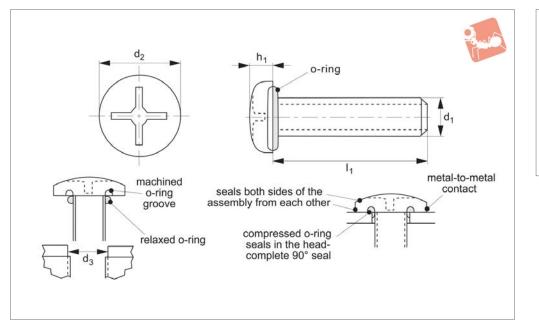


Pan Head Seal Screws

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	М З	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

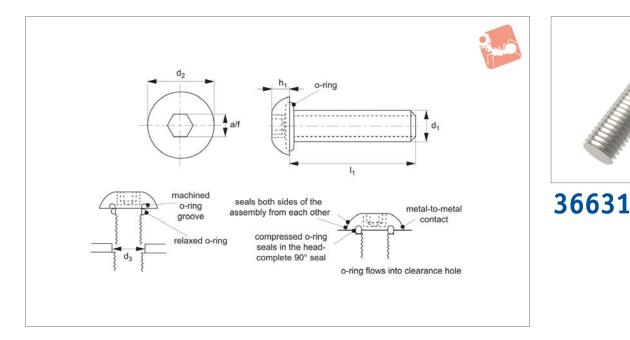




Button Head Seal Screws

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 10 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								
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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

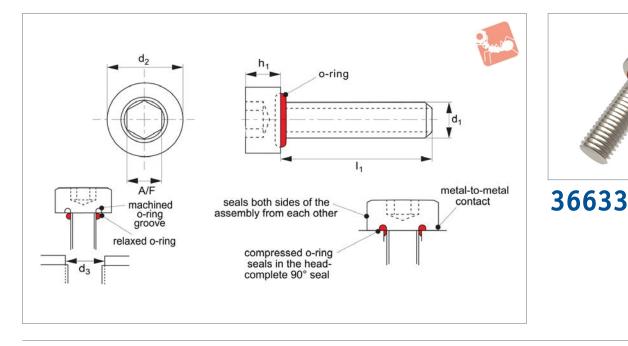




Cap Head Seal Screws

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	d ₂	A/F	d ₃	Material
			max.	max.		±0.05	
36633.W0306	M 3	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

	Order No.	d ₁	I ₁	h ₁	d ₂	A/F	d ₃
				max.	max.		±0.05
	36633.W1025	M10	25	10.0	16.0	8.0	10.6
	36633.W1030	M10	30	10.0	16.0	8.0	10.6
	36633.W1040	M10	40	10.0	16.0	8.0	10.6
	36633.W1220	M12	20	12.0	18.0	10.0	12.85
	36633.W1225	M12	25	12.0	18.0	10.0	12.85
	36633.W1230	M12	30	12.0	18.0	10.0	12.85
	36633.W1240	M12	40	12.0	18.0	10.0	12.85
~	36633.W1250	M12	50	12.0	18.0	10.0	12.85
SFALT	36633.W0420-A4B	M 4	20	4.0	7.0	3.0	4.5

Sealing Screws



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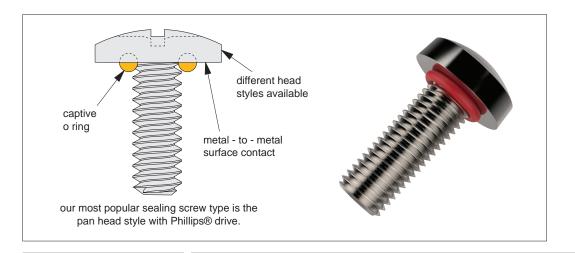


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Wixroyd Sealing Screws

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 0-ring materials that can resist virtually all chemical and environmental conditions. We can also provide sealing screws (on request) to military specifications (MILSPEC).



Why use Sealing Screws?



Wixroyd Sealing Screws

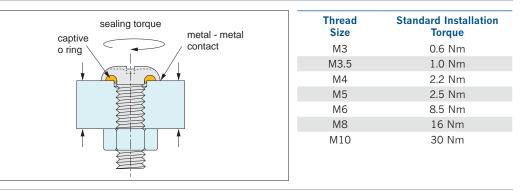
installation



Optimal performance

Self-sealing Screw	When using self-sealing screws a high pressure seal is formed along the thread's contact surface when torqued.					
	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-r mounting surface.	netal contact between the unde	erside of the fastener and the			
	If a clearance hole cannot be utilized, the O-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

Nom. Size	Max clearance hole Ø	break sharp edges
M2	2,44	captive
M2,5	2,95	clearance o ring
M3	3,45	
M3,5	3,66	depth
M4	4,55	(2-3 x pitch)
M5	5,56	
M6	6,66	
M8	9,04	clearance hole Ø 90°
M10	11,05	captive
M12	14,05	o ring
M14	16,05	depth (2.2 u sitek)
M16	18,06	(2-3 x pitch)

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



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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.	
	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.

0 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.		
ł	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)

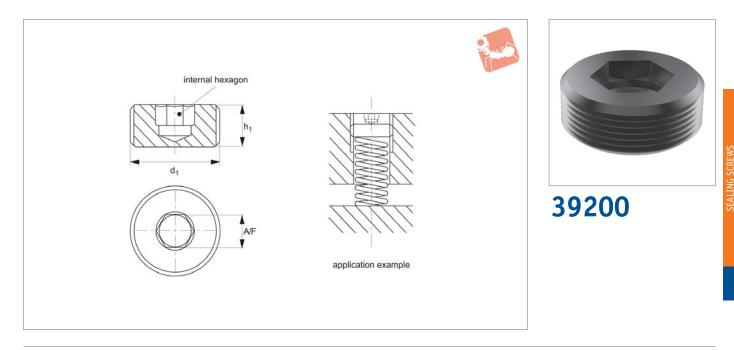


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Blanking Plugs





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

