

ISO 6432  
PNEUMATIC CYLINDERS  
PM-A SERIES Ø8 - Ø25





**PM-A SERIES**  
ISO 6432 - Ø8 - Ø25

DOUBLE ACTING CYLINDER  
WITH MAGNET

WITH STAINLESS STEEL ROD AND  
TUBE, HIGHER WORKING SPEED



**PM-A: DOUBLE ACTING MAGNETIC**

**Example of order:**

<u>PM-A</u>	<u>25-050</u>	<u>SF RC</u>	<u>K1</u>
Product Code	Cylinder Ø Stroke	Cylinder Mountings	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. 150°C (Viton)
- K3: Seals NBR
- K4: Piston Rod Seal Viton

**Force:**

Cylinder Ø mm	Rod Ø mm	Thrust and traction forces (6 Bar)	
		Thrust Force (N)	Traction Force (N)
8	4	24	15
10	4	41	32
12	6	55	38
16	6	105	88
20	8	165	141
25	10	266	219

**Working Fluid:**

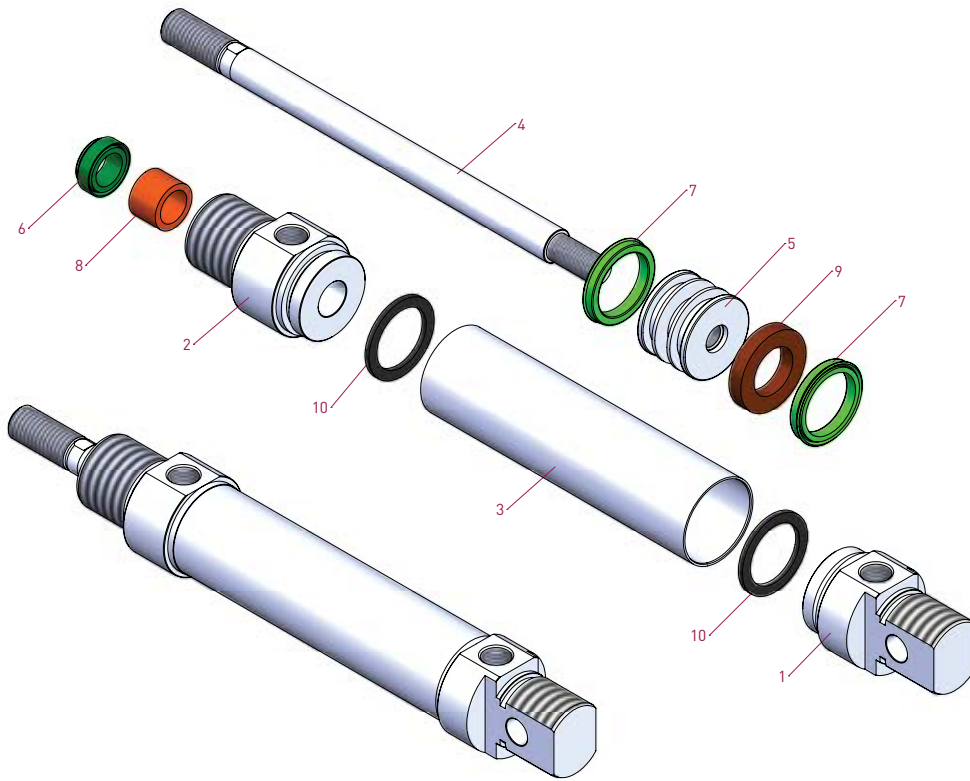
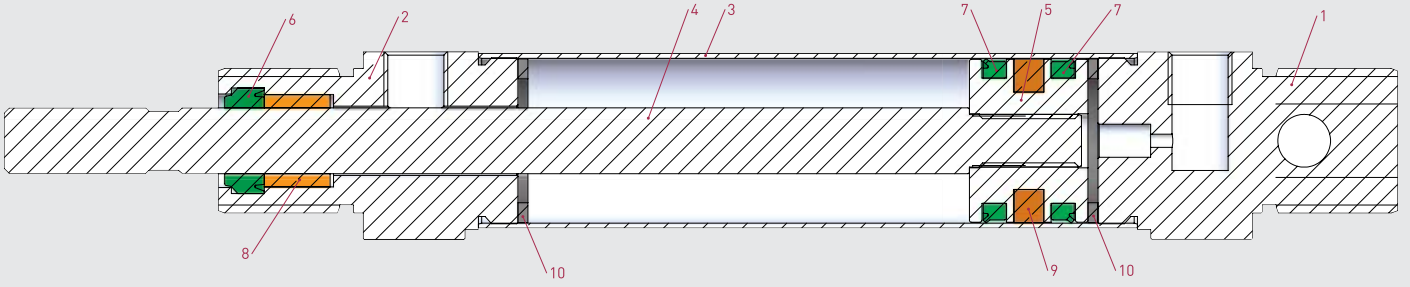
Filtered and lubricated or filtered and not lubricated air

**Operating Temperature Range:**

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

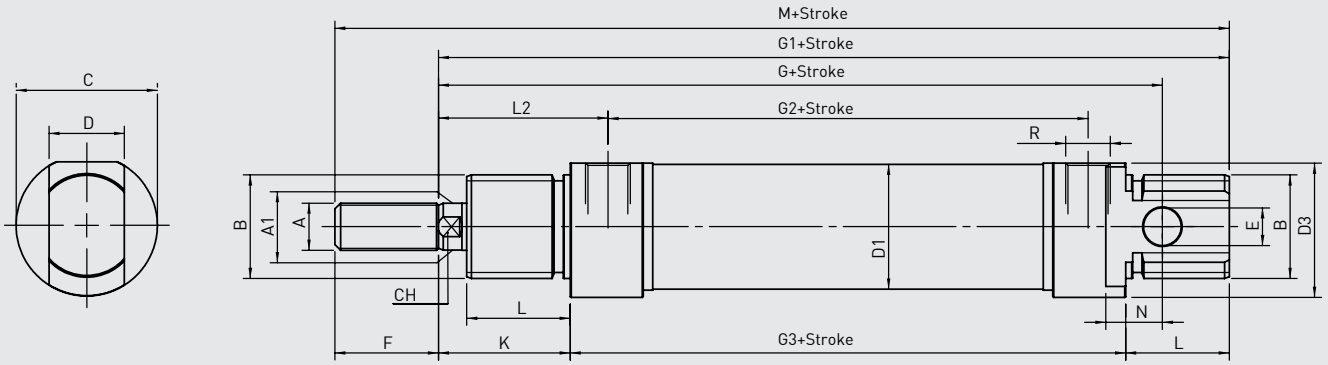
**Max. Work Pressure:**

10 Bar



No	MATERIAL NAME	CHARACTERISTIC	PC.
1	Rear Head	Aluminium	1
2	Front Head	Aluminium	1
3	Tube	SS 304	1
4	Piston Rod	SS 303	1
5	Middle Piston	Brass	1

No	MATERIAL NAME	CHARACTERISTIC	PC.
6	Rod Seal	PU	1
7	Piston Seal	PU	2
8	Guidind Bush	Sinterized Bronze	1
9	Magnet		1
10	Buffer	NBR	2



**PM-A SERIES**  
ISO 6432 - Ø8 - Ø25

Cylinder Ø mm	A	A1	B	C	D	D1	D3	E	F	G	G1	G2	G3	K	L	L2	N	CH	R	M
8	M4	4	M12x1.25	16	8	9,27	15	4	12	64	74	36	46	16	12	21	6	/	M5	86
10	M4	4	M12x1.25	16	8	11,27	15	4	12	64	74	36	46	16	12	21	6	/	M5	86
12	M6	6	M16x1.5	19	12	13,27	18	6	16	75	88	38	48	22	18	27	9	5	M5	104
16	M6	6	M16x1.5	19	12	17,27	18	6	16	82	93	44	53	22	18	27	9	5	M5	109
20	M8	8	M22x1.5	27	16	21,27	25,5	8	20	95	111	51,5	67	24	20	32	12	7	1/8" G	131
25	M10x1.25	10	M22x1.5	30	16	26,5	28,5	8	22	104	118	52	68	28	22	36	12	9	1/8" G	140

ISO 6432  
PNEUMATIC CYLINDERS  
PMY-A SERIES Ø16 - Ø25



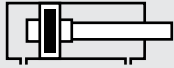


## PMY-A SERIES

ISO 6432 - Ø16 - Ø25

DOUBLE ACTING CYLINDER WITH  
MAGNET AND CUSHIONING

WITH STAINLESS STEEL ROD AND  
TUBE, HIGHER WORKING SPEED



**PMY-A:** DOUBLE ACTING CUSHIONING  
MAGNETIC

### Example of order:

PMY-A  
Product Code

25-050  
Cylinder Ø  
Stroke

SF-RE  
Cylinder  
Mountings

R1 K4  
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. 150°C (Viton)
- K3: Seals NBR
- K4: Piston Rod Seal Viton

### Force:

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

### Working Fluid:

Filtered and lubricated or filtered and not lubricated air

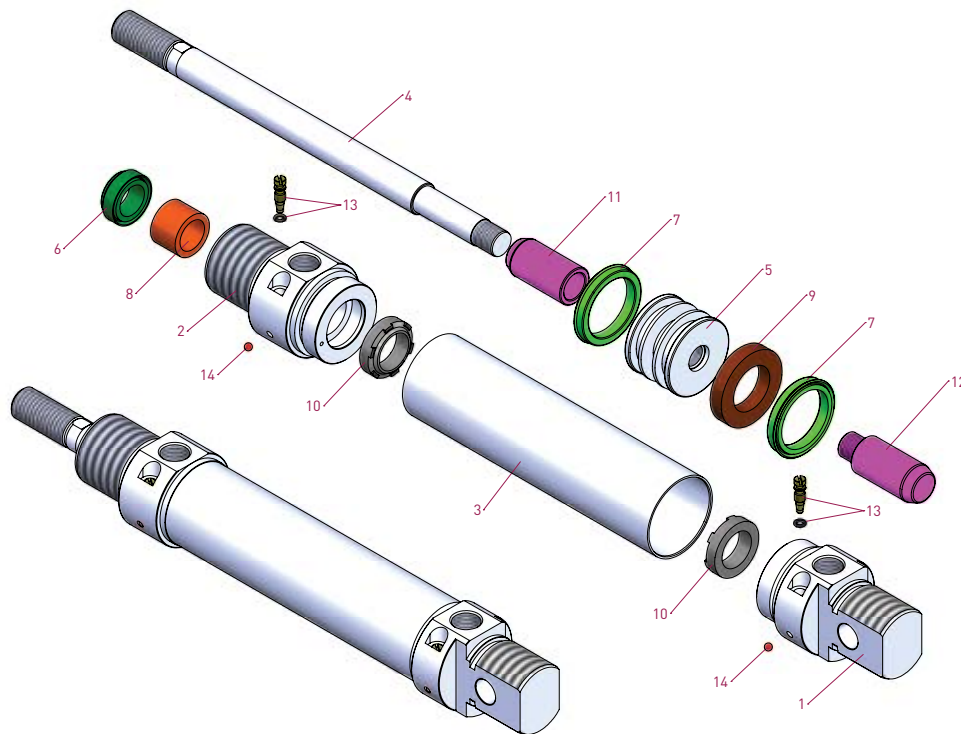
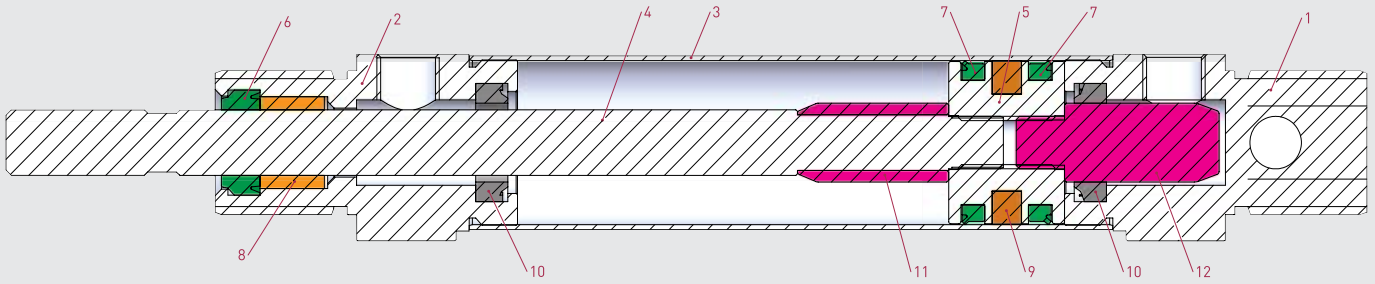
### Operating Temperature Range:

Polyurethane (PU) : (-20°C) - (+80°C)

Viton (FKM) : (-30°C) - (+150°C)

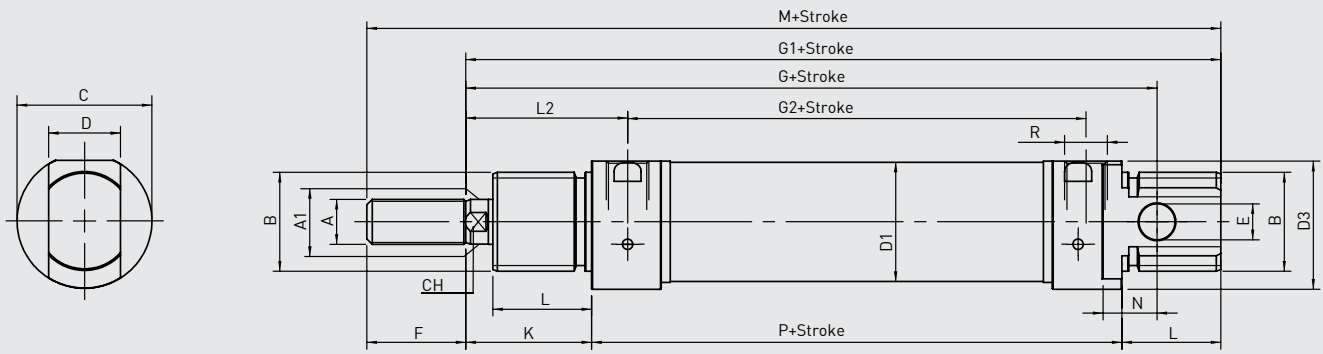
### Max. Work Pressure:

10 Bar



No	MATERIAL NAME	CHARACTERISTIC	PC.
1	Rear Head	Aluminium	1
2	Front Head	Aluminium	1
3	Tube	SS 304	1
4	Piston Rod	SS 303	1
5	Middle Piston	Brass	1
6	Rod Seal	PU	1
7	Piston Seal	PU	2

No	MATERIAL NAME	CHARACTERISTIC	PC.
8	Guidind Bush	Sinterized Bronze	1
9	Magnet		1
10	Cushioning Seal	NBR	2
11	Cushioning Tube	Aluminium	1
12	Cushioning Thread	Aluminium	1
13	Cushioning Screw	Aluminium	2
14	Marble		2

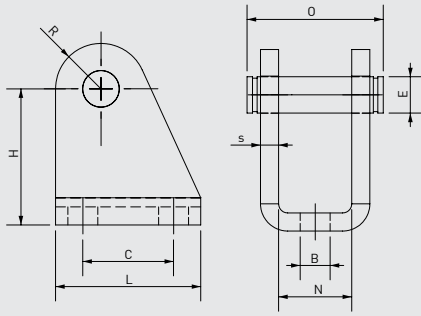


**PMY-A SERIES**  
ISO 6432 - Ø16 - Ø25

Cylinder Ø mm	A	A1	B	C	D	D1	D3	E	F	G	G1	G2	K	L	L2	N	CH	R	P	M
16	M6	6	M16x1.5	21	12	17,27	18	6	16	82	93	43	22	17	26	9	5	M5	53	109
20	M8	8	M22x1.5	27	16	21,27	25,5	8	20	95	111	51,5	24	20	32	12	7	1/8" G	67	131
25	M10x1.25	10	M22x1.5	30	16	26,5	28,5	8	22	104	118	52	28	22	36	12	9	1/8" G	68	140

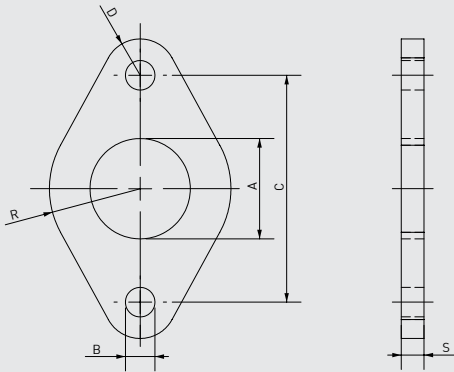


### SF SWIVEL FLANGE



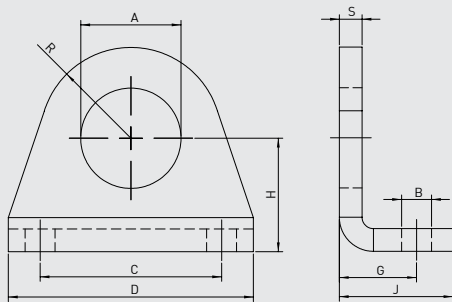
Cylinder Ø mm	B H13	E f8	C JS13	H ±0.2	L	N E9	O	R max	S ±0.2
8-10	4,5	4	12,5	24	20	8,1	17	5	2,5
12-16	5,5	6	15	27	25	12,1	23	7	3
20-25	6,6	8	20	30	32	16,1	29,5	10	4

### FM FLANGE MOUNTING



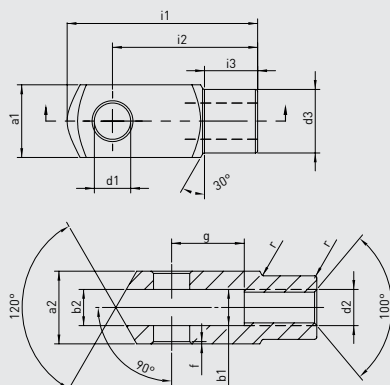
Cylinder Ø mm	A +0.3 +0.1	B H13	C JS13	R ±0.2	G ±0.2	S ±0.2
8-10	12	4,5	30	11	5	3
12-16	16	5,5	40	15	6	4
20-25	22	6,6	50	20	8	5

### FM FOOT MOUNTING

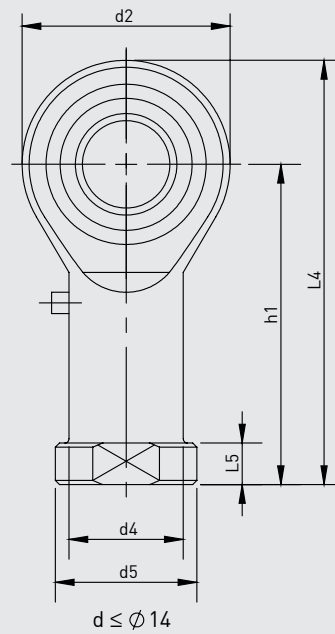
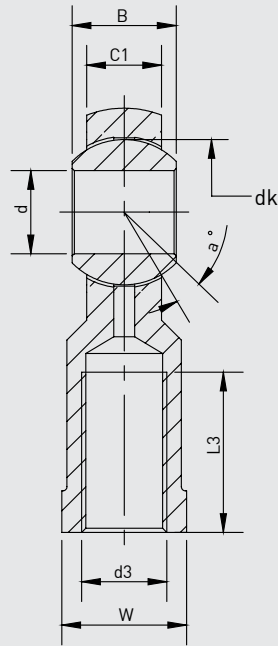


Cylinder Ø mm	A +0.2 +0.1	B H13	C JS13	D	G +0.3 0	H ±0.2	J	R max	S ±0.2
8-10	12	4,5	25	35	11	16	16	10	3
12-16	16	5,5	32	42	14	20	20	12,5	4
20-25	22	6,6	40	54	17	25	25	20	5

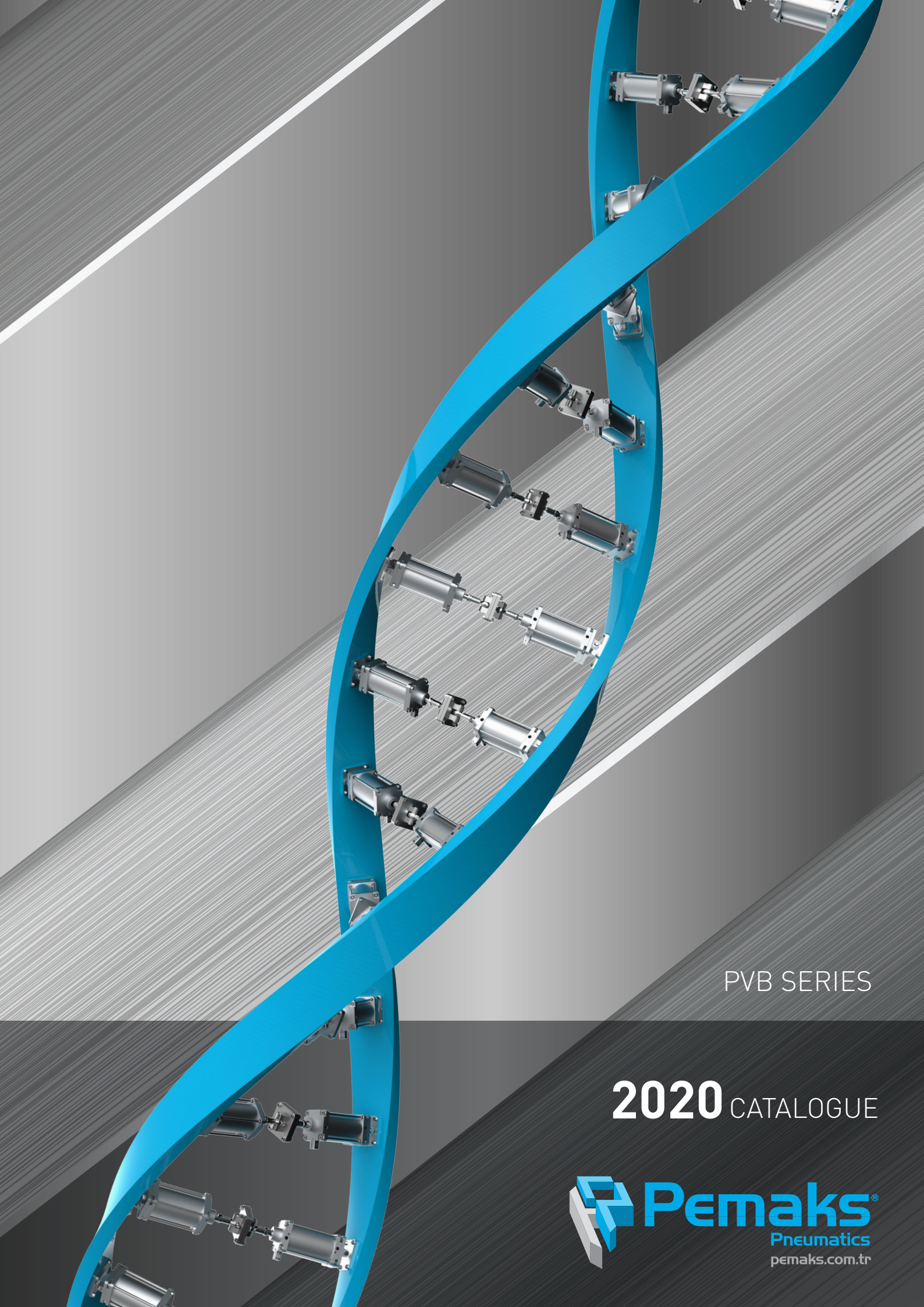
### RC ROD CLEVIS



Cylinder Ø mm	d1 H9	g ±0.5	a1 h11	a2 +0.3 -0.16	b1 B13	b2	d2 6H	d3 ±0.3	f ±0.2	i1 ±0.5	i2	i3 ±0.2	r
8-10	4	8	8	8	4	4	M4x0.70	8	0,5	21	16	6	0,5
12-16	6	12	12	12	6	6	M6x1.00	10	0,5	31	24	9	0,5
20	8	16	16	16	8	8	M8x1.25	14	0,5	42	32	12	0,5
25	10	20	20	20	10	10	M10x1.25	18	0,5	52	40	15	0,5



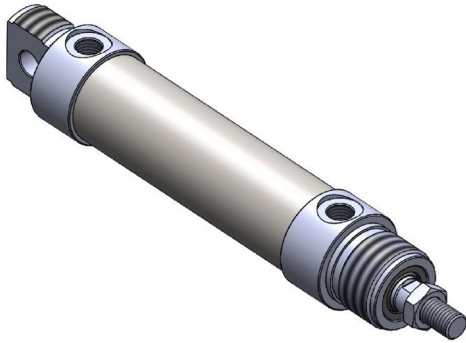
Part No.	Dimensions (mm)													
	d	d3 6H	B	C1	w	L3 min	d2	L4	h1	L5	d4	d5	dk	a°
KMB 6	6	M6x1.0	9	6,75	11	12	18	39	30	5	10	13	12,7	13
KMB 8	8	M8x1.25	12	9	14	16	22	47	36	5	12,5	16	15,875	14
KMB 10-1	10	M10x1.25	14	10,5	17	20	26	56	43	6,5	15	19	19,05	13



PVB SERIES

**2020** CATALOGUE

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



**PVB SERIES**

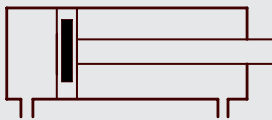
Ø32 - Ø63

DOUBLE ACTING, MAGNETIC and CUSHIONING CYLINDER

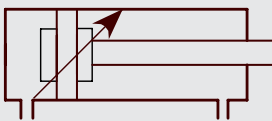
STAINLESS STEEL TUBE and ANODIZED COVERS PROVIDE LONG LIFE.



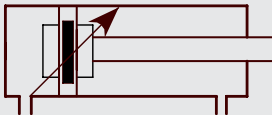
**PVB:** DOUBLE ACTING CYLINDER



**PVB-A:** DOUBLE ACTING and MAGNETIC CYLINDER



**PVB-Y:** DOUBLE ACTING and CUSHIONING CYLINDER



**PVB-YA:** DOUBLE ACTING, CUSHIONING and MAGNETIC CYLINDER

**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

**Example of order:**

PVB-YA    050 - 0100    K1  
 Product Code    Cylinder Ø Stroke    Non-Standard Variations

**Non-Standard Variations:**

- R1: Stainless Steel Piston Rod (AISI 304, AISI 316)
- R4: Stainless Steel Nut for Piston Rod (AISI 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 150°C (Viton)
- K2: Piston Rod Seal NBR+PA
- K3: Seals NBR
- K4: Piston Rod Seal Viton

**Working Fluid:**

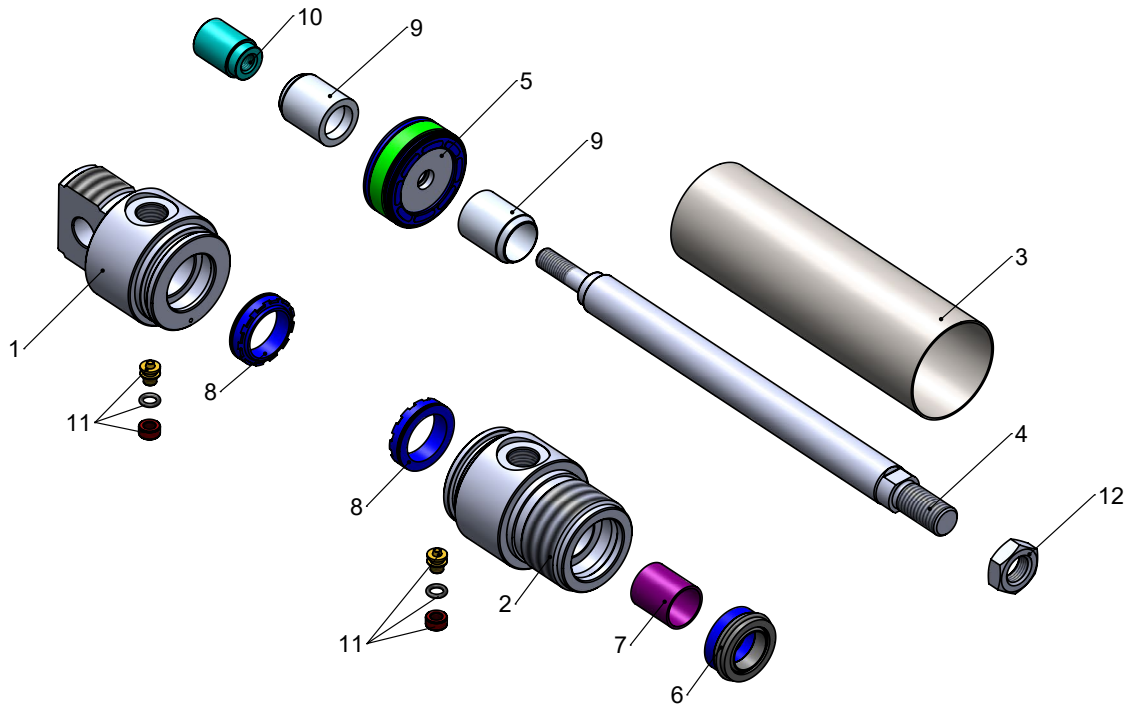
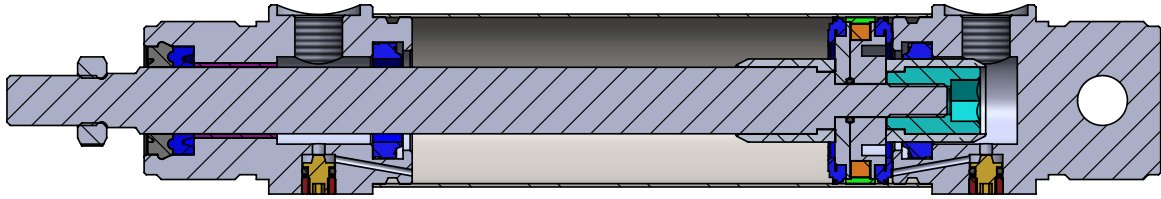
Filtered and lubricated or filtered and not lubricated air.

**Operating temperature range:**

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

**Max. work pressure:**

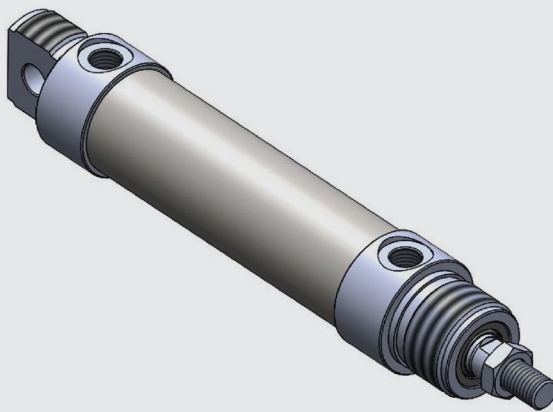
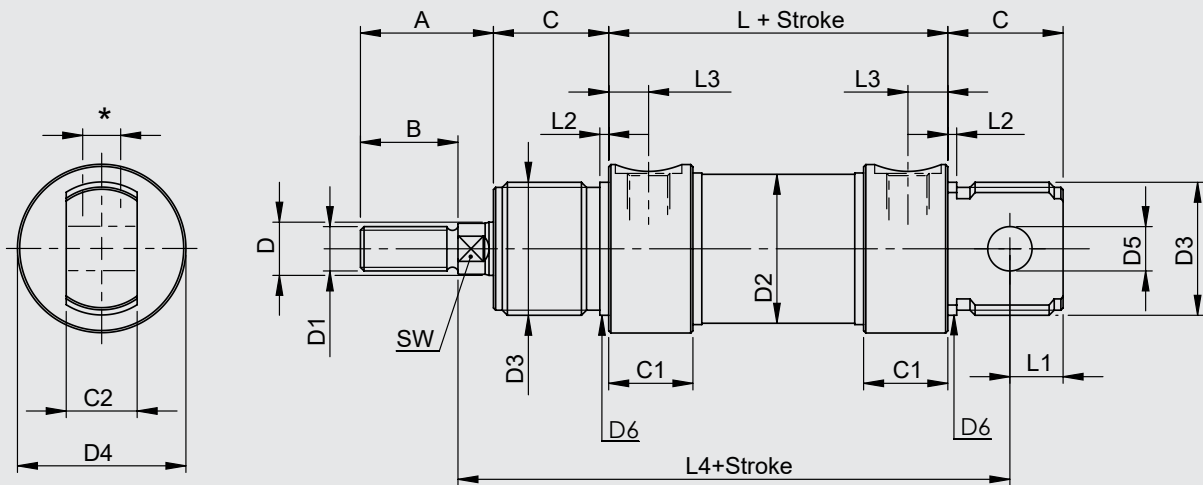
10 Bar



No	Part Name	Material Properties	Pc.
1	Rear Head	6082 Al+Eloxal Plated	1
2	Front Head	6082 Al+Eloxal Plated	1
3	Tube	AISI 304	1
4	Rod	X20Cr13 Hard Chrome Plated	1
5	Middle Piston	PU+Al+Pom+NBR+Magnet	1
6	Rod Seal	PU+HYTREL	1

No	Part Name	Material Properties	Pc.
7	Guiding Bush	CSB-40	1
8	Cushioning Seal	PU	2
9	Cushioning Tube	Polyacetal	2
10	Cushioning Fem.Thread	Galvanized Steel	1
11	Cushioning Screw	AISI 303+NBR+Brass	2
12	Nut	Galvanized Steel	1

Note: Part 8, 9, 10, 11 is available in the products with PVB-Y and PVB-YA



**PVB SERIES**  
Ø32 - Ø63

Cylinder Ø mm	A	B	C	C1	C2	D Ø	D1	D2 Ø	D3	D4 Ø	D5 Ø	D6 Ø	L	L1	L2	L3	L4	SW	*
32	30	22	26	19	16	12	M10x1.25	33.6	M30x1.5	38	10	30	69.5	12	2	9	117.5	10	G1/8"
40	33	24	30	25	18	16	M12x1.25	41.6	M38x1.5	46	12	38	84.6	14	3	12	139.6	13	G1/4"
50	43	32	33	25	21	20	M16x1.5	52.4	M45x1.5	57	16	45	86.2	16	3	12	147.2	17	G1/4"
63	44	32	33	28	21	20	M16x1.5	65.4	M45x1.5	70	16	45	94.2	16	3	13	156.2	17	G3/8"

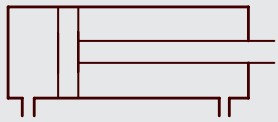


**PVB SERIES**

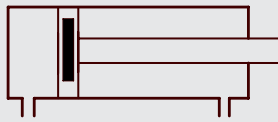
Ø80 - Ø100

DOUBLE ACTING, MAGNETIC and CUSHIONING CYLINDER

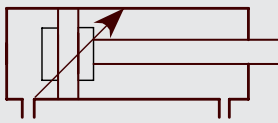
REMOVABLE TYPE BODY ELEMENTS PROVIDES PRACTICAL MAINTENANCE and REPAIR.



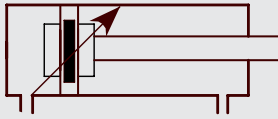
**PVB:** DOUBLE ACTING CYLINDER



**PVB-A:** DOUBLE ACTING and MAGNETIC CYLINDER



**PVB-Y:** DOUBLE ACTING and CUSHIONING CYLINDER



**PVB-YA:** DOUBLE ACTING, MAGNETIC and CUSHIONING CYLINDER

**Force value:**

Cylinder Ø mm	Rod Ø mm	Thrust and Traction forces (6 bar)	
		Thrust force (N)	Traction force (N)
80	25	3016	2721
100	25	4712	4418

**Example of order:**

PVB-YA    0100 - 0100    K1  
Product Code    Cylinder Ø Stroke    Non-standard Variations

**Non-standart variations:**

- R1: Stainless Steel Piston Rod (AISI 304, AISI 316)
- R4: Stainless Steel Nut for Piston Rod (AISI 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 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.

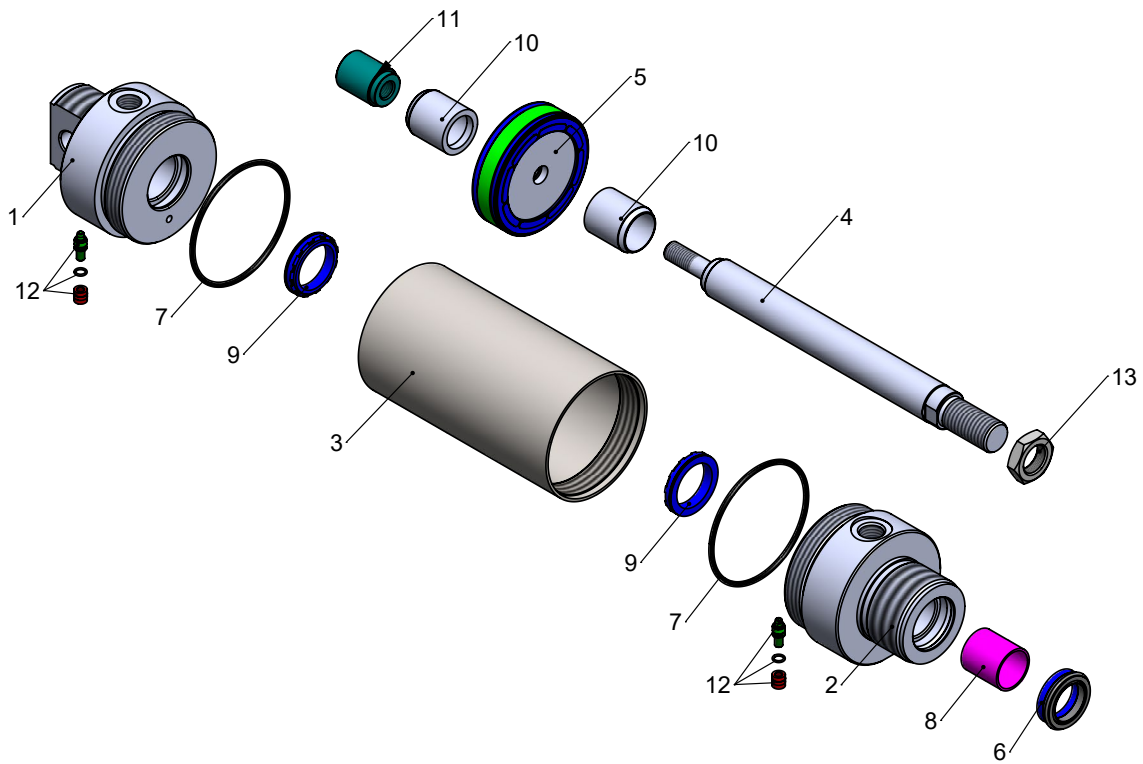
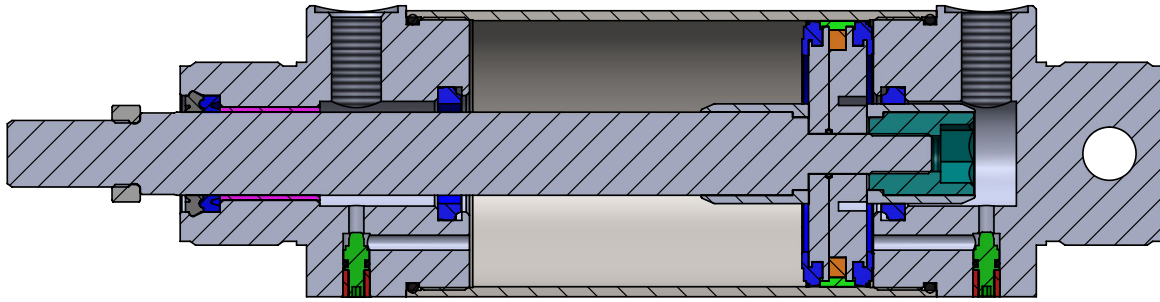
**Operating temperature range:**

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

**Max. work pressure:**

10 Bar

DOUBLE ACTING, MAGNETIC and CUSHIONING CYLINDER - Ø80 - Ø100

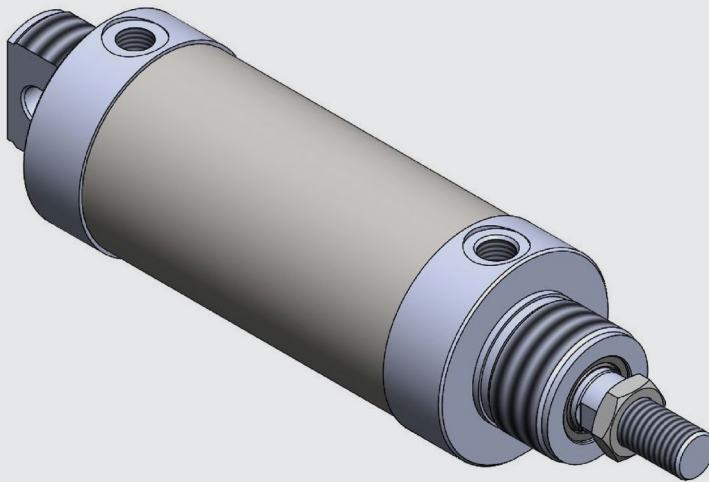
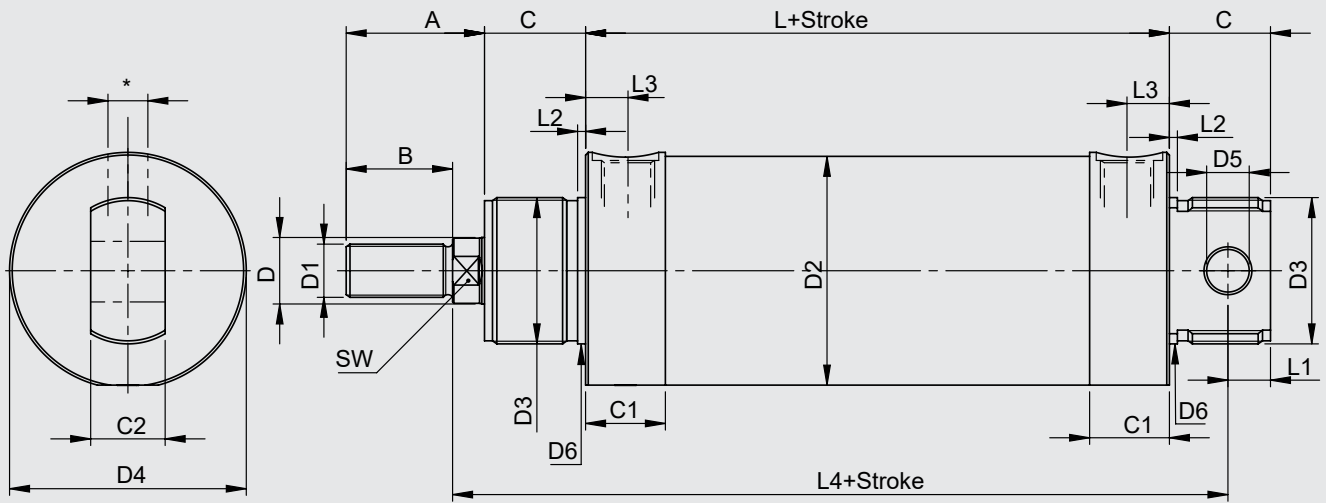


No	Part Name	Material Properties	Pc.
1	Rear Head	6082 Al+Eloxal Plated	1
2	Front Head	6082 Al+Eloxal Plated	1
3	Tube	AISI 304	1
4	Piston Rod	X20Cr13 Hard Chrome Plated	1
5	Middle Piston	PU+Al+Pom+NBR+Magnet	1
6	Rod Seal	PU+HYTREL	1
7	Head O-ring	NBR	2

No	Part Name	Material Properties	Pc.
8	Guiding Bush	CSB-40	1
9	Cushioning Seal	PU	2
10	Cushioning Tube	Polyacetal	2
11	Cushioning Fem.Thread	Galvanized Steel	1
12	Cushioning Screw	AISI 303+NBR+Brass	2
13	Nut	Galvanized Steel	1

Note: Part 9, 10, 11, 12 is available in the products with PVB-Y and PVB-YA





**PVB SERIES**  
Ø80 - Ø100

Cylinder Ø mm	A	B	C	C1	C2	D Ø	D1	D2 Ø	D3	D4 Ø	D5 Ø	D6 Ø	L	L1	L2	L3	L4	SW	*
80	52	40	38	30	28	25	M20x1,5	86	M55x2	89	16	55	119,5	16	3	15	191,5	22	G3/8"
100	52,5	40	38	35	28	25	M20x1,5	106	M55x2	109	20	55	133,5	20	3	17,5	202	22	G1/2"