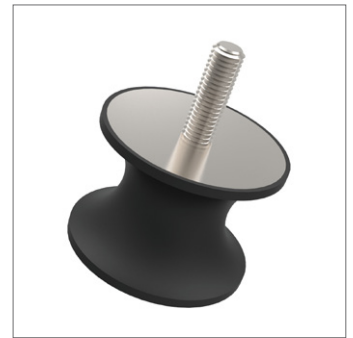
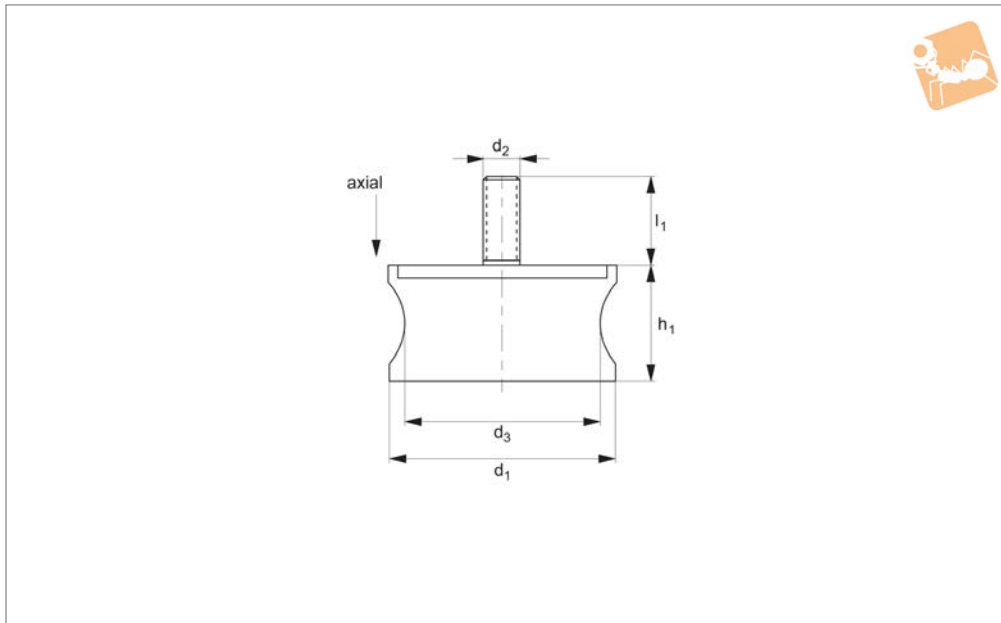




# Anti-vibration Cylinders Waisted male feet

## Anti-Vibration Components



**P2016**

ANTI-VIBRATION COMPONENTS

### Material

Rubber on silver zinc plated steel (rubber hardness - 55 Shore A).

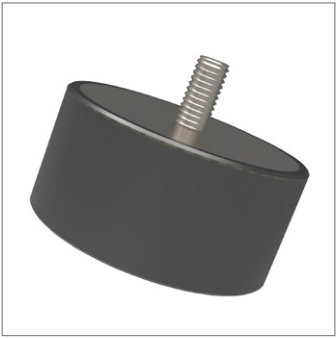
### Tips

These cylinders are used to reduce vibra-

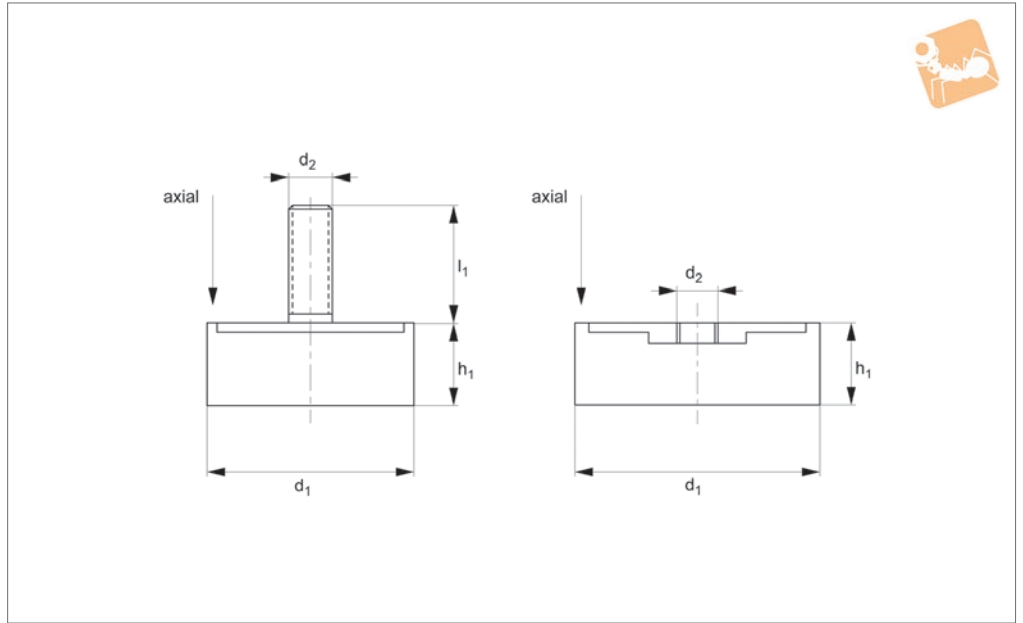
tion by allowing some movement (in axial and radial as shown in drawing).

Typically used in machinery, compressors, air conditioning units, light engineering equipment etc.

Order No.	$d_1$	$h_1$	$d_2$	$d_3$	$l_1$	Compression max.	Axial load kgf max.
P2016.020-020	20	20	M 6	12	18	2.5	15
P2016.030-025	30	25	M 8	24	20	4	40
P2016.040-028	40	28	M10	22	25	5	60
P2016.060-036	60	36	M10	37	30	5	90
P2016.060-043	60	43	M10	35	30	4	70
P2016.060-060	60	60	M10	51	30	6	150
P2016.070-056	70	56	M12	50	35	6	220
P2016.080-065	80	65	M12	70	35	8	400
P2016.090-050	90	50	M12	80	45	4	800
P2016.095-076	95	76	M16	80	45	9.5	400
P2016.090-077	90	77	M12	79	45	7	500
P2016.108-085	108	85	M16	95	45	10	800
P2016.130-096	130	96	M16	115	45	13	1400



**P2019**



**Material**  
Sorbathane on zinc plated steel.

control in more demanding electronic environments.

small pumps and lightweight electronic 'boxes'.

**Technical Notes**  
These cylinders provide high performance damping, isolation and shock motion

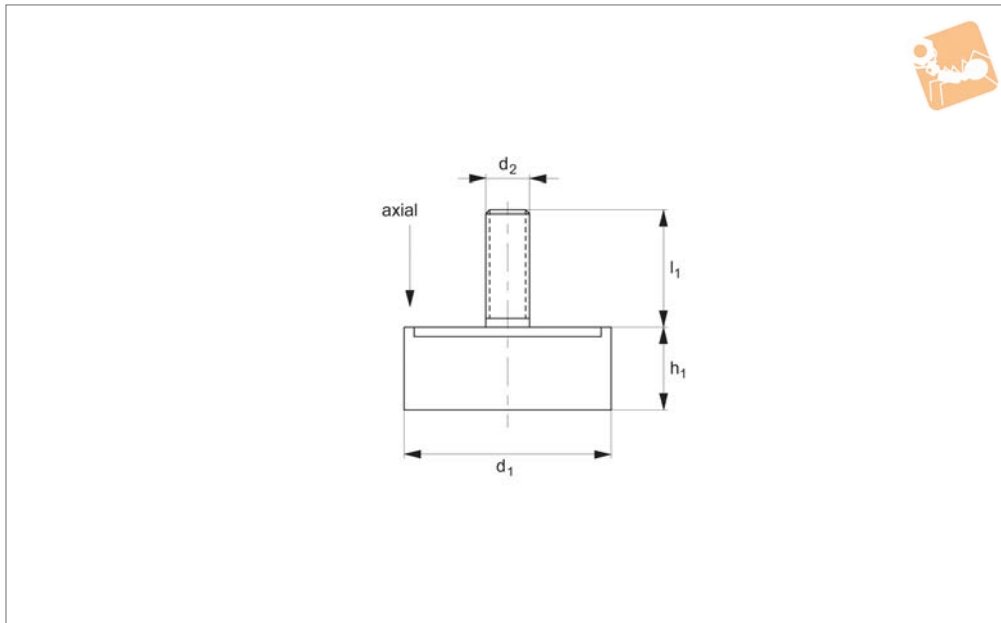
**Tips**  
They are commonly used for larger PCBs, disk drives, optical drives, small motors,

Order No.	Type	d <sub>1</sub>	h <sub>1</sub>	d <sub>2</sub>	l <sub>1</sub>	Axial load kgf max.
P2019.038-025	male	38.1	25.4	M 6	12.7	7-14
P2019.045-021	male	44.5	21.6	M 6	12.7	45-100
P2019.538-025	female	38.1	25.4	M 6	-	11-18
P2019.545-021	female	44.5	21.6	M 6	-	35-75



# Anti-vibration Feet male

## Anti-Vibration Components



**P2020**

ANTI-VIBRATION COMPONENTS

### Material

Rubber on silver zinc plated steel (rubber hardness - 55 Shore A).

### Tips

These feet or bumpers reduce shock and vibration.

Used widely as shock absorbers and feet for machine elements.

Order No.	d <sub>1</sub>	h <sub>1</sub>	d <sub>2</sub>	l <sub>1</sub>	Compression max.	Axial load kgf max.
P2020.009-012	9	12	M 4	14	2.0	6
P2020.015-010	15	10	M 4	14	1.5	13
P2020.015-015	15	15	M 4	14	3.0	13
P2020.015-020	15	20	M 4	14	4.0	10
P2020.015-025	15	25	M 4	14	5.0	9
P2020.020-010	20	10	M 6	13	2.0	30
P2020.020-020	20	20	M 6	13	4.0	25
P2020.025-010	25	10	M 6	18	1.5	50
P2020.025-013	25	13	M 6	18	3.0	46
P2020.025-015	25	15	M 6	18	3.0	44
P2020.025-017	25	17	M 6	18	3.0	42
P2020.025-020	25	20	M 6	18	4.0	41
P2020.025-025	25	25	M 6	18	5.0	40
P2020.025-030	25	30	M 6	18	6.0	35
P2020.030-012	30	12	M 8	23	2.0	58
P2020.030-015	30	15	M 8	20	3.0	58
P2020.030-020	30	20	M 8	20	4.0	55
P2020.030-025	30	25	M 8	20	5.0	50
P2020.030-030	30	30	M 8	20	6.0	47
P2020.035-011	35	11.5	M10	48	3.0	80
P2020.035-040	35	40	M 8	23	8.0	68
P2020.040-012	40	12	M 8	23	3.0	120
P2020.040-020	40	20	M 8	23	4.0	117
P2020.040-025	40	25	M 8	20	6.0	117
P2020.040-030	40	30	M 8	20	8.0	100
P2020.040-040	40	40	M 8	20	10.0	85
P2020.040-045	40	45	M 8	20	12.0	85
P2020.045-030	45	30	M 8	23	8.0	110
P2020.045-050	45	50	M 8	35	12.0	85
P2020.050-010	50	10	M10	28	2.0	230
P2020.050-020	50	20	M10	25	4.0	250
P2020.050-025	50	25	M10	25	5.5	250
P2020.050-030	50	30	M10	25	8.0	150
P2020.050-035	50	35	M10	25	9.0	230

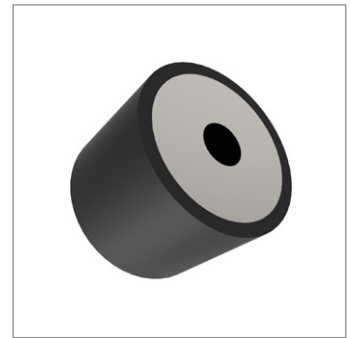
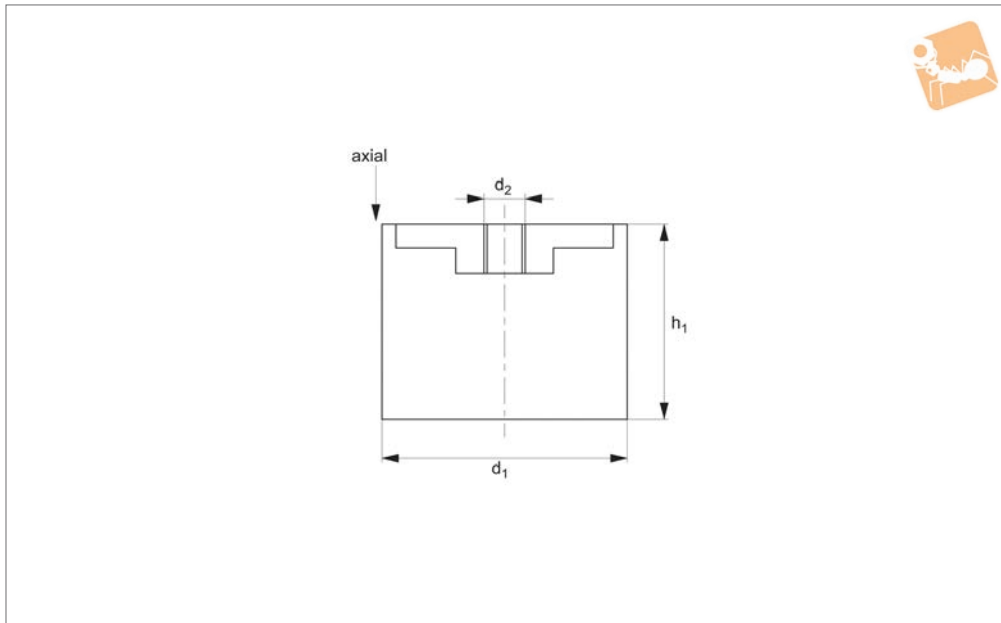


Order No.	d <sub>1</sub>	h <sub>1</sub>	d <sub>2</sub>	l <sub>1</sub>	Compression max.	Axial load kgf max.
P2020.050-045	50	45	M10	25	11.0	130
P2020.050-050	50	50	M10	25	12.0	125
P2020.050-060	50	60	M10	28	14.0	110
P2020.060-020	60	20	M10	28	4.0	280
P2020.060-030	60	30	M10	28	8.0	280
P2020.060-045	60	45	M10	30	10.0	190
P2020.060-050	60	50	M12	37	11.0	185
P2020.060-060	60	60	M10	30	12.0	185
P2020.070-045	70	45	M12	35	9.0	270
P2020.070-050	70	50	M12	35	10.0	250
P2020.070-055	70	55	M12	35	12.0	240
P2020.070-070	70	70	M10	30	13.0	300
P2020.075-025	75	25	M12	35	5.0	295
P2020.075-030	75	30	M12	37	8.0	320
P2020.075-040	75	40	M12	35	9.0	320
P2020.075-045	75	45	M12	35	10.0	500
P2020.075-055	75	55	M12	35	13.0	450
P2020.080-030	80	30	M14	35	5.5	900
P2020.080-040	80	40	M14	35	9.0	600
P2020.080-050	80	50	M14	35	10.0	750
P2020.080-070	80	70	M14	35	15.0	550
P2020.100-100	100	100	M16	56	19.0	500
P2020.110-124	110	124	M12	37	19.0	550
P2020.130-040	130	40	M16	45	6.0	550
P2020.130-050	130	50	M16	45	9.0	550
P2020.130-060	130	60	M16	56	14.0	680
P2020.130-075	130	75	M16	45	13.0	1450
P2020.130-100	130	100	M16	45	16.0	1200
P2020.150-050	150	50	M20	20	9.0	1800
P2020.150-060	150	60	M20	20	14.0	2200
P2020.150-075	150	75	M20	20	16.0	2000
P2020.150-100	150	100	M20	20	16.0	1400
P2020.150-120	150	120	M20	20	16.0	1300
P2020.150-140	150	140	M20	20	16.0	1200
P2020.095-040	95	40	M16	45	8.0	1200
P2020.095-055	95	55	M16	45	11.0	1000
P2020.095-060	95	60	M16	45	12.0	800
P2020.095-075	95	75	M16	45	13.0	700
P2020.100-040	100	40	M16	45	8.0	660
P2020.100-050	100	50	M16	56	10.0	550
P2020.100-055	100	55	M16	56	11.0	520
P2020.080-080	80	80	M14	50	18.0	370
P2020.100-060	100	60	M16	45	15.0	515



# Anti-vibration Feet female

## Anti-Vibration Components



**P2021**

ANTI-VIBRATION COMPONENTS

### Material

Rubber on silver zinc plated steel (rubber hardness - 55 Shore A).

### Tips

These feet or bumpers reduce shock and vibration.

Used widely as shock absorbers and feet for machine elements.

Order No.	d <sub>1</sub>	h <sub>1</sub>	d <sub>2</sub>	Compression max.	Axial load kgf max.
P2021.010-010	10	10	M 4	2	10
P2021.010-015	10	15	M 4	3	8
P2021.013-010	13	10	M 5	1.5	12
P2021.013-015	13	15	M 5	3	10
P2021.013-020	13	20	M 5	3.5	20
P2021.016-008	16	8	M 5	1.5	15
P2021.016-010	16	10	M 5	1.5	20
P2021.016-015	16	15	M 5	3	20
P2021.016-020	16	20	M 5	4	20
P2021.016-025	16	25	M 5	5	15
P2021.020-010	20	10	M 6	2	30
P2021.020-015	20	15	M 6	3	25
P2021.020-020	20	20	M 6	4	25
P2021.020-025	20	25	M 6	5	25
P2021.020-030	20	30	M 6	7	25
P2021.025-010	25	10	M 6	1.5	50
P2021.025-015	25	15	M 6	3	50
P2021.025-020	25	20	M 6	4	50
P2021.025-022	25	22	M 6	4	45
P2021.025-025	25	25	M 6	5	40
P2021.025-030	25	30	M 6	6	35
P2021.030-010	30	10	M 8	2	90
P2021.030-015	30	15	M 8	3	90
P2021.030-020	30	20	M 8	4	90
P2021.030-022	30	22	M 8	4	90
P2021.030-025	30	25	M 8	5	85
P2021.030-030	30	30	M 8	6	80
P2021.030-040	30	40	M 8	8	60
P2021.035-035	35	35	M 8	8	90
P2021.040-020	40	20	M 8	4	160
P2021.040-025	40	25	M 8	6	155
P2021.040-028	40	28	M 8	6	150
P2021.040-030	40	30	M 8	8	150
P2021.040-035	40	35	M 8	8	120



Order No.	d <sub>1</sub>	h <sub>1</sub>	d <sub>2</sub>	Compression max.	Axial load kgf max.
P2021.040-040	40	40	M 8	10	120
P2021.040-040-10	40	40	M10	10	120
P2021.040-045	40	45	M 8	12	110
P2021.050-040	50	40	M10	10	220
P2021.050-045	50	45	M10	11	210
P2021.050-050	50	50	M10	12	200
P2021.050-055	50	55	M10	13	200
P2021.100-060	100	60	M16	15	1100
P2021.100-075	100	75	M16	17	1000
P2021.120-050	120	50	M16	9	1500
P2021.120-075	120	75	M16	13	1200
P2021.120-100	120	100	M16	16	1000
P2021.130-040	130	40	M16	6	1900
P2021.130-050	130	50	M16	9	1600
P2021.130-075	130	75	M16	13	1450
P2021.130-100	130	100	M16	16	1200
P2021.150-040	150	40	M20	9	1800
P2021.150-060	150	60	M20	14	2200
P2021.150-075	150	75	M20	16	2000
P2021.150-100	150	100	M20	16	1400
P2021.150-120	150	120	M20	16	1300
P2021.150-140	150	140	M20	16	1200
P2021.050-020	50	20	M10	4	250
P2021.050-025	50	25	M10	5.5	250
P2021.050-030	50	30	M10	8	250
P2021.050-035	50	35	M10	9	230
P2021.075-045	75	45	M12	10	500
P2021.060-045	60	45	M10	10	300
P2021.080-050	80	50	M14	10	750
P2021.070-070	70	70	M10	13	300
P2021.075-055	75	55	M12	13	450
P2021.080-070	80	70	M14	15	550
P2021.095-040	95	40	M16	8	1200
P2021.095-055	95	55	M16	11	1000
P2021.095-060	95	60	M16	12	800
P2021.095-075	95	75	M16	13	700
P2021.060-060	60	60	M10	12	250
P2021.070-035	70	35	M10	7	450
P2021.075-025	75	25	M12	5	650
P2021.060-025	60	25	M10	5	400
P2021.060-035	60	35	M10	7	350
P2021.080-030	80	30	M14	5.5	900
P2021.080-040	80	40	M14	9	600
P2021.075-040	75	40	M12	9	500
P2021.100-040	100	40	M16	8	1200
P2021.070-050	70	50	M10	10	350