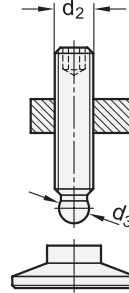


Mounting example



SS Stainless Steel

Inch table

Dimensions in: inches - millimeters

1		2		3			d ₃ ≈	l ₂	A/F	Static load (See information)	
d ₁ ST / NI	NV	d ₂ Thread	l ₁			ST / NI				NV	
0.59 15	-	1/4 x 20	1.02 26	1.42 36	1.81 46	-	0.18 4.5	0.30 7.6	1/8	787 lbf 3.5 kN	-
0.59 15	-	5/16 x 18	0.79 20	1.38 35	1.77 45	2.28 58	0.18 4.5	0.30 7.6	1/8	787 lbf 3.5 kN	-
0.71 18	-	3/8 x 16	1.34 34	1.73 44	2.24 57	2.91 74	0.24 6.1	0.36 9.1	3/16	787 lbf 3.5 kN	-
0.83 21	0.83 21	3/8 x 16	1.34 34	1.73 44	2.24 57	2.91 74	0.24 6.1	0.39 10	3/16	787 lbf 3.5 kN	2473 lbf 11 kN
0.83 21	0.83 21	1/2 x 13	1.34 34	2.24 57	2.91 74	3.70 94	0.31 7.8	0.39 10	3/16	787 lbf 3.5 kN	3597 lbf 16 kN
0.98 25	0.98 25	3/8 x 16	1.34 34	1.73 44	2.24 57	2.91 74	0.24 6.1	0.41 10.5	3/16	787 lbf 3.5 kN	2473 lbf 11 kN
0.98 25	0.98 25	1/2 x 13	1.34 34	2.24 57	2.91 74	3.70 94	0.31 7.8	0.41 10.5	3/16	787 lbf 3.5 kN	3597 lbf 16 kN
1.26 32	1.26 32	3/8 x 16	1.34 34	1.73 44	2.24 57	2.91 74	0.24 6.1	0.43 11	3/16	787 lbf 3.5 kN	2473 lbf 11 kN
1.26 32	1.26 32	1/2 x 13	1.34 34	2.24 57	2.91 74	3.70 94	0.31 7.8	0.43 11	3/16	787 lbf 3.5 kN	3597 lbf 16 kN
1.57 40	1.57 40	3/8 x 16	1.34 34	1.73 44	2.24 57	2.91 74	0.24 6.1	0.51 13	3/16	787 lbf 3.5 kN	2473 lbf 11 kN
1.57 40	1.57 40	1/2 x 13	1.34 34	2.24 57	2.91 74	3.70 94	0.31 7.8	0.51 13	3/16	787 lbf 3.5 kN	3597 lbf 16 kN
1.97 50	1.97 50	3/8 x 16	1.34 34	1.73 44	2.24 57	2.91 74	0.24 6.1	0.51 13	3/16	787 lbf 3.5 kN	2473 lbf 11 kN
1.97 50	1.97 50	1/2 x 13	1.34 34	2.24 57	2.91 74	3.70 94	0.31 7.8	0.51 13	3/16	787 lbf 3.5 kN	3597 lbf 16 kN

Metric table

Dimensions in: millimeters - inches

1		2		3			d ₃ ≈	l ₂	A/F	Static load (See information)	
d ₁ ST / NI	NV	d ₂ Thread	l ₁			ST / NI				NV	
15 0.59	-	M 6	26 1.02	36 1.42	46 1.81	-	4.5 0.18	7.6 0.30	3	3.5 kN 787 lbf	-
15 0.59	-	M 8	20 0.79	35 1.38	45 1.77	58 2.28	6.1 0.24	7.6 0.30	4	3.5 kN 787 lbf	-
18 0.71	-	M 6	26 1.02	36 1.42	46 1.81	-	4.5 0.18	9.2 0.36	3	3.5 kN 787 lbf	-
18 0.71	-	M 8	20 0.79	35 1.38	45 1.77	58 2.28	6.1 0.24	9.2 0.36	4	3.5 kN 787 lbf	-
18 0.71	-	M 10	34 1.34	44 1.73	57 2.24	74 2.91	7.8 0.31	9.2 0.36	5	3.5 kN 787 lbf	-
21 0.83	21 0.83	M 6	26 1.02	36 1.42	46 1.81	-	4.5 0.18	10 0.39	3	3.5 kN 787 lbf	3.5 kN 787 lbf

1		2		3			d ₃ ≈	l ₂	A/F	Static load (See information)	
ST / NI	NV	d ₂ Thread	l ₁			ST / NI				NV	
21 0.83	21 0.83	M 8	20 0.79	35 1.38	45 1.77	58 2.28	6.1 0.24	10 0.39	4	3.5 kN 787 lbf	7 kN 1574 lbf
21 0.83	21 0.83	M 10	34 1.34	44 1.73	57 2.24	74 2.91	7.8 0.31	10 0.39	5	3.5 kN 787 lbf	11 kN 2473 lbf
21 0.83	21 0.83	M 12	34 1.34	57 2.24	74 2.91	94 3.70	9.4 0.37	10 0.39	6	3.5 kN 787 lbf	16 kN 3597 lbf
25 0.98	25 0.98	M 6	26 1.02	36 1.42	46 1.81	-	4.5 0.18	10.5 0.41	3	3.5 kN 787 lbf	3.5 kN 787 lbf
25 0.98	25 0.98	M 8	20 0.79	35 1.38	45 1.77	58 2.28	6.1 0.24	10.5 0.41	4	3.5 kN 787 lbf	7 kN 1574 lbf
25 0.98	25 0.98	M 10	34 1.34	44 1.73	57 2.24	74 2.91	7.8 0.31	10.5 0.41	5	3.5 kN 787 lbf	11 kN 2473 lbf
25 0.98	25 0.98	M 12	34 1.34	57 2.24	74 2.91	94 3.70	9.4 0.37	10.5 0.41	6	3.5 kN 787 lbf	16 kN 3597 lbf
32 1.26	32 1.26	M 6	26 1.02	36 1.42	46 1.81	-	4.5 0.18	11 0.43	3	3.5 kN 787 lbf	3.5 kN 787 lbf
32 1.26	32 1.26	M 8	20 0.79	35 1.38	45 1.77	58 2.28	6.1 0.24	11 0.43	4	3.5 kN 787 lbf	7 kN 1574 lbf
32 1.26	32 1.26	M 10	34 1.34	44 1.73	57 2.24	74 2.91	7.8 0.31	11 0.43	5	3.5 kN 787 lbf	11 kN 2473 lbf
32 1.26	32 1.26	M 12	34 1.34	57 2.24	74 2.91	94 3.70	9.4 0.37	11 0.43	6	3.5 kN 787 lbf	16 kN 3597 lbf
40 1.57	40 1.57	M 8	20 0.79	35 1.38	45 1.77	58 2.28	6.1 0.24	13 0.51	4	3.5 kN 787 lbf	7 kN 1574 lbf
40 1.57	40 1.57	M 10	34 1.34	44 1.73	57 2.24	74 2.91	7.8 0.31	13 0.51	5	3.5 kN 787 lbf	11 kN 2473 lbf
40 1.57	40 1.57	M 12	34 1.34	57 2.24	74 2.91	94 3.70	9.4 0.37	13 0.51	6	3.5 kN 787 lbf	16 kN 3597 lbf
50 1.97	50 1.97	M 8	20 0.79	35 1.38	45 1.77	58 2.28	6.1 0.24	15.5 0.61	4	3.5 kN 787 lbf	7 kN 1574 lbf
50 1.97	50 1.97	M 10	34 1.34	44 1.73	57 2.24	74 2.91	7.8 0.31	15.5 0.61	5	3.5 kN 787 lbf	11 kN 2473 lbf
50 1.97	50 1.97	M 12	34 1.34	57 2.24	74 2.91	94 3.70	9.4 0.37	15.5 0.61	6	3.5 kN 787 lbf	16 kN 3597 lbf

Specification

- Grub screw
Steel **ST**
- Property class 5.8
- Blackened finish
Thrust pad
Plastic (Polyacetal POM)
- Temperature resistant up to 176 °F (80 °C)
- Black, matte finish
- Grub screw
Stainless steel AISI 303 **NI**
Thrust pad
Plastic (Polyacetal POM)
- Temperature resistant up to 176 °F (80 °C)
- Black, matte finish
- Grub screw
Stainless steel AISI 303 **NV**
Thrust pad
Stainless steel AISI 303
- O-ring: Rubber FPM (Viton®)
- Temperature resistant up to 392 °F (200 °C)
- *Strength Values of Screws* → page 2127
- *Plastic Characteristics* → page 2135
- *Stainless Steel Characteristics* → page 2143
- RoHS compliant

Information


GN 638 ball jointed leveling feet are a low cost solution for clamping operations or for load bearing purposes. The version with plastic thrust pad prevents damage to sensitive surfaces. The stainless steel version is preferred for applications in more aggressive environments or with higher loads.

The ball diameter d₃ is smaller than the diameter of the threaded stud, allowing them to be screwed into position from the ball side. It is easy to press the ball end of the grub screw into the thrust pad by hand, and it's also easily dismantled.

The static load capacity has been determined by a series of tests but are approximate. For these tests the loads were placed vertically over the stud. At the measured load of 787 lbf (3.5 kN) there was no remaining deformation visible on the thrust pad nor was there any breakage.

see also...

- *Threaded Tube Ends EN 448* → page 1578 / 1578
- *Threaded Mounting Plates GN 349 (for Leveling Feet)* → www.jwwinco.com
- *Leveling Feet GN 339 (Steel / Stainless Steel Base, Fixed Type)* → page 1501
- *Leveling Feet GN 839 (Plastic Base, Fixed Type)* → page 1502

How to order (Inch, steel grub screw / plastic thrust pad)	1 Outer diameter d ₁
	2 Thread d ₂
	3 Stud length l ₁
	4 Material
	
GN638-15-1/4X20-26-ST	

How to order (Metric, all stainless steel)	1 Outer diameter d ₁
	2 Thread d ₂
	3 Stud length l ₁
	4 Material
	
GN638-21-M8-35-NV	

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

