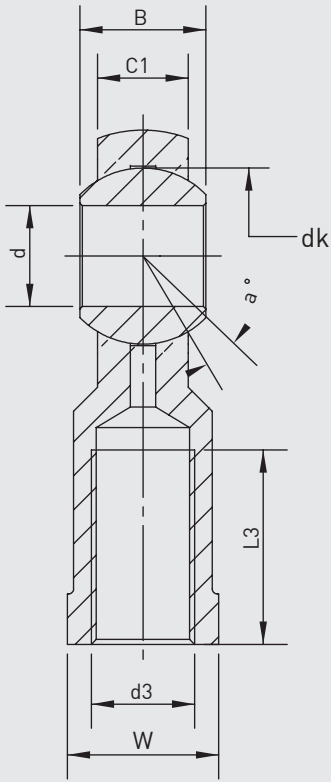


SFWCFM SWIVEL FLANGE WITH CLEVIS FOOT MOUNTING



Cylinder Ø mm	B1	C	C1	D1	D3 Ø	D5	D8 Ø	D9	D10 Ø	D11	D12 Ø	D14 Ø	E	F	F1	F2 Ø	F3
32	32.5	30	24	M10x1.25	30	45	7	80	7	64	10	5.5	5	32	45.5	10	20
40	38	37	28	M12x1.25	35	54	10	90	9	72	12	5.5	5	36	54.5	12	24
50	46.5	41	32	M16x1.5	40	65	10	110	9	90	12	6.5	6	45	65	16	32
63	56.5	44	32	M16x1.5	45	76	10	120	9	100	16	6.5	6	50	76	16	32
80	72	56	41	M20x1.5	45	94	12	150	12	126	16	9	6	63	94	20	40
100	89	58	41	M20x1.5	55	112	14	175	14	150	20	9	6	75	112	20	40
125	110	67	45	M27x2	60	134	16	210	16	180	25	11	8	90	131	25	50

Cylinder Ø mm	F4	F5	F6	H	K	K1	L	L5	L6	L7	L8	M	N	O	P	R	R1	S	T	U	V
32	12	40	32	10	45	26	22	142	16	130	142	9	31	18	32	10	10	8	27.5	51	38
40	14	48	38	10	52	28	25	161	20	145	160	9	35	22	36	12	11	10	30.5	54	41
50	19	64	51	12	60	32	27	170	25	155	170	11	45	30	45	13	13	12	40.5	65	50
63	19	64	51	12	70	40	32	185	25	170	190	11	50	35	50	16	15	12	44.5	67	52
80	25	80	65	16	90	50	36	210	30	190	210	14	60	40	63	16	15	14	57	86	66
100	25	80	65	16	110	60	41	220	35	205	230	14	70	50	71	20	19	15	65	96	76
125	32	100	82	20	130	70	50	250	45	245	275	15	90	60	90	25	22.5	20	85	124	94



ISO-M SERIES
ISO 15552 - Ø32 - Ø125

Part No.	Dimensions (mm)													
	d	d3 6H	B	C1	w	L3 min	d2	L4	h1	L5	d4	d5	dk	a°
KMB 10-1	10	M10x1.25	14	10.5	17	20	26	56	43	6.5	15	19	19.05	13
KMB 12-1	12	M12x1.25	16	12	19	22	30	65	50	6.5	17.5	22	22.225	13
KMB 16-1	16	M16x1.5	21	15	22	28	40	84	64	8	22	27	28.575	15
KMB 20	20	M20x1.5	25	18	30	33	50	102	77	10	27.5	34	34.925	14
KMB 28	28	M27x2.0	35	24	41	48	66	136	103	14	37	46	47.6	15
KMB 30	30	M30x2.0	37	25	41	51	70	145	110	15	40	50	50.8	17

ISO 1552
PNEUMATIC CYLINDERS
PMT SERIES Ø32 - Ø100





PMT SERIES
ISO 15552 - Ø32 - Ø100

MAGNETIC CUSHIONING CYLINDER

LIGHT-WEIGHT MEETS
HIGH PERFORMANCE



Example of order:

PMT-A **050-0100** **SFWCFM RC** **M4**
 Product Code Cylinder Ø Stroke Cylinder Mountings Variants from Standard System

VARIANTS FROM STANDARD SYSTEM:

- R1: Stainless Steel Piston Rod (SS 304-SS 316)
- R3: Stainless Steel Screws for Cylinder Covers (SS 304)
- R4: Stainless Steel Nut for Piston Rod (SS 304)
- R5: Piston Rod as CK45 (Hard chrome plated)
- M1: Extended male Piston Rod Thread
- M2: Female Piston Rod Thread
- M3: Special Piston Rod Thread
- M4: Extended Piston Rod
- E1: Hard Eloxal Plated, Anticorrosive Aluminium Covers
- K1: Seals for Max. 150°C Viton)
- K2: Piston Rod Seal NBR + PA
- K3: Seals NBR
- K4: Piston Rod Seal Viton

Working Fluid:

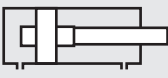
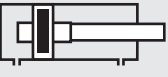
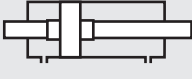
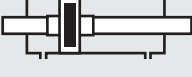
Filtered and lubricated or filtered and not lubricated air

Operating Temperature Range:

Polyurethane (PU) : (-20°C) - (+80°C)
 Viton (FKM) : (-30°C) - (+180°C)

Max. Work Pressure:

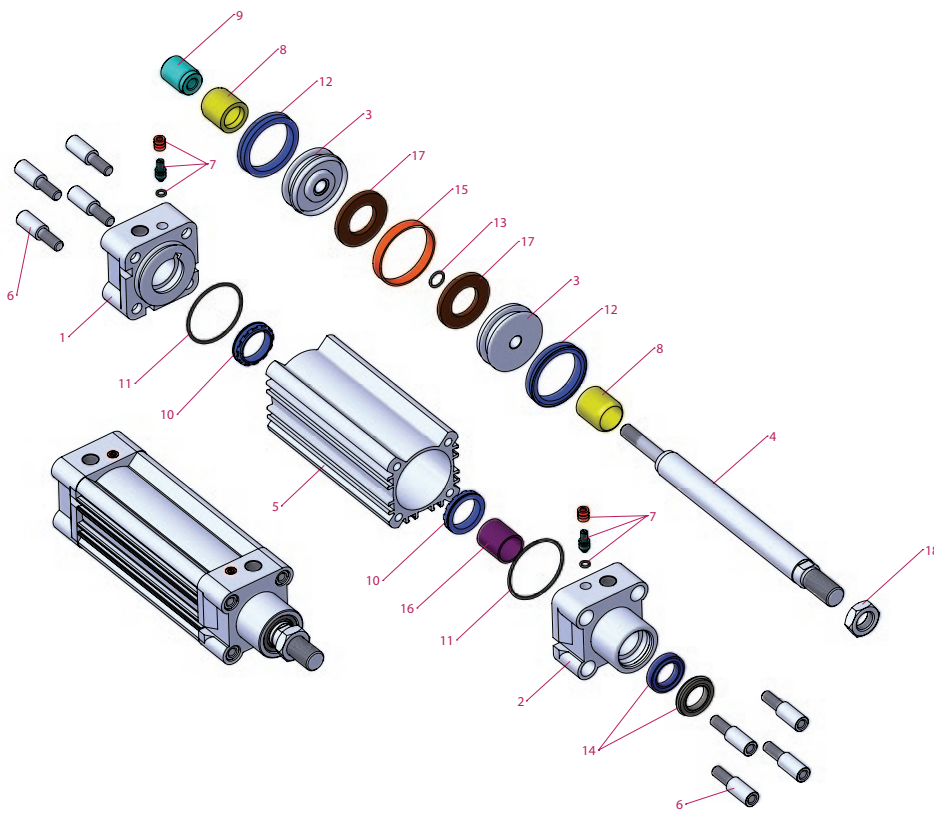
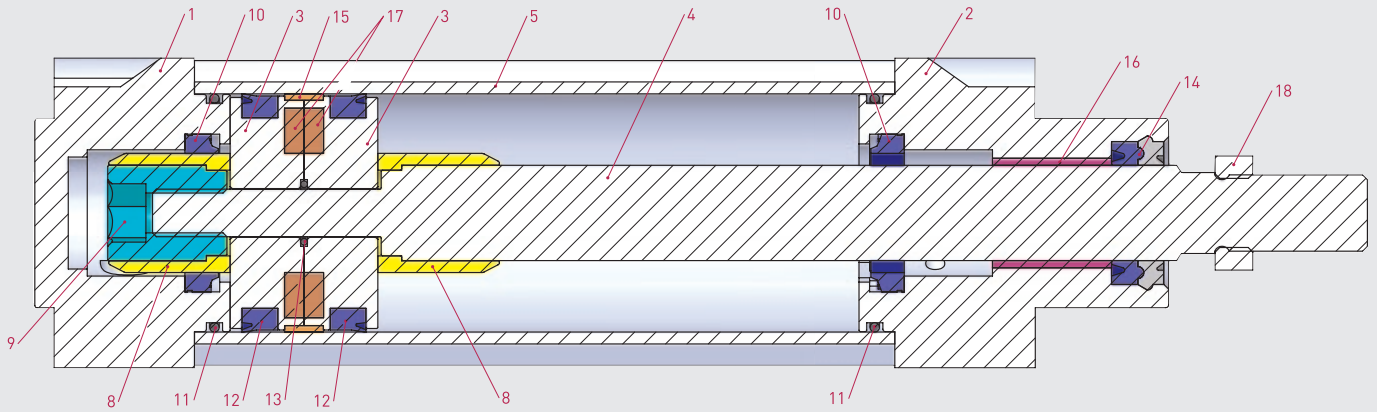
10 Bar

-  **PMT:** DOUBLE ACTING CYLINDER WITH CUSHIONING
-  **PMT-A:** DOUBLE ACTING CYLINDER WITH CUSHIONING AND MAGNETIC
-  **PMT-D:** DOUBLE ACTING CYLINDER WITH CUSHIONING AND DOUBLE ROD
-  **PMT-AD:** DOUBLE ACTING CYLINDER WITH CUSHIONING, MAGNETIC AND DOUBLE ROD

Cushioning is standard on these products.

Force:

Cylinder Ø mm	Rod Ø mm	Thrust and traction forces(6 Bar)	
		ThrustForce (N)	Traction Force (N)
32	12	482	415
40	16	754	633
50	20	1178	990
63	20	1870	1682
80	25	3016	2721
100	25	4712	4418

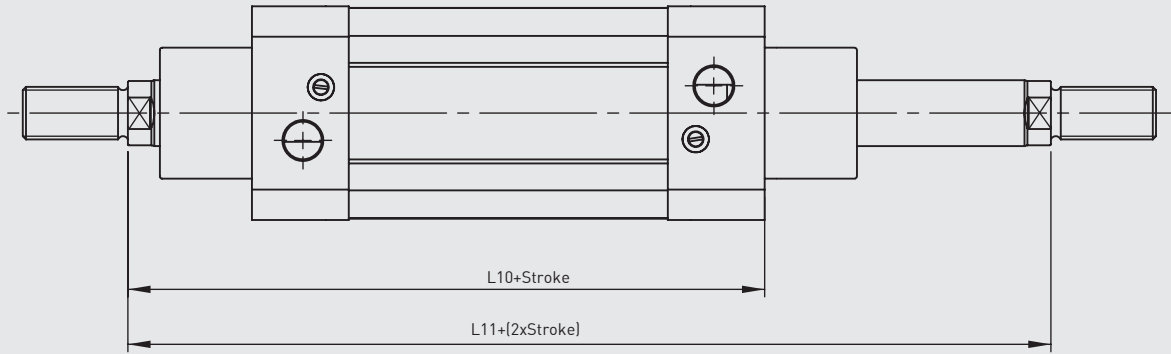
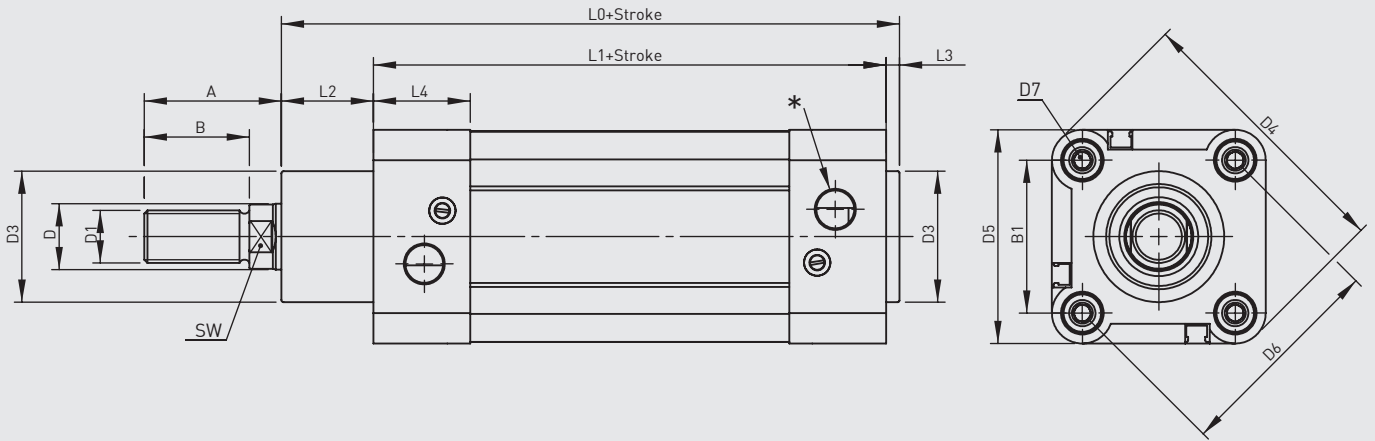


No	MATERIAL NAME	CHARACTERISTIC	PC.
1	Rear Head	Aluminium	1
2	Front Head	Aluminium	1
3	Middle Piston	Aluminium	2
4	Piston Rod	X20 Cr13 Hard Chrome Plated	1
5	Tube	Al Mg Si1+Eloxal Plated	1
6	Bolt	Galvanized Steel	8
7	Cushioning Screw	6082 AL.+Eloxal+AISI 303 NBR	2
8	Cushioning Plastic	Polyacetal	2
9	Cushioning Fem. Thread	Galvanized Steel	1
10	Cushioning Seal	PU	2
11	Head O-ring	NBR	2

No	MATERIAL NAME	CHARACTERISTIC	PC.
12	Piston Seal	PU	2
13	Middle Piston O-ring	NBR	1
14	Rod Seal	HYTREL + PU	1
15	Guiding Band	Polyacetal	1
16	Guiding Bush	CSB-40	1
17	Magnet		2
18	Nut	Galvanized Steel	1

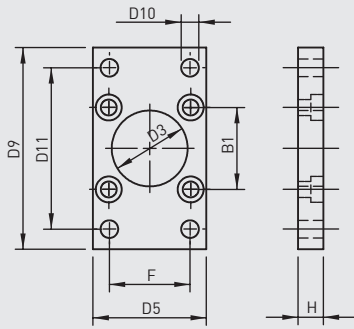
Note:

Dia 32: Instead of Cushioning Plastic is used Cushioning yellow and instead of Cushioning Plastic Female Thread is used Cushioning yellow Female Thread. (Material:Brass)

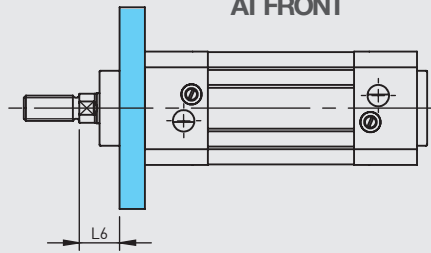


Cylinder Ø mm	A	B	B1	D Ø	D1	D3 Ø	D4	D5	D6 Ø	D7	L0	L1	L2	L3	L4	L10	L11	SW	*
32	30	22	32.5	12	M10x1.25	30	59	45	46	M6	116	94	18	4	25	120	146	10	G1/8"
40	34	24	38	16	M12x1.25	35	70.2	54	53.7	M6	129	105	20	4	27	135	165	13	G1/4"
50	41	32	46.5	20	M16x1.5	40	84.2	65	65.7	M8	138	106	28	4	29.5	143	180	17	G1/4"
63	42	32	56.5	20	M16x1.5	45	99.5	76	80	M8	152	121	27	4	34.5	158	195	17	G3/8"
80	52	40	72	25	M20x1.5	45	123.8	94	101.8	M10	167	128	34	4	35	174	220	22	G3/8"
100	52.5	40	89	25	M20x1.5	55	148.8	112	125.9	M10	182.5	138	38.5	4	38	189	240	22	G1/2"

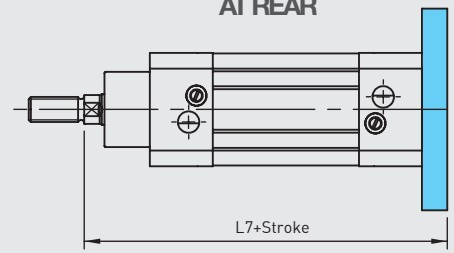
FLM FLANGE MOUNTING



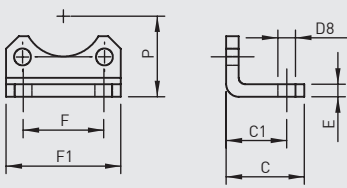
FMF FLANGE MOUNTING AT FRONT



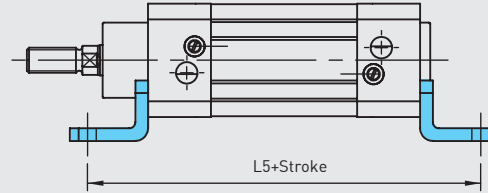
FMTR FLANGE MOUNTING AT REAR



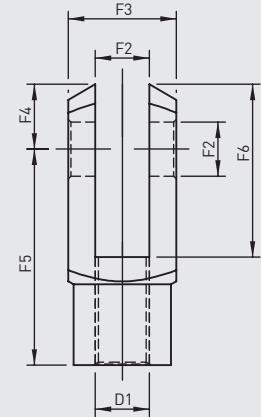
FM FOOT MOUNTING



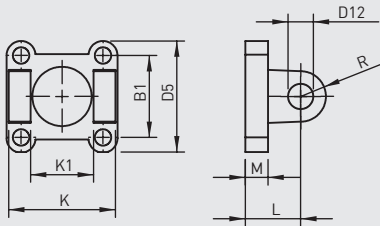
FM FOOT MOUNTING



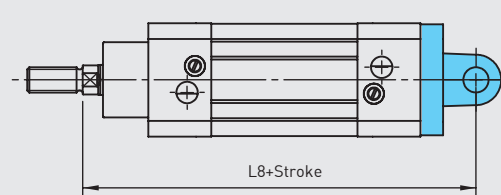
RC ROD CLEVIS



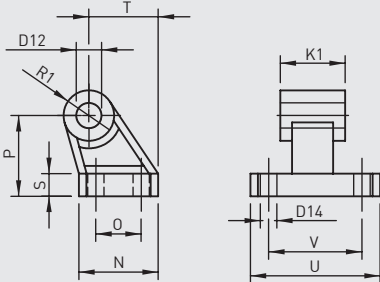
SF SWIVEL FLANGE



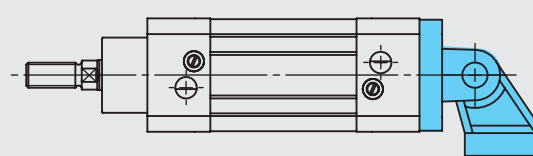
SF SWIVEL FLANGE



CFM CLEVIS FOOT MOUNTING

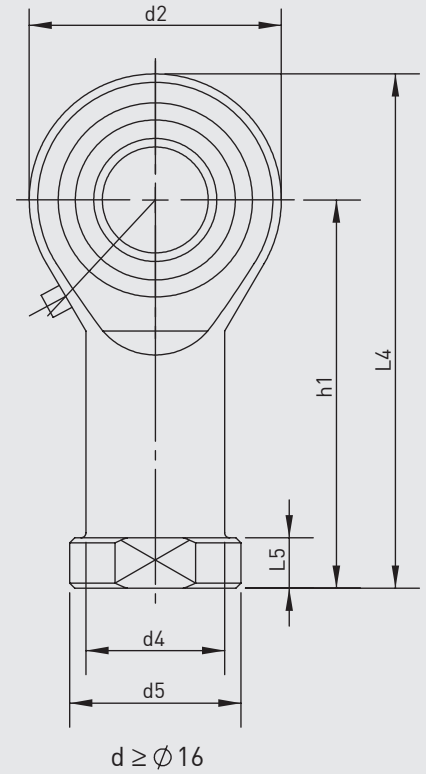
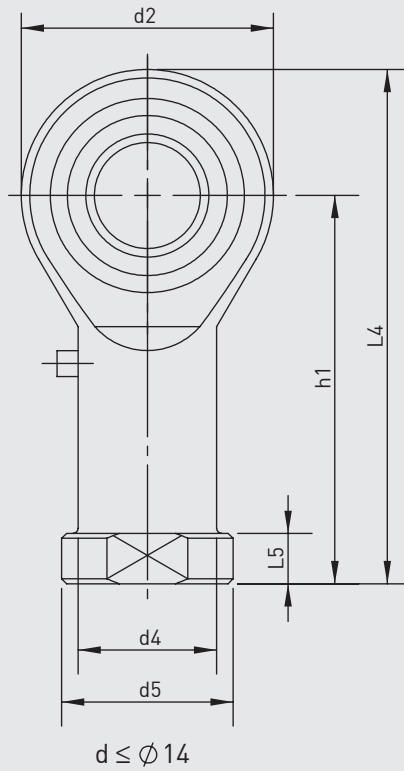
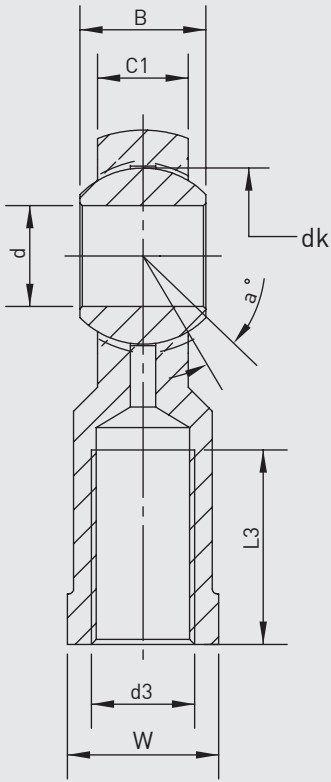


SFWCFM SWIVEL FLANGE WITH CLEVIS FOOT MOUNTING



Cylinder Ø mm	B1	C	C1	D1	D3 Ø	D5	D8 Ø	D9	D10 Ø	D11	D12 Ø	D14 Ø	E	F	F1	F2 Ø	F3
32	32.5	30	24	M10x1.25	30	45	7	80	7	64	10	5.5	5	32	45.5	10	20
40	38	37	28	M12x1.25	35	54	10	90	9	72	12	5.5	5	36	54.5	12	24
50	46.5	41	32	M16x1.5	40	65	10	110	9	90	12	6.5	6	45	65	16	32
63	56.5	44	32	M16x1.5	45	76	10	120	9	100	16	6.5	6	50	76	16	32
80	72	56	41	M20x1.5	45	94	12	150	12	126	16	9	6	63	94	20	40
100	89	58	41	M20x1.5	55	112	14	175	14	150	20	9	6	75	112	20	40

Cylinder Ø mm	F4	F5	F6	H	K	K1	L	L5	L6	L7	L8	M	N	O	P	R	R1	S	T	U	V
32	12	40	32	10	45	26	22	142	16	130	142	9	31	18	32	10	10	8	27.5	51	38
40	14	48	38	10	52	28	25	161	20	145	160	9	35	22	36	12	11	10	30.5	54	41
50	19	64	51	12	60	32	27	170	25	155	170	11	45	30	45	13	13	12	40.5	65	50
63	19	64	51	12	70	40	32	185	25	170	190	11	50	35	50	16	15	12	44.5	67	52
80	25	80	65	16	90	50	36	210	30	190	210	14	60	40	63	16	15	14	57	86	66
100	25	80	65	16	110	60	41	220	35	205	230	14	70	50	71	20	19	15	65	96	76



PMT SERIES
ISO 15552 - Ø32 - Ø100

Part No.	Dimensions (mm)													
	d	d3 6H	B	C1	w	L3 min	d2	L4	h1	L5	d4	d5	dk	a°
KMB 10-1	10	M10x1.25	14	10,5	17	20	26	56	43	6,5	15	19	19,05	13
KMB 12-1	12	M12x1.25	16	12	19	22	30	65	50	6,5	17,5	22	22,225	13
KMB 16-1	16	M16x1.5	21	15	22	28	40	84	64	8	22	27	28,575	15
KMB 20	20	M20x1.5	25	18	30	33	50	102	77	10	27,5	34	34,925	14