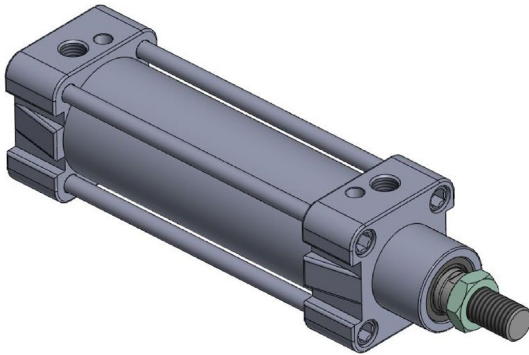




PST-A SERIES

**2020** CATALOGUE

 **Pemaks**<sup>®</sup>  
Pneumatics  
pemaks.com.tr

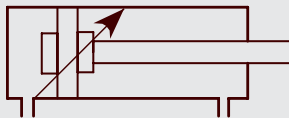


**PST-A SERIES**

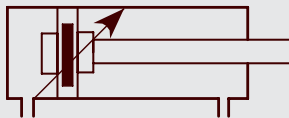
ISO 15552 - Ø32 - Ø125

ALUMINUM TUBE, TIE ROD  
MAGNETIC and CUSHIONING CYLINDER

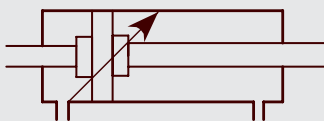
*VERY DURABLE WITH  
TIE ROD CONNECTION.*



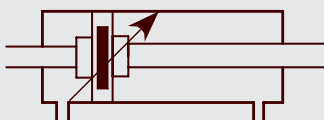
**PST:** DOUBLE ACTING and CUSHIONING CYLINDER



**PST-A:** DOUBLE ACTING, CUSHIONING and MAGNETIC CYLINDER



**PST-D:** DOUBLE ACTING, CUSHIONING and DOUBLE ROD CYLINDER



**PST-AD:** DOUBLE ACTING, CUSHIONING, MAGNETIC and DOUBLE ROD CYLINDER

Cushioning is standart on these products.

**Force value:**

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

**Example of order:**

**PST-A**    **050-0100**    **EB ÇB**    **K4**  
 Product Code    Cylinder Ø Stroke    Cylinder Mountings    Non-standard variations

**Non-standart variations:**

- 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 CK 45 (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 150°C (Viton)
- K2: Piston Rod Seal NBR+PA
- K3: Seals NBR
- K4: Piston Rod Seal Viton

**Working Fluid:**

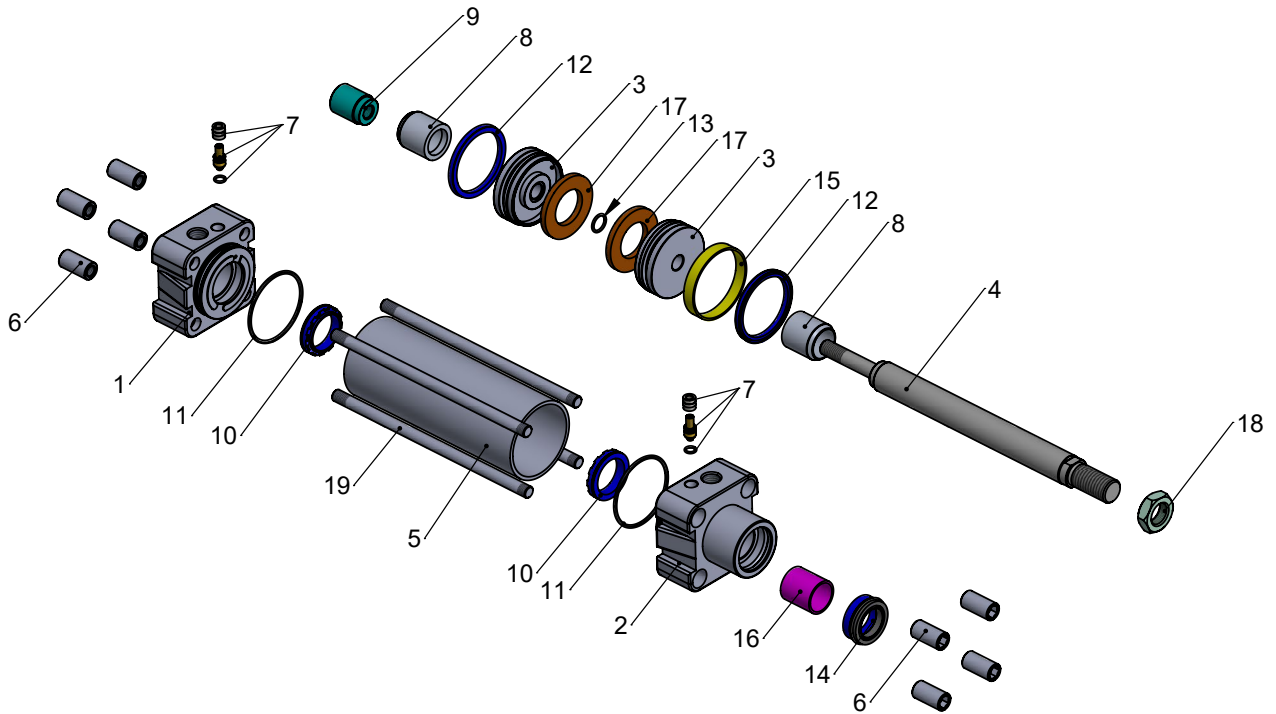
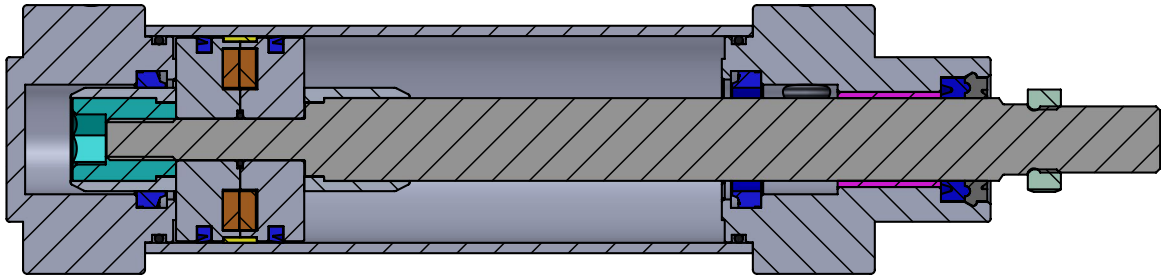
Filtered and lubricated or filtered and not lubricated air.

**Operating temperature range:**

Polyurethane (PU) : (-20°C) - (+80°C)  
 Viton (FKM) : (-30°C) - (+150°C)

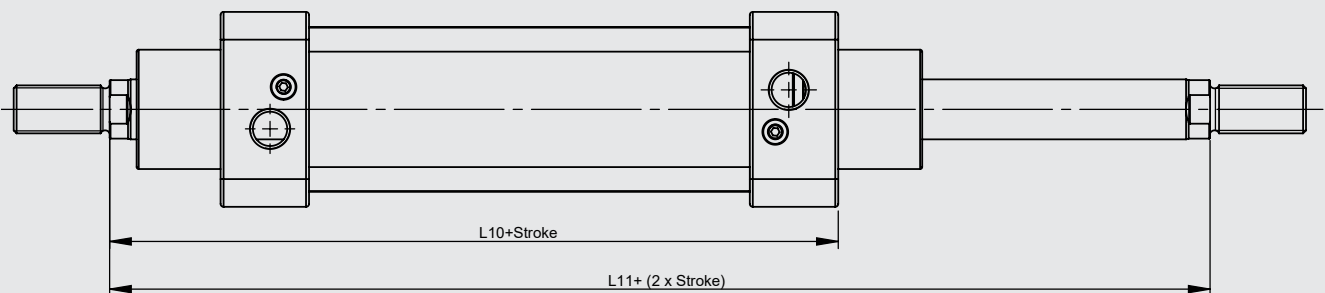
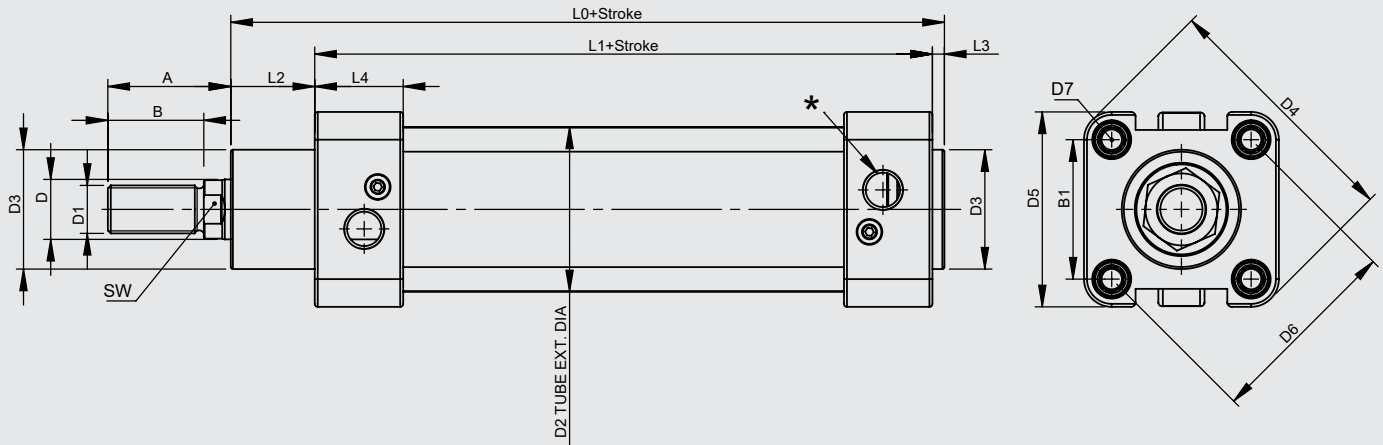
**Max. work pressure:**

10 Bar



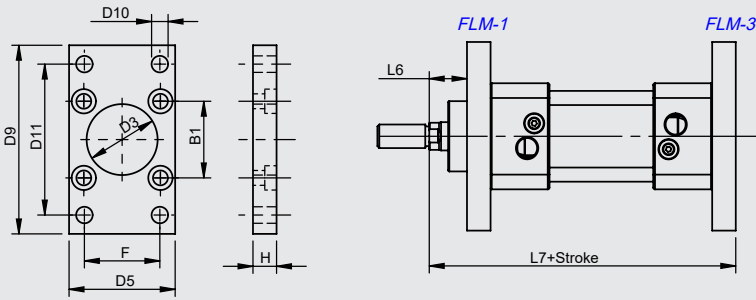
No	Part Name	Material Properties	Pc.
1	Rear Head	Aluminium	1
2	Front Head	Aluminium	1
3	Middle Piston	Aluminium	2
4	Piston Rod	X20Cr13 Hard Chrome Plated	1
5	Tube	Aluminium+Eloxal Plated	1
6	Bolt	Galvanized Steel	8
7	Cushioning Screw	Brass + AISI 303 +NBR	2
8	Cushioning Tube	Polyacetal	2
9	Cushioning Fem. Thread	Galvanized Steel	1
10	Cushioning Seal	PU	2

No	Part Name	Material Properties	Pc.
11	Head O-ring	NBR	2
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
19	Tie Rod	SS 304	4

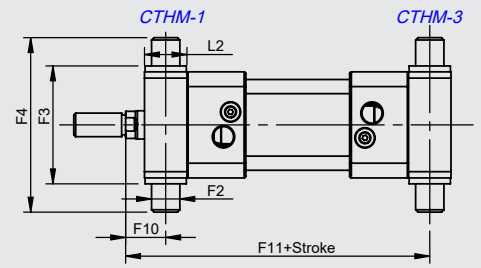


Cylinder Ø mm	A	B	B1	D Ø	D1	D2 Ø	D3 Ø	D4	D5	D6 Ø	D7	L0	L1	L2	L3	L4	L10	L11	SW	*
32	30	22	32,5	12	M10x1.25	37	30	59	45	46	M6	116	94	18	4	25	120	146	10	G1/8"
40	34	24	38	16	M12x1.25	45	35	70,2	54	53,7	M6	129	105	20	4	27	135	165	13	G1/4"
50	41	32	46,5	20	M16x1.5	55	40	84,2	65	65,7	M8	138	106	28	4	29,5	143	180	17	G1/4"
63	42	32	56,5	20	M16x1.5	68	45	99,5	76	80	M8	152	121	27	4	34,5	158	195	17	G3/8"
80	52	40	72	25	M20x1.5	85	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	107	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	133	60	179,5	134	155,5	M12	213	160	46	6	44	225	290	27	G1/2"

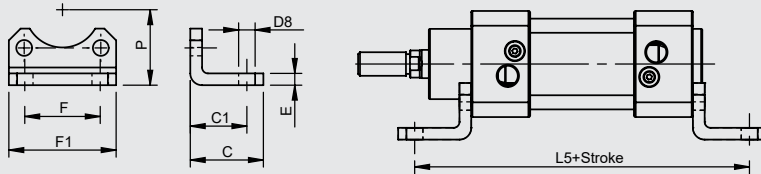
**FLM Flange Mounting**



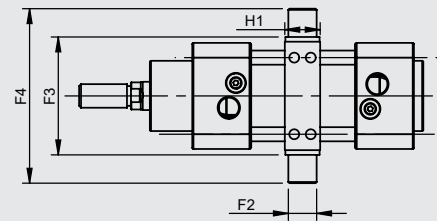
**CTHM Central Trunnion Head Mounting**



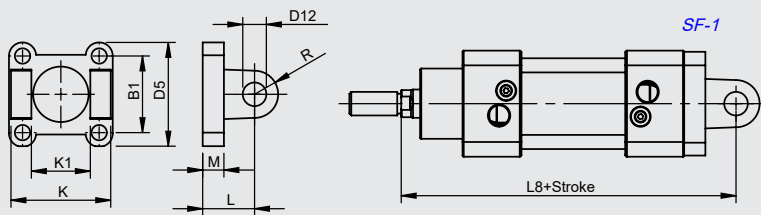
**FM Foot Mounting**



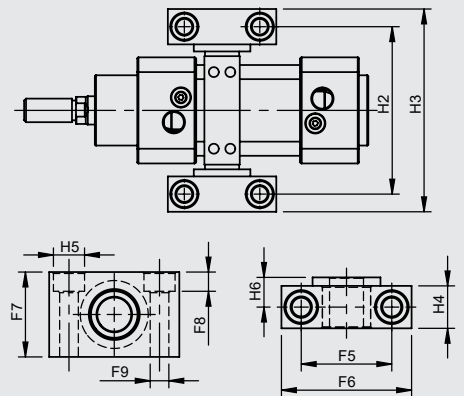
**CTM-3 Central Trunnion Mounting**



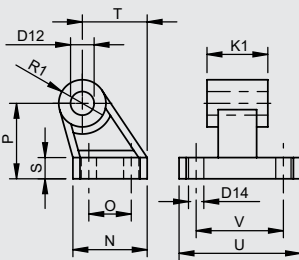
**SF Swivel Flange**



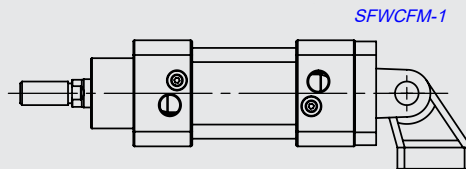
**TSM Trunnion Support Mounting**



**CFM Clevis Foot Mounting**



**SFWCFM Swivel Flange with Clevis Foot Mounting**



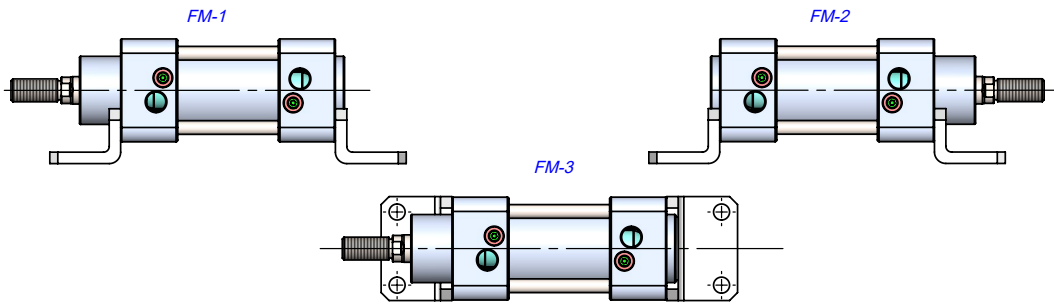
Cylinder Ø mm	B1	C	C1	D3 Ø H11	D5	D8 Ø H14	D9	D10 Ø H13	D11 JS14	D12 Ø H9	D14 Ø H13	E	F	F1 JS14	F2 Ø e9	F3 h14	F4	F5 ±0,2	F6	F7	F8	F9 Ø H13	F10	F11
32	32.5	30	24	30	45	7	80	7	64	10	6.6	5	32	45.5	12	50	74	32	46	30	6.8	6.6	17	129
40	38	37	28	35	54	10	90	9	72	12	6.6	5	36	54.5	16	63	95	36	55	36	9	9	20	145
50	46.5	41	32	40	65	10	110	9	90	12	9	6	45	65	16	75	107	36	55	36	9	9	23	157
63	56.5	44	32	45	76	10	120	9	100	16	9	6	50	76	20	90	130	42	65	40	11	11	23.5	171.5
80	72	56	41	45	94	12	150	12	126	16	11	6	63	94	20	110	150	42	65	40	11	11	29	191
100	89	58	41	55	112	14	175	14	150	20	11	6	75	112	25	132	182	50	75	50	13	14	31.8	208.3
125	110	67	45	60	134	16	210	16	180	25	14	8	90	131	25	160	210	50	75	50	13	14	42	248

Cylinder Ø mm	H	H1 -0,2	H2	H3	H4	H5 Ø H13	H6	K h14	K1 H14	L	L2	L5	L6	L7	L8	M	N	O JS14	P JS16	R	R1	S	T	U	V JS14
32	10	28	71	86	15	11	10.5	45	26	22	18	142	16	130	142	9	31	18	32	10	10	8	27.5	51	38
40	10	28	87	105	18	15	12	52	28	25	20	161	20	145	160	9	35	22	36	12	11	10	30.5	54	41
50	12	34	99	117	18	15	12	60	32	27	28	170	25	155	170	11	45	30	45	13	12	12	40.5	65	50
63	12	34	116	136	20	18	13	70	40	32	27	185	25	170	190	11	50	35	50	16	15	12	44.5	67	52
80	16	34	136	156	20	18	13	90	50	36	34	210	30	190	210	14	60	40	63	16	15	14	57	86	66
100	16	44	164	189	24.5	20	16	110	60	41	38.5	220	35	205	230	14	70	50	71	20	19	15	65	96	76
125	20	44	192	217	24.5	20	16	130	70	50	46	250	45	245	275	15	90	60	90	25	22.5	20	85	124	94

### FLM Flange Mounting



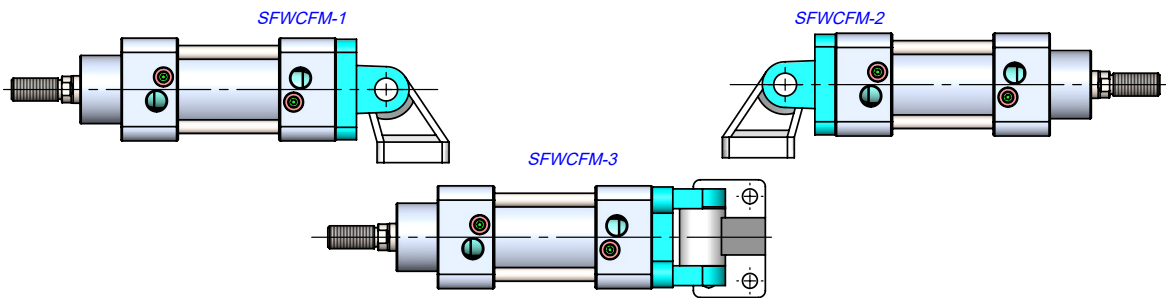
### FM Foot Mounting



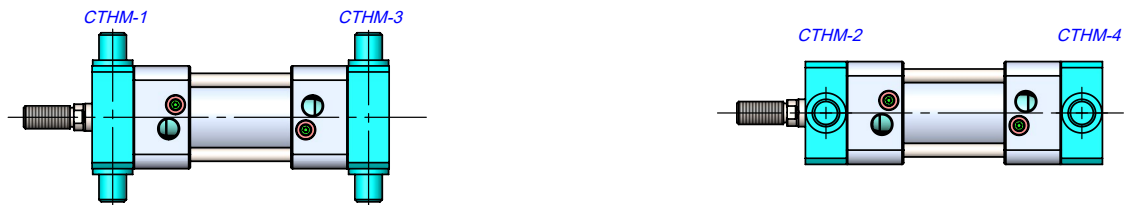
### SF Swivel Flange



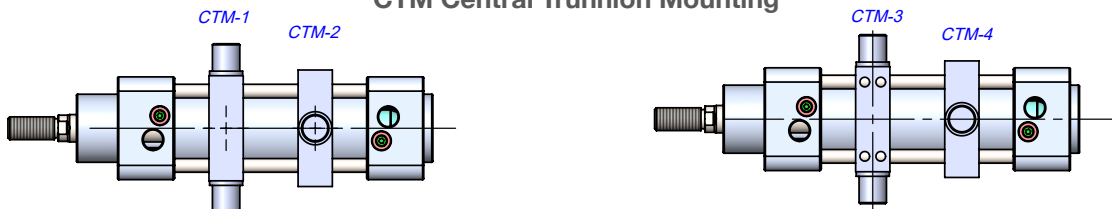
### SFWCFM Swivel Flange with Clevis Foot Mounting



### CTHM Central Trunnion Head Mounting

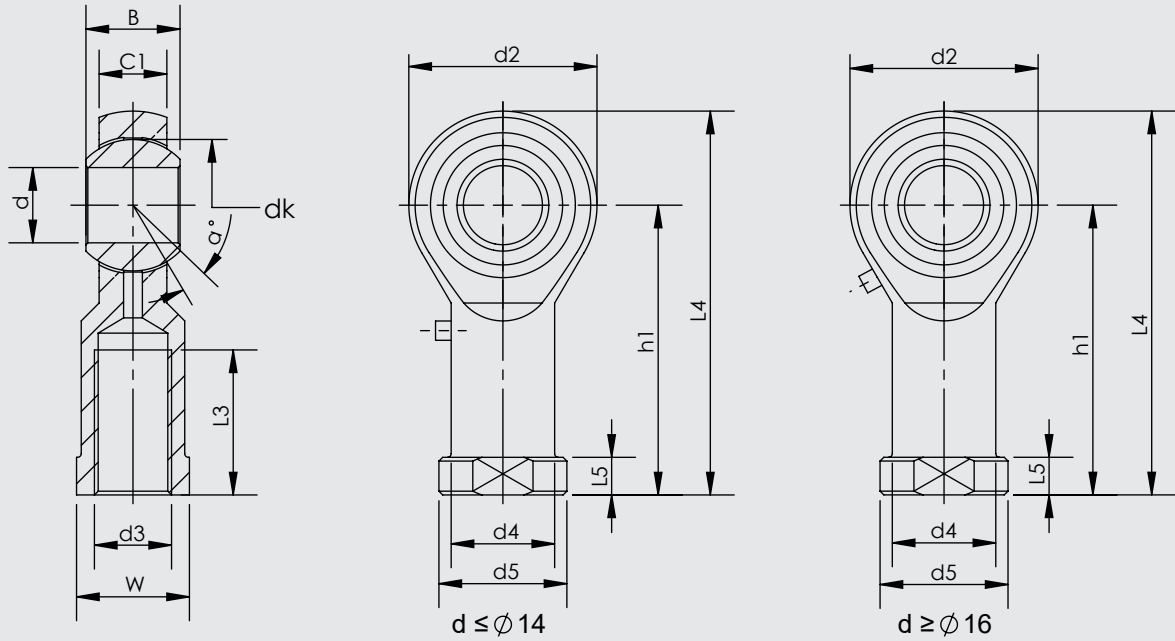


### CTM Central Trunnion Mounting

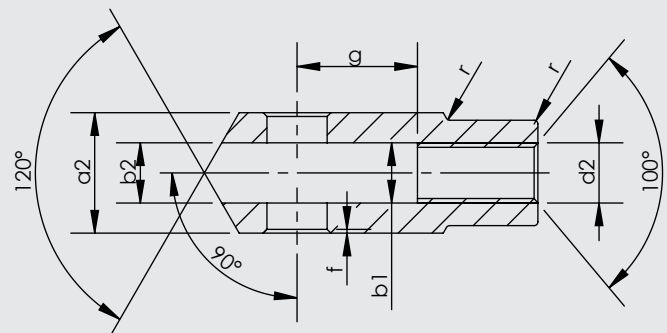
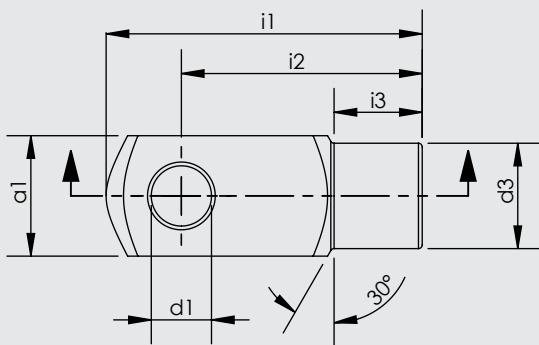


CTM-1-2 Constant Connection

CTM-3-4 Adjustable Connection



Part No.	Dimensions (mm)													
	d	d3 6H	B	C1	W	L3 min	d2	L4	h1	L5	d4	d5	dk	α°
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	35	24	41	48	66	136	103	14	37	46	47,6	15
KMB 30-1	30	M27x2	37	25	41	51	70	145	110	15	40	50	50,8	17
KMB 30	30	M30x2	37	25	41	51	70	145	110	15	40	50	50,8	17



Cylinder Ø mm	d1 H9	g ±0,5	a1 h 11	a2 +0,3 -0,16	b1 B 13	b2	d2 6H	d3 ±0,3	f ±0,2	i1 ±0,5	i2	i3 ±0,2	r
32	10	20	20	20	10	10	M10x1.25	18	0.5	52	40	15	0.5
40	12	24	24	24	12	12	M12x1.25	20	0.5	62	48	18	0.5
50	16	32	32	32	16	16	M16x1.5	26	1	83	64	24	1
63	16	32	32	32	16	16	M16x1.5	26	1	83	64	24	1
80	20	40	40	40	20	20	M20x1.5	34	1.5	105	80	30	1.5
100	20	40	40	40	20	20	M20x1.5	34	1.5	105	80	30	1.5
125	25	50	50	50	25	25	M27x2	42	1,5	132	100	36	1,5

ISO 15552  
PNEUMATIC CYLINDERS  
PMB SERIES Ø125 - Ø320







**PMB SERIES**

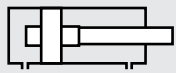
ISO 15552 - Ø125 - Ø320

ALUMINIUM TUBE CYLINDER WITH MAGNETIC AND CUSHIONING

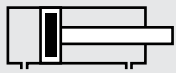
STRONG STRUCTURE PROVIDING HIGH PERFORMANCES EVEN IN DIFFICULT ENVIRONMENTS.



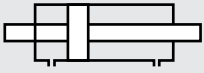
**PMB:** DOUBLE ACTING CYLINDER



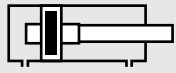
**PMB-Y:** DOUBLE ACTING CYLINDER WITH CUSHIONING



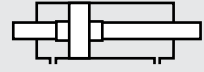
**PMB-A:** DOUBLE ACTING CYLINDER WITH MAGNETIC



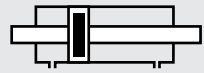
**PMB-D:** DOUBLE ACTING CYLINDER WITH DOUBLE ROD



**PMB-YA:** DOUBLE ACTING CYLINDER WITH CUSHIONING AND MAGNETIC



**PMB-YD:** DOUBLE ACTING CYLINDER WITH CUSHIONING AND DOUBLE ROD



**PMB-AD:** DOUBLE ACTING CYLINDER WITH MAGNETIC AND DOUBLE ROD

**Example of order:**

PMB-YA

Product Code

160-0200

Cylinder Ø Stroke

SF RC

Cylinder Mountings

K1

Variants from Standard System

**VARIANTS FROM STANDARD SYSTEM:**

- R1: Stainless Steel Piston Rod (SS 304-SS 316)
- R2: Stainless Steel Tie Rods (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
- 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)

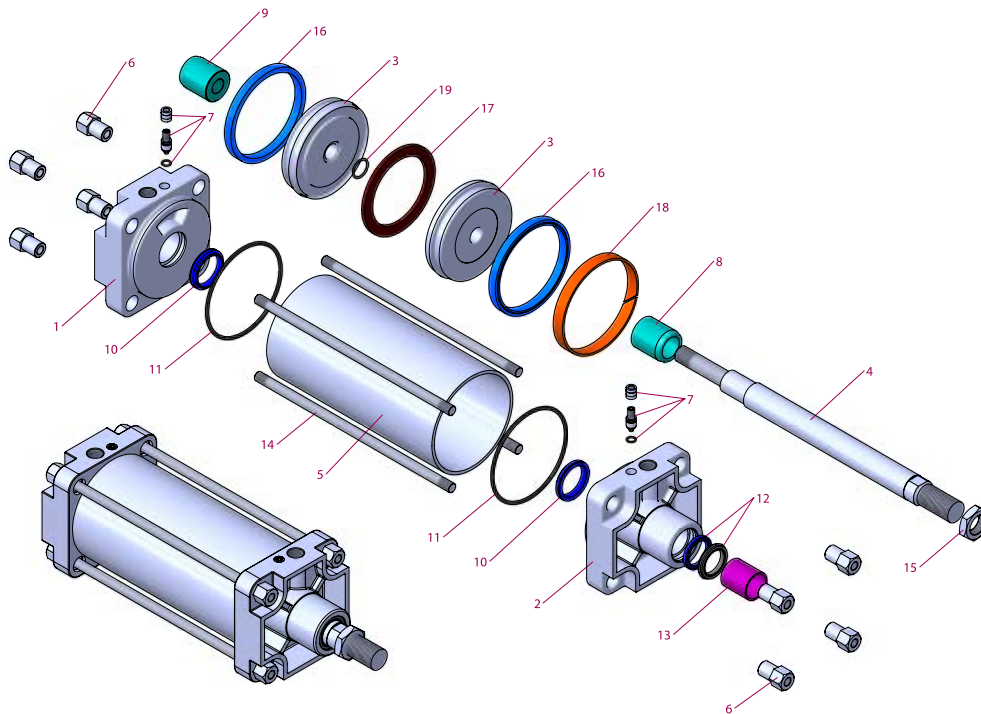
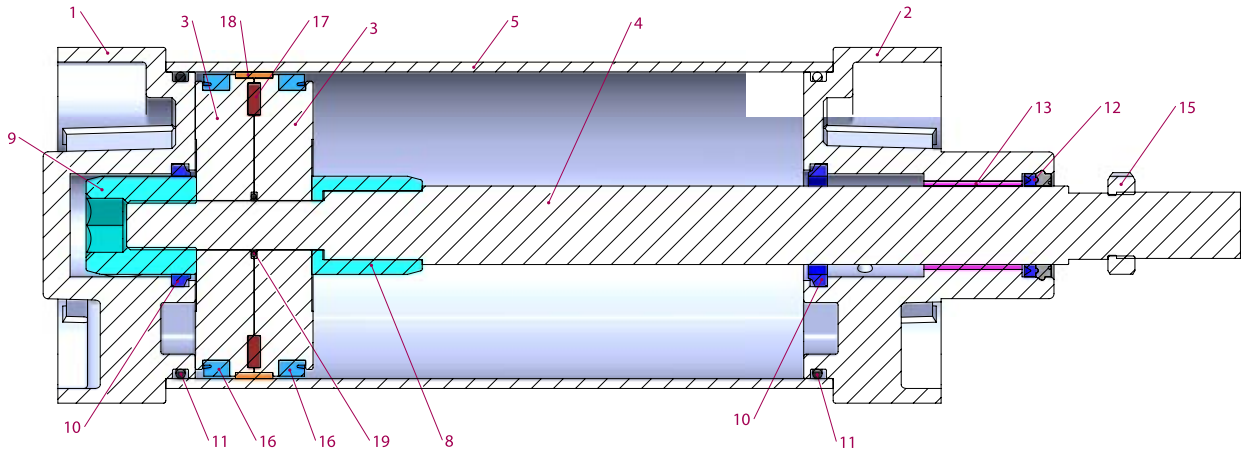
Viton (FKM) : (-30°C) - (+150°C)

**Max. Work Pressure:**

10 Bar

**Force:**

Cylinder Ø mm	Rod Ø mm	Thrust and traction forces(6 Bar)	
		ThrustForce (N)	Traction Force (N)
125	32	7360	6880
160	40	12064	11310
200	40	18850	18096
250	50	29450	28270
320	63	48250	46380

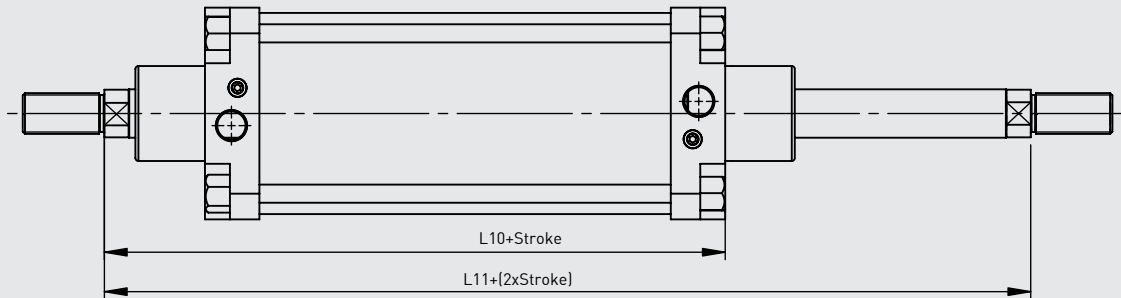
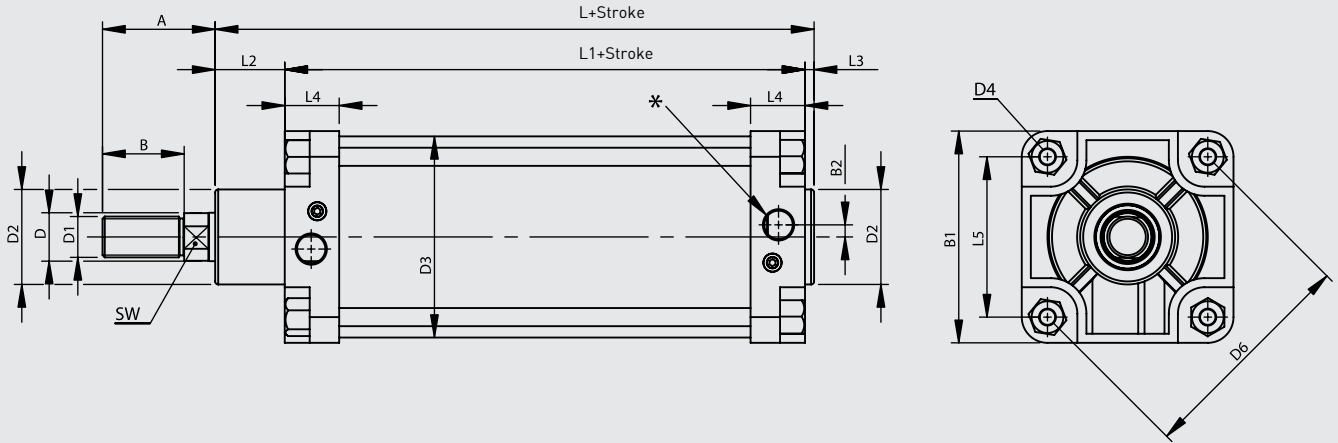


No	MATERIAL NAME	CHARACTERISTIC	PC.
1	Rear Head	Aluminium	1
2	Front Head	Aluminium	1
3	Middle Piston	Aluminium	2
4	Piston Rod	X20 Cr13 Hard Chrome Plated	1
5	Tube	Al Mg Si 0,5 + Eloxal Plated	1
6	T-Nut	Galvanized Steel	8
7	Cushioning Screw	Brass+AISI 303 NBR	2
8	Cushioning Tube	Aluminium	1
9	Cushioning Fem. Thread	Aluminium	1
10	Cushioning Seal	PU	2
11	Head O-ring	NBR	2

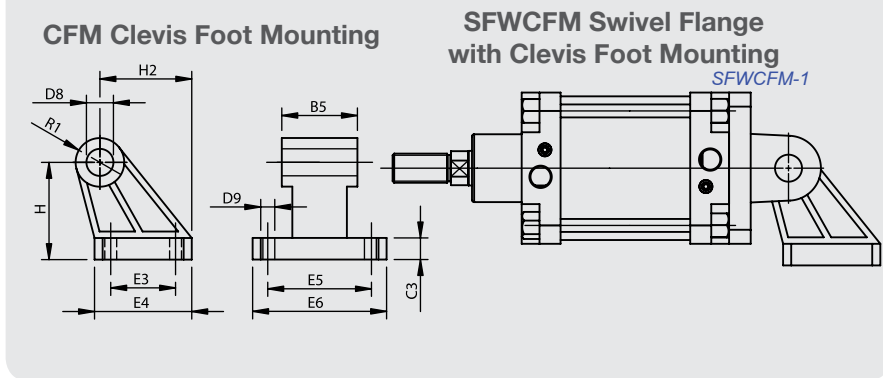
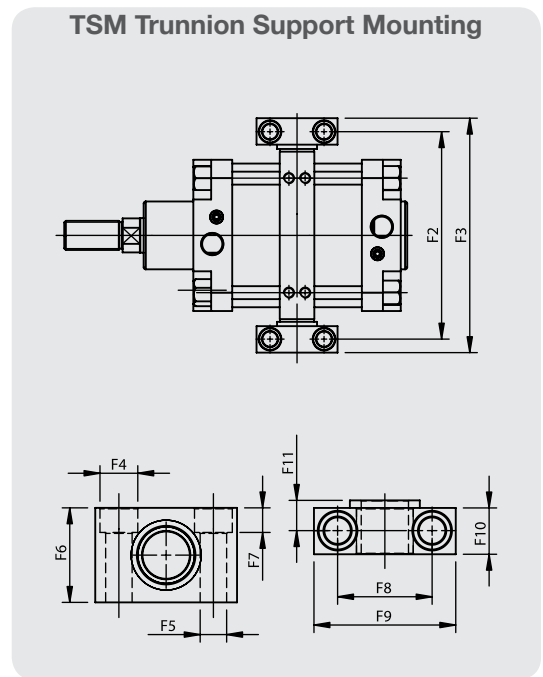
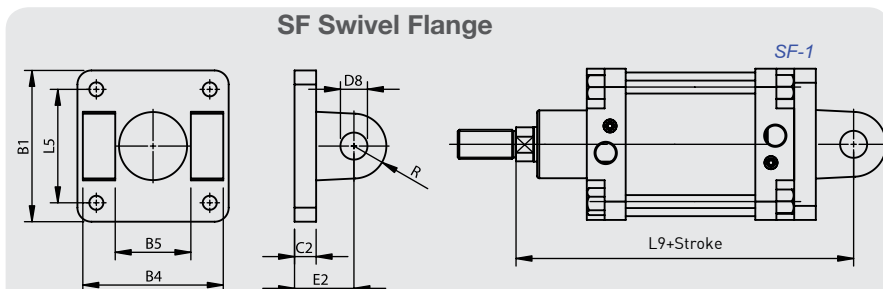
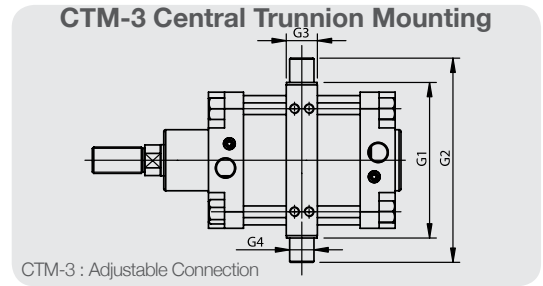
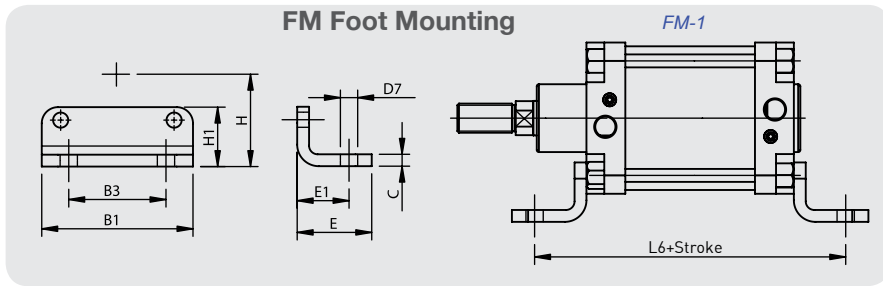
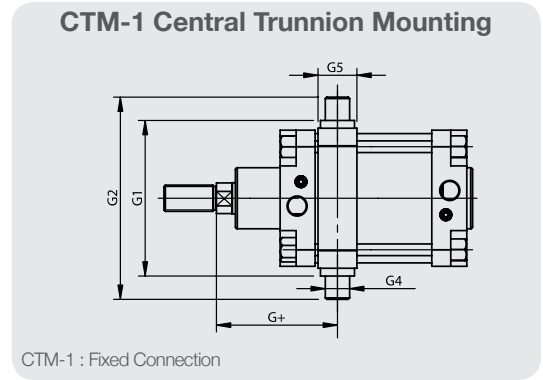
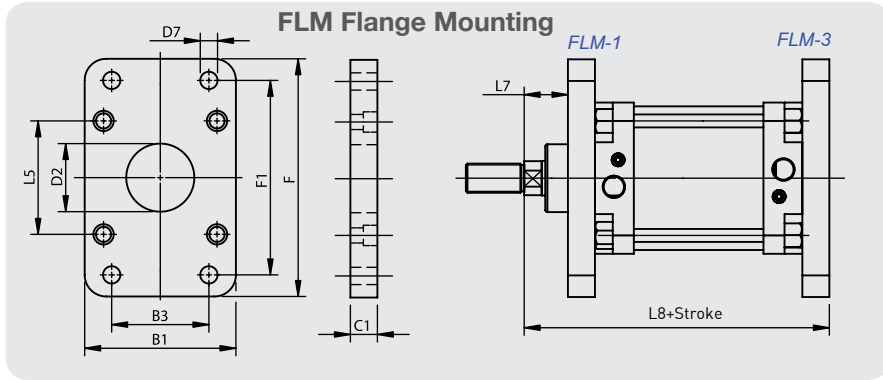
No	MATERIAL NAME	CHARACTERISTIC	PC.
12	Rod Seal	HYTREL + PU	1
13	Guiding Bush	CSB-40	1
14	Tie-Rod	Galvanized Steel	4
15	Nut	Galvanized Steel	1
16	Piston Seal	PU	2
17	Magnet		1
18	Guiding Band	Polyacetal	1
19	Middle Piston O-ring	NBR	1

**Note:**

The Parts (Nr. 7,8,9,10) don't exist in the Models Without Cushioning. Fibre Nut and Washer exist instead of the Part Nr. 9



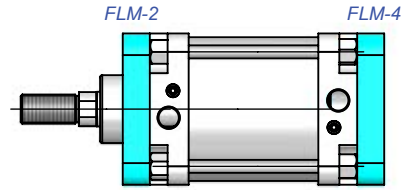
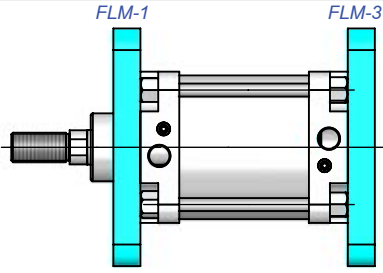
Cylinder Ø mm	A	B	B1	B2	D Ø	D1	D2 Ø	D3 Ø	D4	D6 Ø	L	L1	L2	L3	L4	L5	L10	L11	SW	*
125	73	54	145	11.5	32	M27x2	60	133	M12	155.5	213	160	46	6	44	110	225	290	27	G1/2"
160	97	72	186	13.5	40	M36x2	65	170	M16	198	243	180	55	6	47	140	260	340	36	G3/4"
200	102	72	220	13.5	40	M36x2	75	210	M16	247.5	253	180	65	6	47	175	275	370	36	G3/4"
250	122	84	270	14	50	M42x2	90	262	M20	311.1	281	200	69	10	51	220	305	410	46	G1"
320	134	96	340	20	63	M48x2	110	336	M24	381.8	314	220	82	10	56	270	340	460	55	G1"



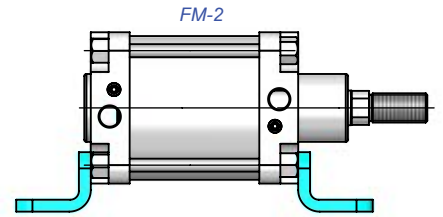
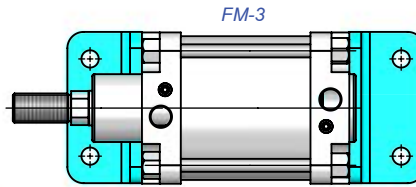
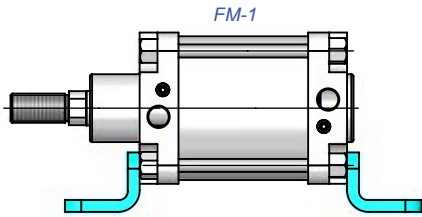
Cylinder Ø mm	B1	B3	B4	B5	C	C1	C2	C3	D2 Ø	D7 Ø	D8 Ø	D9 Ø	E	E1	E2	E3	E4	E5	E6	F	F1	F2	F3	F4 Ø
		JS14	h14	H14					H11	H13	H9	H13				JS14		JS14		JS14			H13	
125	145	90	130	70	8	20	20	20	60	16	25	14	67	45	50	60	90	94	124	220	180	192	217	20
160	186	115	170	90	9	20	20	25	65	18	30	14	87	60	55	88	126	118	156	280	230	245	280	26
200	220	135	170	90	12	25	25	30	75	22	30	18	95	70	60	90	130	122	162	320	270	295	330	26
250	270	165	200	110	20	25	25	35	90	26	40	22	105	75	70	110	160	150	200	390	330	375	420	33
320	340	200	220	120	23	30	30	40	110	33	45	26	125	85	80	122	186	170	234	470	400	465	520	40

Cylinder Ø mm	F5 Ø	F6	F7	F8	F9	F10	F11	G1	G2	G3	G4 Ø	G5	G+	H	H1	H2	L5	L6	L7	L8	L9	R	R1
	H13			±0,3				h14			e9			JS16									
125	14	50	13	50	75	24.5	16	160	210	32	25	38	128	90	55	85	110	250	45	245	275	30	22.5
160	18	60	17	60	92	36	22.5	200	264	40	32	48	151	115	70	116	140	300	60	280	315	32	31.5
200	18	60	17	60	92	36	22.5	250	314	40	32	48	166	135	80	125	175	320	70	300	335	35	31.5
250	22	70	21.5	90	140	45	27.5	320	400	50	40	60	189	165	100	153	220	350	80	330	375	45	40
320	26	80	25.5	100	150	55	32.5	400	500	60	50	65	210	200	120	182	270	390	90	370	420	54	45

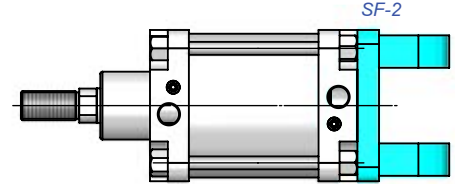
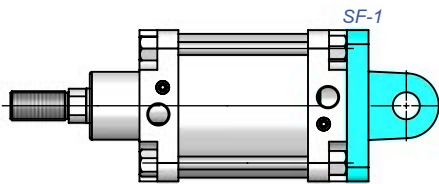
### FLM Flange Mounting



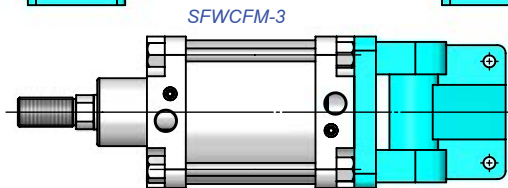
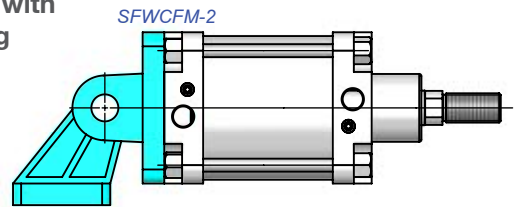
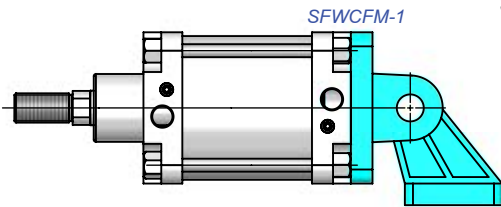
### FM Foot Mounting



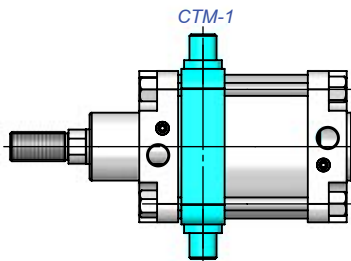
### SF Swivel Flange



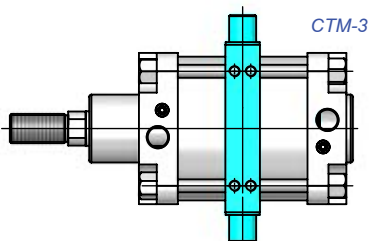
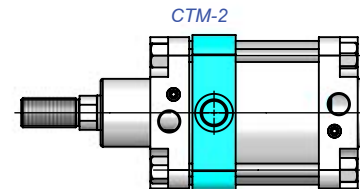
### SFWCFM Swivel Flange with Clevis Foot Mounting



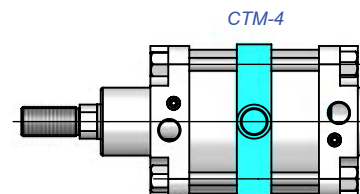
### CTM Central Trunnion Mounting

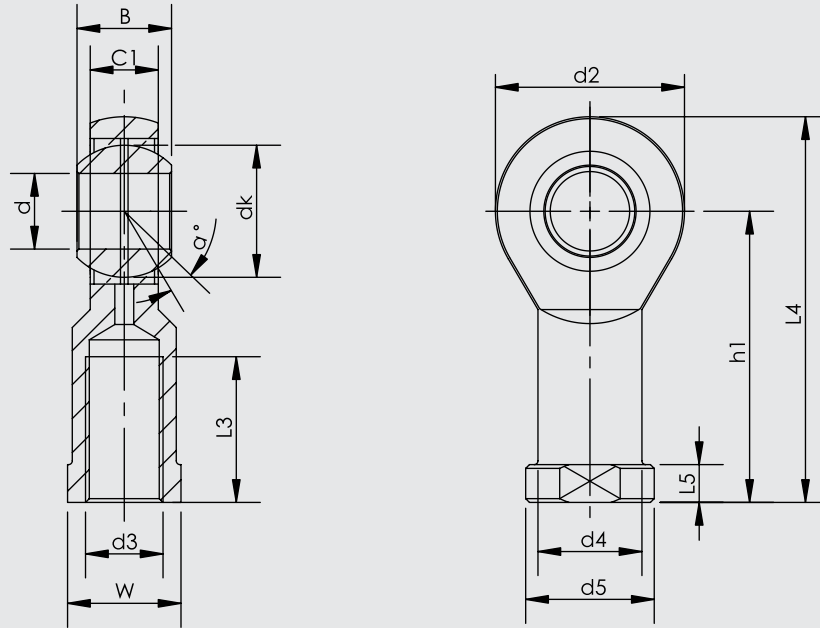


CTM-1-2 Fixed Connection

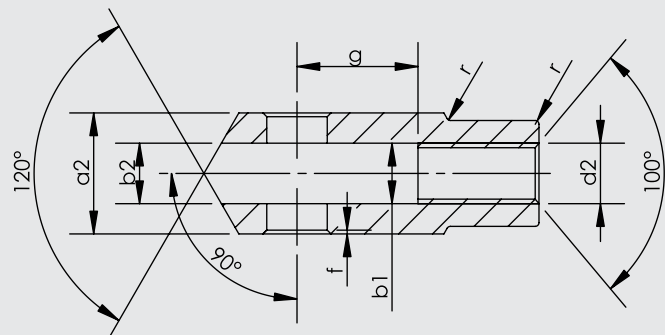
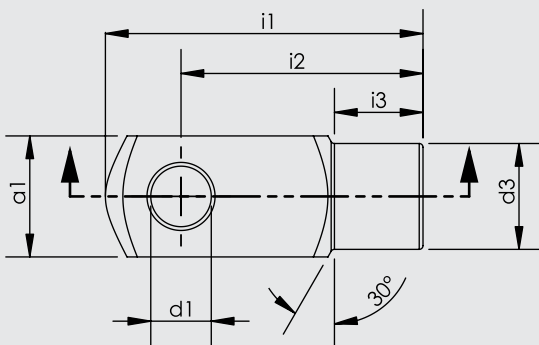


CTM-3-4 Adjustable Connection



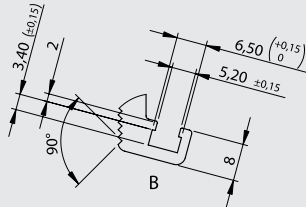
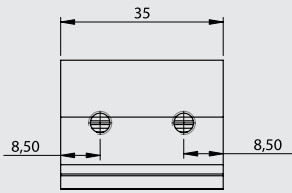
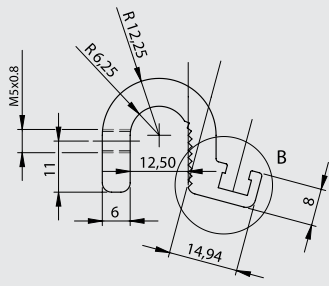


Part No.	Dimensions (mm)													
	d	d3 6H	B	C1	W	L3 min	d2	L4	h1	L5	d4	d5	dk	a°
KMB 28	28	M27x2.0	35	24	41	48	66	136	103	14	37	46	47.6	15
KMB 30-1	30	M27x2.0	37	25	41	51	70	145	110	15	40	50	50.8	17
KMB 30	30	M30x2.0	37	25	41	51	70	145	110	15	40	50	50.8	17
KMB 35	35	M36x2.0	43	28	50	56	81	165.5	125	17	46	58	57.1	16
KMB 35 UK	35	M36x3.0	25	21	50	60	82	166	125	15	47	58	47	6
KMB 40 UK	40	M39x3.0	28	23	55	65	92	188	142	18	52	65	53	7
KMB 40	40	M42x2.0	49	33	55	60	91	187.5	142	19	53	65	66.6	17
KMB 50 UK	50	M45x3.0	35	30	65	68	112	216	160	20	62	75	66	6
KMB 50	50	M48x2.0	60	45	65	65	117	218.5	160	23	65	75	82.5	12

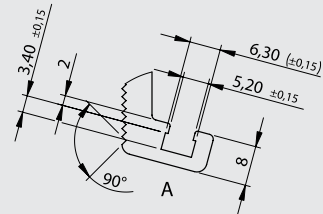
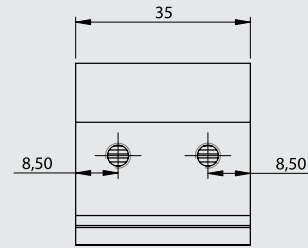
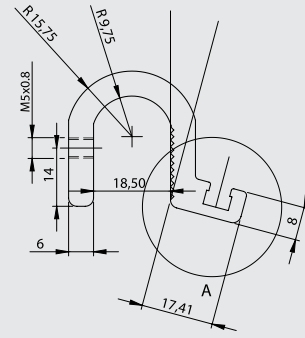


Cylinder Ø mm	d1 H9	g ±0,5	a1 h 11	a2 +0,3 -0,16	b1 B 13	b2	d2 6H	d3 ±0,3	f ±0,2	i1 ±0,5	i2	i3 ±0,2	r
125	25	50	50	50	25	25	M27x2	42	1.5	132	100	36	1.5
160	35	72	70	70	35	35	M36x2	60	2	188	144	41	2
200	35	72	70	70	35	35	M36x2	60	2	188	144	41	2
250	40	96	80	80	40	40	M42x2	70	3	220	168	43	3
320	50	111	90	90	50	50	M48x2	80	3	250	192	44	3

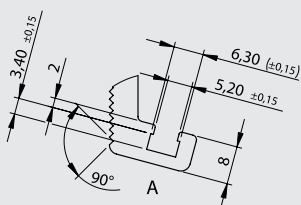
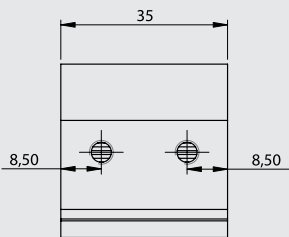
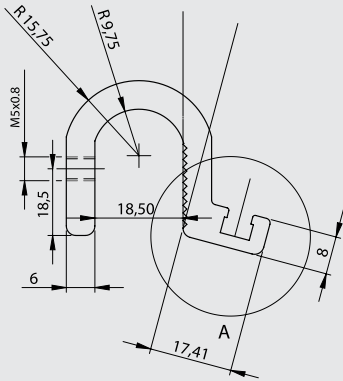
PMB Ø 125



PMB Ø 160



PMB Ø 200



PMB Ø 250 - Ø 320

