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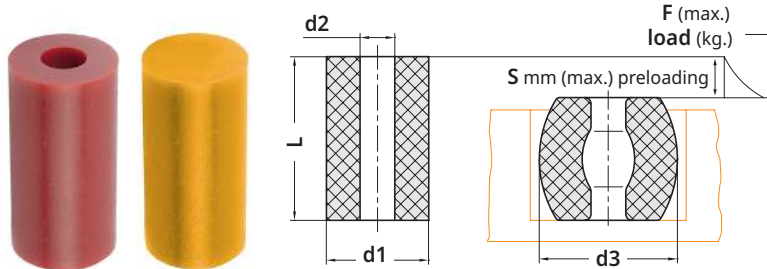
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Polyurethane Compression Spring

90 SHORE / Red Springs

Code: **PMK**

Compression (Length)

Red 25% Yellow 35%

80 SHORE / Yellow Springs

Code: **PMS**

● D = Solid ○ B = Hollow

d1	L	d2	d3	25%		35%		d1	L	d2	d3	25%		35%	
				Max. Force								Max. Force			
				S	F	S	F					S	F	S	F
16	12	6.5	21	3.6	171	4.3	104	63	32	17	81	9.6	3070	11.2	1902
	16			4.8	169	5.6	100		40			12.0	3009	14.0	1836
	20			6.0	165	7.0	97		50			15.0	2947	17.5	1785
	25			7.5	161	8.7	96		63			18.9	2856	22.0	1734
20	16	8.5	26	4.8	265	5.6	156		80			24.0	2805	28.0	1683
	20			6.0	260	7.0	154		100			30.0	2784	35.0	1652
	25			7.5	258	8.7	153	125	37.5	2733	43.7	1632			
	32			9.6	255	10.6	152	32	9.6	5406	11.2	3213			
25	20	10.5	32	6.0	439	7.0	265	40	12.0	5151	14.0	3070			
	25			7.5	428	8.7	260	50	15.0	4896	17.5	3049			
	32			9.6	423	10.6	257	63	18.9	4743	22.0	2937			
	40			12.0	420	14.0	255	80	24.0	4641	28.0	2886			
32	32	13.5	42	9.6	653	10.6	398	100	30.0	4579	35.0	2866			
	40			12.0	648	14.0	393	125	37.5	4488	43.7	2861			
	50			15.0	643	17.5	390	32	9.6	9180	11.2	5712			
	63			18.9	638	22.0	388	40	12.0	8649	14.0	5304			
40	32	13.5	52	9.6	1122	10.6	683	50	15.0	8262	17.5	5100			
	40			12.0	1112	14.0	673	63	18.9	7956	22.0	4845			
	50			15.0	1101	17.5	668	80	24.0	7650	28.0	4590			
	63			18.9	1097	22.0	663	100	30.0	7446	35.0	4416			
50	32	17	65	9.6	1775	10.6	1102	125	37.5	7242	43.7	4233			
	40			12.0	1765	14.0	1061	32	9.6	15300	11.2	9384			
	50			15.0	1734	17.5	1041	40	12.0	14535	14.0	8670			
	63			18.9	1698	22.0	1020	50	15.0	13464	17.5	8160			
63	32	17	81	9.6	3070	11.2	1902	63	18.9	12750	22.0	7650			
	40			12.0	3009	14.0	1836	80	24.0	12036	28.0	7242			
	50			15.0	2947	17.5	1785	100	30.0	11730	35.0	7191			
	63			18.9	2856	22.0	1734	125	37.5	11526	43.7	7140			
80	32	21	104	9.6	5406	11.2	3213	160	48.0	11352	56.0	6936			
	40			12.0	5151	14.0	3070	32	9.6	9180	11.2	5712			
	50			15.0	4896	17.5	3049	40	12.0	8649	14.0	5304			
	63			18.9	4743	22.0	2937	50	15.0	8262	17.5	5100			
100	32	21	130	9.6	9180	11.2	5712	63	18.9	7956	22.0	4845			
	40			12.0	8649	14.0	5304	80	24.0	7650	28.0	4590			
	50			15.0	8262	17.5	5100	100	30.0	7446	35.0	4416			
	63			18.9	7956	22.0	4845	125	37.5	7242	43.7	4233			
125	32	27	160	9.6	15300	11.2	9384	32	9.6	15300	11.2	9384			
	40			12.0	14535	14.0	8670	40	12.0	14535	14.0	8670			
	50			15.0	13464	17.5	8160	50	15.0	13464	17.5	8160			
	63			18.9	12750	22.0	7650	63	18.9	12750	22.0	7650			
160	32	27	160	9.6	15300	11.2	9384	80	24.0	12036	28.0	7242			
	40			12.0	14535	14.0	8670	100	30.0	11730	35.0	7191			
	50			15.0	13464	17.5	8160	125	37.5	11526	43.7	7140			
	63			18.9	12750	22.0	7650	160	48.0	11352	56.0	6936			



Order:

Code. **D** or **B** x d1 x L

Order Example:

PMS. B x 25 x 40



Plates - Cylinder - Discs - Pipes - Square - Formed Moulding

In special forms are produced as per request!

They do not create any problem at water / oil emulsions (resistance to thermal shock). They do not have any abrasion effects that can be distinguished with fixed and high load under normal temperature and environmental conditions at serial motion dies. Especially, they are efficient in ambient that do not require magnetization. Polyurethane springs can be machining with ordinary machine tools (such as lathe) as well as can be machining with traditional cutting tools (with sharp cutting edge). Polyurethane compression spring is incompressible material, spring load is obtained by extending outwards. Most of the expansion is reflected outwards. When desired higher flexion, selected spring is cut into two pieces from centre, then metal thick washer is inserted, thus flexion is increased two times. Pin diameter of polyurethane compression springs should be less than the inner diameter of spring.



90 SHORE

Code: **PRPK**



80 SHORE

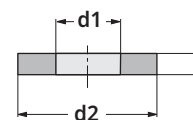
Code: **PRPS**

Polyurethane Shock Absorbing Washer

Compression (Length)

Red 25%

Yellow 35%



d2	d1	S mm	d2	d1	S mm
Ø16	6.5	3	Ø40	13.5	5
	11	4		17	6
Ø20	8.5	3		21	7
	11	4		32	8
	13	5	Ø50	17	6
Ø25	10.5	3		26	7
	12	4		32	8
	14	5		37	10
Ø32	13.5	3	Ø63	17	6
	18	4		32	10
	21	5	Ø80	21	8
	23.5	6		42	10
	25	7	Ø100	21	10

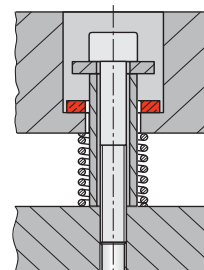


Order:

Code. d1 x d2 x S

Order Example:

PRPS. 11 x 20 x 4



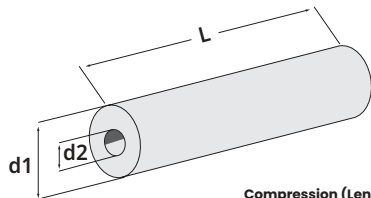
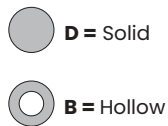
Mounting Example


90 SHORE

Code: **PYK**
80 SHORE

Code: **PYS**

Polyurethane Compression Spring



Compression (Length)

Red 25%

Order Code		d1	d2 Hollow	L Length
Type / Solid	Type / Hollow			
PYKD 16	PYKB 16	16	6.5	310 mm
PYKD 20	PYKB 20	20	8.5	310 mm
PYKD 25	PYKB 25	25	10.5	310 mm
PYKD 32	PYKB 32	32	13.5	310 mm
PYKD 40	PYKB 40	40	13.5	310 mm
PYKD 50	PYKB 50	50	17	310 mm
PYKD 63	PYKB 63	63	17	310 mm
PYKD 80	PYKB 80	80	21	310 mm
PYKD 100	PYKB 100	100	21	310 mm
PYKD 125	PYKB 125	125	27	310 mm

Yellow 35%

Order Code		d1	d2 Hollow	L Length
Type / Solid	Type / Hollow			
PYSD 16	PYSB 16	16	6.5	310 mm
PYSD 20	PYSB 20	20	8.5	310 mm
PYSD 25	PYSB 25	25	10.5	310 mm
PYSD 32	PYSB 32	32	13.5	310 mm
PYSD 40	PYSB 40	40	13.5	310 mm
PYSD 50	PYSB 50	50	17	310 mm
PYSD 63	PYSB 63	63	17	310 mm
PYSD 80	PYSB 80	80	21	310 mm
PYSD 100	PYSB 100	100	21	310 mm
PYSD 125	PYSB 125	125	27	310 mm

Vulkollan Springs

NEW

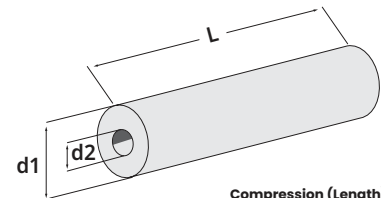
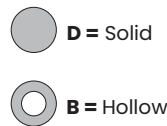

Hollow

Code: **PYBB**


Solid

Code: **PYBD**

Vulkollan Compression Spring



Compression (Length)

92 SHORE / 30%

Order Code		d1	d2 Hollow	L Length
Type / Solid	Type / Hollow			
PYBD 16	PYBB 16	16	6.5	310 mm
PYBD 20	PYBB 20	20	8.5	310 mm
PYBD 25	PYBB 25	25	10.5	310 mm
PYBD 32	PYBB 32	32	13.5	310 mm
PYBD 40	PYBB 40	40	13.5	310 mm
PYBD 50	PYBB 50	50	17	310 mm
PYBD 63	PYBB 63	63	17	310 mm
PYBD 80	PYBB 80	80	21	310 mm
PYBD 100	PYBB 100	100	21	310 mm
PYBD 125	PYBB 125	125	27	310 mm



Sealing



Abrasion resistance



Tear resistance


Shock and impact
resistance


Resistance to chemical products



Bend restrictor



Sound insulation


Advantages of
Vulkollan Over
Polyurethane

Springs

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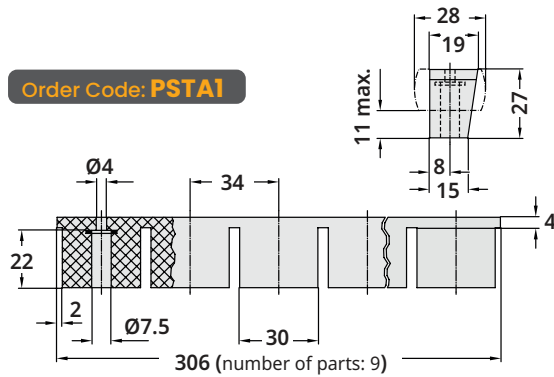
Springs

Stripper for Blanking Dies

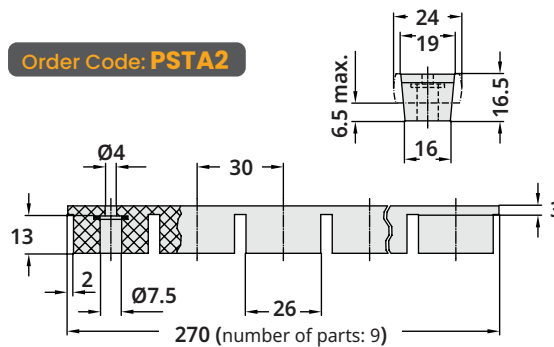
Code: **PSTA..**

Material: Polyurethane / 70 Shore

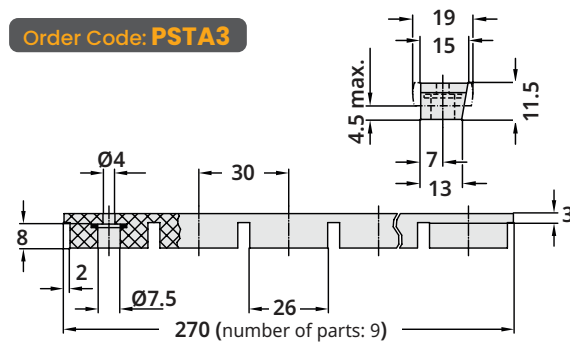
Order Code: **PSTA1**



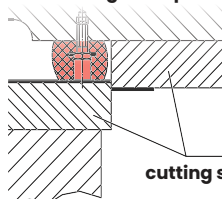
Order Code: **PSTA2**



Order Code: **PSTA3**



Mounting Example



cutting steels

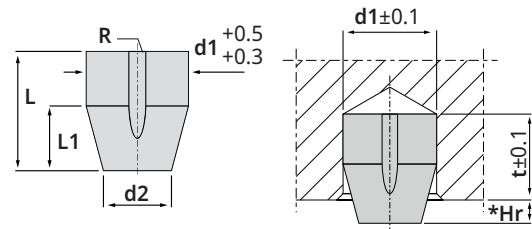
Reference: **VDI 3362**
Mercedes-Benz VW

NEW

Compression Piece

Code: **PDTA..**

Material: Polyurethane / 90 Shore

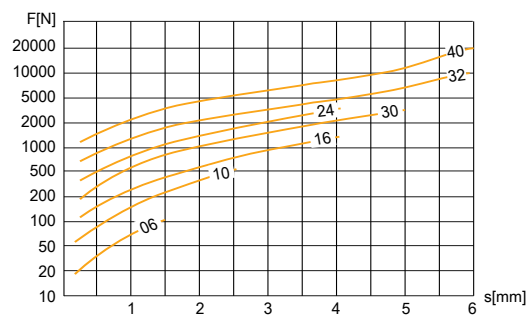


Movement Distance Force (F) Diagram

*Hr: Max. movement distance

1N = 0.1 daN = 0.102 kg.

Order Code	d1	L	d2	L1	t	R	*Hr	Max. Force
PDTA 06	6	9.5	3.6	4.5	8	-	1.5	100 N
PDTA 10	10	15.5	6	7.5	13	1	2.5	450 N
PDTA 16	16	25	9.5	12	21	1.5	4	1500 N
PDTA 24	24	25	18	10	21	2	4	3000 N
PDTA 30	30	35	20	19	30	2.5	5	3000 N
PDTA 32	32	32	24	14	26	3	6	12000 N
PDTA 40	39.5	40	30	16	34	3	6	25000 N

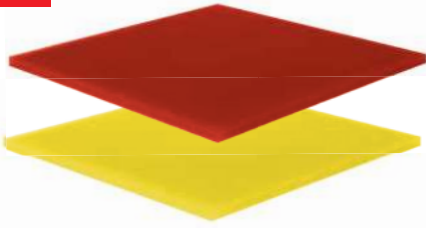


Compression Pieces are used for the removal and extraction of parts stamped in press/die tools. A blind hole is sufficient for placing the product. The ventilation channel has been designed to facilitate pressing (assembly).

- ✦ The use of the "PDTA" prevents damage to the surface of the stamped part.
- ✦ It has a compact design, and the assembly process is quite simple.
- ✦ It significantly contributes to the reduction of noise
- ✦ It is highly resistant to wear and guarantees a long service life.

Hardness: 90 Shore

NEW



Polyurethane Plate

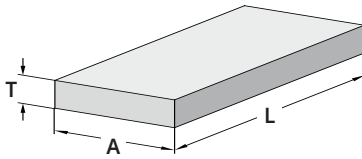
Note: Custom size orders are made upon request.

90 SHORE / Red Plate

Code: **PPK**

80 SHORE / Yellow Plate

Code: **PPS**



A	L	T	A	L	T	A	L	T
250	250	3	250	500	3	500	500	3
		4			4			4
		5			5			5
		6			6			6
		7			7			7
		8			8			8
		10			10			10
		12			12			12
		15			15			15
		20			20			20
		25			25			25
		30			30			30
		40			40			40
		50			50			50
		60			60			60
		70			70			70
		80			80			80

A	L	T	A	L	T	A	L	T
500	1000	3	500	1000	15	1000	1000	10
		4			20			12
		5			25			15
		6			30			20
		7			40			25
		8			50			30
		10			60			40
		12			70			50
					80			



Order:
PP.. x A x L x T

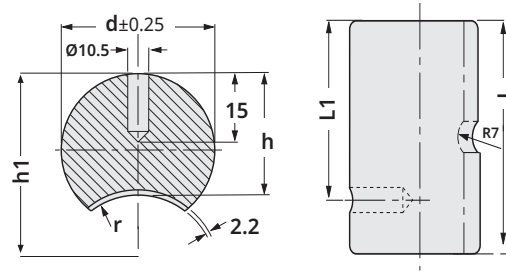
Order Example:
PPK x 250 x 250 x 5



Shock Absorber for Safety Pin

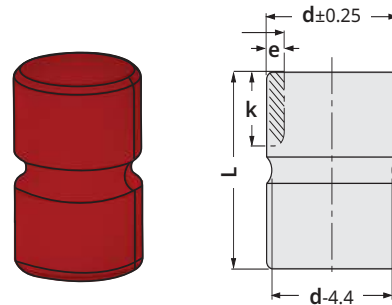
Code: **G57.2**

Material: Polyurethane 90 Shore



Order Code	d	L	L1	h	h1	r
G57.2 40	40	60	45	32	50	18
G57.2 50	50	80	60	40	63	23
G57.2 63	63	80	60	51	86	35

- * It should be used with safety pins. **G57.2** product is compatible with the product code **G57**.
- * It is an impact and speed retarder product.
- * Hardness of polyurethane material is 90 shore.
- * All dimensions without tolerance are in EN 22 768-1 mm standards.



Shock Absorber for Safety Pin

Code: **G56.1**

Material: Polyurethane 90 Shore

Order Code	Pin Diameter	d	L	e	k	Max. Press
G56.1 50	40	50	70	8	25	16%
G56.1 63	50	63	80	8	30	12%

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Springs

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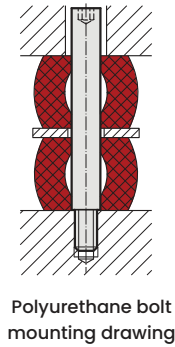
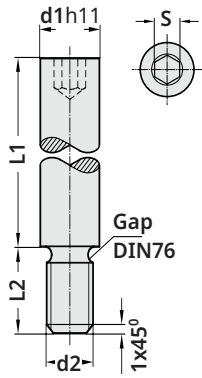
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Springs



Polyurethane bolt mounting drawing

Code: **PYP**

Guide Bolt for Polyurethane Spring

During guiding of polyurethane springs, countersunk allen head metric thread connected guide bolts can be used as single spring as well as cluster by dividing springs.

d	L1	d2	L2	S	Spring Ø
Ø 6 mm	20	M4	6 mm	3	Ø 16 x 6.5
	25				
	32				
Ø 8 mm	25	M6	9 mm	4	Ø 20 x 8.5
	32				
	40				
	50				
Ø 10 mm	25	M8	15 mm	5	Ø 25 x 10.5
	32				
	40				
	50				
Ø 13 mm	63	M10	15 mm	6	Ø 32 / 40 x 13.5
	32				
	40				
	50				
	63				
Ø 16 mm	80	M12	18 mm	8	Ø 50 / 63 x 17
	95				
	32				
	40				
	50				
	63				
	80				
Ø 20 mm	95	M16	25 mm	10	Ø 80 / 100 x 21
	118				
	140				
	40				
	50				
	63				
	80				



Order:
PYP. d1 x L1

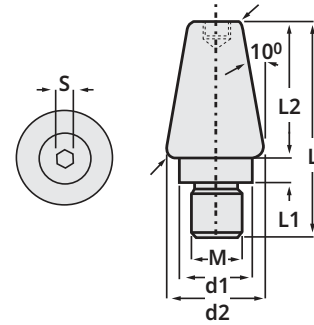
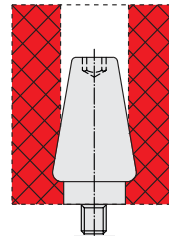


Material: CK45



Code: **PSP**

Locating Bolt for Polyurethane Spring



M	L	d1	d2	L1	L2	SW	Spring Ø
M12	56	19	28	8	30	6	63
M16	74	22	32	10	40	8	80 - 100
M20	100	28	38	15	55	10	125 - 140



Order:
PSP. M x L

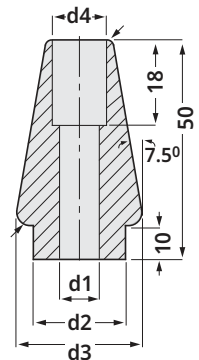
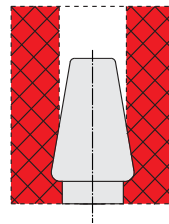


Material:
1.7131 (16MnCr5)



Code: **PMV**

Locating Pin for Polyurethane Spring



M	d1	d2	d3	d4	Spring Ø
M10	11	18	28	17	63
M12	13.5	22	32	19	80 - 100
M16	17.5	28	38	25	125



Connection screws as per request:
M10 x 50
M12 x 50
M16 x 60



Order:
PMV. M



Material:
1.7131 (16MnCr5)