



J.W. WINCO,[®]
INC.

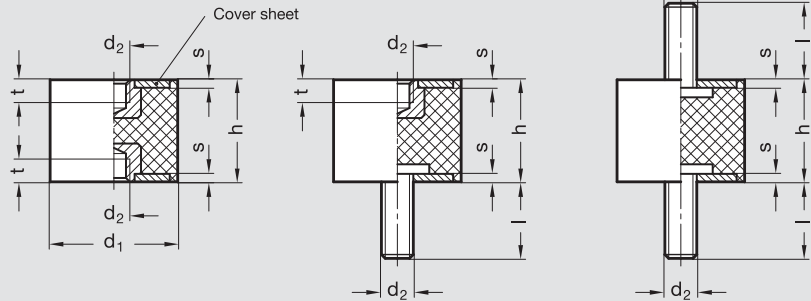


**Isolation and
Shock Absorption Mounts**



GN 351.1 / GN 351.2 / GN 351.3 | Vibration Isolation Mounts

Cylindrical Type • With Steel Components • Inch Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate

Steel, zinc plated, blue passivated, molded in

Tapped inserts/threaded studs

Steel, zinc plated, blue passivated, molded in

GN 351.1 with 2 threaded studs

GN 351.2 with 1 tapped hole
and 1 threaded stud

GN 351.3 with 2 tapped holes

GN 351.1 / GN 351.2 / GN 351.3 vibration isolation mounts, also known as vibration mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are suitable for the elastic mounting of machine units such as motors, compressors and pumps.

These rubber mounts are simple and economical construction elements. Their resilience and their broad range of different sizes and dimensions allow these mounts to be used in many applications that require vibration isolation.

Versions with 40 or 70 durometer natural rubber material available upon request in certain minimum quantities.

Specials, with certain minimum quantities, also available.

For metric versions see GN 351, pages 5 - 7.

GN 351.1 – With 2 Threaded Studs

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	l Stud Length	s	Spring Rate ~lbf./in.	Shear Load Spring Rate ~lbf./in.	Max. Load [lbf]	Max. Deflection ~in.	Shear Load Max. Deflection ~in.
351.1-9-13-8-55	.38 (10)	.50 (13)	8-32	.50 (13)	.04 (1)	205	.027	20	.10	.177
351.1-14-13-10-55	.56 (14)	.50 (13)	10-32	.38 (10)	.04 (1)	91	.080	13	.15	.276
351.1-16-13-8-55	.63 (16)	.50 (13)	8-32	.50 (13)	.05 (1.2)	440	.097	44	.10	.315
351.1-19-19-1/4-55	.75 (19)	.75 (19)	1/4-20	.50 (13)	.08 (2)	296	.106	58	.20	.374
351.1-25-13-1/4-55	1.00 (25)	.50 (13)	1/4-20	.50 (13)	.08 (2)	1043	.398	154	.15	.492
351.1-25-19-1/4-55	1.00 (25)	.75 (19)	1/4-20	.63 (16)	.08 (2)	684	.195	183	.15	.492
351.1-25-19-5/16-55	1.00 (25)	.75 (19)	5/16-18	.63 (16)	.08 (2)	1220	.195	183	.15	.492
351.1-25-25-1/4-55	1.00 (25)	1.00 (25)	1/4-20	.50 (13)	.08 (2)	670	.106	168	.25	.492

Table continued...



Part Number	d1	h	d2 Thread	I Stud Length	s	Spring Rate ~lbf./in.	Shear Load Spring Rate ~lbf./in.	Max. Load [lbf]	Max. Deflection ~in.	Shear Load Max. Deflection ~in.
351.1-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	616	.106	151	.25	.492
351.1-32-19-1/4-55	1.25 (32)	.75 (19)	1/4-20	.50 (13)	.08 (2)	1886	.398	283	.15	.630
351.1-32-19-5/16-55	1.25 (32)	.75 (19)	5/16-18	.63 (16)	.08 (2)	1425	.398	280	.20	.630
351.1-32-25-5/16-55	1.25 (32)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	1090	.239	273	.25	.630
351.1-35-25-5/16-55	1.38 (35)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	1344	.389	336	.25	.669
351.1-38-19-5/16-55	1.50 (38)	.75 (19)	5/16-18	.63 (16)	.08 (2)	2615	.664	523	.20	.748
351.1-38-25-3/8-55	1.50 (38)	1.00 (25)	3/8-16	.63 (16)	.08 (2)	1200	.460	300	.25	.748
351.1-40-25-3/8-55	1.56 (40)	1.00 (25)	3/8-16	.63 (16)	.08 (2)	2000	.469	500	.25	.787
351.1-40-25-5/16-55	1.56 (40)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	1710	.469	336	.20	.787
351.1-51-19-3/8-55	2.00 (51)	.75 (19)	3/8-16	1.13 (29)	.08 (2)	4093	1.151	804	.20	.984
351.1-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.63 (16)	.08 (2)	1955	.487	576	.30	.984
351.1-62-32-1/2-55	2.44 (62)	1.25 (32)	1/2-13	.88 (22)	.08 (2)	2582	.974	762	.30	1.181
351.1-79-57-1/2-55	3.13 (79)	2.25 (57)	1/2-13	1.25 (32)	3 (.12)	13281	.841	2607	.20	1.378

GN 351.2 – With 1 Tapped Hole and 1 Threaded Stud

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	I Stud Length	s	t	Spring Rate ~lbf./in.	Shear Load Spring Rate ~lbf./in.	Max. Load [lbf]	Max. Deflection ~in.	Shear Load Max. Deflection ~in.
351.2-16-13-8-55	.63 (16)	.50 (13)	8-32	.50 (13)	.05 (1.2)	.16 (4)	490	.097	73	.10	.315
351.2-25-13-1/4-55	1.00 (25)	.50 (13)	1/4-20	.50 (13)	.08 (2)	.24 (6)	11660	.398	1166	.10	.492
351.2-25-19-1/4-55	1.00 (25)	.75 (19)	1/4-20	.50 (13)	.08 (2)	.24 (6)	1445	.195	217	.15	.492
351.2-25-25-1/4-55	1.00 (25)	1.00 (25)	1/4-20	.50 (13)	.08 (2)	.24 (6)	800	.106	200	.25	.492
351.2-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	.31 (8)	800	.106	200	.25	.492
351.2-35-25-5/16-55	1.38 (35)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	.31 (8)	2000	.389	500	.25	.669
351.2-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.63 (16)	.08 (2)	.39 (10)	187	.487	748	.40	1.000
351.2-51-51-3/8-55	2.00 (51)	2.00 (51)	3/8-16	1.13 (29)	.08 (2)	.39 (10)	1364	.398	682	.50	1.000
351.2-79-57-1/2-55	3.13 (79)	2.25 (57)	1/2-13	1.25 (32)	3 (.12)	.47 (12)	3357	.841	1880	.56	1.378



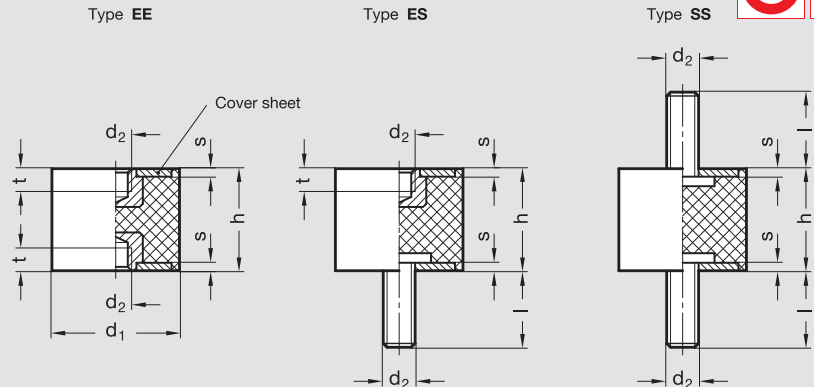
GN 351.3 – With 2 Tapped Holes

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~lbf./in.	Shear Load Spring Rate ~lbf./in.	Max. Load [lbf]	Max. Deflection ~in.	Shear Load Max. Deflection ~in.
351.3-16-13-8-55	.63 (16)	.50 (13)	8-32	.05 (1.2)	.16 (4)	1100	.097	110	.10	.315
351.3-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.08 (2)	.31 (8)	1713	.106	257	.15	.492
351.3-38-25-5/16-55	1.50 (38)	1.00 (25)	5/16-18	.08 (2)	.31 (8)	3400	.460	510	.15	.748
351.3-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.08 (2)	.39 (10)	1866	.487	560	.30	1.000

GN 351 | Vibration Isolation Mounts

Cylindrical Type • Metric Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate

Steel, zinc plated, blue passivated, molded in

Tapped inserts/threaded studs

Steel, zinc plated, blue passivated, molded in

Type EE with 2 tapped holes

Type ES with 1 tapped hole and 1 threaded stud

Type SS with 2 threaded studs

GN 351 vibration isolation mounts, also known as vibration mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are suitable for the elastic mounting of machine units such as motors, compressors and pumps.

These rubber mounts are simple and economical construction elements. Their resilience and their broad range of different sizes and dimensions allow these mounts to be used in many applications that require vibration isolation.

Versions with 40 or 70 durometer natural rubber material available upon request.

Specials, with certain minimum quantities, also available.

For inch versions see GN 351.1 / 351.2 / 351.3, pages 2 - 3.

Type EE - With 2 Tapped Holes

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Shear Load Spring Rate N/mm	Max. Load [N]	Max. Deflection ~mm	Shear Load Max. Deflection mm
351-8-8-M3-EE-55	8 (.31)	8	M3 x .6	1 (.04)	3 (.12)	35	2.5	75	2	4
351-10-10-M4-EE-55	10	10	M4 x .7	1.2 (.05)	4 (.16)	36	10	90	2.5	5
351-10-15-M4-EE-55	(.39)	15				17	4.8	65	3.75	5
351-15-10-M4-EE-55	15 (.59)	10	M4 x .7	1.4 (.06)	4 (.16)	80	30	200	2.5	7
351-15-15-M4-EE-55		15				36	18	135	3.75	7
351-15-20-M4-EE-55		20				30	6.5	152	5	7
351-20-15-M6-EE-55	20 (.79)	15	M6 x 1.0	2 (.08)	6 (.24)	95	65	355	3.75	10
351-20-20-M6-EE-55		20				53	15	267	5	10
351-20-25-M6-EE-55		25				50	13	315	6.25	10
351-25-20-M6-EE-55	25 (.98)	20	M6 x 1.0	2 (.08)	6 (.24)	121	40	605	5	12.5
351-25-25-M6-EE-55		25				85	30	530	6.25	12.5
351-25-30-M6-EE-55		30				77	22	575	7.5	12.5
351-30-30-M8-EE-55	30	30	M8 x 1.25	2 (.08)	8 (.31)	114	40	855	7.5	15
351-30-40-M8-EE-55	(1.18)	40				76	15	757	10	15
351-40-30-M8-EE-55	40	30	M8 x 1.25	2 (.08)	8 (.31)	205	105	1535	7.5	20
351-40-40-M8-EE-55	(1.57)	40				164	40	1635	10	20

Table continued...



Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Shear Load Spring Rate N/mm	Max. Load [N]	Max. Deflection ~mm	Shear Load Max. Deflection mm
351-50-30-M10-EE-55	50 (1.97)	30	M10 x 1.5	2 (.08)	10 (.39)	343	110	2570	7.5	25
351-50-40-M10-EE-55		40				245	70	2445	10	25
351-50-50-M10-EE-55		50				178	35	2225	12.5	25
351-60-30-M10-EE-55	60 (2.36)	30	M10 x 1.5	2 (.08)	10 (.39)	453	109	3400	7.5	30
351-60-40-M10-EE-55		40				330	84	3300	10	30
351-70-45-M10-EE-55	70 (2.76)	45	M10 x 1.5	3 (.12)	10 (.39)	356	100	4000	11.25	35
351-75-40-M12-EE-55	75 (2.95)	40	M12 x 1.75	3 (.12)	12 (.47)	465	160	4650	10	35
351-75-55-M12-EE-55		55				327	85	4500	13.75	35
351-100-40-M16-EE-55	100 (3.94)	40	M16 x 2.0	3 (.12)	16 (.63)	800	240	8000	10	50
351-100-55-M16-EE-55		55				560	200	7700	13.75	50
351-100-75-M16-EE-55		75				384	100	7200	18.75	50

Type ES – With 1 Tapped Hole and 1 Threaded Stud

Dimensions in: millimeters (inches)

Part Number	d1	h	d2 Thread	l Stud Length	s	t	Spring Rate ~N/mm	Shear Load Spring Rate N/mm	Max. Load [N]	Max. Deflection ~mm	Shear Load Max. Deflection mm
351-8-8-M3-ES-55	8 (.31)	8	M3 x .6	6 (.24)	1 (.04)	3 (.12)	35	2.2	75	2	4
351-10-10-M4-ES-55	10 (.39)	10	M4 x .7	10 (.39)	1.2 (.05)	4 (.16)	36	9	90	2.5	5
351-10-15-M4-ES-55		15					17	4.6	65	3.75	5
351-15-10-M4-ES-55	15 (.59)	10	M4 x .7	10 (.39)	1.4 (.06)	4 (.16)	80	22.3	200	2.5	7
351-15-15-M4-ES-55		15					35	10	130	3.75	7
351-15-20-M4-ES-55		20					30	6.2	150	5	7
351-20-15-M6-ES-55	20 (.79)	15	M6 x 1.0	18 (.71)	2 (.08)	6 (.24)	95	27	355	3.75	10
351-20-20-M6-ES-55		20					53	15	265	5	10
351-20-25-M6-ES-55		25					50	13	315	6.25	10
351-25-15-M6-ES-55	25 (.98)	15	M6 x 1.0	18 (.71)	2 (.08)	6 (.24)	184	35	690	3.75	12.5
351-25-20-M6-ES-55		20					121	28	605	5	12.5
351-25-30-M6-ES-55		30					76	21	570	7.5	12.5
351-30-15-M8-ES-55	30 (1.18)	15	M8 x 1.25	20 (.79)	2 (.08)	8 (.31)	143	60	535	3.75	15
351-30-30-M8-ES-55		30					113	30	850	7.5	15
351-40-20-M8-ES-55	40 (1.57)	20	M8 x 1.25	23 (.91)	2 (.08)	8 (.31)	302	82	1510	5	15
351-40-30-M8-ES-55		30					204	55	1530	7.5	20
351-40-40-M8-ES-55		40					163	35	1630	10	20
351-50-20-M10-ES-55	50 (1.97)	20	M10 x 1.5	28 (1.10)	2 (.08)	10 (.39)	720	100	3600	5	20
351-50-30-M10-ES-55		30					343	75	2575	7.5	25
351-50-40-M10-ES-55		40					244	60	2440	10	25
351-50-50-M10-ES-55		50					176	30	2200	12.5	25
351-60-30-M10-ES-55	60 (2.36)	30	M10 x 1.5	28 (1.10)	2 (.08)	10 (.39)	453	101	3400	7.5	30
351-60-40-M10-ES-55		40					333	80	3330	10	30
351-70-45-M10-ES-55	70 (2.76)	45	M10 x 1.5	27 (1.06)	3 (.12)	10 (.39)	356	79	4000	11.25	35
351-75-40-M12-ES-55	75 (2.95)	40	M12 x 1.75	37 (1.46)	3 (.12)	12 (.47)	460	120	4600	10	35
351-75-55-M12-ES-55		55					328	80	4510	13.75	35
351-100-40-M16-ES-55	100 (3.94)	40	M16 x 2.0	41 (1.61)	3 (.12)	16 (.63)	800	200	8000	10	50
351-100-55-M16-ES-55		55					553	150	7600	13.75	50
351-100-75-M16-ES-55		75					379	100	7100	18.75	50



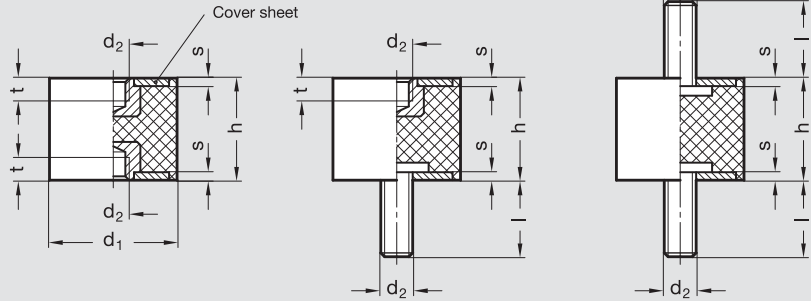
Type SS – With 2 Threaded Studs

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	l Stud Length	s	Spring Rate ~N/mm	Shear Load Spring Rate N/mm	Max. Load [N]	Max. Deflection ~mm	Shear Load Max. Deflection mm
351-8-8-M3-SS-55	8 (.31)	8	M3 x .6	6 (.24)	1 (.04)	35	2	70	2	4
351-10-10-M4-SS-55	10 (.39)	10	M4 x .7	10 (.39)	1.2 (.05)	36	3	89	2.5	5
351-10-15-M4-SS-55		15				16	4	60	3.75	5
351-15-10-M4-SS-55	15 (.59)	10	M4 x .7	10 (.39)	1.4 (.06)	79	11	198	2.5	7
351-15-15-M4-SS-55		15				33	8	125	3.75	7
351-15-20-M4-SS-55		20				29	6	145	5	7
351-20-15-M6-SS-55	20 (.79)	15	M6 x 1.0	18 (.71)	2 (.08)	94	15	352	3.75	10
351-20-20-M6-SS-55		20				52	7	260	5	10
351-20-25-M6-SS-55		25				50	6	310	6.25	10
351-25-15-M6-SS-55	25 (.98)	15	M6 x 1.0	18 (.71)	2 (.08)	183	30	687	3.75	12.5
351-25-20-M6-SS-55		20				120	17	602	5	12.5
351-25-30-M6-SS-55		30				75	15	562	7.5	12.5
351-30-15-M8-SS-55	30 (1.18)	15	M8 x 1.25	20 (.79)	2 (.08)	142	53	534	3.75	15
351-30-30-M8-SS-55		30				112	20	843	7.5	15
351-40-20-M8-SS-55	40 (1.57)	20	M8 x 1.25	23 (.91)	2 (.08)	300	76	1500	5	15
351-40-30-M8-SS-55		30				204	50	1527	7.5	20
351-40-40-M8-SS-55		40				162	27	1620	10	20
351-50-20-M10-SS-55	50 (1.97)	20	M10 x 1.5	28 (1.10)	2 (.08)	718	95	3589	5	20
351-50-30-M10-SS-55		30				343	66	2570	7.5	25
351-50-40-M10-SS-55		40				244	59	2436	10	25
351-50-50-M10-SS-55		50				176	45	2198	12.5	25
351-60-30-M10-SS-55	60 (2.36)	30	M10 x 1.5	28 (1.10)	2 (.08)	453	96	3400	7.5	30
351-60-40-M10-SS-55		40				330	75	3300	10	30
351-70-45-M10-SS-55	70 (2.76)	45	M10 x 1.5	27 (1.06)	3 (.12)	356	116	4000	11.25	35
351-75-40-M12-SS-55	75 (2.95)	40	M12 x 1.75	37 (1.46)	3 (.12)	450	130	4500	10	35
351-75-55-M12-SS-55		55				320	120	4400	13.75	35
351-100-40-M16-SS-55	100 (3.94)	40	M16 x 2.0	41 (1.61)	3 (.12)	800	220	8000	10	50
351-100-55-M16-SS-55		55				545	210	7500	13.75	50
351-100-75-M16-SS-55		75				373	200	7000	18.75	50

GN 451.1 / GN 451.2 / GN 451.3 | Vibration Isolation Mounts

Cylindrical Types • With Stainless Steel Components • Inch Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate

Stainless steel

Tapped inserts/threaded studs

Stainless steel, molded in

GN 451.1 with 2 threaded studs

GN 451.2 with 1 tapped hole and 1 threaded stud

GN 451.3 with 2 tapped holes

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These rubber mounts are simple and economical construction elements. Their resilience and their broad range of different sizes and dimensions allow these mounts to be used in many applications that require vibration isolation.

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Specials, with certain minimum quantities, also available.

For metric versions see GN 451, pages 11 - 13.

GN 451.1 – With 2 Threaded Studs

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	l Stud Length	s	Spring Rate ~lbf./in.	Shear Load Spring Rate ~lbf./in.	Max. Load [lbf]	Max. Deflection ~in.	Shear Load Max. Deflection ~in.
451.1-9-13-8-55	.38 (10)	.50 (13)	8-32	.50 (13)	.04 (1)	205	.027	20	.10	.177
451.1-14-13-10-55	.56 (14)	.50 (13)	10-32	.38 (10)	.04 (1)	91	.080	13	.15	.276
451.1-16-13-8-55	.63 (16)	.50 (13)	8-32	.50 (13)	.05 (1.2)	440	.097	44	.10	.315
451.1-19-19-1/4-55	.75 (19)	.75 (19)	1/4-20	.50 (13)	.08 (2)	296	.106	58	.20	.374
451.1-25-13-1/4-55	1.00 (25)	.50 (13)	1/4-20	.50 (13)	.08 (2)	1043	.398	154	.15	.492
451.1-25-19-1/4-55	1.00 (25)	.75 (19)	1/4-20	.63 (16)	.08 (2)	684	.195	183	.15	.492
451.1-25-19-5/16-55	1.00 (25)	.75 (19)	5/16-18	.63 (16)	.08 (2)	1220	.195	183	.15	.492
451.1-25-25-1/4-55	1.00 (25)	1.00 (25)	1/4-20	.50 (13)	.08 (2)	670	.106	168	.25	.492

Table continued...

Part Number	d1	h	d2 Thread	I Stud Length	s	Spring Rate ~lbf./in.	Shear Load Spring Rate ~lbf./in.	Max. Load [lbf]	Max. Deflection ~in.	Shear Load Max. Deflection ~in.
451.1-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	616	.106	151	.25	.492
451.1-32-19-1/4-55	1.25 (32)	.75 (19)	1/4-20	.50 (13)	.08 (2)	1886	.398	283	.15	.630
451.1-32-19-5/16-55	1.25 (32)	.75 (19)	5/16-18	.63 (16)	.08 (2)	1425	.398	280	.20	.630
451.1-32-25-5/16-55	1.25 (32)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	1090	.239	273	.25	.630
451.1-35-25-5/16-55	1.38 (35)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	1344	.389	336	.25	.669
451.1-38-19-5/16-55	1.50 (38)	.75 (19)	5/16-18	.63 (16)	.08 (2)	2615	.664	523	.20	.748
451.1-38-25-3/8-55	1.50 (38)	1.00 (25)	3/8-16	.63 (16)	.08 (2)	1200	.460	300	.25	.748
451.1-40-25-3/8-55	1.56 (40)	1.00 (25)	3/8-16	.63 (16)	.08 (2)	2000	.469	500	.25	.787
451.1-40-25-5/16-55	1.56 (40)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	1710	.469	336	.20	.787
451.1-51-19-3/8-55	2.00 (51)	.75 (19)	3/8-16	1.13 (29)	.08 (2)	4093	1.151	804	.20	.984
451.1-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.63 (16)	.08 (2)	1955	.487	576	.30	.984
451.1-62-32-1/2-55	2.44 (62)	1.25 (32)	1/2-13	.88 (22)	.08 (2)	2582	.974	762	.30	1.181
451.1-79-57-1/2-55	3.13 (79)	2.25 (57)	1/2-13	1.25 (32)	3 (.12)	13281	.841	2607	.20	1.378

GN 451.2 – With 1 Tapped Hole and 1 Threaded Stud

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	I Stud Length	s	t	Spring Rate ~lbf./in.	Shear Load Spring Rate ~lbf./in.	Max. Load [lbf]	Max. Deflection ~in.	Shear Load Max. Deflection ~in.
451.2-16-13-8-55	.63 (16)	.50 (13)	8-32	.50 (13)	.05 (1.2)	.16 (4)	490	.097	73	.10	.315
451.2-25-13-1/4-55	1.00 (25)	.50 (13)	1/4-20	.50 (13)	.08 (2)	.24 (6)	11660	.398	1166	.10	.492
451.2-25-19-1/4-55	1.00 (25)	.75 (19)	1/4-20	.50 (13)	.08 (2)	.24 (6)	1445	.195	217	.15	.492
451.2-25-25-1/4-55	1.00 (25)	1.00 (25)	1/4-20	.50 (13)	.08 (2)	.24 (6)	800	.106	200	.25	.492
451.2-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	.31 (8)	800	.106	200	.25	.492
451.2-35-25-5/16-55	1.38 (35)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	.31 (8)	2000	.389	500	.25	.669
451.2-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.63 (16)	.08 (2)	.39 (10)	187	.487	748	.40	1.000
451.2-51-51-3/8-55	2.00 (51)	2.00 (51)	3/8-16	1.13 (29)	.08 (2)	.39 (10)	1364	.398	682	.50	1.000
451.2-79-57-1/2-55	3.13 (79)	2.25 (57)	1/2-13	1.25 (32)	3 (.12)	.47 (12)	3357	.841	1880	.56	1.378



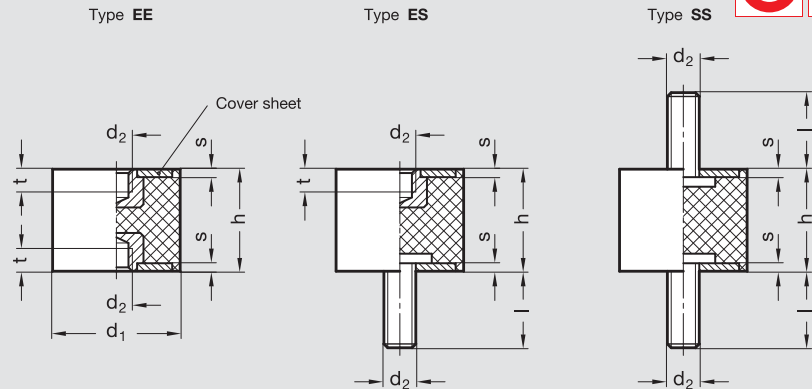
GN 451.3 – With 2 Tapped Holes

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~lbf./in.	Shear Load Spring Rate ~lbf./in.	Max. Load [lbf]	Max. Deflection ~in.	Shear Load Max. Deflection ~in.
451.3-19-13-8-55	.75 (19)	.50 (13)	8-32	.05 (1.2)	.16 (4)	1100	.097	110	.10	.315
451.3-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.08 (2)	.31 (8)	1713	.106	257	.15	.492
451.3-38-25-5/16-55	1.50 (38)	1.00 (25)	5/16-18	.08 (2)	.31 (8)	3400	.460	510	.15	.748
451.3-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.08 (2)	.39 (10)	1866	.487	560	.30	1.000

GN 451 | Vibration Isolation Mounts

Cylindrical Type • With Stainless Steel Components • Metric Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate, tapped inserts, threaded studs

Stainless steel, European Standard No. 1.4301 (American Standard Series 304)

Type EE with 2 tapped holes

Type ES with 1 tapped hole and 1 threaded stud

Type SS with 2 threaded studs

GN 451 vibration isolation mounts, also known as vibration mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are suitable for the elastic mounting of machine units such as motors, compressors and pumps.

These rubber mounts are simple and economical construction elements. Their resilience and their broad range of different sizes and dimensions allow these mounts to be used in many applications that require vibration isolation.

Versions with 40 or 70 durometer natural rubber material available upon request.

Specials, with certain minimum quantities, also available.

For inch versions see GN 451.1 / 451.2 / 451.3, pages 8 - 10.

Type EE – With 2 Tapped Holes

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Shear Load Spring Rate N/mm	Max. Load [N]	Max. Deflection ~mm	Shear Load Max. Deflection mm
451-8-8-M3-EE-55	8 (.31)	8	M3 x .6	1 (.04)	3 (.12)	35	2.5	75	2	4
451-10-10-M4-EE-55	10 (.39)	10	M4 x .7	1.2 (.05)	4 (.16)	36	10	90	2.5	5
451-10-15-M4-EE-55		15		17	4.8	65	3.75	5		
451-15-10-M4-EE-55	15 (.59)	10	M4 x .7	1.4 (.06)	4 (.16)	80	30	200	2.5	7
451-15-15-M4-EE-55		15				36	18	135	3.75	7
451-15-20-M4-EE-55		20				30	6.5	152	5	7
451-20-15-M6-EE-55	20 (.79)	15	M6 x 1.0	2 (.08)	6 (.24)	95	65	355	3.75	10
451-20-20-M6-EE-55		20				53	15	267	5	10
451-20-25-M6-EE-55		25				50	13	315	6.25	10
451-25-20-M6-EE-55	25 (.98)	20	M6 x 1.0	2 (.08)	6 (.24)	121	40	605	5	12.5
451-25-25-M6-EE-55		25				85	30	530	6.25	12.5
451-25-30-M6-EE-55		30				77	22	575	7.5	12.5
451-30-30-M8-EE-55	30 (1.18)	30	M8 x 1.25	2 (.08)	8 (.31)	114	40	855	7.5	15
451-30-40-M8-EE-55		40				76	15	757	10	15

Table continued...



Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Shear Load Spring Rate N/mm	Max. Load [N]	Max. Deflection ~mm	Shear Load Max. Deflection mm		
451-40-30-M8-EE-55	40	30	M8 x 1.25	2	8	205	105	1535	7.5	20		
451-40-40-M8-EE-55	(1.57)	40		(.08)	(.31)	164	40	1635	10	20		
451-50-30-M10-EE-55	50	30	M10 x 1.5	2	10	343	110	2570	7.5	25		
451-50-40-M10-EE-55		40				(.08)	(.39)	245	70	2445	10	25
451-50-50-M10-EE-55		50				(.08)	(.39)	178	35	2225	12.5	25
451-60-30-M10-EE-55	60	30	M10 x 1.5	2	10	453	109	3400	7.5	30		
451-60-40-M10-EE-55	(2.36)	40				(.08)	(.39)	330	84	3300	10	30
451-70-45-M10-EE-55	70	45	M10 x 1.5	3	10	356	100	4000	11.25	35		
451-75-40-M12-EE-55	75	40	M12 x 1.75	3	12	465	160	4650	10	35		
451-75-55-M12-EE-55	(2.95)	55				(.12)	(.47)	327	85	4500	13.75	35
451-100-40-M16-EE-55	100	40	M16 x 2.0	3	16	800	240	8000	10	50		
451-100-55-M16-EE-55		55				(.12)	(.63)	560	200	7700	13.75	50
451-100-75-M16-EE-55		75				(.12)	(.63)	384	100	7200	18.75	50

Type ES – With 1 Tapped Hole and 1 Threaded Stud

Dimensions in: millimeters (inches)

Part Number	d1	h	d2 Thread	l Stud Length	s	t	Spring Rate ~N/mm	Shear Load Spring Rate N/mm	Max. Load [N]	Max. Deflection ~mm	Shear Load Max. Deflection mm			
451-8-8-M3-ES-55	8	8	M3 x .6	6	1	3	35	2.2	75	2	4			
451-10-10-M4-ES-55	10	10	M4 x .7	10	1.2	4	36	9	90	2.5	5			
451-10-15-M4-ES-55	(.39)	15					(.39)	(.05)	(.16)	17	4.6	65	3.75	5
451-15-10-M4-ES-55	15	10	M4 x .7	10	1.4	4	80	22.3	200	2.5	7			
451-15-15-M4-ES-55		15					(.39)	(.06)	(.16)	35	10	130	3.75	7
451-15-20-M4-ES-55		20					(.59)	(.06)	(.16)	30	6.2	150	5	7
451-20-15-M6-ES-55	20	15	M6 x 1.0	18	2	6	95	27	355	3.75	10			
451-20-20-M6-ES-55		20					(.79)	(.08)	(.24)	53	15	265	5	10
451-20-25-M6-ES-55		25					(.79)	(.08)	(.24)	50	13	315	6.25	10
451-25-15-M6-ES-55	25	15	M6 x 1.0	18	2	6	184	35	690	3.75	12.5			
451-25-20-M6-ES-55		20					(.98)	(.08)	(.24)	121	28	605	5	12.5
451-25-30-M6-ES-55		30					(.98)	(.08)	(.24)	76	21	570	7.5	12.5
451-30-15-M8-ES-55	30	15	M8 x 1.25	20	2	8	143	60	535	3.75	15			
451-30-30-M8-ES-55	(1.18)	30					(.79)	(.08)	(.31)	113	30	850	7.5	15
451-40-20-M8-ES-55	40	20	M8 x 1.25	23	2	8	302	82	1510	5	15			
451-40-30-M8-ES-55		30					(1.57)	(.08)	(.31)	204	55	1530	7.5	20
451-40-40-M8-ES-55		40					(1.57)	(.08)	(.31)	163	35	1630	10	20
451-50-20-M10-ES-55	50	20	M10 x 1.5	28	2	10	720	100	3600	5	20			
451-50-30-M10-ES-55		30					(1.97)	(.08)	(.39)	343	75	2575	7.5	25
451-50-40-M10-ES-55		40					(1.97)	(.08)	(.39)	244	60	2440	10	25
451-50-50-M10-ES-55		50					(1.97)	(.08)	(.39)	176	30	2200	12.5	25
451-60-30-M10-ES-55	60	30	M10 x 1.5	28	2	10	453	101	3400	7.5	30			
451-60-40-M10-ES-55	(2.36)	40					(1.10)	(.08)	(.39)	333	80	3330	10	30
451-70-45-M10-ES-55	70	45	M10 x 1.5	27	3	10	356	79	4000	11.25	35			
451-75-40-M12-ES-55	75	40	M12 x 1.75	37	3	12	460	120	4600	10	35			
451-75-55-M12-ES-55	(2.95)	55					(1.46)	(.12)	(.47)	328	80	4510	13.75	35
451-100-40-M16-ES-55	100	40	M16 x 2.0	41	3	16	800	200	8000	10	50			
451-100-55-M16-ES-55		55					(3.94)	(.12)	(.63)	553	150	7600	13.75	50
451-100-75-M16-ES-55		75					(3.94)	(.12)	(.63)	379	100	7100	18.75	50



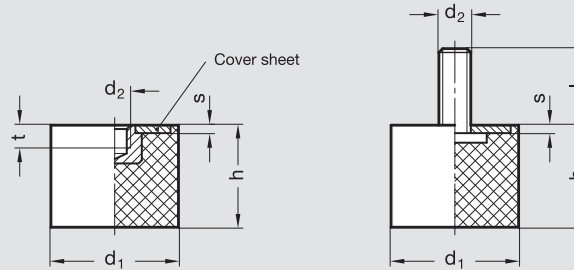
Type SS – With 2 Threaded Studs

Dimensions in: millimeters (inches)

Part Number	d1	h	d2 Thread	l Stud Length	s	Spring Rate ~N/mm	Shear Load Spring Rate N/mm	Max. Load [N]	Max. Deflection ~mm	Shear Load Max. Deflection mm
451-8-8-M3-SS-55	8 (.31)	8	M3 x .6	6 (.24)	1 (.04)	35	2	70	2	4
451-10-10-M4-SS-55	10 (.39)	10	M4 x .7	10 (.39)	1.2 (.05)	36	3	89	2.5	5
451-10-15-M4-SS-55		15				16	4	60	3.75	5
451-15-10-M4-SS-55	15 (.59)	10	M4 x .7	10 (.39)	1.4 (.06)	79	11	198	2.5	7
451-15-15-M4-SS-55		15				33	8	125	3.75	7
451-15-20-M4-SS-55		20				29	6	145	5	7
451-20-15-M6-SS-55	20 (.79)	15	M6 x 1.0	18 (.71)	2 (.08)	94	15	352	3.75	10
451-20-20-M6-SS-55		20				52	7	260	5	10
451-20-25-M6-SS-55		25				50	6	310	6.25	10
451-25-15-M6-SS-55	25 (.98)	15	M6 x 1.0	18 (.71)	2 (.08)	183	30	687	3.75	12.5
451-25-20-M6-SS-55		20				120	17	602	5	12.5
451-25-30-M6-SS-55		30				75	15	562	7.5	12.5
451-30-15-M8-SS-55	30 (1.18)	15	M8 x 1.25	20 (.79)	2 (.08)	142	53	534	3.75	15
451-30-30-M8-SS-55		30				112	20	843	7.5	15
451-40-20-M8-SS-55	40 (1.57)	20	M8 x 1.25	23 (.91)	2 (.08)	300	76	1500	5	15
451-40-30-M8-SS-55		30				204	50	1527	7.5	20
451-40-40-M8-SS-55		40				162	27	1620	10	20
451-50-20-M10-SS-55	50 (1.97)	20	M10 x 1.5	28 (1.10)	2 (.08)	718	95	3589	5	20
451-50-30-M10-SS-55		30				343	66	2570	7.5	25
451-50-40-M10-SS-55		40				244	59	2436	10	25
451-50-50-M10-SS-55		50				176	45	2198	12.5	25
451-60-30-M10-SS-55	60 (2.36)	30	M10 x 1.5	28 (1.10)	2 (.08)	453	96	3400	7.5	30
451-60-40-M10-SS-55		40				330	75	3300	10	30
451-70-45-M10-SS-55	70 (2.76)	45	M10 x 1.5	27 (1.06)	3 (.12)	356	116	4000	11.25	35
451-75-40-M12-SS-55	75 (2.95)	40	M12 x 1.75	37 (1.46)	3 (.12)	450	130	4500	10	35
451-75-55-M12-SS-55		55				320	120	4400	13.75	35
451-100-40-M16-SS-55	100 (3.94)	40	M16 x 2.0	41 (1.61)	3 (.12)	800	220	8000	10	50
451-100-55-M16-SS-55		55				545	210	7500	13.75	50
451-100-75-M16-SS-55		75				373	200	7000	18.75	50

GN 352.1 / GN 352.2 | Vibration / Shock Absorption Mounts

Cylindrical Type • With Steel Components • Inch Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate

Steel, zinc plated, blue passivated, molded in

Tapped inserts/threaded studs

Steel, zinc plated, blue passivated, molded in

GN 352.1 with threaded stud

GN 352.2 with tapped hole

GN 352.1 / GN 352.2 vibration / shock absorption mounts, also known as vibration isolation mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are used as end-stop bumpers, e.g., for conveyor trolleys.

They absorb most of the accumulated kinetic energy on impact. They act as dampers and prevent damaging shock and rebound. They also act as sound dampers.

These mounts are also used as leveling feet.

Versions with 40 or 70 durometer natural rubber material available upon request in certain minimum quantities.

Specials, with certain minimum quantities, also available.

For metric versions see GN 352, pages 16 - 17.

GN 352.1 – With Threaded Stud

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	l Stud Length	s	Spring Rate ~lbf./in.	Max. Load [lbf.]	Max. Deflection ~in.
352.1-25-13-1/4-55	1.00 (25)	.50 (13)	1/4-20	.50 (13)	.08 (2)	21400	214	.10
352.1-25-19-1/4-55	1.00 (25)	.75 (19)	1/4-20	.50 (13)	.08 (2)	993	140	.15
352.1-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	604	151	.25
352.1-38-19-5/16-55	1.50 (38)	.75 (19)	5/16-18	.63 (16)	.08 (2)	2653	398	.15
352.1-40-25-3/8-55	1.56 (40)	1.00 (25)	3/8-16	.63 (16)	.08 (2)	1736	434	.25
352.1-40-25-5/16-55	1.56 (40)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	1736	434	.25
352.1-51-19-3/8-55	2.00 (51)	.75 (19)	3/8-16	1.13 (29)	.08 (2)	5533	830	.15
352.1-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.63 (16)	.08 (2)	1600	640	.40



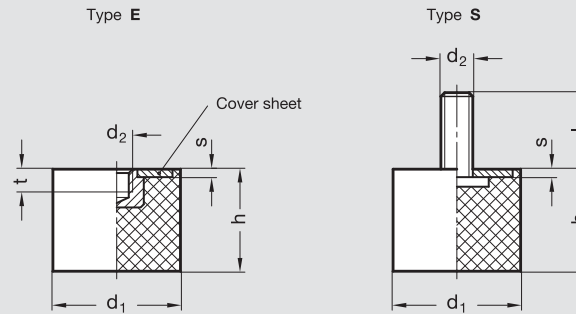
GN 352.2 – With Tapped Hole

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~lbf./in.	Max. Load [lbf.]	Max.Deflection ~in.
352.2-25-13-1/4-55	1.00 (25)	.50 (13)	1/4-20	.08 (2)	.24 (6)	2050	205	.10
352.2-25-19-1/4-55	1.00 (25)	.75 (19)	1/4-20	.08 (2)	.24 (6)	946	142	.15
352.2-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.08 (2)	.31 (8)	760	190	.25
352.2-38-19-5/16-55	1.50 (38)	.75 (19)	5/16-18	.08 (2)	.31 (8)	2940	441	.15
352.2-38-25-5/16-55	1.50 (38)	1.00 (25)	5/16-18	.08 (2)	.31 (8)	1600	400	.25
352.2-38-25-3/8-55	1.50 (38)	1.00 (25)	3/8-16	.08 (2)	.39 (10)	1600	400	.25
352.2-51-19-3/8-55	2.00 (51)	.75 (19)	3/8-16	.08 (2)	.39 (10)	6966	1045	.15
352.2-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.08 (2)	.39 (10)	1675	670	.40

GN 352 | Vibration / Shock Absorption Mounts

Cylindrical Type • Metric Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate

Steel, zinc plated, blue passivated, molded in

Tapped inserts/threaded studs

Steel, zinc plated, blue passivated, molded in

Type E with tapped hole

Type S with threaded stud

GN 352 vibration / shock absorption mounts, also known as vibration isolation mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are used as end-stop bumpers, e.g., for conveyor trolleys.

They absorb most of the accumulated kinetic energy on impact. They act as dampers and prevent damaging shock and rebound. They also act as sound dampers.

These mounts are also used as leveling feet.

Versions with 40 or 70 durometer natural rubber material available upon request.

Specials, with certain minimum quantities, also available.

For inch versions see GN 352.1 / 352.2, pages 14 - 15.

Type E – With Tapped Hole

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
352-10-10-M4-E-55	10 (.39)	10	M4 x .7	1.2 (.05)	4 (.16)	24	59	2.5
352-15-15-M4-E-55	15 (.59)	15	M4 x .7	1.4 (.06)	4 (.16)	64	241	3.75
352-15-20-M4-E-55		20				57	287	5
352-20-15-M6-E-55	20 (.79)	15	M6 x 1.0	2 (.08)	6 (.24)	77	289	3.75
352-20-20-M6-E-55		20				60	302	5
352-20-25-M6-E-55		25				48	297	6.25
352-25-15-M6-E-55	25 (.98)	15	M6 x 1.0	2 (.08)	6 (.24)	163	612	3.75
352-25-20-M6-E-55		20				112	560	5
352-25-30-M6-E-55		30				68	509	7.5
352-30-15-M8-E-55	30 (1.18)	15	M8 x 1.25	2 (.08)	8 (.31)	249	934	3.75
352-30-20-M8-E-55		20				185	924	5
352-40-20-M8-E-55		20				247	1235	5
352-40-30-M8-E-55	40 (1.57)	30	M8 x 1.25	2 (.08)	8 (.31)	213	1600	7.5
352-40-40-M8-E-55		40				182	1820	10
352-50-20-M10-E-55		20				517	2587	5
352-50-30-M10-E-55	50 (1.97)	30	M10 x 1.5	2 (.08)	10 (.39)	327	2453	7.5
352-50-40-M10-E-55		40				247	2468	10

Table continued...



Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
352-60-30-M10-E-55	60	30	M10 x 1.5	2 (.08)	10 (.39)	467	3500	7.5
352-60-50-M10-E-55	(2.36)	50				269	3367	12.5
352-70-40-M10-E-55	70	40	M10 x 1.5	3 (.12)	10 (.39)	410	4100	10
352-70-55-M10-E-55	(2.76)	55				327	4500	12.5
352-75-30-M12-E-55	75 (2.95)	30	M12 x 1.75	3 (.12)	12 (.47)	600	4500	7.5
352-75-40-M12-E-55		40				450	4500	10
352-75-50-M12-E-55		50				352	4400	12.5
352-100-40-M16-E-55	100 (3.94)	40	M16 x 2.0	3 (.12)	16 (.63)	810	8100	10
352-100-50-M16-E-55		50				640	8000	12.5
352-100-60-M16-E-55		60				520	7800	15

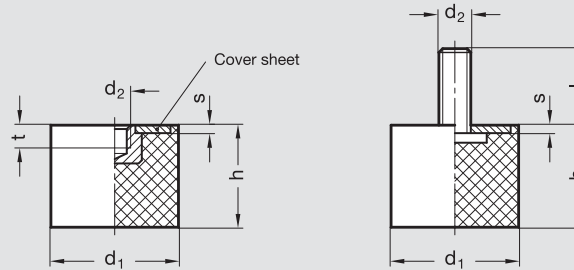
Type S – With Threaded Stud

Dimensions in: millimeters (inches)

Part Number	d1	h	d2 Thread	l Stud Length	s	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
352-8-8-M3-S-55	8 (.31)	8	M3 x .5	6 (.24)	1 (.04)	20	40	2
352-10-10-M4-S-55	10 (.39)	10	M4 x .7	10 (.39)	1.2 (.05)	24	59	2.5
352-10-15-M4-S-55		15				21	78	3.75
352-15-10-M4-S-55	15 (.59)	10	M4 x .7	10 (.39)	1.4 (.06)	77	154	2
352-15-15-M4-S-55		15				64	241	3.75
352-15-20-M4-S-55		20				57	287	5
352-15-30-M4-S-55		30				48	300	6.25
352-20-10-M6-S-55	20 (.79)	10	M6 x 1.0	18 (.71)	2 (.08)	126	315	2.5
352-20-15-M6-S-55		15				77	289	3.75
352-20-20-M6-S-55		20				60	302	5
352-20-30-M6-S-55		30				38	285	7.5
352-25-15-M6-S-55	25 (.98)	15	M6 x 1.0	18 (.71)	2 (.08)	163	612	3.75
352-25-20-M6-S-55		20				112	560	5
352-25-30-M6-S-55		30				68	509	7.5
352-30-15-M8-S-55	30 (1.18)	15	M8 x 1.25	20 (.79)	2 (.08)	294	934	3.75
352-30-20-M8-S-55		20				185	924	5
352-30-25-M8-S-55		25				130	815	6.25
352-30-30-M8-S-55		30				117	876	7.5
352-40-20-M8-S-55	40 (1.57)	20	M8 x 1.25	23 (.91)	2 (.08)	247	1235	5
352-40-25-M8-S-55		25				247	1546	6.25
352-40-30-M8-S-55		30				213	1600	7.5
352-40-40-M8-S-55		40				182	1820	10
352-50-20-M10-S-55	50 (1.97)	20	M10 x 1.5	28 (1.10)	2 (.08)	517	2587	5
352-50-30-M10-S-55		30				327	2453	7.5
352-50-40-M10-S-55		40				247	2468	10
352-60-20-M10-S-55	60 (2.36)	20	M10 x 1.5	28 (1.10)	2 (.08)	726	3630	5
352-60-40-M10-S-55		40				340	3400	10
352-70-40-M10-S-55	70 (2.76)	40	M10 x 1.5	27 (1.06)	3 (.12)	410	4100	10
352-70-55-M10-S-55		55				327	4500	13.75
352-75-25-M12-S-55	75 (2.95)	25	M12 x 1.75	37 (1.46)	3 (.12)	752	4700	6.25
352-75-40-M12-S-55		40				450	4500	10
352-75-50-M12-S-55		50				352	4400	12.5
352-100-40-M16-S-55	100 (3.94)	40	M16 x 2.0	41 (1.61)	3 (.12)	810	8100	10
352-100-50-M16-S-55		50				640	8000	12.5
352-100-60-M16-S-55		60				520	7800	15

GN 452.1 / GN 452.2 | Vibration / Shock Absorption Mounts

Cylindrical Type • With Stainless Steel Components • Inch Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate

Stainless steel

Tapped inserts/threaded studs

Stainless steel, molded in

GN 452.1 with threaded stud

GN 452.2 with tapped hole

GN 452.1 / GN 452.2 vibration / shock absorption mounts, also known as vibration isolation mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are used as end-stop bumpers, e.g., for conveyor trolleys.

They absorb most of the accumulated kinetic energy on impact. They act as dampers and prevent damaging shock and rebound. They also act as sound dampers.

These mounts are also used as leveling feet.

Versions with 40 or 70 durometer natural rubber material available upon request in certain minimum quantities.

Specials, with certain minimum quantities, also available.

For metric versions see GN 452, pages 20 - 21.

GN 452.1 – With Threaded Stud

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	l Stud Length	s	Spring Rate ~lbf./in.	Max. Load [lbf.]	Max.Deflection ~in.
452.1-25-13-1/4-55	1.00 (25)	.50 (13)	1/4-20	.50 (13)	.08 (2)	21400	214	.10
452.1-25-19-1/4-55	1.00 (25)	.75 (19)	1/4-20	.50 (13)	.08 (2)	993	140	.15
452.1-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	604	151	.25
452.1-38-19-5/16-55	1.50 (38)	.75 (19)	5/16-18	.63 (16)	.08 (2)	2653	398	.15
452.1-40-25-3/8-55	1.56 (40)	1.00 (25)	3/8-16	.63 (16)	.08 (2)	1736	434	.25
452.1-40-25-5/16-55	1.56 (40)	1.00 (25)	5/16-18	.63 (16)	.08 (2)	1736	434	.25
452.1-51-19-3/8-55	2.00 (51)	.75 (19)	3/8-16	1.13 (29)	.08 (2)	5533	830	.15
452.1-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.63 (16)	.08 (2)	1600	640	.40



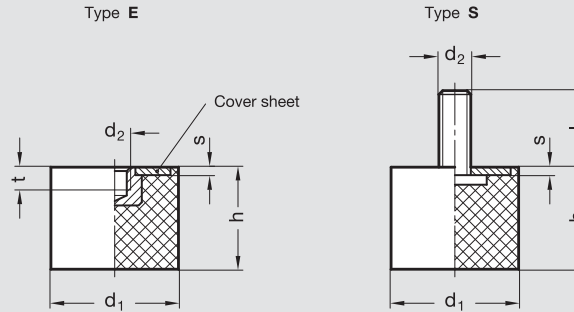
GN 452.2 – With Tapped Hole

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~lbf./in.	Max. Load [lbf.]	Max.Deflection ~in.
452.2-25-13-1/4-55	1.00 (25)	.50 (13)	1/4-20	.08 (2)	.24 (6)	2050	205	.10
452.2-25-19-1/4-55	1.00 (25)	.75 (19)	1/4-20	.08 (2)	.24 (6)	946	142	.15
452.2-25-25-5/16-55	1.00 (25)	1.00 (25)	5/16-18	.08 (2)	.31 (8)	760	190	.25
452.2-38-19-5/16-55	1.50 (38)	.75 (19)	5/16-18	.08 (2)	.31 (8)	2940	441	.15
452.2-38-25-5/16-55	1.50 (38)	1.00 (25)	5/16-18	.08 (2)	.31 (8)	1600	400	.25
452.2-38-25-3/8-55	1.50 (38)	1.00 (25)	3/8-16	.08 (2)	.39 (10)	1600	400	.25
452.2-51-19-3/8-55	2.00 (51)	.75 (19)	3/8-16	.08 (2)	.39 (10)	6966	1045	.15
452.2-51-41-3/8-55	2.00 (51)	1.63 (41)	3/8-16	.08 (2)	.39 (10)	1675	670	.40

GN 452 | Vibration / Shock Absorption Mounts

Cylindrical Type • With Stainless Steel Components • Metric Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate, tapped inserts, threaded studs

Stainless steel, European Standard No. 1.4301 (American Standard Series 304)

Type E with tapped hole

Type S with threaded stud

GN 452 vibration / shock absorption mounts, also known as vibration isolation mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are used as end-stop bumpers, e.g., for conveyor trolleys.

They absorb most of the accumulated kinetic energy on impact. They act as dampers and prevent damaging shock and rebound. They also act as sound dampers.

These mounts are also used as leveling feet.

Versions with 40 or 70 durometer natural rubber material available upon request.

Specials, with certain minimum quantities, also available.

For inch versions see GN 452.1 / 452.2, pages 18 - 19.

Type E – With Tapped Hole

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
452-10-10-M4-E-55	10 (.39)	10	M4 x .7	1.2 (.05)	4 (.16)	24	59	2.5
452-15-15-M4-E-55	15 (.59)	15	M4 x .7	1.4 (.06)	4 (.16)	64	241	3.75
452-15-20-M4-E-55		20				57	287	5
452-20-15-M6-E-55	20 (.79)	15	M6 x 1.0	2 (.08)	6 (.24)	77	289	3.75
452-20-20-M6-E-55		20				60	302	5
452-20-25-M6-E-55		25				48	297	6.25
452-25-15-M6-E-55	25 (.98)	15	M6 x 1.0	2 (.08)	6 (.24)	163	612	3.75
452-25-20-M6-E-55		20				112	560	5
452-25-30-M6-E-55		30				68	509	7.5
452-30-15-M8-E-55	30 (1.18)	15	M8 x 1.25	2 (.08)	8 (.31)	249	934	3.75
452-30-20-M8-E-55		20				185	924	5
452-30-30-M8-E-55		30				130	815	6.25
452-40-20-M8-E-55	40 (1.57)	20	M8 x 1.25	2 (.08)	8 (.31)	247	1235	5
452-40-30-M8-E-55		30				213	1600	7.5
452-40-40-M8-E-55		40				182	1820	10
452-50-20-M10-E-55	50 (1.97)	20	M10 x 1.5	2 (.08)	10 (.39)	517	2587	5
452-50-30-M10-E-55		30				327	2453	7.5
452-50-40-M10-E-55		40				247	2468	10

Table continued...



Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
452-60-30-M10-E-55	60	30	M10 x 1.5	2 (.08)	10 (.39)	467	3500	7.5
452-60-50-M10-E-55	(2.36)	50				269	3367	12.5
452-70-40-M10-E-55	70	40	M10 x 1.5	3 (.12)	10 (.39)	410	4100	10
452-70-55-M10-E-55	(2.76)	55				327	4500	12.5
452-75-30-M12-E-55	75 (2.95)	30	M12 x 1.75	3 (.12)	12 (.47)	600	4500	7.5
452-75-40-M12-E-55		40				450	4500	10
452-75-50-M12-E-55		50				452	4400	12.5
452-100-40-M16-E-55	100 (3.94)	40	M16 x 2.0	3 (.12)	16 (.63)	810	8100	10
452-100-50-M16-E-55		50				640	8000	12.5
452-100-60-M16-E-55		60				520	7800	15

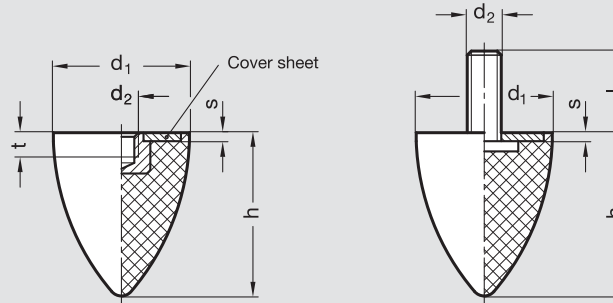
Type S – With Threaded Stud

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	l Stud Length	s	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
452-8-8-M3-S-55	8 (.31)	8	M3 x .5	6 (.24)	1 (.04)	20	40	2
452-10-10-M4-S-55	10 (.39)	10	M4 x .7	10 (.39)	1.2 (.05)	24	59	2.5
452-10-15-M4-S-55		15				21	78	3.75
452-15-10-M4-S-55	15 (.59)	10	M4 x .7	10 (.39)	1.4 (.06)	77	154	2
452-15-15-M4-S-55		15				64	241	3.75
452-15-20-M4-S-55		20				57	287	5
452-15-30-M4-S-55		30				48	300	6.25
452-20-10-M6-S-55	20 (.79)	10	M6 x 1.0	18 (.71)	2 (.08)	126	315	2.5
452-20-15-M6-S-55		15				77	289	3.75
452-20-20-M6-S-55		20				60	302	5
452-20-30-M6-S-55		30				38	285	7.5
452-25-15-M6-S-55	25 (.98)	15	M6 x 1.0	18 (.71)	2 (.08)	163	612	3.75
452-25-20-M6-S-55		20				112	560	5
452-25-30-M6-S-55		30				68	509	7.5
452-30-15-M8-S-55	30 (1.18)	15	M8 x 1.25	20 (.79)	2 (.08)	294	934	3.75
452-30-20-M8-S-55		20				185	924	5
452-30-25-M8-S-55		25				130	815	6.25
452-30-30-M8-S-55		30				117	876	7.5
452-40-20-M8-S-55	40 (1.57)	20	M8 x 1.25	23 (.91)	2 (.08)	247	1235	5
452-40-25-M8-S-55		25				247	1546	6.25
452-40-30-M8-S-55		30				213	1600	7.5
452-40-40-M8-S-55		40				182	1820	10
452-50-20-M10-S-55	50 (1.97)	20	M10 x 1.5	28 (1.10)	2 (.08)	517	2587	5
452-50-30-M10-S-55		30				327	2453	7.5
452-50-40-M10-S-55		40				247	2468	10
452-60-20-M10-S-55	60 (2.36)	20	M10 x 1.5	28 (1.10)	2 (.08)	726	3630	5
452-60-40-M10-S-55		40				340	3400	10
452-70-40-M10-S-55	70 (2.76)	40	M10 x 1.5	27 (1.06)	3 (.12)	410	4100	10
452-70-55-M10-S-55		55				327	4500	13.75
452-75-25-M12-S-55	75 (2.95)	25	M12 x 1.75	37 (1.46)	3 (.12)	752	4700	6.25
452-75-40-M12-S-55		40				450	4500	10
452-75-50-M12-S-55		50				452	4400	12.5
452-100-40-M16-S-55	100 (3.94)	40	M16 x 2.0	41 (1.61)	3 (.12)	810	8100	10
452-100-50-M16-S-55		50				640	8000	12.5
452-100-60-M16-S-55		60				520	7800	15

GN 353.1 / GN 353.2 | Vibration / Shock Absorption Mounts

Conical Type • With Steel Components • Inch Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate

Steel, zinc plated, blue passivated, molded in

Tapped inserts/threaded studs

Steel, zinc plated, blue passivated, molded in

GN 353.1 with threaded stud

GN 353.2 with tapped hole

GN 353.1 and 353.2 vibration / shock absorption mounts, also known as shock absorbing mounts, vibration mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are frequently used as end-stop bumpers, e.g., for conveyor trolleys.

They absorb most of the accumulated kinetic energy on impact. They act as dampers and prevent damaging shock and rebound. They also act as sound dampers.

These mounts are also used as leveling feet.

The parabolic shape of these isolation mounts generates progressive resilience characteristics: Impact and shock effects are absorbed more gently.

Versions with 40 or 70 durometer natural rubber material available upon request in certain minimum quantities.

Specials, with certain minimum quantities, also available.

For metric versions see GN 353, pages 24 - 25.

GN 353.1 – With Threaded Stud

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	Length l	s	Spring Rate ~lbf./in.	Max. Load [lbf.]	Max.Deflection ~in.
353.1-19-25-1/4-55	.75 (19)	.98 (25)	1/4-20	.50 (13)	.08 (2)	91	22	.24
353.1-25-32-1/4-55	.98 (25)	1.26 (32)	1/4-20	.50 (13)	.08 (2)	132	33	.25
353.1-32-38-5/16-55	1.26 (32)	1.50 (38)	5/16-18	.63 (16)	.08 (2)	155	45	.29
353.1-38-45-5/16-55	1.50 (38)	1.77 (45)	5/16-18	.63 (16)	.08 (2)	374	146	.39
353.1-45-51-3/8-55	1.77 (45)	2.01 (51)	3/8-16	.63 (16)	.08 (2)	284	168	.59
353.1-51-57-3/8-55	2.01 (51)	2.24 (57)	3/8-16	1.13 (28)	.08 (2)	285	191	.67



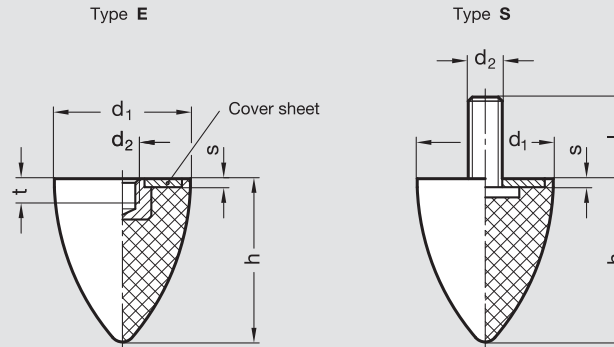
GN 353.2 – With Tapped Hole

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~lbf./in.	Max. Load [lbf.]	Max.Deflection ~in.
353.2-19-25-1/4-55	.75 (19)	.98 (25)	1/4-20	.08 (2)	.24 (6)	91	22	.24
353.2-25-32-1/4-55	.98 (25)	1.26 (32)	1/4-20	.08 (2)	.24 (6)	132	33	.25
353.2-32-38-5/16-55	1.26 (32)	1.50 (38)	5/16-18	.08 (2)	.31 (8)	155	45	.29
353.2-38-45-5/16-55	1.50 (38)	1.77 (45)	5/16-18	.08 (2)	.31 (8)	374	146	.39
353.2-45-51-3/8-55	1.77 (45)	2.01 (51)	3/8-16	.08 (2)	.39 (10)	284	168	.59
353.2-51-57-3/8-55	2.01 (51)	2.24 (57)	3/8-16	.08 (2)	.39 (10)	285	191	.67

GN 353 | Vibration / Shock Absorption Mounts

Conical Type • Metric Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate

Steel, zinc plated, blue passivated, molded in

Tapped inserts/threaded studs

Steel, zinc plated, blue passivated, molded in

Type E with tapped hole

Type S with threaded stud

GN 353 vibration / shock absorption mounts, also known as shock absorbing mounts, vibration mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are frequently used as end-stop bumpers, e.g., for conveyor trolleys.

They absorb most of the accumulated kinetic energy on impact. They act as dampers and prevent damaging shock and rebound. They also act as sound dampers.

These isolation mounts are also used as leveling feet.

The parabolic shape of these isolation mounts generates progressive resilience characteristics: Impact and shock effects are absorbed more gently.

Versions with 40 or 70 durometer natural rubber material available upon request.

Specials, with certain minimum quantities, also available.

For inch versions see GN 353.1 / 353.2, pages 22 - 23.

Type E – With Tapped Hole

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
353-20-24-M6-E-55	20 (.79)	24 (.94)	M6 x 1.0	2 (.08)	6 (.24)	166	100	6
353-30-30-M8-E-55	30 (1.18)	30 (1.18)	M8 x 1.25	2 (.08)	8 (.31)	24	150	6.25
353-30-36-M8-E-55	30 (1.18)	36 (1.42)	M8 x 1.25	2 (.08)	8 (.31)	26.6	200	7.5
353-35-40-M8-E-55	35 (1.38)	40 (1.57)	M8 x 1.25	2 (.08)	8 (.31)	65	650	10
353-50-61-M8-E-55	50 (1.97)	61 (2.40)	M8 x 1.25	2 (.08)	8 (.31)	50	750	15
353-50-68-M10-E-55	50 (1.97)	68 (2.68)	M10 x 1.5	2 (.08)	10 (.39)	50	850	17



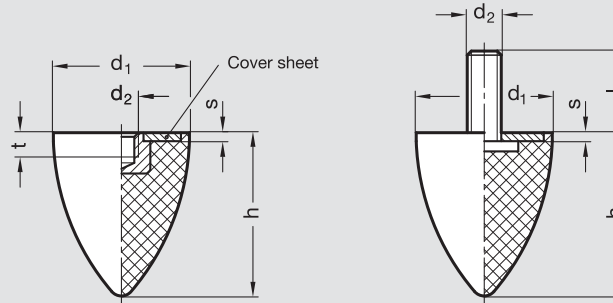
Type S – With Threaded Stud

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	Length l	s	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
353-20-24-M6-S-55	20 (.79)	24 (.94)	M6 x 1.0	18 (.71)	2 (.08)	166	100	6
353-30-30-M8-S-55	30 (1.18)	30 (1.18)	M8 x 1.25	18 (.71)	2 (.08)	24	150	6.25
353-30-36-M8-S-55	30 (1.18)	36 (1.42)	M8 x 1.25	20 (.79)	2 (.08)	26.6	200	7.5
353-35-40-M8-S-55	35 (1.38)	40 (1.57)	M8 x 1.25	23 (.91)	2 (.08)	65	650	10
353-50-61-M8-S-55	50 (1.97)	61 (2.40)	M8 x 1.25	28 (1.10)	2 (.08)	50	750	15
353-50-68-M10-S-55	50 (1.97)	68 (2.68)	M10 x 1.5	28 (1.10)	2 (.08)	50	850	17

GN 453.1 / GN 453.2 | Vibration / Shock Absorption Mounts

Conical Type • With Stainless Steel Components • Inch Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate

Stainless steel, molded in

Tapped inserts/threaded studs

Stainless steel, molded in

GN 453.1 with threaded stud

GN 453.2 with tapped hole

GN 453.1 and 453.2 vibration / shock absorption mounts, also known as shock absorbing mounts, vibration mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are frequently used as end-stop bumpers, e.g., for conveyor trolleys.

They absorb most of the accumulated kinetic energy on impact. They act as dampers and prevent damaging shock and rebound. They also act as sound dampers.

These mounts are also used as leveling feet.

The parabolic shape of these isolation mounts generates progressive resilience characteristics: Impact and shock effects are absorbed more gently.

Versions with 40 or 70 durometer natural rubber material available upon request in certain minimum quantities.

Specials, with certain minimum quantities, also available.

For metric versions see GN 453, pages 28 - 29.

GN 453.1 – With Threaded Stud

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	Length l	s	Spring Rate ~lbf./in.	Max. Load [lbf.]	Max.Deflection ~in.
453.1-19-25-1/4-55	.75 (19)	.98 (25)	1/4-20	.50 (13)	.08 (2)	91	22	.24
453.1-25-32-1/4-55	.98 (25)	1.26 (32)	1/4-20	.50 (13)	.08 (2)	132	33	.25
453.1-32-38-5/16-55	1.26 (32)	1.50 (38)	5/16-18	.63 (16)	.08 (2)	155	45	.29
453.1-38-45-5/16-55	1.50 (38)	1.77 (45)	5/16-18	.63 (16)	.08 (2)	374	146	.39
453.1-45-51-3/8-55	1.77 (45)	2.01 (51)	3/8-16	.63 (16)	.08 (2)	284	168	.59
453.1-51-57-3/8-55	2.01 (51)	2.24 (57)	3/8-16	1.13 (28)	.08 (2)	285	191	.67



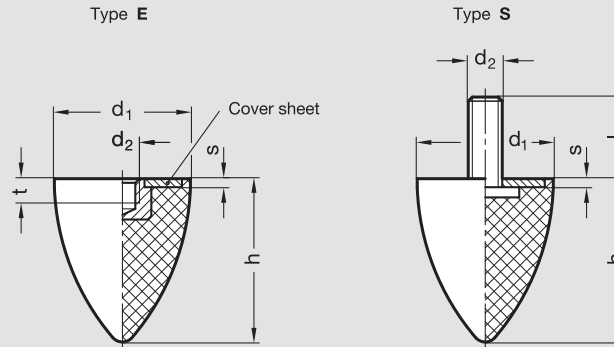
GN 453.2 – With Tapped Hole

Dimensions in: inches (millimeters)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~lbf./in.	Max. Load [lbf.]	Max.Deflection ~in.
453.2-19-25-1/4-55	.75 (19)	.98 (25)	1/4-20	.08 (2)	.24 (6)	91	22	.24
453.2-25-32-1/4-55	.98 (25)	1.26 (32)	1/4-20	.08 (2)	.24 (6)	132	33	.25
453.2-32-38-5/16-55	1.26 (32)	1.50 (38)	5/16-18	.08 (2)	.31 (8)	155	45	.29
453.2-38-45-5/16-55	1.50 (38)	1.77 (45)	5/16-18	.08 (2)	.31 (8)	374	146	.39
453.2-45-51-3/8-55	1.77 (45)	2.01 (51)	3/8-16	.08 (2)	.39 (10)	284	168	.59
453.2-51-57-3/8-55	2.01 (51)	2.24 (57)	3/8-16	.08 (2)	.39 (10)	285	191	.67

GN 453 | Vibration / Shock Absorption Mounts

Conical Type • With Stainless Steel Components • Metric Size



RoHS Compliant

Mount body

Natural rubber (NR), vulcanized, 55 durometer (shore hardness +/-5°)

Cover plate, tapped inserts, threaded studs

Stainless steel, European Standard No. 1.4301 (American Standard Series 304)

Type E with tapped hole

Type S with threaded stud

GN 453 vibration / shock absorption mounts, also known as shock absorbing mounts, vibration mounts, anti-vibration mounts, vibration bobbins or rubber bumpers, are frequently used as end-stop bumpers, e.g., for conveyor trolleys.

They absorb most of the accumulated kinetic energy on impact. They act as dampers and prevent damaging shock and rebound. They also act as sound dampers.

These isolation mounts are also used as leveling feet.

The parabolic shape of these isolation mounts generates progressive resilience characteristics: Impact and shock effects are absorbed more gently.

Versions with 40 or 70 durometer natural rubber material available upon request.

Specials, with certain minimum quantities, also available.

For inch versions see GN 453.1 / 453.2, pages 26 - 27.

Type E – With Tapped Hole

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	s	t	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
453-20-24-M6-E-55	20 (.79)	24 (.94)	M6 x 1.0	2 (.08)	6 (.24)	166	100	6
453-30-30-M8-E-55	30 (1.18)	30 (1.18)	M8 x 1.25	2 (.08)	8 (.31)	24	150	6.25
453-30-36-M8-E-55	30 (1.18)	36 (1.42)	M8 x 1.25	2 (.08)	8 (.31)	26.6	200	7.5
453-35-40-M8-E-55	35 (1.38)	40 (1.57)	M8 x 1.25	2 (.08)	8 (.31)	65	650	10
453-50-61-M8-E-55	50 (1.97)	61 (2.40)	M8 x 1.25	2 (.08)	8 (.31)	50	750	15
453-50-68-M10-E-55	50 (1.97)	68 (2.68)	M10 x 1.5	2 (.08)	10 (.39)	50	850	17



Type S – With Threaded Stud

Dimensions in: millimeters (*inches*)

Part Number	d1	h	d2 Thread	Length l	s	Spring Rate ~N/mm	Max. Load [N]	Max.Deflection ~mm
453-20-24-M6-S-55	20 (.79)	24 (.94)	M6 x 1.0	18 (.71)	2 (.08)	166	100	6
453-30-30-M8-S-55	30 (1.18)	30 (1.18)	M8 x 1.25	18 (.71)	2 (.08)	24	150	6.25
453-30-36-M8-S-55	30 (1.18)	36 (1.42)	M8 x 1.25	20 (.79)	2 (.08)	26.6	200	7.5
453-35-40-M8-S-55	35 (1.38)	40 (1.57)	M8 x 1.25	23 (.91)	2 (.08)	65	650	10
453-50-61-M8-S-55	50 (1.97)	61 (2.40)	M8 x 1.25	28 (1.10)	2 (.08)	50	750	15
453-50-68-M10-S-55	50 (1.97)	68 (2.68)	M10 x 1.5	28 (1.10)	2 (.08)	50	850	17



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J.W. Winco Inc.

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Fax 262/786-8524
800/472-0670

Email sales@jwwinco.com

2815 S. Calhoun Rd.
New Berlin, WI 53151-3515



J.W. Winco Canada Inc.

Phone 800/877-8351

Fax 800/472-0670

Email sales@jwwinco.ca

Web www.jwwinco.ca

2199 Dunwin Dr.
Mississauga, Ontario L5L 1X2