

PVS SERIES

**2020** CATALOGUE

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Pneumatics  
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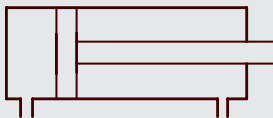


### PVS SERIES

ISO 6432 - Ø8 - Ø25

COMPLETELY STAINLESS STEEL,  
DOUBLE ACTING and MAGNETIC  
CYLINDER

STAINLESS STEEL BODY EQUIPMENT  
PROVIDES HIGH RESISTANCE AGAINST  
CORROSION.



**PVS:** DOUBLE ACTING  
CYLINDER



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

### Example of order:

PVS-A      025 - 050      K1  
Product Code    Cylinder Ø Stroke    Non-standard  
Variations

### Non-standart variations:

- 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)
- K3: Seals NBR
- K4: Piston Rod Seals Viton

### Force value:

Cylinder Ø mm	Rod Ø mm	Thrust and Traction forces (6 bar)	
		Thrust force ( N )	Traction force ( N )
8	4	30	23
10	4	47	40
12	6	68	51
16	6	121	104
20	8	189	158
25	10	295	247

### Working Fluid:

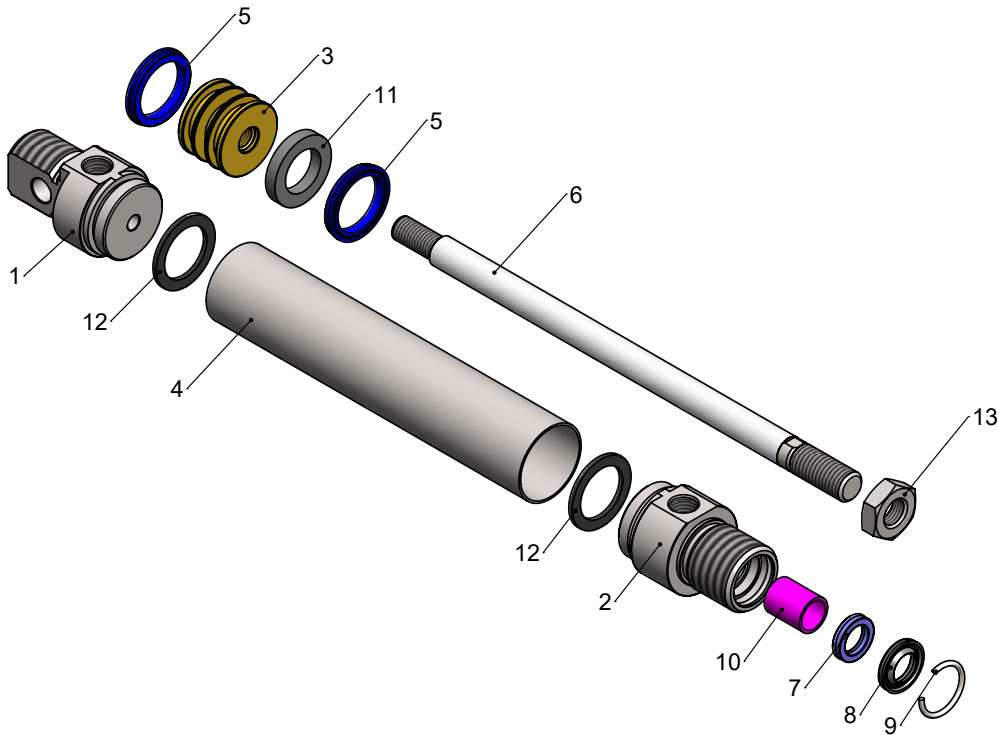
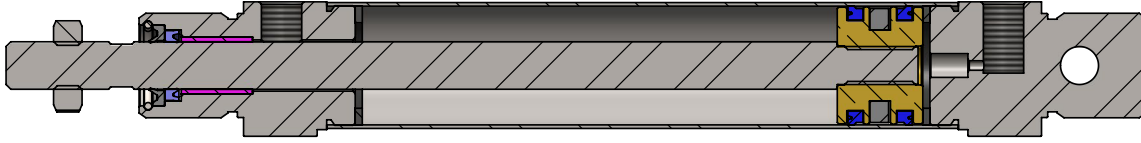
Filtered and lubricated or filtered and not lubricated air.

### Operating temperature range:

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

### Max. work pressure:

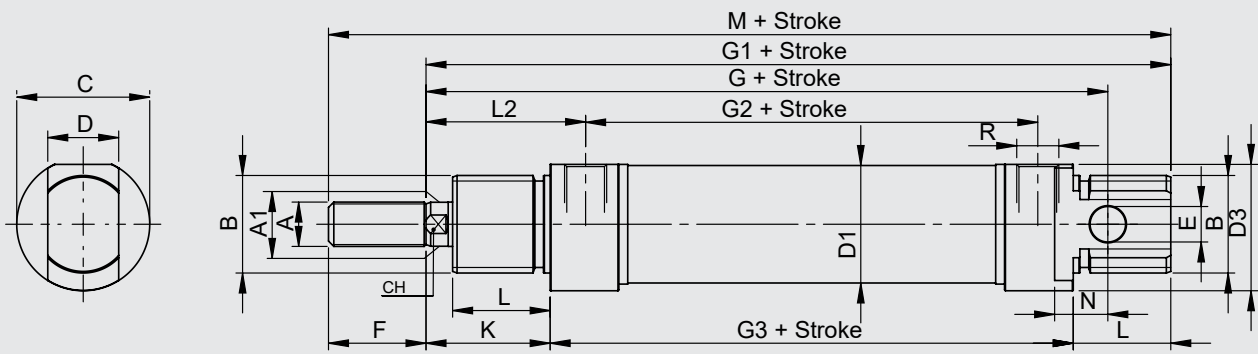
10 Bar



No	Part Name	Material Properties	Pc.
1	Rear Head	AISI 304-AISI 316	1
2	Front Head	AISI 304-AISI 316	1
3	Middle Piston	Brass	1
4	Tube	AISI 304	1
5	Piston Seal	PU	2
6	Piston Rod	AISI 303	1

No	Part Name	Material Properties	Pc.
7	Rod Seal	PU	1
8	Scraper	POM	1
9	Retaining Ring	Stainless Steel	1
10	Guiding Bush	CSB-40	1
11	Magnet		1
12	Bumper	NBR	2
13	Nut	AISI 304-AISI 316	1

Note: Scraper feature is available on Ø12...Ø25 cylinder.



**PVS 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	G1/8"	131
25	M10x1.25	10	M22x1.5	30	16	26.50	28.5	8	22	104	118	52	68	28	22	36	12	9	G1/8"	140





## PVS SERIES

Ø32 - Ø63

COMPLETELY STAINLESS STEEL,  
MAGNETIC AND CUSHIONING CYLINDER

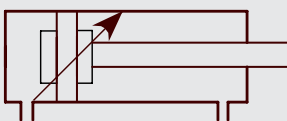
STAINLESS STEEL BODY EQUIPMENT  
PROVIDES HIGH RESISTANCE AGAINST  
CORROSION.



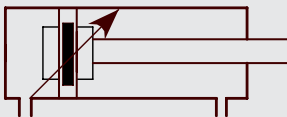
**PVS:** DOUBLE ACTING  
CYLINDER



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



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



**PVS-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:

PVS-YA     50 - 0100     K1  
Product Code     Cylinder Ø Stroke     Non-Standard  
Variations

### Non-Standard Variations:

- R0: Piston rod AISI 420
- R5: Piston rod as CK45 (Hard Chrome Plated)
- M1: Extended male thread on cylinder rod
- M2: Female piston rod thread
- M3: Special thread on rod
- M4: Extended piston rod
- K1: Max. 150°C sealing parts(Viton)
- K3: Seals NBR
- K4: Rod seal viton

### Working Fluid:

Filtered and lubricated or filtered and not lubricated air.

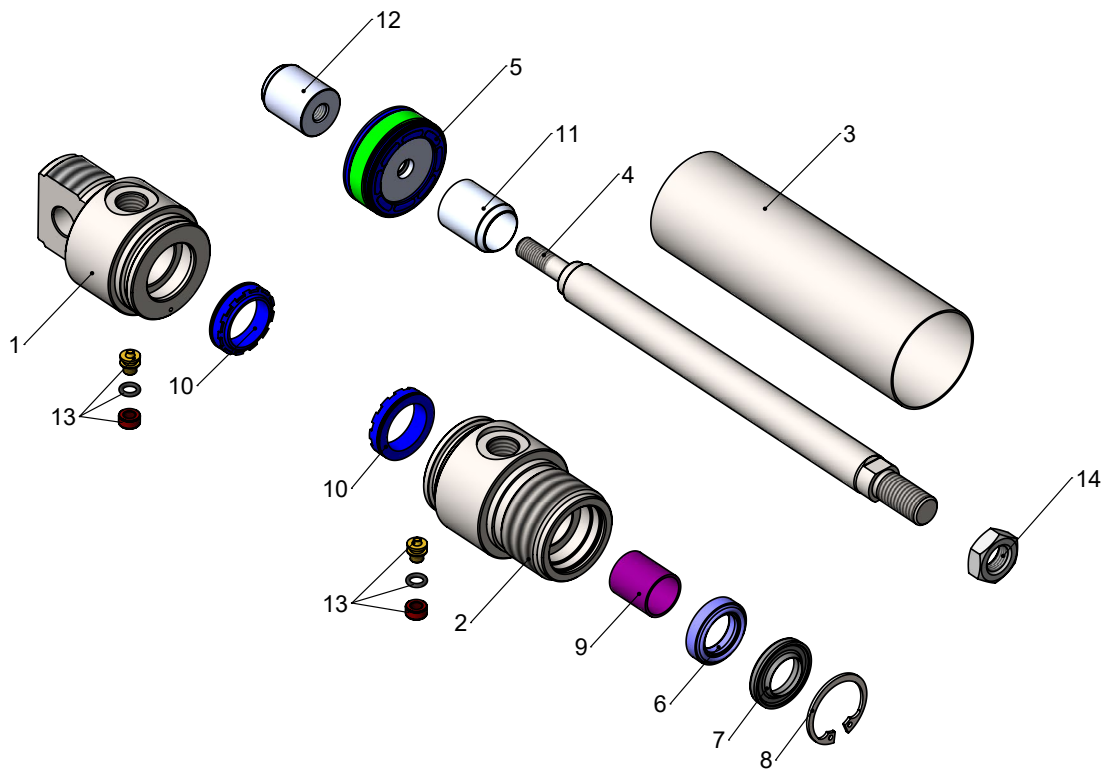
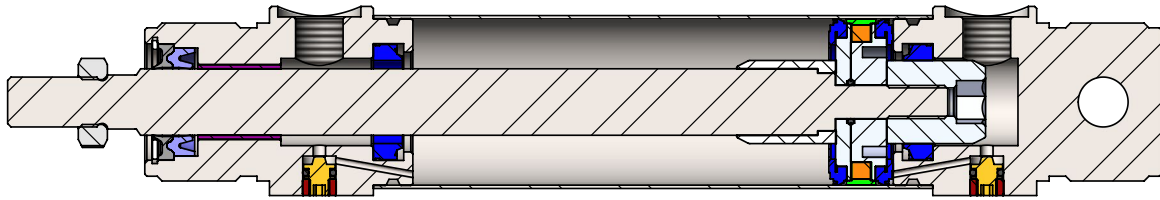
### Operating temperature range:

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

### Max. work pressure:

10 Bar

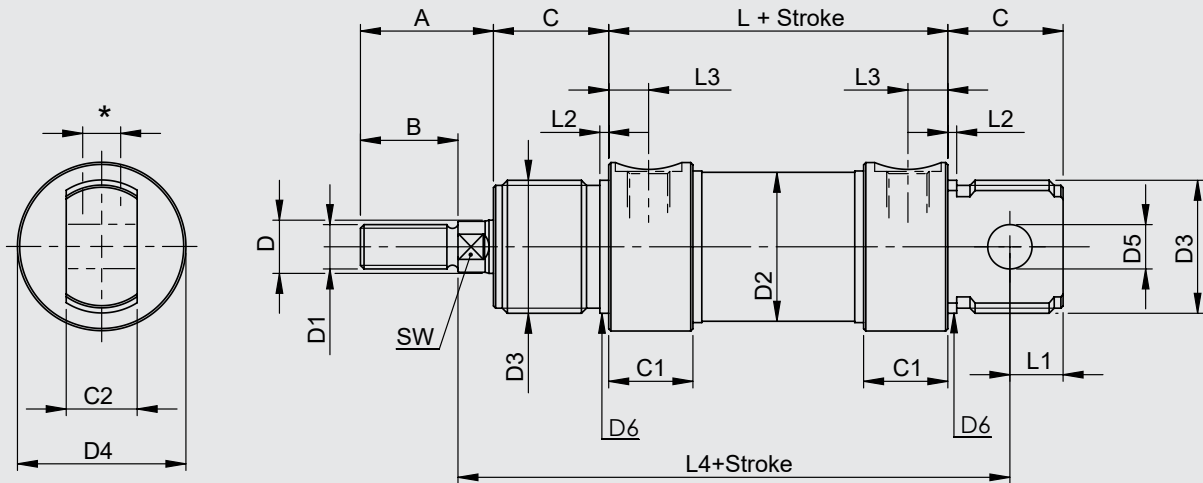
COMPLETELY STAINLESS STEEL, MAGNETIC AND CUSHIONING CYLINDER - Ø32 - Ø63



No	Part Name	Material Properties	Pc.
1	Rear Head	AISI 304- AISI 316	1
2	Front Head	AISI 304- AISI 316	1
3	Tube	AISI 304	1
4	Rod	AISI 316	1
5	Middle Piston	PU+Al+Pom+NBR+Magnetic	1
6	Rod Seal	PU	1
7	Scraper	POM	1

No	Part Name	Material Properties	Pc.
8	Retaining Ring	A2-Stainless Steel	1
9	Guiding Bush	CSB-40	1
10	Cushioning Seal	PU	2
11	Cushioning Tube	Aluminium	1
12	Cushioning Fem. Thread	Aluminium	1
13	Cushioning Screw	AISI 303+NBR+Brass	2
14	Nut	AISI 304-AISI 316	1

Note: Part 10, 11, 12, 13 is available in the products with PVS-Y and PVS-YA



**PVS 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"

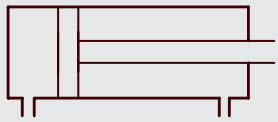


**PVS SERIES**

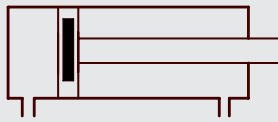
Ø80 - Ø100

COMPLETELY STAINLESS STEEL,  
MAGNETIC AND CUSHIONING CYLINDER

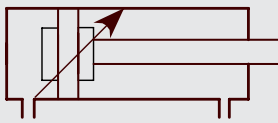
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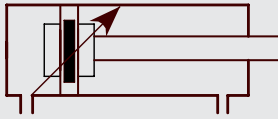
**PVS:** DOUBLE ACTING CYLINDER



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



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



**PVS-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)
80	25	3016	2721
100	25	4712	4418

**Example of order:**

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

**Non-standart variations:**

- R0: Piston Rod AISI 420
- R5: Piston Rod 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)
- K3: Seals NBR
- K4: Piston Rod Seal Viton

**Working Fluid:**

Filtered and lubricated or filtered and not lubricated air.

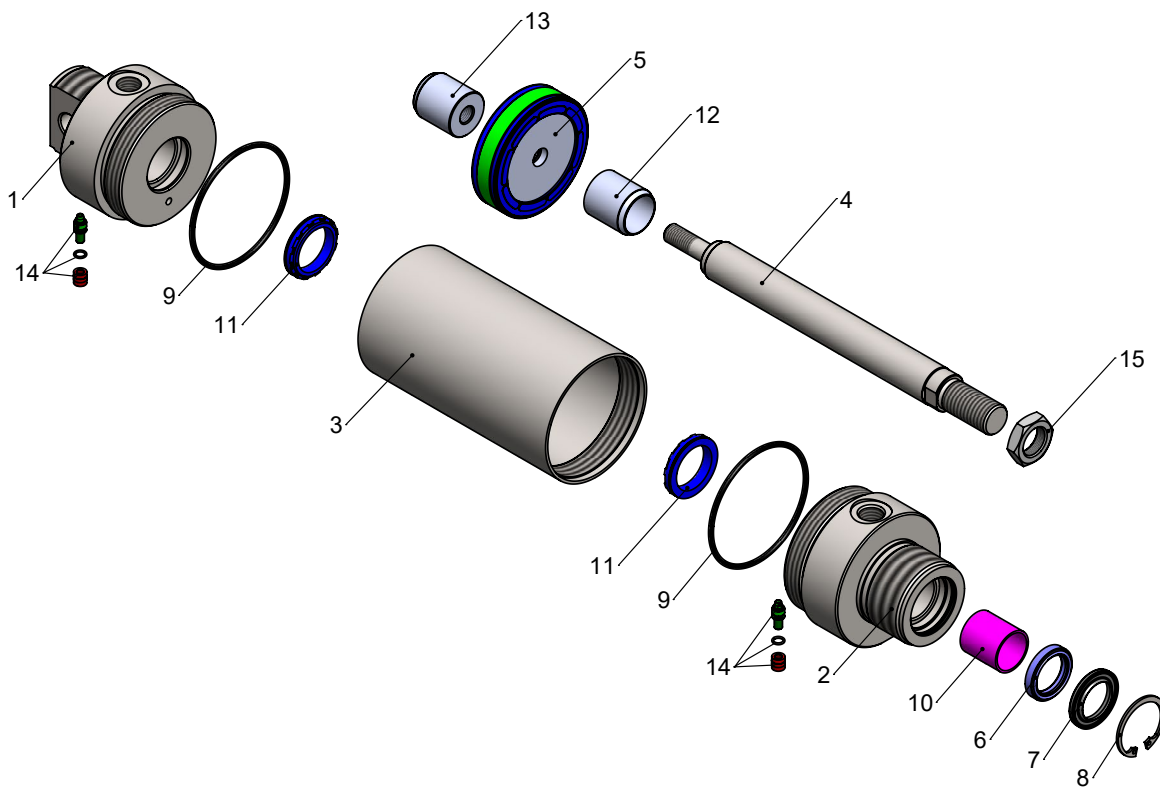
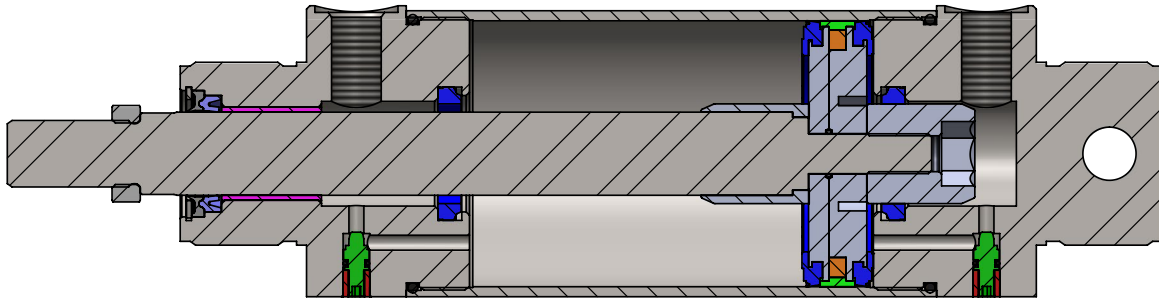
**Operating temperature range:**

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

**Max. work pressure:**

10 Bar

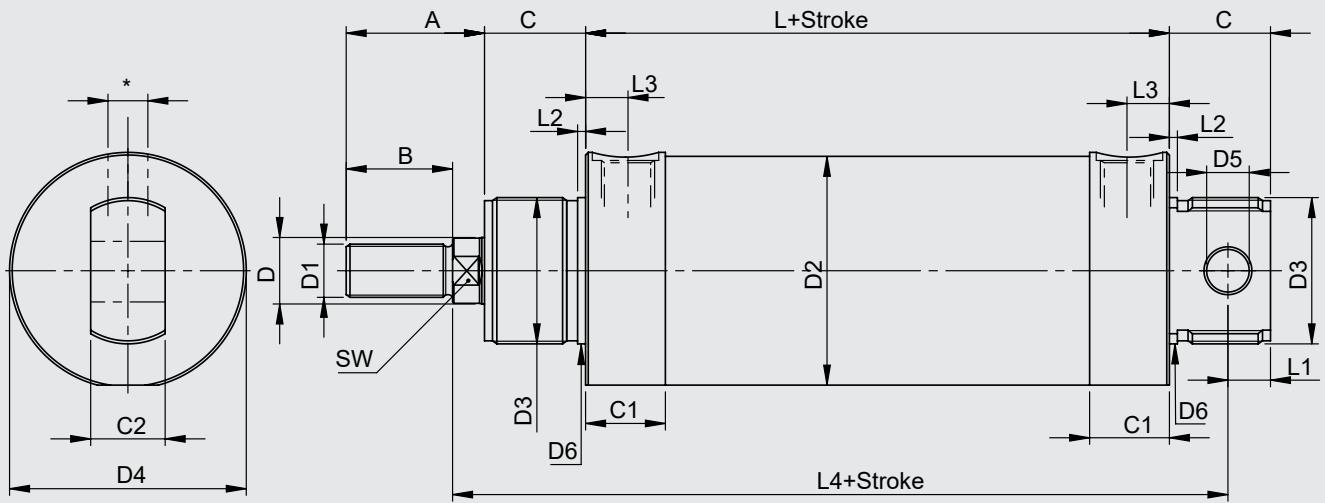




No	Part Name	Material Properties	Pc.
1	Rear Head	AISI 304- AISI 316	1
2	Front Head	AISI 304- AISI 316	1
3	Tube	AISI 304	1
4	Piston Rod	AISI 316	1
5	Middle Piston	PU+Al+Pom+NBR+Magnet	1
6	Rod Seal	PU	1
7	Scraper	POM	1
8	Retaining Ring	A2-Stainless Steel	1

No	Part Name	Material Properties	Pc.
9	Head O-ring	NBR	2
10	Guiding Bush	CSB-40	1
11	Cushioning Seal	PU	2
12	Cushioning Tube	Aluminium	1
13	Cushioning Fem. Thread	Aluminium	1
14	Cushioning Screw	AISI 303+NBR+Brass	2
15	Nut	AISI 304-AISI 316	1

Note: Part 11, 12, 13, 14 is available in the products with PVS-Y and PVS-YA



**PVS 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"

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