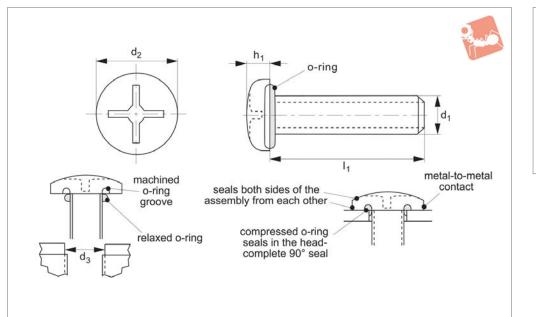


Pan Head Seal Screws

phillips drive







36630

Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm²), with silicone "O" ring as standard.

For other "O" ring materials see technical data pages

(-FS = fluorosilicone, -EP = EPDM, -VI = viton, -NI = nitrile, -BN = Buna etc.). Other thread lengths, and stainless steel A4 (AISI 316) on request.

Technical Notes

Seals substances in and contaminants out, screws generally as DIN 7985 H, ISO 7045. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Re-usable, also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch,

threads are metric coarse pitch.

Order No.	d ₁	I ₁	h ₁	d ₂	d ₃	Drive
			max.	max.	±0.05	
36630.W0204	M 2	4	1.6	4.0	2.35	PH-1
36630.W0208	M 2	8	1.6	4.0	2.35	PH-1
36630.W0210	M 2	10	1.6	4.0	2.35	PH-1
36630.W0212	M 2	12	1.6	4.0	2.35	PH-1
36630.W0251	M2,5	6	2.1	4.7	2.75	PH-1
36630.W0252	M2,5	8	2.1	4.7	2.75	PH-1
36630.W0253	M2,5	10	2.1	4.7	2.75	PH-1
36630.W0254	M2,5	12	2.1	4.7	2.75	PH-1
36630.W0306	M 3	6	2.4	6.0	3.6	PH-1
36630.W0308	M 3	8	2.4	6.0	3.6	PH-1
36630.W0310	M 3	10	2.4	6.0	3.6	PH-1
36630.W0312	M 3	12	2.4	6.0	3.6	PH-1
36630.W0320	M 3	20	2.4	6.0	3.6	PH-1
36630.SP0335SI	M 3	35	2.4	6.0	3.6	PH-1
36630.W0406	M 4	6	3.1	8.0	4.5	PH-2
36630.W0408	M 4	8	3.1	8.0	4.5	PH-2
36630.W0410	M 4	10	3.1	8.0	4.5	PH-2
36630.W0412	M 4	12	3.1	8.0	4.5	PH-2
36630.W0416	M 4	16	3.1	8.0	4.5	PH-2
36630.W0420	M 4	20	3.1	8.0	4.5	PH-2
36630.W0508	M 5	8	3.7	10.0	5.6	PH-2
36630.W0510	M 5	10	3.7	10.0	5.6	PH-2
36630.W0512	M 5	12	3.7	10.0	5.6	PH-2
36630.W0516	M 5	16	3.7	10.0	5.6	PH-2
36630.W0520	M 5	20	1.6	10.0	5.6	PH-2
36630.W0612	M 6	12	4.6	12.0	6.8	PH-3
36630.W0616	M 6	16	4.6	12.0	6.8	PH-3
36630.W0620	M 6	20	4.6	12.0	6.8	PH-3



Pan Head Seal Screws

phillips drive



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Sealing Screws

Order No.	d_1	I_1	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
36630.W0625	M 6	25	4.6	12.0	6.8	PH-3
36630.W0630	M 6	30	4.6	12.0	6.8	PH-3
36630.W0812	M 8	12	6.0	16.0	8.5	PH-4
36630.W0816	M 8	16	6.0	16.0	8.5	PH-4
36630.W0820	M 8	20	6.0	16.0	8.5	PH-4
36630.W0825	M 8	25	6.0	16.0	8.5	PH-4
36630.W0830	M 8	30	6.0	16.0	8.5	PH-4
36630.W1016	M10	16	7.5	20.0	10.6	PH-4
36630.W1020	M10	20	7.5	20.0	10.6	PH-4
36630.W1025	M10	25	7.5	20.0	10.6	PH-4
36630.W1030	M10	30	7.5	20.0	10.6	PH-4
36630.W1040	M10	40	7.5	20.0	10.6	PH-4

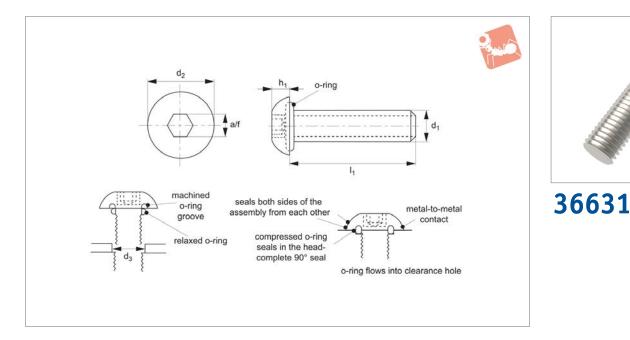




Button Head Seal Screws

hex. socket

Sealing Screws



Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 N/mm²), with silicone "0" ring as standard.

For other "O" ring materials see technical data pages

(-FS = fluorosilicone, -EP = EPDM, -VI = viton, -NI = nitrile, -BN = Buna etc.).

Other thread lengths on request.

Technical Notes

Screws generally as ISO 7380, seals substances in and contaminants out. Re-useable. Clearance holes recommended for maximum sealing.

Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi).

Also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below).

Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.

36631.W0306 M 3 6 1.7 5.7 2 3.6 A2 s/s 36631.W0308 M 3 8 1.7 5.7 2 3.6 A2 s/s 36631.W0310 M 3 10 1.7 5.7 2 3.6 A2 s/s 36631.W0312 M 3 12 1.7 5.7 2 3.6 A2 s/s 36631.W0320 M 3 20 1.7 5.7 2 3.6 A2 s/s 36631.W0406 M 4 6 2.2 7.6 2.5 4.5 A2 s/s 36631.W0408 M 4 8 2.2 7.6 2.5 4.5 A2 s/s 36631.W0412 M 4 10 2.2 7.6 2.5 4.5 A2 s/s 36631.W0412 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0420 M 4 20 2.2 7.6 2.5 4.5 A2 s/s 36631.W0508 M 5 8 <t< th=""><th>Order No.</th><th>d_1</th><th>I_1</th><th>h₁ max.</th><th>d₂ max.</th><th>A/F</th><th>d₃ ±0.05</th><th>Material</th></t<>	Order No.	d_1	I_1	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
36631.W0310 M 3 10 1.7 5.7 2 3.6 A2 s/s 36631.W0312 M 3 12 1.7 5.7 2 3.6 A2 s/s 36631.W0320 M 3 20 1.7 5.7 2 3.6 A2 s/s 36631.W0406 M 4 6 2.2 7.6 2.5 4.5 A2 s/s 36631.W0408 M 4 8 2.2 7.6 2.5 4.5 A2 s/s 36631.W0412 M 4 10 2.2 7.6 2.5 4.5 A2 s/s 36631.W0412 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0412 M 4 10 2.8 9.5 3 5.6 A2 s/s 36631.W0508 M 5 10 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 10 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5	36631.W0306	M 3	6	1.7	5.7	2	3.6	A2 s/s
36631.W0312 M 3 12 1.7 5.7 2 3.6 A2 s/s 36631.W0320 M 3 20 1.7 5.7 2 3.6 A2 s/s 36631.W0406 M 4 6 2.2 7.6 2.5 4.5 A2 s/s 36631.W0408 M 4 8 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 10 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0420 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 10 2.2 7.6 2.5 4.5 A2 s/s 36631.W0420 M 4 20 2.2 7.6 2.5 4.5 A2 s/s 36631.W0508 M 5 12 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 </th <th>36631.W0308</th> <th>М З</th> <th>8</th> <th>1.7</th> <th>5.7</th> <th>2</th> <th>3.6</th> <th>A2 s/s</th>	36631.W0308	М З	8	1.7	5.7	2	3.6	A2 s/s
36631.W0320 M 3 20 1.7 5.7 2 3.6 A2 s/s 36631.W0406 M 4 6 2.2 7.6 2.5 4.5 A2 s/s 36631.W0408 M 4 8 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 10 2.2 7.6 2.5 4.5 A2 s/s 36631.W0412 M 4 12 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 20 2.2 7.6 2.5 4.5 A2 s/s 36631.W0508 M 5 8 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 10 2.8 9.5 3 5.6 A2 s/s 36631.W0512 M 5 16 2.8 9.5 3 5.6 A2 s/s 36631.W0512 M 6	36631.W0310	М З	10	1.7	5.7	2	3.6	A2 s/s
36631.W0406 M 4 6 2.2 7.6 2.5 4.5 A2 s/s 36631.W0408 M 4 8 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 10 2.2 7.6 2.5 4.5 A2 s/s 36631.W0416 M 4 12 2.2 7.6 2.5 4.5 A2 s/s 36631.W0416 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0508 M 5 8 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 10 2.8 9.5 3 5.6 A2 s/s 36631.W0512 M 5 16 2.8 9.5 3 5.6 A2 s/s 36631.W0516 M 5 16 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 20 2.8 9.5 3 5.6 A2 s/s 36631.W0512 M 6 12	36631.W0312	M 3	12	1.7	5.7	2	3.6	A2 s/s
36631.W0408 M 4 8 2.2 7.6 2.5 4.5 A2 s/s 36631.W0410 M 4 10 2.2 7.6 2.5 4.5 A2 s/s 36631.W0412 M 4 12 2.2 7.6 2.5 4.5 A2 s/s 36631.W0416 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0420 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0508 M 5 8 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 10 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 16 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 16 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 20 2.8 9.5 3 5.6 A2 s/s 36631.W0612 M 6 16	36631.W0320	M 3	20	1.7	5.7	2	3.6	A2 s/s
36631.W0410M 4102.27.62.54.5A2 s/s36631.W0412M 4122.27.62.54.5A2 s/s36631.W0416M 4162.27.62.54.5A2 s/s36631.W0420M 4202.27.62.54.5A2 s/s36631.W0508M 582.89.535.6A2 s/s36631.W0510M 5102.89.535.6A2 s/s36631.W0512M 5162.89.535.6A2 s/s36631.W0516M 5162.89.535.6A2 s/s36631.W0512M 5162.89.535.6A2 s/s36631.W0512M 5162.89.535.6A2 s/s36631.W0512M 5202.89.535.6A2 s/s36631.W0612M 6123.310.546.8A2 s/s36631.W0616M 6163.310.546.8A2 s/s36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0812M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s	36631.W0406	M 4	6	2.2	7.6	2.5	4.5	A2 s/s
36631.W0412 M 4 12 2.2 7.6 2.5 4.5 A2 s/s 36631.W0416 M 4 16 2.2 7.6 2.5 4.5 A2 s/s 36631.W0420 M 4 20 2.2 7.6 2.5 4.5 A2 s/s 36631.W0508 M 5 8 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 10 2.8 9.5 3 5.6 A2 s/s 36631.W0512 M 5 12 2.8 9.5 3 5.6 A2 s/s 36631.W0516 M 5 16 2.8 9.5 3 5.6 A2 s/s 36631.W0516 M 5 16 2.8 9.5 3 5.6 A2 s/s 36631.W0612 M 6 12 3.3 10.5 4 6.8 A2 s/s 36631.W0620 M 6 20 3.3 10.5 4 6.8 A2 s/s 36631.W0620 M 6 20 3.3 10.5 4 6.8 A2 s/s 36631.W0620 M 6	36631.W0408	M 4	8	2.2	7.6	2.5	4.5	A2 s/s
36631.W0416M 4162.27.62.54.5A2 s/s36631.W0420M 4202.27.62.54.5A2 s/s36631.W0508M 582.89.535.6A2 s/s36631.W0510M 5102.89.535.6A2 s/s36631.W0512M 5122.89.535.6A2 s/s36631.W0516M 5162.89.535.6A2 s/s36631.W0516M 5162.89.535.6A2 s/s36631.W0516M 5202.89.535.6A2 s/s36631.W0612M 6123.310.546.8A2 s/s36631.W0616M 6163.310.546.8A2 s/s36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0625M 6203.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0816M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8204.414.058.5A2 s/s<	36631.W0410	M 4	10	2.2	7.6	2.5	4.5	A2 s/s
36631.W0420 M 4 20 2.2 7.6 2.5 4.5 A2 s/s 36631.W0508 M 5 8 2.8 9.5 3 5.6 A2 s/s 36631.W0510 M 5 10 2.8 9.5 3 5.6 A2 s/s 36631.W0512 M 5 12 2.8 9.5 3 5.6 A2 s/s 36631.W0516 M 5 16 2.8 9.5 3 5.6 A2 s/s 36631.W0516 M 5 16 2.8 9.5 3 5.6 A2 s/s 36631.W0612 M 6 12 3.3 10.5 4 6.8 A2 s/s 36631.W0612 M 6 12 3.3 10.5 4 6.8 A2 s/s 36631.W0620 M 6 20 3.3 10.5 4 6.8 A2 s/s 36631.W0625 M 6 25 3.3 10.5 4 6.8 A2 s/s 36631.W0812 M 8 12 4.4 14.0 5 8.5 A2 s/s 36631.W0812 M 8	36631.W0412	M 4	12	2.2	7.6	2.5	4.5	A2 s/s
36631.W0508M 582.89.535.6A2 s/s36631.W0510M 5102.89.535.6A2 s/s36631.W0512M 5122.89.535.6A2 s/s36631.W0516M 5162.89.535.6A2 s/s36631.W0520M 5202.89.535.6A2 s/s36631.W0612M 6123.310.546.8A2 s/s36631.W0616M 6163.310.546.8A2 s/s36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0820M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0820M 8254.414.058.5A2 s/s36631.W0820M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s </th <th>36631.W0416</th> <th>M 4</th> <th>16</th> <th>2.2</th> <th>7.6</th> <th>2.5</th> <th>4.5</th> <th>A2 s/s</th>	36631.W0416	M 4	16	2.2	7.6	2.5	4.5	A2 s/s
36631.W0510M 5102.89.535.6A2 s/s36631.W0512M 5122.89.535.6A2 s/s36631.W0516M 5162.89.535.6A2 s/s36631.W0520M 5202.89.535.6A2 s/s36631.W0612M 6123.310.546.8A2 s/s36631.W0616M 6163.310.546.8A2 s/s36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0630M 6303.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8254.414.058.5A2 s/s36631.W0825M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s	36631.W0420	M 4	20	2.2	7.6	2.5	4.5	A2 s/s
36631.W0512M 5122.89.535.6A2 s/s36631.W0516M 5162.89.535.6A2 s/s36631.W0520M 5202.89.535.6A2 s/s36631.W0612M 6123.310.546.8A2 s/s36631.W0616M 6163.310.546.8A2 s/s36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0630M 6303.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0816M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8254.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W1016M10165.517.5610.6A2 s/s	36631.W0508	M 5	8	2.8	9.5		5.6	A2 s/s
36631.W0516M 5162.89.535.6A2 s/s36631.W0520M 5202.89.535.6A2 s/s36631.W0612M 6123.310.546.8A2 s/s36631.W0616M 6163.310.546.8A2 s/s36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0630M 6303.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0816M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8254.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s		M 5		2.8	9.5			A2 s/s
36631.W0520M 5202.89.535.6A2 s/s36631.W0612M 6123.310.546.8A2 s/s36631.W0616M 6163.310.546.8A2 s/s36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0630M 6303.310.546.8A2 s/s36631.W0830M 8124.414.058.5A2 s/s36631.W0820M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8254.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s	36631.W0512						5.6	
36631.W0612M 6123.310.546.8A2 s/s36631.W0616M 6163.310.546.8A2 s/s36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0630M 6303.310.546.8A2 s/s36631.W0830M 8124.414.058.5A2 s/s36631.W0816M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8254.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W016M10165.517.5610.6A2 s/s								
36631.W0616M 6163.310.546.8A2 s/s36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0630M 6303.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0816M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8254.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W1016M10165.517.5610.6A2 s/s	36631.W0520	M 5	20	2.8	9.5	3	5.6	A2 s/s
36631.W0620M 6203.310.546.8A2 s/s36631.W0625M 6253.310.546.8A2 s/s36631.W0630M 6303.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0816M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8254.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W1016M10165.517.5610.6A2 s/s						4		
36631.W0625M 6253.310.546.8A2 s/s36631.W0630M 6303.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0816M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8254.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W1016M10165.517.5610.6A2 s/s								
36631.W0630M 6303.310.546.8A2 s/s36631.W0812M 8124.414.058.5A2 s/s36631.W0816M 8164.414.058.5A2 s/s36631.W0820M 8204.414.058.5A2 s/s36631.W0825M 8254.414.058.5A2 s/s36631.W0830M 8304.414.058.5A2 s/s36631.W1016M10165.517.5610.6A2 s/s						4		
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36631.W0830M 8304.414.058.5A2 s/s36631.W1016M10165.517.5610.6A2 s/s								
36631.W1016 M10 16 5.5 17.5 6 10.6 A2 s/s								
		-						
36631.W1020 M10 20 5.5 17.5 6 10.6 A2 s/s								
	36631.W1020	M10	20	5.5	17.5	6	10.6	A2 s/s



Button Head Seal Screws





36631.W1025	M10
36631.W1030	M10
36631.W1040	M10
36631.W1220	M12
36631.W1225	M12
36631.W1230	M12
36631.W1240	M12
36631.W1250	M12
36631.W0406-A4	M 4

Sealing Screws

Order No.	d_1	I_1	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
631.W1025	M10	25	5.5	17.5	6	10.6	A2 s/s
631.W1030	M10	30	5.5	17.5	6	10.6	A2 s/s
631.W1040	M10	40	5.5	17.5	6	10.6	A2 s/s
631.W1220	M12	20	6.6	21.0	8	12.9	A2 s/s
631.W1225	M12	25	6.6	21.0	8	12.9	A2 s/s
631.W1230	M12	30	6.6	21.0	8	12.9	A2 s/s
631.W1240	M12	40	6.6	21.0	8	12.9	A2 s/s
631.W1250	M12	50	6.6	21.0	8	12.9	A2 s/s
631.W0406-A4	M 4	6	2.2	7.6	2.5	4.5	A4 s/s

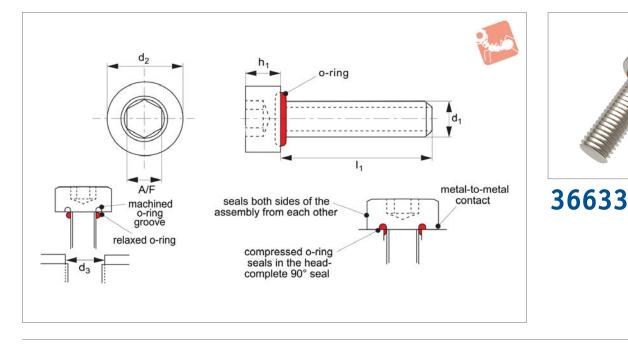




Cap Head Seal Screws

hex. socket







EALING SCREW

Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 N/mm²), with silicone "0" ring as standard.

For other "O" ring materials see technical data pages (-FS = fluorosilicone, -EP = EPDM, -VI = viton, -NI = nitrile, -BN = Buna etc.).

Other thread lengths on request.

Technical Notes

Screws generally as DIN 912, seals substances in and contaminants out Re-useable, clearance holes recommended for maximum sealing.

Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi).

Also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below).

Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.

Order No.	d ₁	I_1	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
36633.W0306	М З	6	3.0	5.5	2.5	3.6	A2 s/s
36633.W0308	M 3	8	3.0	5.5	2.5	3.6	A2 s/s
36633.W0310	M 3	10	3.0	5.5	2.5	3.6	A2 s/s
36633.W0312	M 3	12	3.0	5.5	2.5	3.6	A2 s/s
36633.W0320	M 3	20	3.0	5.5	2.5	3.6	A2 s/s
36633.W0406	M 4	6	4.0	7.0	3.0	4.5	A2 s/s
36633.W0408	M 4	8	4.0	7.0	3.0	4.5	A2 s/s
36633.W0410	M 4	10	4.0	7.0	3.0	4.5	A2 s/s
36633.W0412	M 4	12	4.0	7.0	3.0	4.5	A2 s/s
36633.W0416	M 4	16	4.0	7.0	3.0	4.5	A2 s/s
36633.W0420	M 4	20	4.0	7.0	3.0	4.5	A2 s/s
36633.W0508	M 5	8	5.0	8.5	4.0	5.6	A2 s/s
36633.W0510	M 5	10	5.0	8.5	4.0	5.6	A2 s/s
36633.W0512	M 5	12	5.0	8.5	4.0	5.6	A2 s/s
36633.W0516	M 5	16	5.0	8.5	4.0	5.6	A2 s/s
36633.W0520	M 5	20	5.0	8.5	4.0	5.6	A2 s/s
36633.W0612	M 6	12	6.0	10.0	5.0	6.8	A2 s/s
36633.W0616	M 6	16	6.0	10.0	5.0	6.8	A2 s/s
36633.W0620	M 6	20	6.0	10.0	5.0	6.8	A2 s/s
36633.W0625	M 6	25	6.0	10.0	5.0	6.8	A2 s/s
36633.W0630	M 6	30	6.0	10.0	5.0	6.8	A2 s/s
36633.W0812	M 8	12	8.0	13.0	6.0	8.5	A2 s/s
36633.W0816	M 8	16	8.0	13.0	6.0	8.5	A2 s/s
36633.W0820	M 8	20	8.0	13.0	6.0	8.5	A2 s/s
36633.W0825	M 8	25	8.0	13.0	6.0	8.5	A2 s/s
36633.W0830	M 8	30	8.0	13.0	6.0	8.5	A2 s/s
36633.W1016	M10	16	10.0	16.0	8.0	10.6	A2 s/s
36633.W1020	M10	20	10.0	16.0	8.0	10.6	A2 s/s



Cap Head Seal Screws

hex. socket



Material

A2 s/s

A2 s/s A2 s/s

A2 s/s A2 s/s A2 s/s A2 s/s A2 s/s A2 s/s VI s/s

d₃ ±0.05

10.6

10.6

10.6

12.85 12.85 12.85 12.85

12.85 4.5

Order No.	d_1	I_1	h ₁ max.	d ₂ max.	A/F
36633.W1025	M10	25	10.0	16.0	8.0
36633.W1030	M10	30	10.0	16.0	8.0
36633.W1040	M10	40	10.0	16.0	8.0
36633.W1220	M12	20	12.0	18.0	10.0
36633.W1225	M12	25	12.0	18.0	10.0
36633.W1230	M12	30	12.0	18.0	10.0
36633.W1240	M12	40	12.0	18.0	10.0
36633.W1250	M12	50	12.0	18.0	10.0
36633.W0420-A4B	M 4	20	4.0	7.0	3.0

Sealing Screws



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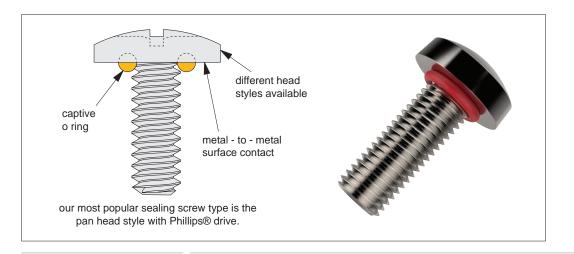


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Wixroyd Sealing Screws

why use a sealing screw?



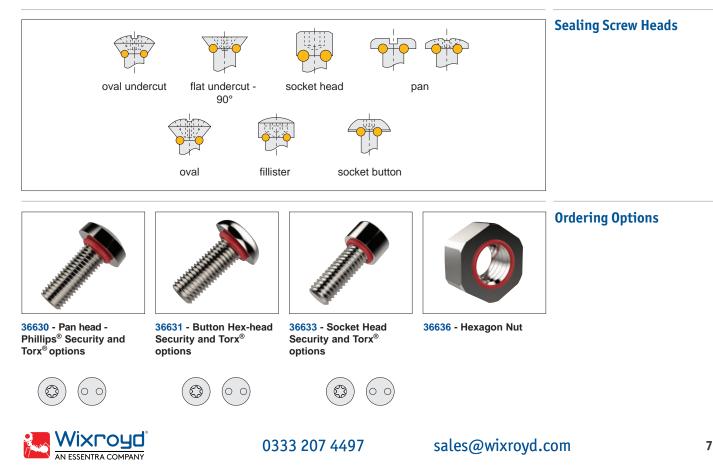


An ordinary screw lacks seal protection, allowing dirt, fluids, gases etc to infiltrate and damage sensitive devices. Sealing screws provide bi-directional sealing protection to systems where screws are used, to protect them against dirt, chemicals, water or other contaminates, which (without the screw seal), may penetrate and cause damage, or alternatively where gases and liquids may leak out.

Sealing screws are designed and manufactured with a precision engineered groove beneath the head of the fastener to accommodate the integral O-ring. As the fastener is tightened, the O-ring is compressed, squeezing it between the groove and mating surface to complete the seal. The design of the groove controls the amount of compression of the O-ring, and because O-rings retain their elastic memory, the screws are reusable time after time.

The seal provides bi-directional sealing which provides a total barrier seal against internal or external conditions (water, fluids, chemicals, dirt, air, contaminants etc) which could otherwise penetrate and damage systems. The screws are very easy to use and do not need any special preparation or re-tightening.

There are a range of O-ring materials that can resist virtually all chemical and environmental conditions. We can also provide sealing screws (on request) to military specifications (MILSPEC).





Wixroyd Sealing Screws

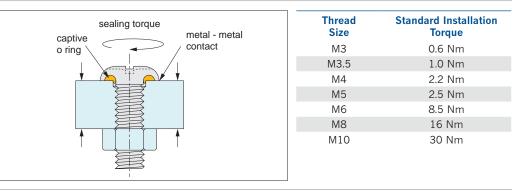
installation



Optimal performance

Self-sealing Screw	When using self-sealing screws a h when torqued.	igh pressure seal is formed alon	g the thread's contact surface			
	If possible, and to ensure maximum sealing performance, we recommend a clearance hole (see table below), this creates room for the 0-ring to flow into.					
	The aim is to ensure full metal-to-metal contact between the underside of the fastener and the mounting surface.					
	If a clearance hole cannot be utilized, the 0-ring will still function as it will compress to fill the gap between the male and female surfaces.					
	We also have a range of sealing nuts to complement our range of sealing screws. These sealing nuts often eliminate the need for gaskets, compounds and surface preparation. They are widely used in the hydraulic, pneumatic or fuel systems industries.					
	They are invaluable when a vacuun liquid pressure is a factor. Domed r	•	le a complete seal when gaseous or e exceptional vibration resistance.			
Applications	Some of the typical applications fo	r our sealing screws include:				
	 Motors 	• Fuel tanks	• Computer disk drives			
	• Cabinets and enclosures	 Transmissions 	 Motion control valves 			
	 Sensors and instrumentation 	Gear boxes	 Missile tanks 			
	 Internal combustion engines 	• Air cylinders	• Wet wings			
	• Gear pumps	 Pressure gauges 				

Installation Torque



Clearance Hole Ø -Recommended

Max clearance hole Ø	break sharp edges		1
2,44	\ . °	captive	+
2,95	clearance hole Ø	o ring	
3,45		1	
3,66		depth h	
4,55		(2-3 x pitch)	E
5,56	1	5	
6,66			
9,04	clearance hole Ø		90°
11,05		captive	
14,05		o ring	· · · · · · · · · · · · · · · · · · ·
16,05		depth	
18,06		(2-3 x pitch)	

For optimal seal screw performance we recommend creating a clearance hole in the panel into which the 0-ring can be fitted. This causes the 0-ring to create a complete seal, and the clearance hole thus prevents extrusion into the metal when the screw is under pressure.



Nom. Size

M2 M2,5 M3 M3,5 M4 M5 M6 M8 M10 M12 M14 M16

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Wixroyd Sealing Screws

drive types and 0 ring selection



Schematic	Drive Types	Uses	Drive Types
\bigcirc	Hexagonal	Ideal for precision assembly. Most recommended where less surface area is available.	
F	Cross Drive (Phillips [®])	Most recommended drive type. Provides good control in driving. Always use a driver bit of the proper size which is in good condition.	
	Hexalobular (Torx [®])	Positive-engaging, fast-locating method which transmits drive torque with less required downward pressure. Good fastening appearance.	
$\bigcirc \bigcirc \bigcirc$	Security	These screws are impossible to remove without the special matching screwdriver.	

We can provide Torx[®] heads and security/tamper-proof screws, as well as special threads, grooves and cross holes for safety wires, and a further range of styles such as captive screws, anti-vibration strips on the threads etc (for extreme vibration applications).

Standard O rings are red silicone, but a further five O ring material types are readily available. The main factor to consider when selecting an O ring type is the environment in which it will be placed, and the temperature range it will be subjected to.

initient in which it will be placed,

O ring Selection

Material	Notes
Silicone (SI)	Our standard O ring type with a wide temperature range -60°C to +200°C. Resistant to moderate or oxidising chemical, but not generally oil or solvent resistant.
Fluorosilicone (FS)	Widely used in the automotive and aerospace industries as it has excellent resistance to fuel, oil and solvents. Standard temperature range -50°C to +170°C.
EPDM (EP)	These O rings are very suited for outdoor environments and are good for weather and water resistant applications having excellent ozone, steam and chemical resistance. Temperature range -50°C to +110°C.
Viton-fluorocarbon (VI)	These seals are widely used on aircraft engines and automotive fuel handling systems as they have excellent fuel, oil and solvent resistance. Standard temperature range -50°C to +200°C
Nitrile (NI)	Widely used as highly resistant to petroleum based substances, water and alcohols. Temperature range -50°C to +110°C.

Other O rings types can include Neoprene, Buna N, Teflon etc.





Wixroyd Sealing Screws

materials



Materials

Our standard screw material is stainless steel (AISI 303, 1.4305). Other materials available are aluminium (non-magnetic and 1/3 weight of steel), brass (high electrical conductivity, non-magnetic and good corrosion resistance), titanium (low weight, very strong and highly corrosion resistant), stainless steel (A4, AISI 316).

Fasteners can be supplied to MILSPEC standards (MIL-S-82496A) on request.

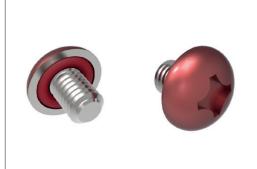
Finishes

SEALING SCREWS

Finishes are dependent on the material you are wishing to coat and subject to minimum quantities.

Finish	Notes	
Black Chrome (MIL-C-1458B)	Black chrome is a hard, non-reflective coating which is resistant to abrasion, heat and erosion. The black chrome surface is a dull, dark grey and may be waxed or oiled to darken surface.	
Black Oxide Coating (MIL-C-13924B)	Black oxide is a uniform black coating for ferrous metals. Generally it is considered a decorative coating and provides only very limited corrosion protection under mild corrosion conditions.	
Cadmium	Cadmium is a bright, silvery white plating. Supplementary treatments for Type II can be golden, iridescent, amber, black or olive drab.	
Passivate (QQ-P-35/MIL S-500SC)	Passivation is a process designed to remove foreign metals from the surface of stainless and corrosion resistant steels.	
Phosphate Coating Light (TT-C-00490B)	Phosphate coating is a light coating for use as a base paint.	
Gold (MIL-G-45204B)	Yellow to orange colour depending on proprietary process used. Will range from matt to bright finish depending on base metal. Good corrosion resistance and high tarnish resistance.	
Nickel (QQ-N-290A)	Nickel is a corrosion protective plating for steel, zinc and zinc alloys as well as copper and copper alloys.	
Zinc (QQ-Z-325C)	The primary use of chromate finishes on zinc is to retard or prevent formation of white corrosion products on zinc surfaces.	





Shoulder Screws

Painted Heads



Captive Screws

Security Heads (Tamper Proof)

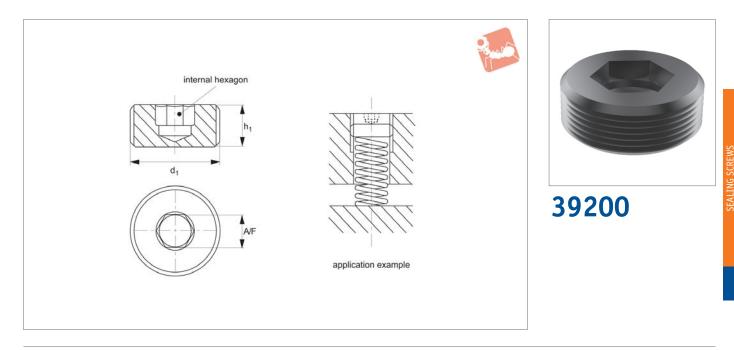






Blanking Plugs





Material

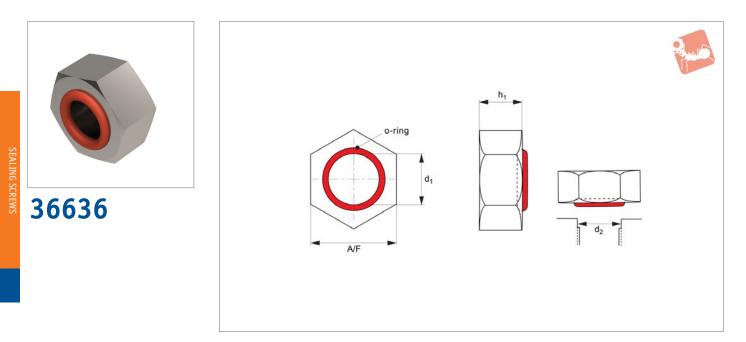
Steel, blackened. Strength class 5.8, 500 N/mm²

Order No.	d ₁	h ₁	A/F
39200.W0012	M12x1,5	10	6
39200.W0016	M16x1,5	10	8
39200.W0020	M20x1,5	12	10
39200.W0024	M24x1,5	12	14
39200.W0027	M27x1,5	12	14
39200.W0030	M30x1,5	12	17
39200.W0033	M33x1,5	12	17



Integral Seal Hex. Nuts Stainless





Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 N/mm²), with silicone "0" ring as standard.

Sealing Screws

For other "O" ring materials see technical data pages,

(-FS = fluorosilicone, -EP = EPDM, -VI =

viton, -NI = nitrile, -BN = Buna etc.).

Technical Notes

Seals substances in and contaminants out, re-useable.

Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi).

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.

Order No.	d_1	A/F	d ₂ ±0.05	h ₁ max.	Material
36636.W0020	M 2	4	2.35	1.6	A2 s/s
36636.W0025	M2,5	5	2.75	2.0	A2 s/s
36636.W0030	M 3	5.5	3.6	2.4	A2 s/s
36636.W0040	M 4	7	4.5	3.2	A2 s/s
36636.W0050	M 5	8	5.6	4.7	A2 s/s
36636.W0060	M 6	10	6.8	5.2	A2 s/s
36636.W0080	M 8	13	8.5	6.8	A2 s/s
36636.W0100	M10	16	10.6	8.4	A2 s/s
36636.W0120	M12	18	12.85	10.8	A2 s/s
36636.W0140	M14	21	15.1	12.8	A2 s/s
36636.W0160	M16	24	17.5	14.8	A2 s/s

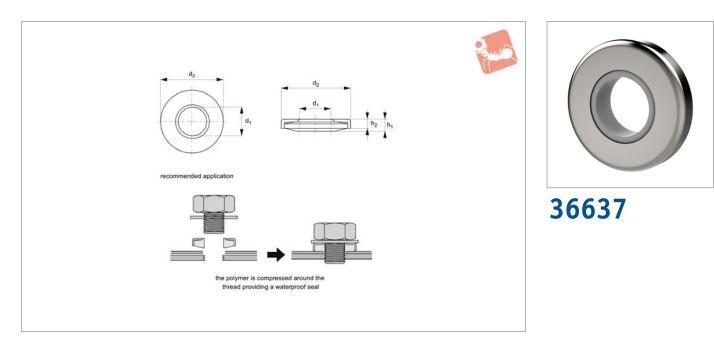




Waterproof Seal Washers

304 stainless steel





Material

Stainless steel (AISI 304, 1.4301), with thermoplastic elastomer (TPE) insert.

Technical Notes

Seals substances in and contaminants out. For watertight applications, the seal is best placed against a smooth material, ensuring a tight seal is created.

Tips

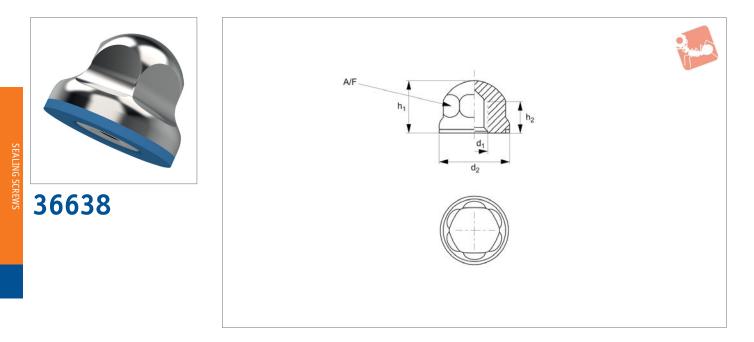
We recommend installing a flat washer above the sealing washer to ensure that uniform pressure is applied to the elastomer inside the washer. We recommend that you test the sealing washer in your application to determine the optimum tightening torque. For use at -30 °C to 90 °Č.

Order No.	For thread	d_1	d ₂	h ₁	h ₂	Recommended tightening torque Nm	Rated pressure (liquids) Bar max.	Rated pressure (gases) Bar max.	Weight g
36637.W0030	М З	3.0	8	3.1	2.5	0,3-0,6	7	7	0.4
36637.W0040	M 4	4.1	10	3.5	3.0	0,8-1,5	7	7	0.6
36636.SP005	M 5	5.1	12	3.5	3.0	1,5-3,0	7	7	1.0
36637.W0060	M 6	6.1	14	3.5	3.0	2,5-5,0	7	7	1.0
36636.SP006	M 8	8.1	18	4.0	3.0	6,2-12	7	7	2.0
36637.W0100	M10	10.1	23	4.0	3.0	24-12	7	7	3.0
36637.W0120	M12	12.1	25	4.0	3.0	21-42	7	7	4.0
36637.W0160	M16	16.1	30	4.5	3.0	53-106	7	7	6.0
36637.W0200	M20	20.1	37	4.5	3.0	103 min.	7	7	9.0



Sealing Screws





Material

AISI 304 stainless steel high-gloss polished dome-nut, FDA blue silicone gasket, 3-A accepted. Available on request in AISI 316.

Technical Notes

For use in hygienic areas, components can be mounted without dead spaces. Sealing ring is hydrogenated acrylonitrile butadiene rubber (H-NBR), hardness 85±5 shore A, temp range -25°C to +150°C, blue.

Polished finish Ra < 0,8µ

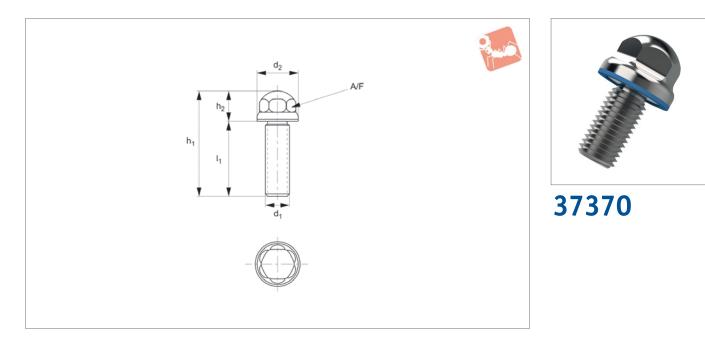
Order No.	d ₁	d ₂	h ₁	h ₂	A/F
36638.W0003	M 3x0,5	15	12	8	HEX 10
36638.W0004	M 4x0,7	15	12	8	HEX 10
36638.W0005	M 5x0,8	19	17	12	HEX 14
36638.W0006	M 6x1	19	17	12	HEX 14
36638.W0008	M 8x1,25	24	23	15	HEX 17
36638.W0010	M10x1,5	24	23	15	HEX 17
36638.W0012	M12x1,75	24	23	15	HEX 17
36638.W0014	M14x2	30	28	20	HEX 22
36638.W0016	M16x2	30	28	20	HEX 22
36638.W0020	M20x2,5	35	34	25	HEX 27
36638.W0024	M24x3	42	40	30	HEX 32





Hygienic Screws - Male 304 stainless steel





Material

Stainless steel (AISI 304) high-gloss polished dome-nut, FDA blue silicone gasket, 3-A accepted.

Technical Notes

For use in hygienic areas, components can

be mounted without dead spaces. Sealing ring is hydrogenated acrylonitrile butadiene rubber (H-NBR), hardness 85±5 shore A, temp range -25°C to +150°C, blue. Polished finish Ra < 0,8µ.

Order No.	d ₁	d ₂	h ₁	I ₁	h ₂	A/F
37370.W0510	M5x0,8	19	24	10	14	HEX 14
37370.W0516	M5x0,8	19	26	16	10	HEX 14
37370.W0520	M5x0,8	19	34	20	14	HEX 14
37370.W0612	M6x1	19	26	12	14	HEX 14
37370.W0616	M6x1	19	30	16	14	HEX 14
37370.W0620	M6x1	19	34	20	14	HEX 14
37370.W0625	M6x1	19	39	25	14	HEX 14
37370.W0630	M6x1	19	44	30	14	HEX 14
37370.W0816	M8x1,25	24	33	16	17	HEX 17
37370.W0820	M8x1,25	24	37	20	17	HEX 17
37370.W0825	M8x1,25	24	42	25	17	HEX 17
37370.W0830	M8x1,25	24	47	30	17	HEX 17
37370.W0840	M8x1,25	24	57	40	17	HEX 17
37370.W1020	M10x1,5	24	37	20	17	HEX 17
37370.W1025	M10x1,5	24	42	25	17	HEX 17
37370.W1030	M10x1,5	24	47	30	17	HEX 17
37370.W1040	M10x1,5	24	57	40	17	HEX 17
37370.W1050	M10x1,5	24	67	50	17	HEX 17
37370.W1220	M12x1,75	24	27	20	7	HEX 17
37370.W1225	M12x1,75	24	42	25	17	HEX 17
37370.W1230	M12x1,75	24	47	30	17	HEX 17
37370.W1240	M12x1,75	24	57	40	17	HEX 17
37370.W1250	M12x1,75	24	67	50	17	HEX 17
37370.W1630	M16x2	30	52	30	22	HEX 22
37370.W1640	M16x2	30	62	40	22	HEX 22
37370.W1650	M16x2	30	72	50	22	HEX 22
37370.W1660	M16x2	30	82	60	22	HEX 22
37370.W1670	M16x2	30	92	70	22	HEX 22
37370.W1680	M16x2	30	102	80	22	HEX 22
37370.W2030	M20x2,5	35	56	30	26	HEX 27
3/3/0.₩2030						
37370.W2030 37370.W2040 37370.W2050	M20x2,5 M20x2,5	35 35	66 76	40 50	26 26	HEX 27 HEX 27



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Hygienic Screws - Male 304 stainless steel



A/F

HEX 27 HEX 27 HEX 27

Order No.	d ₁	d ₂	h ₁	I_1	h ₂
37370.W2060	M20x2,5	35	86	60	26
37370.W2070	M20x2,5	35	96	70	26
37370.W2080	M20x2,5	35	106	80	26

Sealing Screws



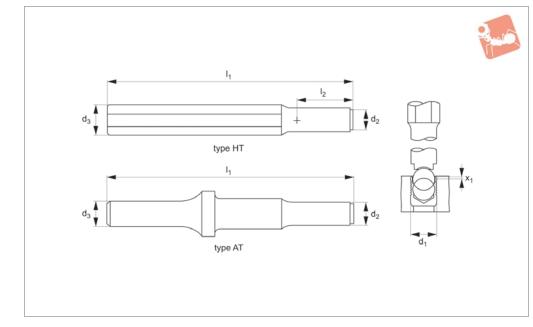
16



Setting Tool for Sealing Plugs









Material

Tool steel, heat-treated.

Technical Notes

Please consult technical pages for installa-

tion instructions and performance data. Hand tool version and air tool (for multiple installations).

Ensure the ball is fully seated before

applying pressure.

Tips Metric dimensions in mm. Inch dimensions in inches.

39008.W1030 3.0					±0.2	
0.0	2.8	9.53	127	10	0.4	Hand
39008.W1040 4.0	3.8	9.53	127	10	0.2	Hand
39008.W1070 7.0	6.8	9.53	127	18	0.4	Hand
39008.W1080 8.0	7.8	9.53	127	20	0.3	Hand

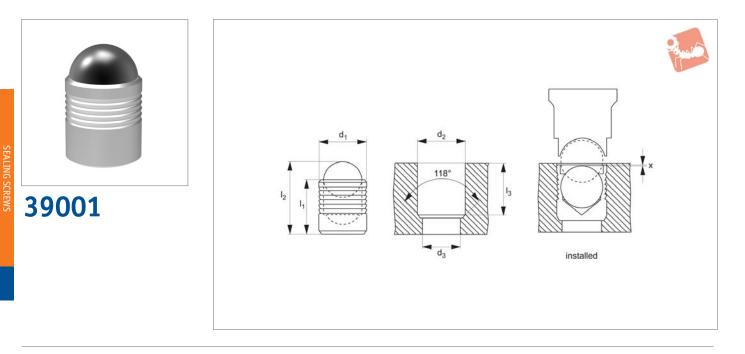


Sealing Screws

Expansion Sealing Plugs

Metric - standard





Material

Plug body: case hardened steel (zincplated), stainless steel (A2, AISI 303 & A4 AISI 316) or aluminium (2024-T4). Ball: heat-treated bearing steel or stainless steel (A2, AISI 303 & A4 AISI 316).

Technical Notes

These high pressure sealing plugs are used to blank off externally drilled holes for air

and gas.

No need for tapping, reaming, machining of 0-ring grooves or the use of tapes or sealants.

Ensure the ball is fully seated before applying pressure.

Tips

Working pressure up to 450 bar (dependent on body material and material into which

installed).

Please consult technical pages for installation instructions and performance data.

Important Notes Please refer to technical pages for product installation details.

Order No.	d_1	I ₁	l ₂	d ₂ +0.1 -0.0	d ₃	l ₃	× ±0.2	Body	Ball
39001.W1040	4.0	1.0	E O	1	max.	min.			Chaol
	4.0	4.0	5.2	4.0	3.3	3.8	0.2	Steel ZP	Steel
39001.W1050	5.0	5.5	7.1	5.0	4.3	5.3	0.4	Steel ZP	Steel
39001.W1060	6.0	6.5	8.7	6.0	5.3	6.3	0.4	Steel ZP	Steel
39001.W1070	7.0	7.5	10.2	7.0	6.4	7.3	0.4	Steel ZP	Steel
39001.W1080	8.0	8.5	11.6	8.0	7.4	8.3	0.3	Steel ZP	Steel
39001.W1100	10.0	11.0	15.2	10.0	9.4	10.8	0.4	Steel ZP	Steel
39001.W1160	16.0	17.0	23.4	16.0	14.7	16.5	0.6	Steel ZP	Steel
39001.W2030	3.0	3.6	4.6	3.0	2.2	3.4	0.4	A2 s/s	Steel
39001.W2040	4.0	4.0	5.2	4.0	3.3	3.8	0.2	A2 s/s	Steel
39001.W2050	5.0	5.5	7.1	5.0	4.3	5.3	0.4	A2 s/s	Steel
39001.W2060	6.0	6.5	8.7	6.0	5.3	6.3	0.4	A2 s/s	Steel
39001.W2120	12.0	13.0	17.9	12.0	10.6	12.8	0.4	A2 s/s	Steel
39001.W2160	16.0	17.0	23.4	16.0	14.7	16.5	0.6	A2 s/s	Steel
39001.W5030	3.0	3.6	4.6	3.0	2.2	3.4	0.4	Aluminium	A2 s/s
39001.W5050	5.0	5.5	7.1	5.0	4.3	5.3	0.4	Aluminium	A2 s/s
39001.W3030	3.0	3.6	4.6	3.0	2.2	3.4	0.4	A2 s/s	A2 s/s
39001.W3040	4.0	4.0	5.2	4.0	3.3	3.8	0.2	A2 s/s	A2 s/s
39001.W3050	5.0	5.5	7.1	5.0	4.3	5.3	0.4	A2 s/s	A2 s/s
39001.W3060	6.0	6.5	8.7	6.0	5.3	6.3	0.4	A2 s/s	A2 s/s
39001.W3080	8.0	8.5	11.6	8.0	7.4	8.3	0.3	A2 s/s	A2 s/s
39001.W3140	14.0	15.0	20.6	14.0	12.7	14.5	0.4	A2 s/s	A2 s/s
39001.W3160	16.0	17.0	23.4	16.0	14.7	16.5	0.6	A2 s/s	A2 s/s

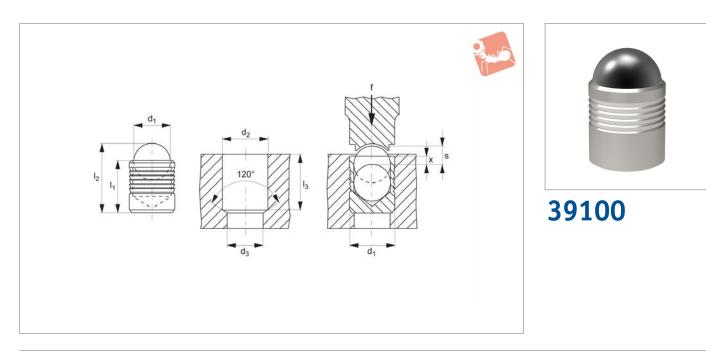




Expander[®] Sealing Plugs stainless steel body

Sealing Screws

SEALING SCREWS



Material

Body: stainless steel 1,4305 (AISI 303). Ball: roller bearing steel, heat-treated, tempered.

Technical Notes

Expander sealing plugs are used for safe,

quick and economic sealing of bore holes in fluid technology, e.g. hydraulic drilling holes in jig and fixtures. Setting dies are required for assembly.

For assembly instructions please see tech-

Tips

nical pages.

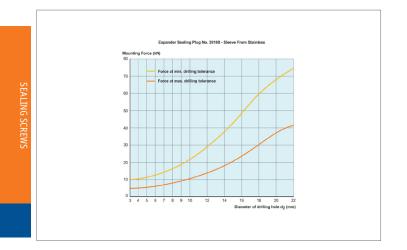
Order No.	d ₁	Ι1	l ₂	d ₂	d ₃	l ₃	x	S	Weight
			*	+0.1	max.	min.	±0.2		g
39100.W0053	3	3.6	4.6	3	2.2	3.4	0.4	1.20	0.1
39100.W0054	4	4.0	5.2	4	3.3	3.8	0.2	1.50	0.3
39100.W0055	5	5.5	7.0	5	4.3	5.3	0.4	2.00	0.7
39100.W0056	6	6.5	8.6	6	5.3	6.3	0.4	2.50	1.3
39100.W0057	7	7.5	10.1	7	6.4	7.3	0.4	3.00	2.4
39100.W0058	8	8.5	11.7	8	7.4	8.3	0.3	3.50	3.2
39100.W0059	9	10.0	13.7	9	8.4	9.8	0.4	4.00	4.5
39100.W0060	10	11.0	15.2	10	9.4	10.8	0.4	4.50	6.1
39100.W0062	12	13.0	18.0	12	10.6	12.8	0.4	5.50	9.7
39100.W0064	14	15.0	20.8	14	12.7	14.5	0.4	6.35	15.0
39100.W0066	16	17.0	23.7	16	14.7	16.5	0.6	7.00	22.0
39100.W0068	18	19.0	26.3	18	16.7	18.5	0.6	8.00	31.0
39100.W0070	20	22.0	30.5	20	18.7	21.5	0.8	9.00	46.0
39100.W0072	22	25.0	34.2	22	20.7	24.5	0.8	10.00	58.0





Expander[®] Sealing Plugs stainless steel body







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