SPECIAL CYLINDERS
PTR SERIES

Pemaks®
Pneumatics
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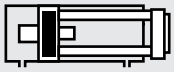
PTR SERIES
Ø32 - Ø100

TWIN RODS CYLINDERS



PTR-M: DOUBLE ACTING CYLINDER WITH CUSHIONING AND MAGNETIC

Example of order:

PTR-M — Product Code

050-0100 — Cylinder Ø Stroke

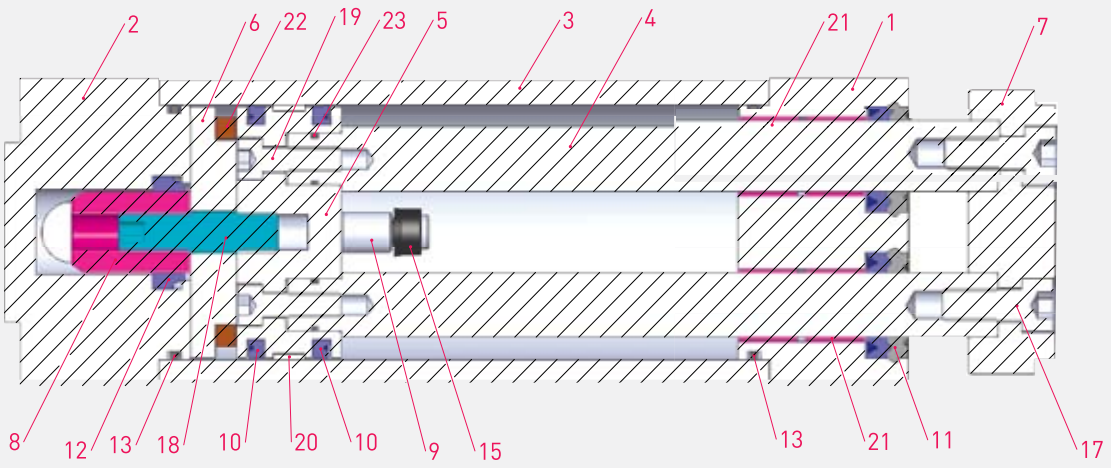
Force:

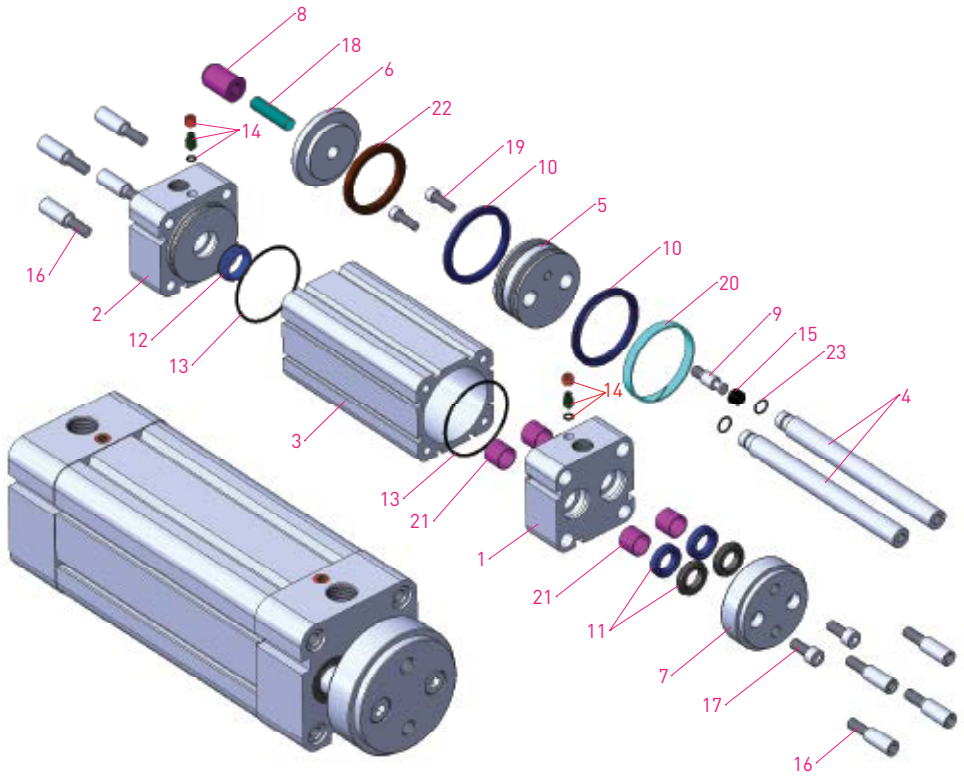
Cylinder Ø mm	Rod ⌀ mm	Thrust and traction forces (6 Bar)	
		Thrust Force (N)	Traction Force (N)
32	8	482	422
40	10	754	660
50	12	1178	1042
63	16	1870	1628
80	20	3016	2638
100	20	4712	4333

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

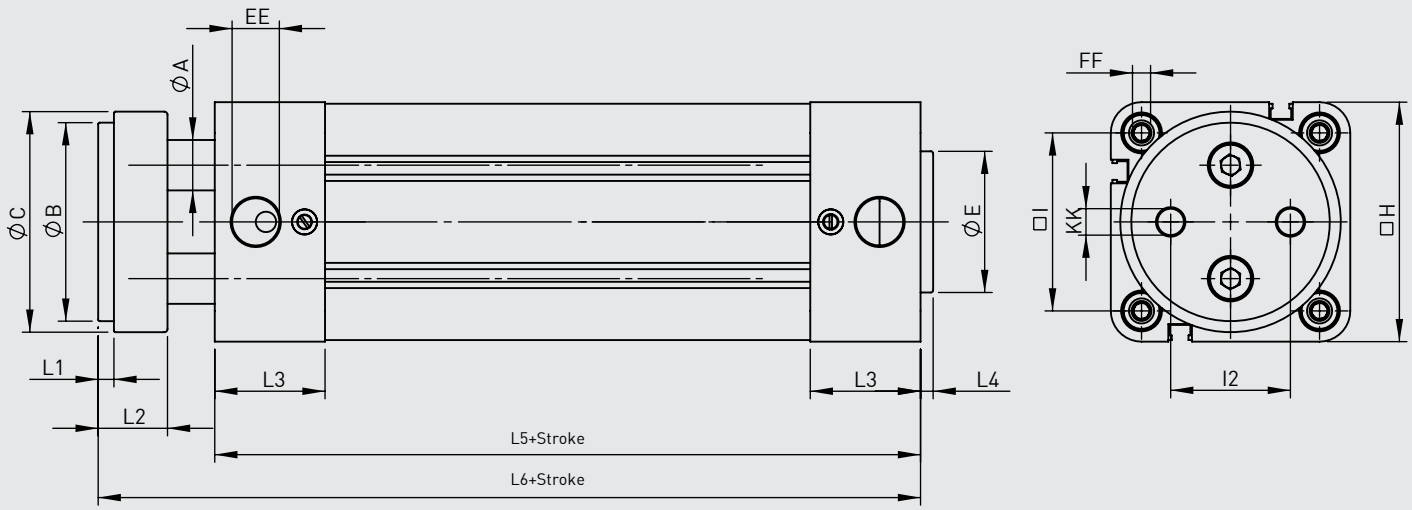




No	MATERIAL NAME	CHARACTERISTIC	PC.
1	Front Head	Aluminium + Eloxal Plated	1
2	Rear Head	Aluminium + Eloxal Plated	1
3	Tube	Al. Mg Si 0,5 + Eloxal Plated	1
4	Piston Rod	X20Cr13 Hard Chrome Plated	2
5	Middle Piston	6082 Aluminium	1
6	Magnet Guiding	6082 Aluminium	1
7	Rod and Guiding	Steel + Zinc Plated	1
8	Cushioning Thread	Brass	1
9	Cushioning Pin	Steel + Zinc Plated	1
10	Piston Seal	PU	2
11	Rod Seal	PU	2
12	Cushioning Seal	PU	1

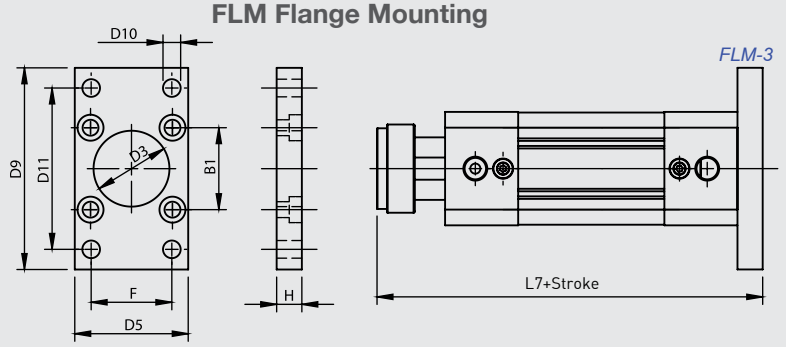
No	MATERIAL NAME	CHARACTERISTIC	PC.
13	Head O-Ring	NBR 70	2
14	Yastıklama vidası	6082 Al.+Eloxal+AISI 303 NBR 70	2
15	Cushioning Pin Seal	NBR 75	1
16	Head Bolt	Zinc Plated Steel	8
17	Rod and Guiding Bolt		2
18	Screw		1
19	Middle Piston Bolt		2
20	Guiding Band		1
21	Guiding Bush	CSB-40	4
22	Magnet		1
23	Rod O-Ring	NBR 70	2

PTR
Ø32 - Ø100

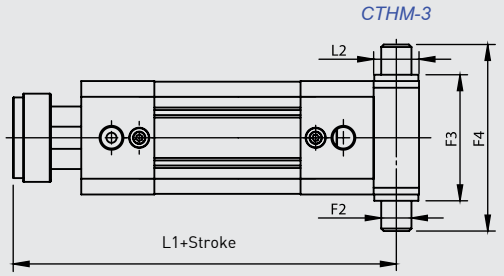


Cylinder Ø mm	ØA	ØB	ØC	L1	L2	L3	L4	L5	L6	I	I2	EE	FF	KK	H	ØE
32	8	32	35	4	15	29	4	100	127	32,5	19	1/8	M6	M6	45	30
40	10	40	45	4	16	33	4	114	143	38	23	1/4	M6	M8	54	35
50	12	50	55	5	18	34	4	116	150	46,5	30	1/4	M8	M8	65	40
63	16	63	70	5	22	35	4	124	161	56,5	38	3/8	M8	M10	76	45
80	20	80	95	6	24	35	4	134	174	72	50	3/8	M10	M12	94	45
100	20	100	115	6	24	37	4	140	180	89	70	3/8	M10	M12	112	55

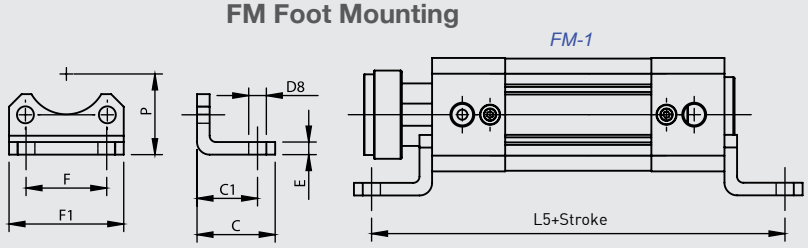
FLM Flange Mounting



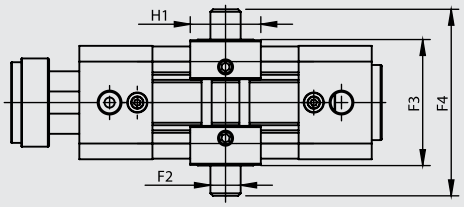
CTHM Central Trunnion Head Mounting



FM Foot Mounting

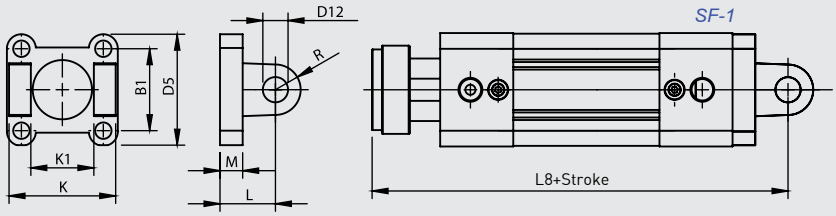


CTM-3 Central Trunnion Mounting

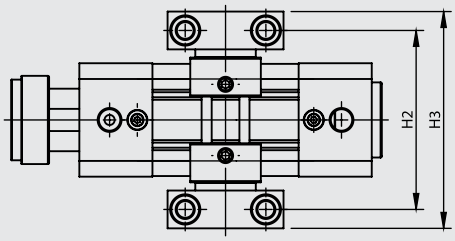


CTM-3 : Adjustable Connection

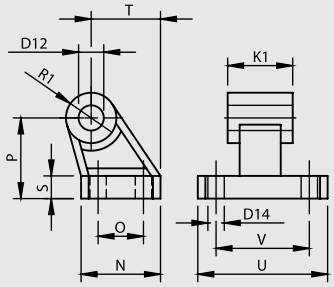
SF Swivel Flange



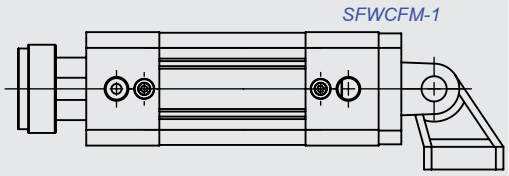
TSM Trunnion Support Mounting

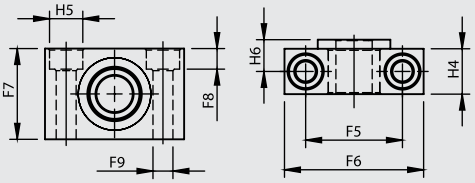


CFM Clevis Foot Mounting



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 JS14	F1	F2 Ø e9	F3 h14	F4	F5 ±0,2	F6	F7	F8	F9 Ø H13
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
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
50	46.5	41	32	40	65	10	110	9	90	12	9	6	45	65	16	75	107	36	55	36	9	9
63	56.5	44	32	45	76	10	120	9	100	16	9	6	50	76	20	90	130	42	65	40	11	11
80	72	56	41	45	94	12	150	12	126	16	11	6	63	94	20	110	150	42	65	40	11	11
100	89	58	41	55	112	14	175	14	150	20	11	6	75	112	25	132	182	50	75	50	13	14

Cylinder Ø mm	H	H1 -0,2	H2	H3	H4	H5 Ø H13	H6	K h14	K1 H14	L	L1	L2	L5	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	136	18	148	137	149	9	31	18	32	10	10	8	27.5	51	38
40	10	28	87	105	18	15	12	52	28	25	153	20	170	153	168	9	35	22	36	12	11	10	30.5	54	41
50	12	34	99	117	18	15	12	60	32	27	164	28	180	162	177	11	45	30	45	13	13	12	40.5	65	50
63	12	34	116	136	20	18	13	70	40	32	174.5	27	188	173	193	11	50	35	50	16	15	12	44.5	67	52
80	16	34	136	156	20	18	13	90	50	36	191	34	216	190	210	14	60	40	63	16	15	14	57	86	66
100	16	44	164	189	24.5	20	16	110	60	41	199.3	38.5	222	196	221	14	70	50	71	20	19	15	65	96	76

SPECIAL CYLINDERS
H-GUIDING
PNEUMATIC CYLINDERS

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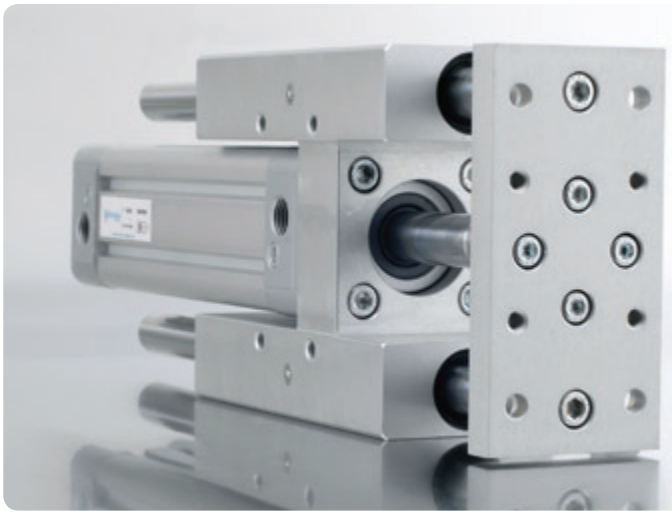


H-GUIDING UNITS

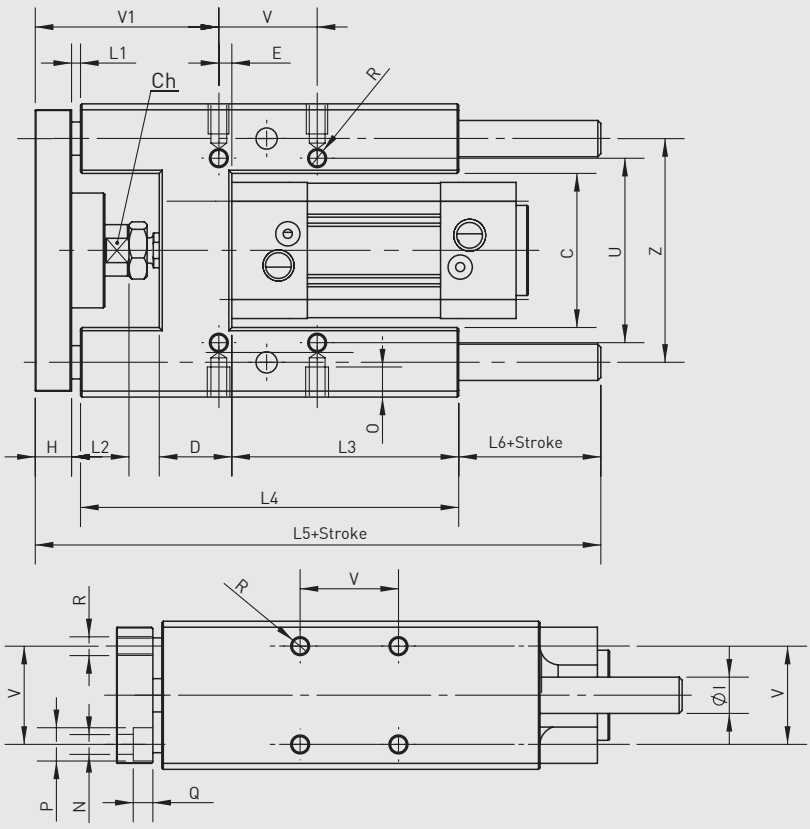
Ø32 - Ø100

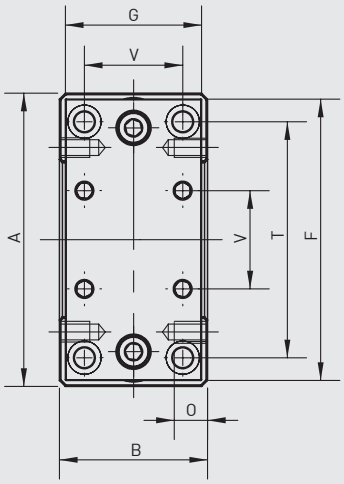
BALL BEARING GUIDING

GUARANTEE OF HIGH PERFORMANCE FOR HIGH SPEED SYSTEMS.

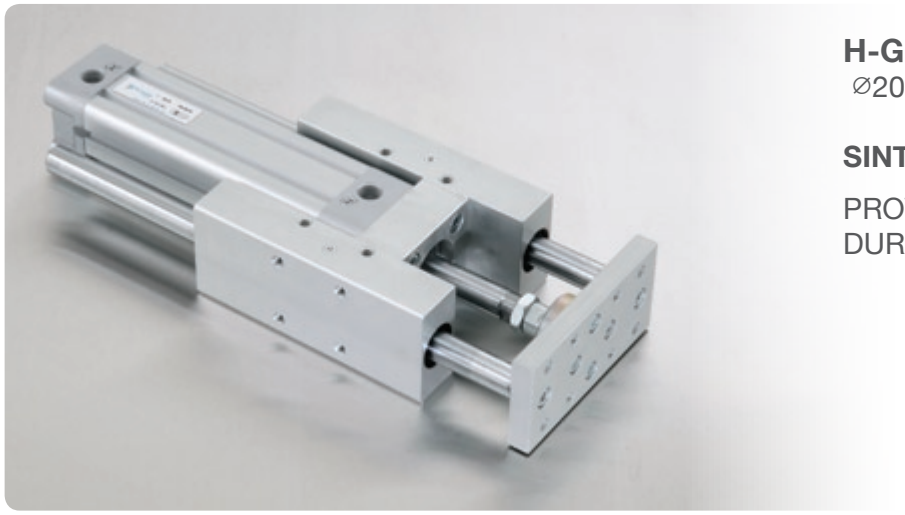
SINTER BRONZE GUIDING

PROVIDING THE HIGHEST DURABILITY FOR LATERAL FORCES.





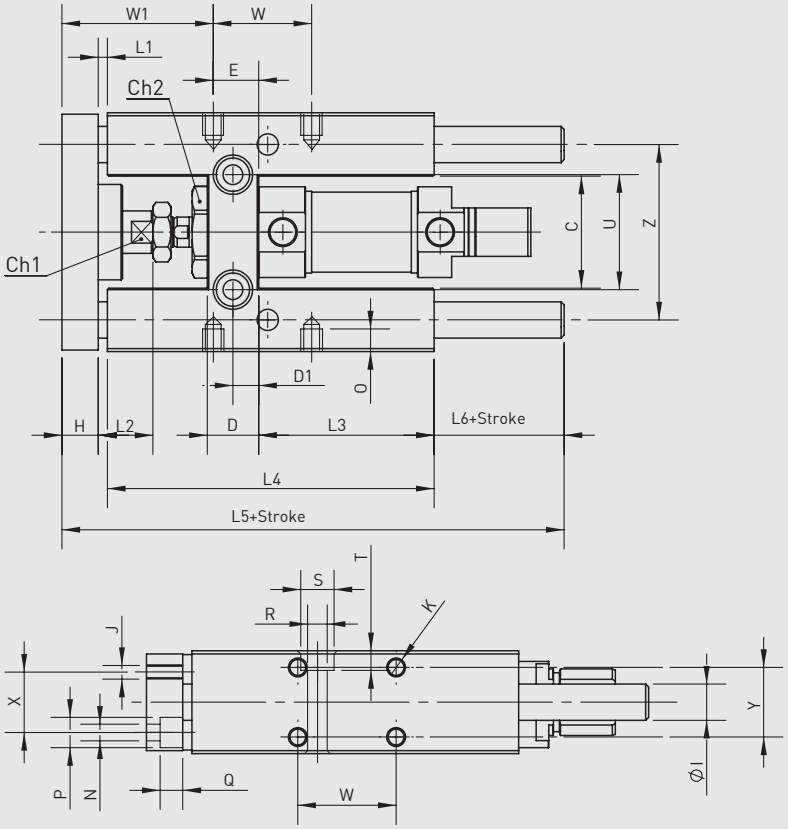
Cylinder Ø mm	A	B	C	Ch	D	E	F	G	H	ØI	L1	L2	L3	L4	L5	L6	N	O	P	Q	R	T	U	V	V1	Z
32	97	49	51	15	24	4.3	93	45	12	12	3	19	75	125	187	47	6.6	12	11	6.5	M6	78	61	32.5	60.7	74
40	115	58	58.2	15	28	11	112	55	12	16	3	24	80	140	207	52	6.6	12	11	6.5	M6	84	69	38	64	87
50	137	70	70.2	20	34	18.8	134	65	15	20	3	27	78	148	223	57	9	16	15	8.5	M8	100	85	46.5	70	104
63	152	85	85.2	20	34	15.3	147	80	15	20	3	27	106	178	243	47	9	16	15	9	M8	105	100	56.5	74.7	119
80	189	105	105.5	26	50	25	180	100	20	25	3	27	111	195	267	49	11	20	18	11	M10	130	130	72	82	148
100	213	130	130.5	26	55	30	206	120	20	25	3	27	128	218	290	49	11	20	18	11	M10	150	150	89	83	173

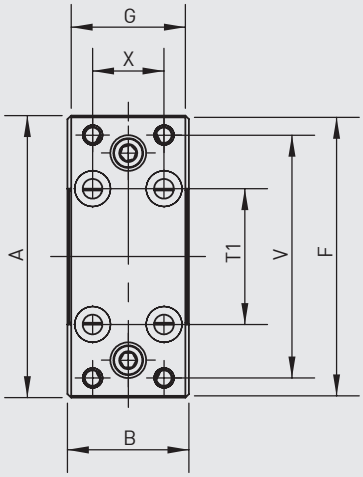


H-GUIDING UNITS
∅20 - ∅25

SINTER BRONZE GUIDING

PROVIDING THE HIGHEST
DURABILITY FOR LATERAL FORCES





Cylinder Ø mm	A	B	C	Ch1	Ch2	D	D1	E	F	G	H	ØI	J	K	L1	L2	L3
20-25	79	34	37	12	27	17	8,5	15	78	32	12	12	M5	M6	3	18	58

Cylinder Ø mm	L4	L5	L6	N	O	P	Q	R	S	T	T1	U	V	W	W1	X	Y	Z
20-25	108	166	43	5,5	9	10	7,5	6,5	11	6,5	38	38	68	32,5	50	20	23	58

SPECIAL CYLINDERS
PMS SERIES MINI PNEUMATIC CYLINDERS

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PMS SERIES
Ø16 - Ø25

MINI CYLINDER

POSSIBLE FOR REPAIR AND CHANGING SEALS, BECAUSE OF SCREWED COVERS

420 SS 420 PISTON ROD

ELOXAL PLATED COVER

PMS: DOUBLE ACTING CYLINDER

PMS-D: DOUBLE ACTING CYLINDER WITH DOUBLE ROD

Example of order:

PMS-D	25-0100	R1 K4
Product Code	Cylinder Ø Stroke	Variants from Standard System

VARIANTS FROM STANDARD SYSTEM:

R1: Stainless Steel Piston Rod (SS 304-SS 316)
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
E2: Stainless Steel Cylinder Covers (SS 304-SS316)
K1: Seals for Max. 150ºC (Viton)
K3: Seals NBR
K4: Piston Rod Seal Viton

Force:

Cylinder Ø mm	Rod ⌀ mm	Thrust and traction forces (6 Bar)	
		Thrust Force(N)	Traction Force (N)
16	8	105	88
20	8	165	141
25	10	266	219

Working Fluid :

Filtered and lubricated air

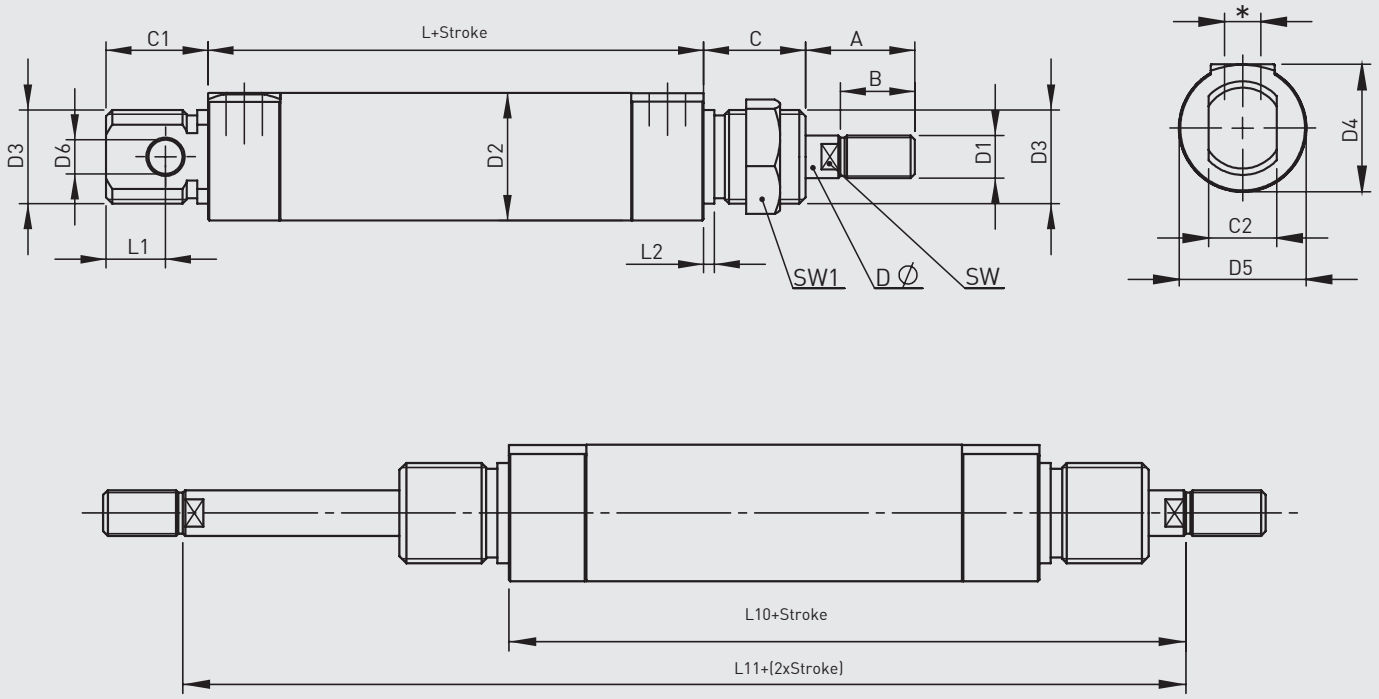
Operating Temperature Range:

NBR : (-30°C) - (+105°C)
Viton (FKM) : (-30°C) - (+180°C)

Max. Work Pressure:

10 Bar

PMS
Ø16 - Ø25



Cylinder Ø mm	A	B	C	C1	C2	D Ø	D1	D2 Ø	D3	D4	D5	D6 Ø	L	L1	L2	L10	L11	SW	SW1	*
16	25	15	22	18	12	8	M8	20	M20x1.5	27	27	6	74	7	2	106	138	7	27	G1/8''
20	25	15	22	22	12	8	M8	25	M20x1.5	27	27	6	72	10	2	104	136	7	27	G1/8''
25	24	18	24	24	16	10	M10	30	M22x1.5	30	27	8	67	14	2	97	127	9	27	G1/8''