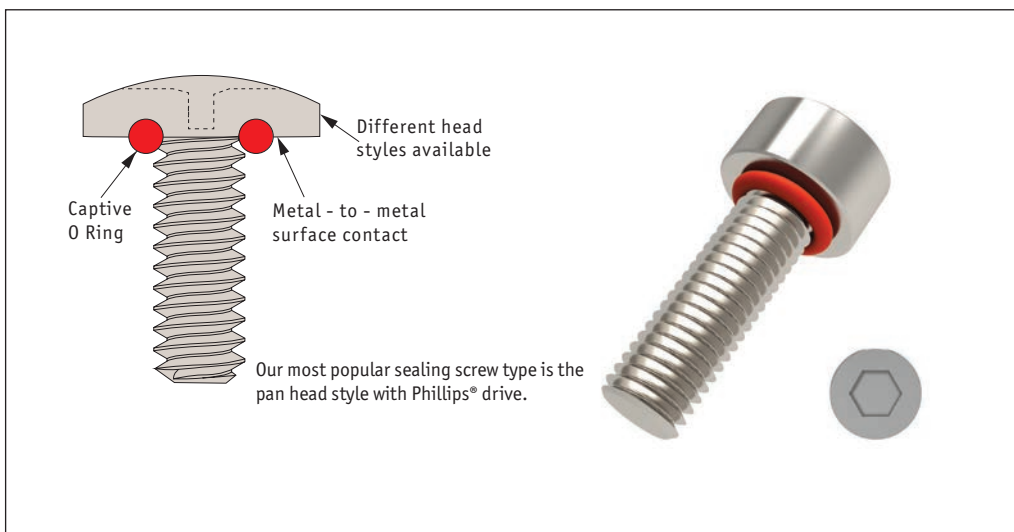




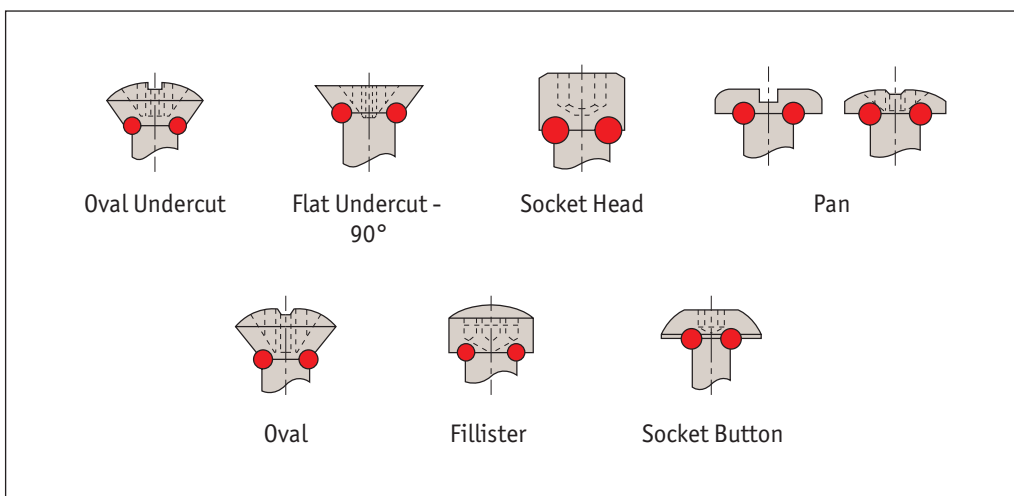
An ordinary screw lacks seal protection, allowing dirt, fluids, gases etc to infiltrate and damage sensitive devices. Sealing screws provide bi-directional sealing protection to systems where screws are used to protect them against dirt, chemicals, water or other contaminants, which (without the screw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

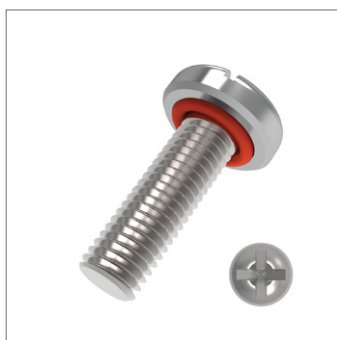
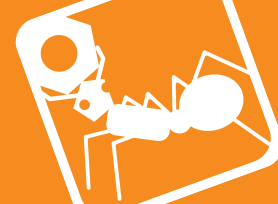
The seal screws incorporate an O ring underneath the screw, bolt etc which forms a sealant layer. The seal provides bi-directional sealing. The screws are very easy to use and do not need any special preparation or re-tightening.

Integral seal fasteners are designed and manufactured with a precision engineered groove beneath the head of the fastener. As the fastener is tightened, the O-ring is compressed, squeezing the O-ring 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.

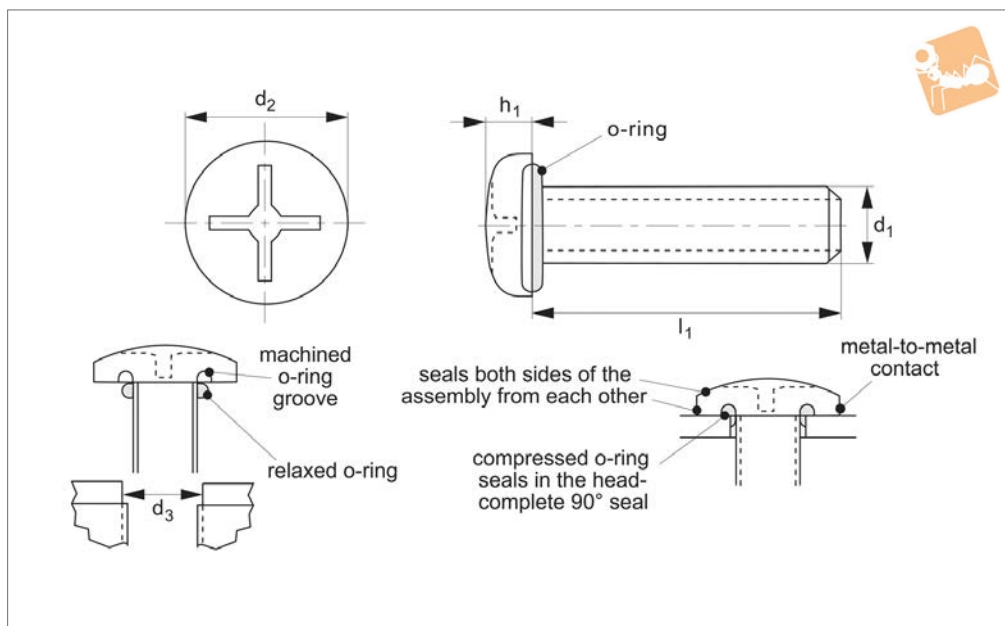
There are a range of O ring materials that can resist virtually all chemical and environmental conditions. We can also provide sealing screws (on request) to military specifications (MILSPEC).

The screws are widely used in military, medical and industrial devices. Each screw is equipped with a captive O ring 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.





P0170



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	l ₁	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
P0170.020-003-SI	M 2	3	1.6	4.0	2.35	PH-1
P0170.020-004-SI	M 2	4	1.6	4.0	2.35	PH-1
P0170.020-008-SI	M 2	8	1.6	4.0	2.35	PH-1
P0170.020-010-SI	M 2	10	1.6	4.0	2.35	PH-1
P0170.020-012-SI	M 2	12	1.6	4.0	2.35	PH-1
P0170.025-006-SI	M2,5	6	2.1	4.7	2.75	PH-1
P0170.025-008-SI	M2,5	8	2.1	4.7	2.75	PH-1
P0170.025-010-SI	M2,5	10	2.1	4.7	2.75	PH-1
P0170.025-012-SI	M2,5	12	2.1	4.7	2.75	PH-1
P0170.025-016-SI	M2,5	16	2.1	4.7	2.75	PH-1
P0170.025-020-SI	M2,5	20	2.1	4.7	2.75	PH-1
P0170.025-025-SI	M2,5	25	2.1	4.7	2.75	PH-1
P0170.025-030-SI	M2,5	30	2.1	4.7	2.75	PH-1
P0170.025-035-SI	M2,5	35	2.1	4.7	2.75	PH-1
P0170.030-006-SI	M 3	6	2.4	6.0	3.6	PH-1
P0170.030-008-SI	M 3	8	2.4	6.0	3.6	PH-1
P0170.030-010-SI	M 3	10	2.4	6.0	3.6	PH-1
P0170.030-012-SI	M 3	12	2.4	6.0	3.6	PH-1
P0170.030-016-SI	M 3	16	2.4	6.0	3.6	PH-1
P0170.030-020-SI	M 3	20	2.4	6.0	3.6	PH-1
P0170.030-030-SI	M 3	30	2.4	6.0	3.6	PH-1
P0170.030-035-SI	M 3	35	2.4	6.0	3.6	PH-1
P0170.030-040-SI	M 3	40	2.4	6.0	3.6	PH-1
P0170.040-006-SI	M 4	6	3.1	8.0	4.5	PH-2
P0170.040-008-SI	M 4	8	3.1	8.0	4.5	PH-2
P0170.040-010-SI	M 4	10	3.1	8.0	4.5	PH-2
P0170.040-012-SI	M 4	12	3.1	8.0	4.5	PH-2
P0170.040-016-SI	M 4	16	3.1	8.0	4.5	PH-2

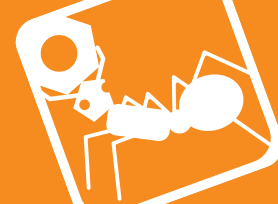


Pan Head Seal Screws

phillips drive

Sealing Screws and Plugs

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
P0170.040-020-SI	M 4	20	3.1	8.0	4.5	PH-2
P0170.040-030-SI	M 4	30	3.1	8.0	4.5	PH-2
P0170.040-035-SI	M 4	35	3.1	8.0	4.5	PH-2
P0170.040-040-SI	M 4	40	3.1	8.0	4.5	PH-2
P0170.050-008-SI	M 5	8	3.7	10.0	5.6	PH-2
P0170.050-010-SI	M 5	10	3.7	10.0	5.6	PH-2
P0170.050-012-SI	M 5	12	3.7	10.0	5.6	PH-2
P0170.050-016-SI	M 5	16	3.7	10.0	5.6	PH-2
P0170.050-020-SI	M 5	20	1.6	10.0	5.6	PH-2
P0170.050-030-SI	M 5	30	1.6	10.0	5.6	PH-2
P0170.050-035-SI	M 5	35	1.6	10.0	5.6	PH-2
P0170.050-040-SI	M 5	40	1.6	10.0	5.6	PH-2
P0170.060-012-SI	M 6	12	4.6	12.0	6.8	PH-3
P0170.060-016-SI	M 6	16	4.6	12.0	6.8	PH-3
P0170.060-020-SI	M 6	20	4.6	12.0	6.8	PH-3
P0170.060-025-SI	M 6	25	4.6	12.0	6.8	PH-3
P0170.060-030-SI	M 6	30	4.6	12.0	6.8	PH-3
P0170.060-035-SI	M 6	35	4.6	12.0	6.8	PH-3
P0170.060-040-SI	M 6	40	4.6	12.0	6.8	PH-3
P0170.060-045-SI	M 6	45	4.6	12.0	6.8	PH-3
P0170.060-050-SI	M 6	50	4.6	12.0	6.8	PH-3
P0170.080-012-SI	M 8	12	6.0	16.0	8.5	PH-4
P0170.080-016-SI	M 8	16	6.0	16.0	8.5	PH-4
P0170.080-020-SI	M 8	20	6.0	16.0	8.5	PH-4
P0170.080-025-SI	M 8	25	6.0	16.0	8.5	PH-4
P0170.080-030-SI	M 8	30	6.0	16.0	8.5	PH-4
P0170.080-040-SI	M 8	40	6.0	16.0	8.5	PH-4
P0170.080-050-SI	M 8	50	6.0	16.0	8.5	PH-4
P0170.080-060-SI	M 8	60	6.0	16.0	8.5	PH-4
P0170.100-016-SI	M10	16	7.5	20.0	10.6	PH-4
P0170.100-020-SI	M10	20	7.5	20.0	10.6	PH-4
P0170.100-025-SI	M10	25	7.5	20.0	10.6	PH-4
P0170.100-030-SI	M10	30	7.5	20.0	10.6	PH-4
P0170.100-040-SI	M10	40	7.5	20.0	10.6	PH-4
P0170.020-003-VI	M 2	3	1.6	4.0	2.35	PH-1
P0170.020-004-VI	M 2	4	1.6	4.0	2.35	PH-1
P0170.020-008-VI	M 2	8	1.6	4.0	2.35	PH-1
P0170.020-010-VI	M 2	10	1.6	4.0	2.35	PH-1
P0170.020-012-VI	M 2	12	1.6	4.0	2.35	PH-1
P0170.025-006-VI	M2,5	6	2.1	4.7	2.75	PH-1
P0170.025-008-VI	M2,5	8	2.1	4.7	2.75	PH-1
P0170.025-010-VI	M2,5	10	2.1	4.7	2.75	PH-1
P0170.025-012-VI	M2,5	12	2.1	4.7	2.75	PH-1
P0170.030-006-VI	M 3	6	2.4	6.0	3.6	PH-1
P0170.030-008-VI	M 3	8	2.4	6.0	3.6	PH-1
P0170.030-010-VI	M 3	10	2.4	6.0	3.6	PH-1
P0170.030-012-VI	M 3	12	2.4	6.0	3.6	PH-1
P0170.030-016-VI	M 3	16	2.4	6.0	3.6	PH-1
P0170.030-020-VI	M 3	20	2.4	6.0	3.6	PH-1
P0170.040-006-VI	M 4	6	3.1	8.0	4.5	PH-2
P0170.040-008-VI	M 4	8	3.1	8.0	4.5	PH-2
P0170.040-010-VI	M 4	10	3.1	8.0	4.5	PH-2
P0170.040-012-VI	M 4	12	3.1	8.0	4.5	PH-2
P0170.040-016-VI	M 4	16	3.1	8.0	4.5	PH-2
P0170.040-020-VI	M 4	20	3.1	8.0	4.5	PH-2
P0170.050-008-VI	M 5	8	3.7	10.0	5.6	PH-2
P0170.050-010-VI	M 5	10	3.7	10.0	5.6	PH-2
P0170.050-012-VI	M 5	12	3.7	10.0	5.6	PH-2
P0170.050-016-VI	M 5	16	3.7	10.0	5.6	PH-2
P0170.050-020-VI	M 5	20	1.6	10.0	5.6	PH-2
P0170.060-012-VI	M 6	12	4.6	12.0	6.8	PH-3
P0170.060-016-VI	M 6	16	4.6	12.0	6.8	PH-3
P0170.060-020-VI	M 6	20	4.6	12.0	6.8	PH-3
P0170.060-025-VI	M 6	25	4.6	12.0	6.8	PH-3
P0170.060-030-VI	M 6	30	4.6	12.0	6.8	PH-3
P0170.080-012-VI	M 8	12	6.0	16.0	8.5	PH-4
P0170.080-016-VI	M 8	16	6.0	16.0	8.5	PH-4
P0170.080-020-VI	M 8	20	6.0	16.0	8.5	PH-4

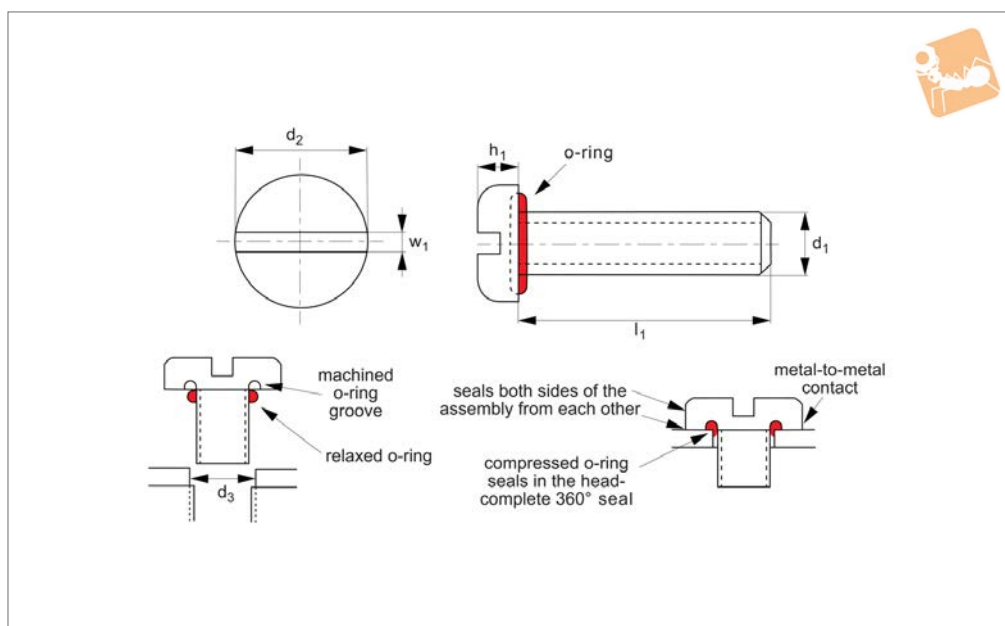


Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
P0170.080-025-VI	M 8	25	6.0	16.0	8.5	PH-4
P0170.080-030-VI	M 8	30	6.0	16.0	8.5	PH-4
P0170.100-016-VI	M10	16	7.5	20.0	10.6	PH-4
P0170.100-020-VI	M10	20	7.5	20.0	10.6	PH-4
P0170.100-025-VI	M10	25	7.5	20.0	10.6	PH-4
P0170.100-030-VI	M10	30	7.5	20.0	10.6	PH-4
P0170.100-040-VI	M10	40	7.5	20.0	10.6	PH-4



Pan Head Seal Screws slotted

Sealing Screws and Plugs



P0171

SEALING SCREWS AND PLUGS

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

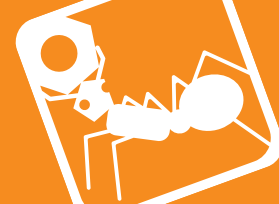
Screws generally as DIN 85 A, ISO 1580, seals substances in and contaminants out. Re-useable. Clearance holes recommended for maximum sealing.
Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi).

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	l ₁	h ₁ max.	w ₁	d ₂ max.	d ₃ ±0.05
P0171.020-004-SI	M 2	4	1.3	0.7	4.0	2.35
P0171.020-008-SI	M 2	8	1.3	0.7	4.0	2.35
P0171.020-010-SI	M 2	10	1.3	0.7	4.0	2.35
P0171.020-012-SI	M 2	12	1.3	0.7	4.0	2.35
P0171.025-006-SI	M2,5	6	1.5	0.8	5.0	2.75
P0171.025-008-SI	M2,5	8	1.5	0.8	5.0	2.75
P0171.025-010-SI	M2,5	10	1.5	0.8	5.0	2.75
P0171.025-012-SI	M2,5	12	1.5	0.8	5.0	2.75
P0171.030-006-SI	M 3	6	1.8	1.0	6.0	3.6
P0171.030-008-SI	M 3	8	1.8	1.0	6.0	3.6
P0171.030-010-SI	M 3	10	1.8	1.0	6.0	3.6
P0171.030-012-SI	M 3	12	1.8	1.0	6.0	3.6
P0171.030-020-SI	M 3	20	1.8	1.0	6.0	3.6
P0171.040-006-SI	M 4	6	2.4	1.4	8.0	4.5
P0171.040-008-SI	M 4	8	2.4	1.4	8.0	4.5
P0171.040-010-SI	M 4	10	2.4	1.4	8.0	4.5
P0171.040-012-SI	M 4	12	2.4	1.4	8.0	4.5
P0171.040-016-SI	M 4	16	2.4	1.4	8.0	4.5
P0171.040-020-SI	M 4	20	2.4	1.4	8.0	4.5
P0171.050-008-SI	M 5	8	3.0	1.6	10.0	5.6
P0171.050-010-SI	M 5	10	3.0	1.6	10.0	5.6
P0171.050-012-SI	M 5	12	3.0	1.6	10.0	5.6
P0171.050-016-SI	M 5	16	3.0	1.6	10.0	5.6
P0171.050-020-SI	M 5	20	3.0	1.6	10.0	5.6
P0171.060-012-SI	M 6	12	3.6	2.0	12.0	6.8
P0171.060-016-SI	M 6	16	3.6	2.0	12.0	6.8
P0171.060-020-SI	M 6	20	3.6	2.0	12.0	6.8
P0171.060-025-SI	M 6	25	3.6	2.0	12.0	6.8

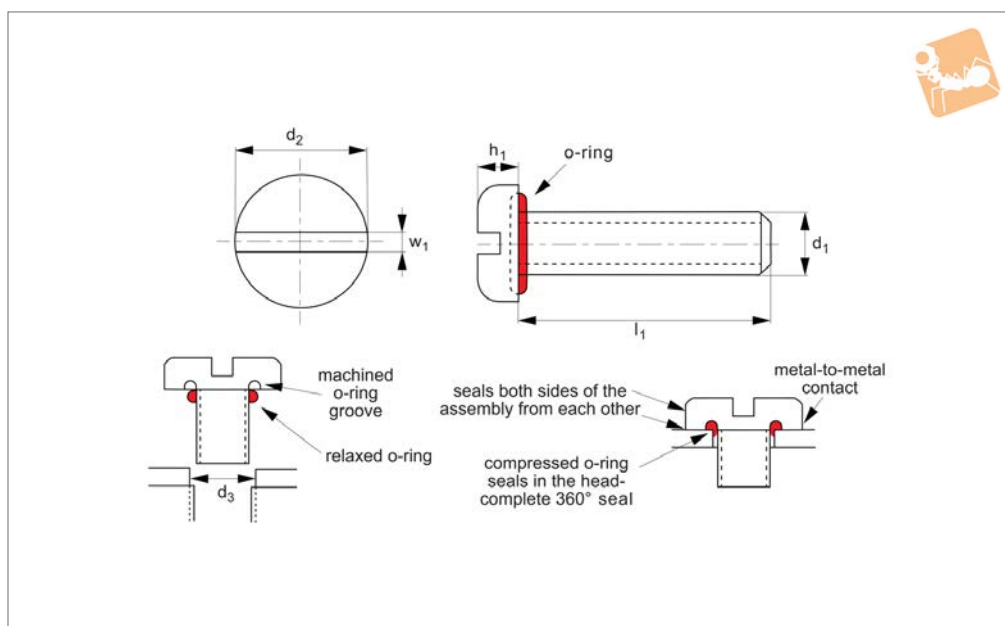


Order No.	d ₁	l ₁	h ₁ max.	w ₁	d ₂ max.	d ₃ ±0.05
P0171.060-030-SI	M 6	30	3.6	2.0	12.0	6.8
P0171.080-012-SI	M 8	12	4.8	2.5	16.0	8.5
P0171.080-016-SI	M 8	16	4.8	2.5	16.0	8.5
P0171.080-020-SI	M 8	20	4.8	2.5	16.0	8.5
P0171.080-025-SI	M 8	25	4.8	2.5	16.0	8.5
P0171.080-030-SI	M 8	30	4.8	2.5	16.0	8.5
P0171.100-016-SI	M10	16	6.0	3.0	20.0	10.6
P0171.100-020-SI	M10	20	6.0	3.0	20.0	10.6
P0171.100-025-SI	M10	25	6.0	3.0	20.0	10.6
P0171.100-030-SI	M10	30	6.0	3.0	20.0	10.6
P0171.100-040-SI	M10	40	6.0	3.0	20.0	10.6
P0171.020-004-VI	M 2	4	1.3	0.7	4.0	2.35
P0171.020-008-VI	M 2	8	1.3	0.7	4.0	2.35
P0171.020-010-VI	M 2	10	1.3	0.7	4.0	2.35
P0171.020-012-VI	M 2	12	1.3	0.7	4.0	2.35
P0171.025-006-VI	M2,5	6	1.5	0.8	5.0	2.75
P0171.025-008-VI	M2,5	8	1.5	0.8	5.0	2.75
P0171.025-010-VI	M2,5	10	1.5	0.8	5.0	2.75
P0171.025-012-VI	M2,5	12	1.5	0.8	5.0	2.75
P0171.030-006-VI	M 3	6	1.8	1.0	6.0	3.6
P0171.030-008-VI	M 3	8	1.8	1.0	6.0	3.6
P0171.030-010-VI	M 3	10	1.8	1.0	6.0	3.6
P0171.030-012-VI	M 3	12	1.8	1.0	6.0	3.6
P0171.030-020-VI	M 3	20	1.8	1.0	6.0	3.6
P0171.040-006-VI	M 4	6	2.4	1.4	8.0	4.5
P0171.040-008-VI	M 4	8	2.4	1.4	8.0	4.5
P0171.040-010-VI	M 4	10	2.4	1.4	8.0	4.5
P0171.040-012-VI	M 4	12	2.4	1.4	8.0	4.5
P0171.040-016-VI	M 4	16	2.4	1.4	8.0	4.5
P0171.040-020-VI	M 4	20	2.4	1.4	8.0	4.5
P0171.050-008-VI	M 5	8	3.0	1.6	10.0	5.6
P0171.050-010-VI	M 5	10	3.0	1.6	10.0	5.6
P0171.050-012-VI	M 5	12	3.0	1.6	10.0	5.6
P0171.050-016-VI	M 5	16	3.0	1.6	10.0	5.6
P0171.050-020-VI	M 5	20	3.0	1.6	10.0	5.6
P0171.060-012-VI	M 6	12	3.6	2.0	12.0	6.8
P0171.060-016-VI	M 6	16	3.6	2.0	12.0	6.8
P0171.060-020-VI	M 6	20	3.6	2.0	12.0	6.8
P0171.060-025-VI	M 6	25	3.6	2.0	12.0	6.8
P0171.060-030-VI	M 6	30	3.6	2.0	12.0	6.8
P0171.080-012-VI	M 8	12	4.8	2.5	16.0	8.5
P0171.080-016-VI	M 8	16	4.8	2.5	16.0	8.5
P0171.080-020-VI	M 8	20	4.8	2.5	16.0	8.5
P0171.080-025-VI	M 8	25	4.8	2.5	16.0	8.5
P0171.080-030-VI	M 8	30	4.8	2.5	16.0	8.5
P0171.100-016-VI	M10	16	6.0	3.0	20.0	10.6
P0171.100-020-VI	M10	20	6.0	3.0	20.0	10.6
P0171.100-025-VI	M10	25	6.0	3.0	20.0	10.6
P0171.100-030-VI	M10	30	6.0	3.0	20.0	10.6
P0171.100-040-VI	M10	40	6.0	3.0	20.0	10.6



Pan Head Seal Screws - Inch slotted

Sealing Screws and Plugs



P0171.i

SEALING SCREWS AND PLUGS

Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 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, clearance holes recommended for maximum sealing.

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

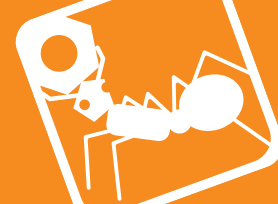
Re-usable, also available (on request) with thread-locking.

Tips

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

Clearance hole depth 2-3 x thread pitch, threads are inch UNC.

Order No.	d ₁	l ₁	h ₁	d ₂ max.	d ₃ +0.05
P0171.I02-025-SI	#2-56	1/4"	1.40	4.32	2.464
P0171.I02-037-SI	#2-56	3/8"	1.40	4.32	2.464
P0171.I02-050-SI	#2-56	1/2"	1.40	4.32	2.464
P0171.I02-063-SI	#2-56	5/8"	1.40	4.32	2.464
P0171.I04-025-SI	#4-40	1/4"	1.75	5.84	3.226
P0171.I04-050-SI	#4-40	1/2"	1.75	5.84	3.226
P0171.I04-075-SI	#4-40	3/4"	1.75	5.84	3.226
P0171.I04-100-SI	#4-40	1"	1.75	5.84	3.226
P0171.I06-025-SI	#6-32	1/4"	2.11	6.86	3.810
P0171.I06-050-SI	#6-32	1/2"	2.11	6.86	3.810
P0171.I06-075-SI	#6-32	3/4"	2.11	6.86	3.810
P0171.I06-100-SI	#6-32	1"	2.11	6.86	3.810
P0171.I08-025-SI	#8-32	1/4"	2.46	8.38	4.445
P0171.I08-050-SI	#8-32	1/2"	2.46	8.38	4.445
P0171.I08-075-SI	#8-32	3/4"	2.46	8.38	4.445
P0171.I08-100-SI	#8-32	1"	2.46	8.38	4.445
P0171.I10-037-SI	#10-24	3/8"	2.87	9.40	5.131
P0171.I10-050-SI	#10-24	1/2"	2.87	9.40	5.131
P0171.I10-075-SI	#10-24	3/4"	2.87	9.40	5.131
P0171.I10-100-SI	#10-24	1"	2.87	9.40	5.131
P0171.I11-037-SI	#10-32	3/8"	2.87	9.40	5.131
P0171.I11-050-SI	#10-32	1/2"	2.87	9.40	5.131
P0171.I11-075-SI	#10-32	3/4"	2.87	9.40	5.131
P0171.I11-100-SI	#10-32	1"	2.87	9.40	5.131
P0171.I12-125-SI	1/4-20	1/4"	3.76	12.45	6.682
P0171.I12-037-SI	1/4-20	3/8"	3.76	12.45	6.682
P0171.I12-050-SI	1/4-20	1/2"	3.76	12.45	6.682
P0171.I12-075-SI	1/4-20	3/4"	3.76	12.45	6.682

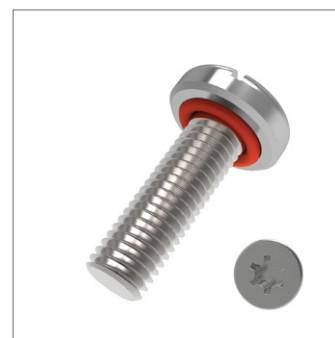
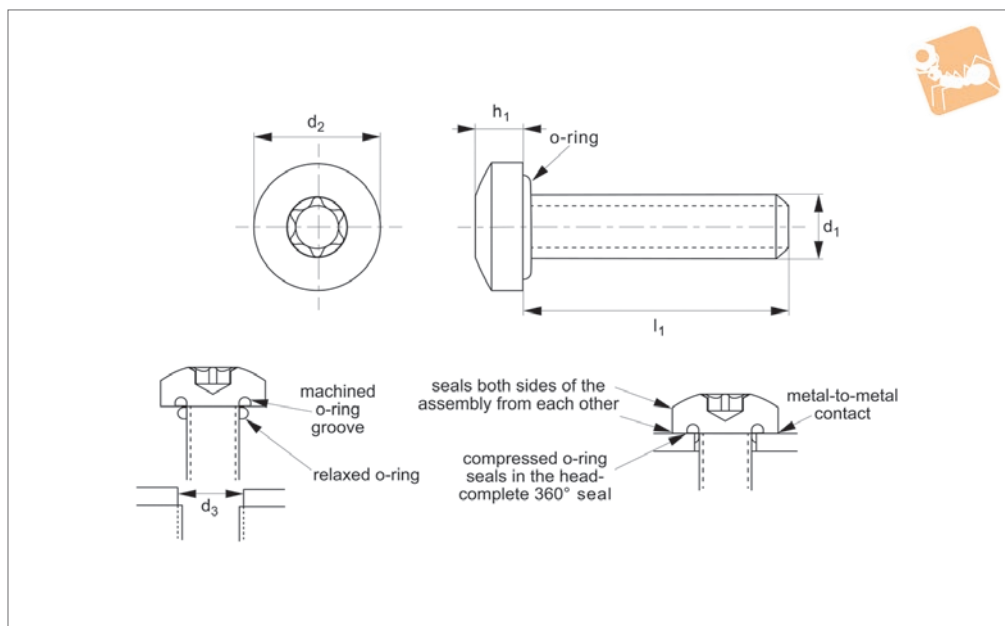


Order No.	d_1	l_1	h_1	d_2 max.	d_3 +0.05
P0171.I12-100-SI	1/4-20	1"	3.76	12.45	6.682
P0171.I12-025-SI	1/4-20	1/4"	3.76	12.45	6.682



Pan Head Seal Screws torx drive

Sealing Screws and Plugs



P0172

SEALING SCREWS AND PLUGS

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

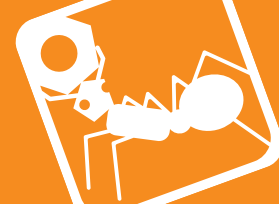
Seals substances in and contaminants out.
Screws generally as DIN 7985 H, ISO 7045.
Re-useable.
Max temperature range: -100°C to +260°C.
Pressure range - up to 410 bar (6000 psi).
Also available (on request) with thread-

locking.

Tips

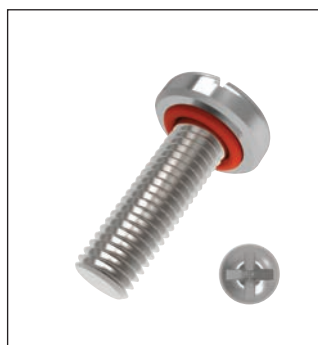
Clearance holes recommended for maximum sealing performance (see dimensions below).
Clearance hole depth 2-3 x thread pitch.
Threads are metric coarse pitch.

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
P0172.030-006-SI	M 3	6	2.4	6.0	3.6	TX-10
P0172.030-008-SI	M 3	8	2.4	6.0	3.6	TX-10
P0172.030-010-SI	M 3	10	2.4	6.0	3.6	TX-10
P0172.030-012-SI	M 3	12	2.4	6.0	3.6	TX-10
P0172.030-020-SI	M 3	20	2.4	6.0	3.6	TX-10
P0172.040-006-SI	M 4	6	3.3	8.0	4.5	TX-20
P0172.040-008-SI	M 4	8	3.3	8.0	4.5	TX-20
P0172.040-010-SI	M 4	10	3.3	8.0	4.5	TX-20
P0172.040-012-SI	M 4	12	3.3	8.0	4.5	TX-20
P0172.040-016-SI	M 4	16	3.3	8.0	4.5	TX-20
P0172.040-020-SI	M 4	20	3.3	8.0	4.5	TX-20
P0172.050-008-SI	M 5	8	3.7	10.0	5.6	TX-25
P0172.050-010-SI	M 5	10	3.7	10.0	5.6	TX-25
P0172.050-012-SI	M 5	12	3.7	10.0	5.6	TX-25
P0172.050-016-SI	M 5	16	3.7	10.0	5.6	TX-25
P0172.050-020-SI	M 5	20	1.6	10.0	5.6	TX-25
P0172.060-012-SI	M 6	12	4.6	12.0	6.8	TX-30
P0172.060-016-SI	M 6	16	4.6	12.0	6.8	TX-30
P0172.060-020-SI	M 6	20	4.6	12.0	6.8	TX-30
P0172.060-025-SI	M 6	25	4.6	12.0	6.8	TX-30
P0172.060-030-SI	M 6	30	4.6	12.0	6.8	TX-30
P0172.080-012-SI	M 8	12	6.0	16.0	8.5	TX-40
P0172.080-016-SI	M 8	16	6.0	16.0	8.5	TX-40
P0172.080-020-SI	M 8	20	6.0	16.0	8.5	TX-40
P0172.080-025-SI	M 8	25	6.0	16.0	8.5	TX-40
P0172.080-030-SI	M 8	30	6.0	16.0	8.5	TX-40
P0172.030-006-VI	M 3	6	2.4	6.0	3.6	TX-10
P0172.030-008-VI	M 3	8	2.4	6.0	3.6	TX-10

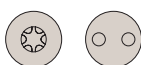


Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
P0172.030-010-VI	M 3	10	2.4	6.0	3.6	TX-10
P0172.030-012-VI	M 3	12	2.4	6.0	3.6	TX-10
P0172.030-020-VI	M 3	20	2.4	6.0	3.6	TX-10
P0172.040-006-VI	M 4	6	3.3	8.0	4.5	TX-20
P0172.040-008-VI	M 4	8	3.3	8.0	4.5	TX-20
P0172.040-010-VI	M 4	10	3.3	8.0	4.5	TX-20
P0172.040-012-VI	M 4	12	3.3	8.0	4.5	TX-20
P0172.040-016-VI	M 4	16	3.3	8.0	4.5	TX-20
P0172.040-020-VI	M 4	20	3.3	8.0	4.5	TX-20
P0172.050-008-VI	M 5	8	3.7	10.0	5.6	TX-25
P0172.050-010-VI	M 5	10	3.7	10.0	5.6	TX-25
P0172.050-012-VI	M 5	12	3.7	10.0	5.6	TX-25
P0172.050-016-VI	M 5	16	3.7	10.0	5.6	TX-25
P0172.050-020-VI	M 5	20	1.6	10.0	5.6	TX-25
P0172.060-012-VI	M 6	12	4.6	12.0	6.8	TX-30
P0172.060-016-VI	M 6	16	4.6	12.0	6.8	TX-30
P0172.060-020-VI	M 6	20	4.6	12.0	6.8	TX-30
P0172.060-025-VI	M 6	25	4.6	12.0	6.8	TX-30
P0172.060-030-VI	M 6	30	4.6	12.0	6.8	TX-30
P0172.080-012-VI	M 8	12	6.0	16.0	8.5	TX-40
P0172.080-016-VI	M 8	16	6.0	16.0	8.5	TX-40
P0172.080-020-VI	M 8	20	6.0	16.0	8.5	TX-40
P0172.080-025-VI	M 8	25	6.0	16.0	8.5	TX-40
P0172.080-030-VI	M 8	30	6.0	16.0	8.5	TX-40

Sealing Screws from Automotion Components



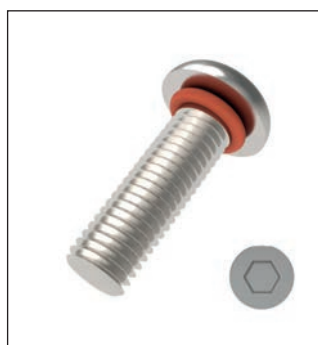
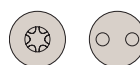
P0170
Pan Head - Phillips[®]
Security and Torx[®] Options



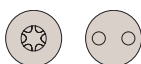
P0171
Pan Head - slotted



P0173
Socket Head
Security and Torx[®] Options



P0174
Button Hex-head
Security and Torx[®] Options



P0175
Countersunk Hex-head
Security and Torx[®] Options



P0176
Hexagon Head Bolt



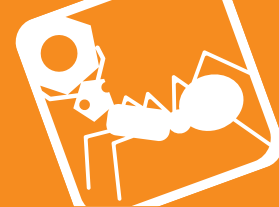
P0177
Flanged Hexagon Nut

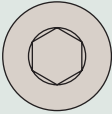
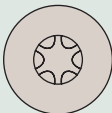
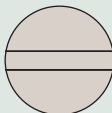
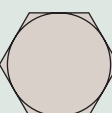
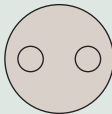


P0178
Hexagon Nut



P0179
Domed Nut



Schematic	Drive Types	Uses
	Hexagonal Socket	Ideal for precision assembly. Most recommended where less surface area is available.
	Cross Drive (Phillips®)	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.
	Slotted	Accepts standard blade screwdriver. Requires less downward pressure to drive parts than those with recessed openings. Use proper fitting blade to minimize slippage.
	Hex flange	Accepts hex wrench. Slotted drive is added to make it easier to remove the fastener (if required).
	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).

O Ring Selection

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

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 resistance 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.

Our standard screw material is stainless steel (A2). 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

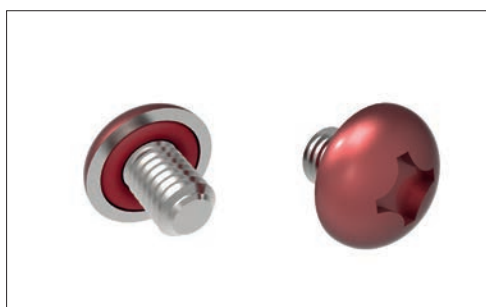
Finishes are dependent on the material you are wishing to coat, but include:

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.

Sealing Screws from Automation Components



Shoulder Screws



Painted Heads



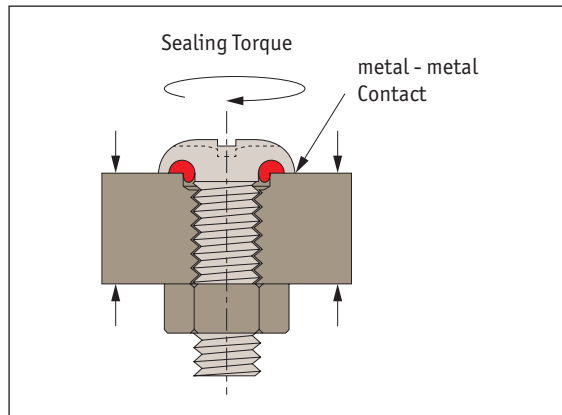
Captive Screws



Security Heads (Tamper Proof)



Standard Installation and Torque



Thread Size	Standard Installation Torque
M 3	0.6 Nm
M3.5	1.0 Nm
M 4	2.2 Nm
M 5	2.5 Nm
M 6	8.5 Nm
M 8	16 Nm
M10	30 Nm

For optimal seal screw performance we recommend creating a clearance gap 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.

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 vacuum needs to be created and provide a complete seal when gaseous or liquid pressure is a factor. Domed nuts are self-sealing and provide exceptional vibration resistance.

Applications

Some of the typical applications for our sealing screws include:

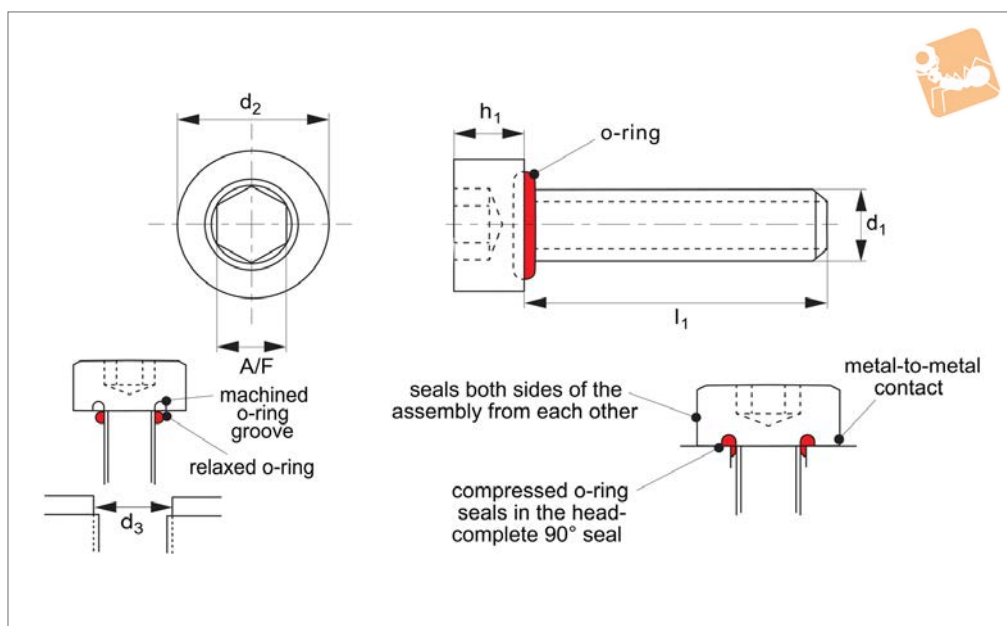
- Motors
- Cabinets and enclosures
- Sensors and instrumentation
- Internal combustion engines
- Gear pumps
- Fuel tanks
- Transmissions
- Gear boxes
- Air cylinders
- Pressure gauges
- Computer disk drives
- Motion control valves
- Missile tanks
- Wet wings



Cap Head Seal Screws

hex. socket

Sealing Screws and Plugs



P0173

SEALING SCREWS AND PLUGS

Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 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 on request.

Technical Notes

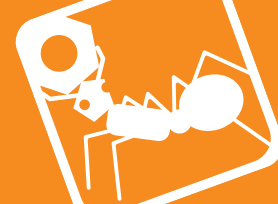
Screws generally as DIN 912, seals substances in and contaminants out
Re-useable, clearance holes recommended for maximum sealing.
Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi).

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	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.020-004-A2	M 2	4	2.0	3.8	1.5	2.35	A2 s/s
P0173.020-008-A2	M 2	8	2.0	3.8	1.5	2.35	A2 s/s
P0173.020-010-A2	M 2	10	2.0	3.8	1.5	2.35	A2 s/s
P0173.020-012-A2	M 2	12	2.0	3.8	1.5	2.35	A2 s/s
P0173.025-006-A2	M2,5	6	2.5	4.7	2.0	2.75	A2 s/s
P0173.025-008-A2	M2,5	8	2.5	4.7	2.0	2.75	A2 s/s
P0173.025-010-A2	M2,5	10	2.5	4.7	2.0	2.75	A2 s/s
P0173.025-012-A2	M2,5	12	2.5	4.7	2.0	2.75	A2 s/s
P0173.030-006-A2	M 3	6	3.0	5.5	2.5	3.6	A2 s/s
P0173.030-008-A2	M 3	8	3.0	5.5	2.5	3.6	A2 s/s
P0173.030-010-A2	M 3	10	3.0	5.5	2.5	3.6	A2 s/s
P0173.030-012-A2	M 3	12	3.0	5.5	2.5	3.6	A2 s/s
P0173.030-020-A2	M 3	20	3.0	5.5	2.5	3.6	A2 s/s
P0173.035-006-A2	M 3,5	6	3.5	6.0	2.5	4.0	A2 s/s
P0173.035-008-A2	M 3,5	8	3.5	6.0	2.5	4.0	A2 s/s
P0173.035-010-A2	M 3,5	10	3.5	6.0	2.5	4.0	A2 s/s
P0173.035-012-A2	M 3,5	12	3.5	6.0	2.5	4.0	A2 s/s
P0173.035-020-A2	M 3,5	20	3.5	6.0	2.5	4.0	A2 s/s
P0173.040-006-A2	M 4	6	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-008-A2	M 4	8	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-010-A2	M 4	10	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-012-A2	M 4	12	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-016-A2	M 4	16	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-020-A2	M 4	20	4.0	7.0	3.0	4.5	A2 s/s
P0173.050-008-A2	M 5	8	5.0	8.5	4.0	5.6	A2 s/s
P0173.050-010-A2	M 5	10	5.0	8.5	4.0	5.6	A2 s/s
P0173.050-012-A2	M 5	12	5.0	8.5	4.0	5.6	A2 s/s
P0173.050-016-A2	M 5	16	5.0	8.5	4.0	5.6	A2 s/s



Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.050-020-A2	M 5	20	5.0	8.5	4.0	5.6	A2 s/s
P0173.060-012-A2	M 6	12	6.0	10.0	5.0	6.8	A2 s/s
P0173.060-016-A2	M 6	16	6.0	10.0	5.0	6.8	A2 s/s
P0173.060-020-A2	M 6	20	6.0	10.0	5.0	6.8	A2 s/s
P0173.060-025-A2	M 6	25	6.0	10.0	5.0	6.8	A2 s/s
P0173.060-030-A2	M 6	30	6.0	10.0	5.0	6.8	A2 s/s
P0173.080-012-A2	M 8	12	8.0	13.0	6.0	8.5	A2 s/s
P0173.080-016-A2	M 8	16	8.0	13.0	6.0	8.5	A2 s/s
P0173.080-020-A2	M 8	20	8.0	13.0	6.0	8.5	A2 s/s
P0173.080-025-A2	M 8	25	8.0	13.0	6.0	8.5	A2 s/s
P0173.080-030-A2	M 8	30	8.0	13.0	6.0	8.5	A2 s/s
P0173.100-016-A2	M10	16	10.0	16.0	8.0	10.6	A2 s/s
P0173.100-020-A2	M10	20	10.0	16.0	8.0	10.6	A2 s/s
P0173.100-025-A2	M10	25	10.0	16.0	8.0	10.6	A2 s/s
P0173.100-030-A2	M10	30	10.0	16.0	8.0	10.6	A2 s/s
P0173.100-040-A2	M10	40	10.0	16.0	8.0	10.6	A2 s/s
P0173.120-020-A2	M12	20	12.0	18.0	10.0	12.85	A2 s/s
P0173.120-025-A2	M12	25	12.0	18.0	10.0	12.85	A2 s/s
P0173.120-030-A2	M12	30	12.0	18.0	10.0	12.85	A2 s/s
P0173.120-040-A2	M12	40	12.0	18.0	10.0	12.85	A2 s/s
P0173.120-050-A2	M12	50	12.0	18.0	10.0	12.85	A2 s/s
P0173.160-025-A2	M16	25	16.0	24.0	14.0	17.5	A2 s/s
P0173.160-030-A2	M16	30	16.0	24.0	14.0	17.5	A2 s/s
P0173.160-040-A2	M16	40	16.0	24.0	14.0	17.5	A2 s/s
P0173.160-050-A2	M16	50	16.0	24.0	14.0	17.5	A2 s/s
P0173.020-004-A4	M 2	4	2.0	3.8	1.5	2.35	A4 s/s
P0173.020-008-A4	M 2	8	2.0	3.8	1.5	2.35	A4 s/s
P0173.020-010-A4	M 2	10	2.0	3.8	1.5	2.35	A4 s/s
P0173.020-012-A4	M 2	12	2.0	3.8	1.5	2.35	A4 s/s
P0173.025-006-A4	M2,5	6	2.5	4.7	2.0	2.75	A4 s/s
P0173.025-008-A4	M2,5	8	2.5	4.7	2.0	2.75	A4 s/s
P0173.025-010-A4	M2,5	10	2.5	4.7	2.0	2.75	A4 s/s
P0173.025-012-A4	M2,5	12	2.5	4.7	2.0	2.75	A4 s/s
P0173.030-006-A4	M 3	6	3.0	5.5	2.5	3.6	A4 s/s
P0173.030-008-A4	M 3	8	3.0	5.5	2.5	3.6	A4 s/s
P0173.030-010-A4	M 3	10	3.0	5.5	2.5	3.6	A4 s/s
P0173.030-012-A4	M 3	12	3.0	5.5	2.5	3.6	A4 s/s
P0173.030-020-A4	M 3	20	3.0	5.5	2.5	3.6	A4 s/s
P0173.035-006-A4	M 3,5	6	3.5	6.0	2.5	4.0	A4 s/s
P0173.035-008-A4	M 3,5	8	3.5	6.0	2.5	4.0	A4 s/s
P0173.035-010-A4	M 3,5	10	3.5	6.0	2.5	4.0	A4 s/s
P0173.035-012-A4	M 3,5	12	3.5	6.0	2.5	4.0	A4 s/s
P0173.035-020-A4	M 3,5	20	3.5	6.0	2.5	4.0	A4 s/s
P0173.040-006-A4	M 4	6	4.0	7.0	3.0	4.5	A4 s/s
P0173.040-008-A4	M 4	8	4.0	7.0	3.0	4.5	A4 s/s
P0173.040-010-A4	M 4	10	4.0	7.0	3.0	4.5	A4 s/s
P0173.040-012-A4	M 4	12	4.0	7.0	3.0	4.5	A4 s/s
P0173.040-016-A4	M 4	16	4.0	7.0	3.0	4.5	A4 s/s
P0173.040-020-A4	M 4	20	4.0	7.0	3.0	4.5	A4 s/s
P0173.050-008-A4	M 5	8	5.0	8.5	4.0	5.6	A4 s/s
P0173.050-010-A4	M 5	10	5.0	8.5	4.0	5.6	A4 s/s
P0173.050-012-A4	M 5	12	5.0	8.5	4.0	5.6	A4 s/s
P0173.050-016-A4	M 5	16	5.0	8.5	4.0	5.6	A4 s/s
P0173.050-020-A4	M 5	20	5.0	8.5	4.0	5.6	A4 s/s
P0173.060-012-A4	M 6	12	6.0	10.0	5.0	6.8	A4 s/s
P0173.060-016-A4	M 6	16	6.0	10.0	5.0	6.8	A4 s/s
P0173.060-020-A4	M 6	20	6.0	10.0	5.0	6.8	A4 s/s
P0173.060-025-A4	M 6	25	6.0	10.0	5.0	6.8	A4 s/s
P0173.060-030-A4	M 6	30	6.0	10.0	5.0	6.8	A4 s/s
P0173.080-012-A4	M 8	12	8.0	13.0	6.0	8.5	A4 s/s
P0173.080-016-A4	M 8	16	8.0	13.0	6.0	8.5	A4 s/s
P0173.080-020-A4	M 8	20	8.0	13.0	6.0	8.5	A4 s/s
P0173.080-025-A4	M 8	25	8.0	13.0	6.0	8.5	A4 s/s
P0173.080-030-A4	M 8	30	8.0	13.0	6.0	8.5	A4 s/s
P0173.100-016-A4	M10	16	10.0	16.0	8.0	10.6	A4 s/s
P0173.100-020-A4	M10	20	10.0	16.0	8.0	10.6	A4 s/s
P0173.100-025-A4	M10	25	10.0	16.0	8.0	10.6	A4 s/s
P0173.100-030-A4	M10	30	10.0	16.0	8.0	10.6	A4 s/s

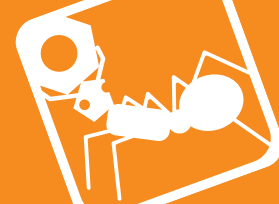


Cap Head Seal Screws

hex. socket

Sealing Screws and Plugs

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.100-040-A4	M10	40	10.0	16.0	8.0	10.6	A4 s/s
P0173.120-020-A4	M12	20	12.0	18.0	10.0	12.85	A4 s/s
P0173.120-025-A4	M12	25	12.0	18.0	10.0	12.85	A4 s/s
P0173.120-030-A4	M12	30	12.0	18.0	10.0	12.85	A4 s/s
P0173.120-040-A4	M12	40	12.0	18.0	10.0	12.85	A4 s/s
P0173.120-050-A4	M12	50	12.0	18.0	10.0	12.85	A4 s/s
P0173.160-025-A4	M16	25	16.0	24.0	14.0	17.5	A4 s/s
P0173.160-030-A4	M16	30	16.0	24.0	14.0	17.5	A4 s/s
P0173.160-040-A4	M16	40	16.0	24.0	14.0	17.5	A4 s/s
P0173.160-050-A4	M16	50	16.0	24.0	14.0	17.5	A4 s/s
P0173.020-004-VI	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-VI	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-VI	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-VI	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-VI	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-VI	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-VI	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-VI	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-VI	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-VI	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-VI	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-VI	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-VI	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-VI	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-VI	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-VI	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-VI	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-VI	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-VI	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-VI	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-VI	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-VI	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-VI	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-VI	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-VI	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-VI	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-VI	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-VI	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-VI	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-VI	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-VI	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-VI	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-VI	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-VI	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-VI	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-VI	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-VI	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-VI	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-VI	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-VI	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-VI	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-VI	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-VI	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-VI	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-VI	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-VI	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-VI	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-VI	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-VI	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-VI	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-VI	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-VI	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-VI	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-2V	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-2V	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-2V	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-2V	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-2V	M2,5	6	2.5	4.7	2.0	2.75	VI s/s



Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.025-008-2V	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-2V	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-2V	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-2V	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-2V	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-2V	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-2V	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-2V	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-2V	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-2V	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-2V	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-2V	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-2V	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-2V	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-2V	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-2V	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-2V	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-2V	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-2V	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-2V	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-2V	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-2V	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-2V	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-2V	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-2V	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-2V	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-2V	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-2V	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-2V	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-2V	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-2V	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-2V	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-2V	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-2V	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-2V	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-2V	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-2V	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-2V	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-2V	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-2V	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-2V	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-2V	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-2V	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-2V	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-2V	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-2V	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-2V	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-2V	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-4V	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-4V	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-4V	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-4V	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-4V	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-4V	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-4V	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-4V	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-4V	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-4V	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-4V	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-4V	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-4V	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-4V	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-4V	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-4V	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-4V	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-4V	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-4V	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-4V	M 4	8	4.0	7.0	3.0	4.5	VI s/s

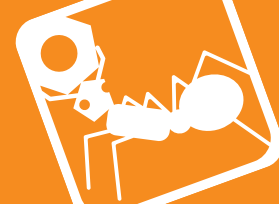


Cap Head Seal Screws

hex. socket

Sealing Screws and Plugs

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.040-010-4V	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-4V	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-4V	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-4V	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-4V	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-4V	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-4V	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-4V	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-4V	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-4V	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-4V	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-4V	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-4V	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-4V	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-4V	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-4V	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-4V	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-4V	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-4V	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-4V	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-4V	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-4V	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-4V	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-4V	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-4V	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-4V	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-4V	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-4V	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-4V	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-4V	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-4V	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-4V	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-4V	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-2S	M 2	4	2.0	3.8	1.5	2.35	A2 s/s
P0173.020-008-2S	M 2	8	2.0	3.8	1.5	2.35	A2 s/s
P0173.020-010-2S	M 2	10	2.0	3.8	1.5	2.35	A2 s/s
P0173.020-012-2S	M 2	12	2.0	3.8	1.5	2.35	A2 s/s
P0173.025-006-2S	M2,5	6	2.5	4.7	2.0	2.75	A2 s/s
P0173.025-008-2S	M2,5	8	2.5	4.7	2.0	2.75	A2 s/s
P0173.025-010-2S	M2,5	10	2.5	4.7	2.0	2.75	A2 s/s
P0173.025-012-2S	M2,5	12	2.5	4.7	2.0	2.75	A2 s/s
P0173.030-006-2S	M 3	6	3.0	5.5	2.5	3.6	A2 s/s
P0173.030-008-2S	M 3	8	3.0	5.5	2.5	3.6	A2 s/s
P0173.030-010-2S	M 3	10	3.0	5.5	2.5	3.6	A2 s/s
P0173.030-012-2S	M 3	12	3.0	5.5	2.5	3.6	A2 s/s
P0173.030-020-2S	M 3	20	3.0	5.5	2.5	3.6	A2 s/s
P0173.035-006-2S	M 3,5	6	3.5	6.0	2.5	4.0	A2 s/s
P0173.035-008-2S	M 3,5	8	3.5	6.0	2.5	4.0	A2 s/s
P0173.035-010-2S	M 3,5	10	3.5	6.0	2.5	4.0	A2 s/s
P0173.035-012-2S	M 3,5	12	3.5	6.0	2.5	4.0	A2 s/s
P0173.035-020-2S	M 3,5	20	3.5	6.0	2.5	4.0	A2 s/s
P0173.040-006-2S	M 4	6	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-008-2S	M 4	8	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-010-2S	M 4	10	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-012-2S	M 4	12	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-016-2S	M 4	16	4.0	7.0	3.0	4.5	A2 s/s
P0173.040-020-2S	M 4	20	4.0	7.0	3.0	4.5	A2 s/s
P0173.050-008-2S	M 5	8	5.0	8.5	4.0	5.6	A2 s/s
P0173.050-010-2S	M 5	10	5.0	8.5	4.0	5.6	A2 s/s
P0173.050-012-2S	M 5	12	5.0	8.5	4.0	5.6	A2 s/s
P0173.050-016-2S	M 5	16	5.0	8.5	4.0	5.6	A2 s/s
P0173.050-020-2S	M 5	20	5.0	8.5	4.0	5.6	A2 s/s
P0173.060-012-2S	M 6	12	6.0	10.0	5.0	6.8	A2 s/s
P0173.060-016-2S	M 6	16	6.0	10.0	5.0	6.8	A2 s/s
P0173.060-020-2S	M 6	20	6.0	10.0	5.0	6.8	A2 s/s
P0173.060-025-2S	M 6	25	6.0	10.0	5.0	6.8	A2 s/s
P0173.060-030-2S	M 6	30	6.0	10.0	5.0	6.8	A2 s/s
P0173.080-012-2S	M 8	12	8.0	13.0	6.0	8.5	A2 s/s



Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.080-016-2S	M 8	16	8.0	13.0	6.0	8.5	A2 s/s
P0173.080-020-2S	M 8	20	8.0	13.0	6.0	8.5	A2 s/s
P0173.080-025-2S	M 8	25	8.0	13.0	6.0	8.5	A2 s/s
P0173.080-030-2S	M 8	30	8.0	13.0	6.0	8.5	A2 s/s
P0173.100-016-2S	M10	16	10.0	16.0	8.0	10.6	A2 s/s
P0173.100-020-2S	M10	20	10.0	16.0	8.0	10.6	A2 s/s
P0173.100-025-2S	M10	25	10.0	16.0	8.0	10.6	A2 s/s
P0173.100-030-2S	M10	30	10.0	16.0	8.0	10.6	A2 s/s
P0173.100-040-2S	M10	40	10.0	16.0	8.0	10.6	A2 s/s
P0173.120-020-2S	M12	20	12.0	18.0	10.0	12.85	A2 s/s
P0173.120-025-2S	M12	25	12.0	18.0	10.0	12.85	A2 s/s
P0173.120-030-2S	M12	30	12.0	18.0	10.0	12.85	A2 s/s
P0173.120-040-2S	M12	40	12.0	18.0	10.0	12.85	A2 s/s
P0173.120-050-2S	M12	50	12.0	18.0	10.0	12.85	A2 s/s
P0173.160-025-2S	M16	25	16.0	24.0	14.0	17.5	A2 s/s
P0173.160-030-2S	M16	30	16.0	24.0	14.0	17.5	A2 s/s
P0173.160-040-2S	M16	40	16.0	24.0	14.0	17.5	A2 s/s
P0173.160-050-2S	M16	50	16.0	24.0	14.0	17.5	A2 s/s
P0173.020-004-2F	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-2F	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-2F	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-2F	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-2F	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-2F	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-2F	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-2F	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-2F	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-2F	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-2F	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-2F	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-2F	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-2F	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-2F	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-2F	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-2F	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-2F	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-2F	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-2F	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-2F	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-2F	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-2F	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-2F	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-2F	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-2F	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-2F	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-2F	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-2F	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-2F	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-2F	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-2F	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-2F	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-2F	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-2F	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-2F	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-2F	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-2F	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-2F	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-2F	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-2F	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-2F	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-2F	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-2F	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-2F	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-2F	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-2F	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-2F	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-2F	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-2F	M16	25	16.0	24.0	14.0	17.5	VI s/s

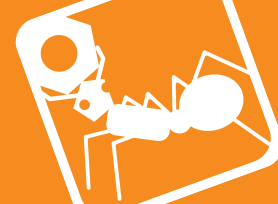


Cap Head Seal Screws

hex. socket

Sealing Screws and Plugs

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.160-030-2F	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-2F	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-2F	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-4F	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-4F	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-4F	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-4F	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-4F	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-4F	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-4F	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-4F	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-4F	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-4F	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-4F	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-4F	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-4F	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-4F	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-4F	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-4F	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-4F	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-4F	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-4F	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-4F	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-4F	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-4F	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-4F	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-4F	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-4F	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-4F	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-4F	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-4F	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-4F	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-4F	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-4F	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-4F	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-4F	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-4F	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-4F	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-4F	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-4F	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-4F	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-4F	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-4F	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-4F	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-4F	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-4F	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-4F	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-4F	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-4F	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-4F	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-4F	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-4F	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-4F	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-4F	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-4F	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-4F	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-2E	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-2E	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-2E	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-2E	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-2E	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-2E	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-2E	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-2E	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-2E	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-2E	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-2E	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-2E	M 3	12	3.0	5.5	2.5	3.6	VI s/s



Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.030-020-2E	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-2E	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-2E	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-2E	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-2E	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-2E	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-2E	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-2E	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-2E	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-2E	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-2E	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-2E	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-2E	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-2E	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-2E	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-2E	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-2E	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-2E	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-2E	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-2E	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-2E	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-2E	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-2E	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-2E	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-2E	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-2E	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-2E	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-2E	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-2E	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-2E	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-2E	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-2E	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-2E	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-2E	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-2E	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-2E	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-2E	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-2E	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-2E	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-2E	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-2E	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-4E	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-4E	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-4E	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-4E	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-4E	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-4E	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-4E	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-4E	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-4E	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-4E	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-4E	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-4E	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-4E	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-4E	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-4E	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-4E	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-4E	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-4E	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-4E	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-4E	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-4E	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-4E	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-4E	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-4E	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-4E	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-4E	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-4E	M 5	12	5.0	8.5	4.0	5.6	VI s/s

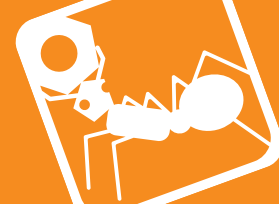


Cap Head Seal Screws

hex. socket

Sealing Screws and Plugs

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.050-016-4E	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-4E	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-4E	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-4E	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-4E	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-4E	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-4E	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-4E	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-4E	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-4E	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-4E	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-4E	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-4E	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-4E	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-4E	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-4E	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-4E	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-4E	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-4E	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-4E	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-4E	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-4E	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-4E	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-4E	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-4E	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-4E	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-2N	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-2N	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-2N	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-2N	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-2N	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-2N	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-2N	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-2N	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-2N	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-2N	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-2N	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-2N	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-2N	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-2N	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-2N	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-2N	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-2N	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-2N	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-2N	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-2N	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-2N	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-2N	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-2N	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-2N	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-2N	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-2N	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-2N	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-2N	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-2N	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-2N	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-2N	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-2N	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-2N	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-2N	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-2N	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-2N	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-2N	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-2N	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-2N	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-2N	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-2N	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-2N	M10	25	10.0	16.0	8.0	10.6	VI s/s



Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.100-030-2N	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-2N	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-2N	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-2N	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-2N	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-2N	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-2N	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-2N	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-2N	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-2N	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-2N	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-4N	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-4N	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-4N	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-4N	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-4N	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-4N	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-4N	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-4N	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-4N	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-4N	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-4N	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-4N	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-4N	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-4N	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-4N	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-4N	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-4N	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-4N	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-4N	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-4N	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-4N	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-4N	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-4N	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-4N	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-4N	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-4N	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-4N	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-4N	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-4N	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-4N	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-4N	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-4N	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-4N	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-4N	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-4N	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-4N	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-4N	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-4N	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-4N	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-4N	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-4N	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-4N	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-4N	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-4N	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-4N	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-4N	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-4N	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-4N	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-4N	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-4N	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-4N	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-4N	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-4N	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-2B	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-2B	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-2B	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-2B	M 2	12	2.0	3.8	1.5	2.35	VI s/s

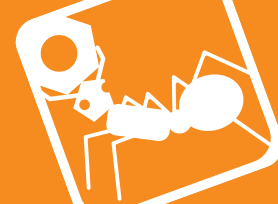


Cap Head Seal Screws

hex. socket

Sealing Screws and Plugs

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.025-006-2B	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-2B	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-2B	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-2B	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-2B	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-2B	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-2B	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-2B	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-2B	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-2B	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-2B	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-2B	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-2B	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-2B	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-2B	M 4	6	4.0	7.0	3.0	4.5	VI s/s
P0173.040-008-2B	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-2B	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-2B	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-2B	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-2B	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-2B	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-2B	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-2B	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-2B	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-2B	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-2B	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-2B	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-2B	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-2B	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-2B	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-2B	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-2B	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-2B	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-2B	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-2B	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-2B	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-2B	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-2B	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-2B	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-2B	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-2B	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-2B	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-2B	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-2B	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-2B	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-2B	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-2B	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-2B	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-2B	M16	50	16.0	24.0	14.0	17.5	VI s/s
P0173.020-004-4B	M 2	4	2.0	3.8	1.5	2.35	VI s/s
P0173.020-008-4B	M 2	8	2.0	3.8	1.5	2.35	VI s/s
P0173.020-010-4B	M 2	10	2.0	3.8	1.5	2.35	VI s/s
P0173.020-012-4B	M 2	12	2.0	3.8	1.5	2.35	VI s/s
P0173.025-006-4B	M2,5	6	2.5	4.7	2.0	2.75	VI s/s
P0173.025-008-4B	M2,5	8	2.5	4.7	2.0	2.75	VI s/s
P0173.025-010-4B	M2,5	10	2.5	4.7	2.0	2.75	VI s/s
P0173.025-012-4B	M2,5	12	2.5	4.7	2.0	2.75	VI s/s
P0173.030-006-4B	M 3	6	3.0	5.5	2.5	3.6	VI s/s
P0173.030-008-4B	M 3	8	3.0	5.5	2.5	3.6	VI s/s
P0173.030-010-4B	M 3	10	3.0	5.5	2.5	3.6	VI s/s
P0173.030-012-4B	M 3	12	3.0	5.5	2.5	3.6	VI s/s
P0173.030-020-4B	M 3	20	3.0	5.5	2.5	3.6	VI s/s
P0173.035-006-4B	M 3,5	6	3.5	6.0	2.5	4.0	VI s/s
P0173.035-008-4B	M 3,5	8	3.5	6.0	2.5	4.0	VI s/s
P0173.035-010-4B	M 3,5	10	3.5	6.0	2.5	4.0	VI s/s
P0173.035-012-4B	M 3,5	12	3.5	6.0	2.5	4.0	VI s/s
P0173.035-020-4B	M 3,5	20	3.5	6.0	2.5	4.0	VI s/s
P0173.040-006-4B	M 4	6	4.0	7.0	3.0	4.5	VI s/s

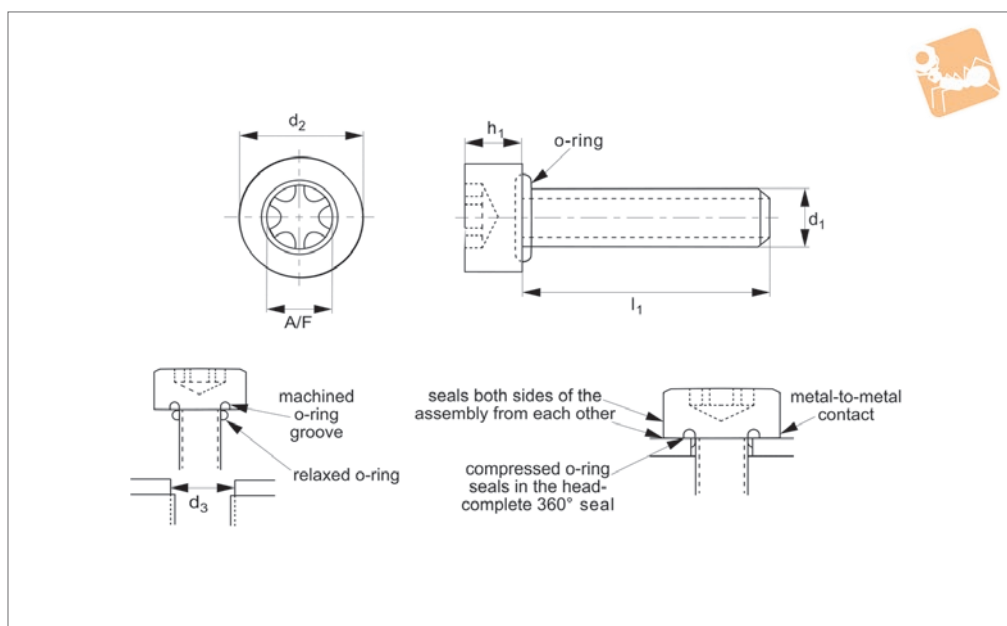


Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0173.040-008-4B	M 4	8	4.0	7.0	3.0	4.5	VI s/s
P0173.040-010-4B	M 4	10	4.0	7.0	3.0	4.5	VI s/s
P0173.040-012-4B	M 4	12	4.0	7.0	3.0	4.5	VI s/s
P0173.040-016-4B	M 4	16	4.0	7.0	3.0	4.5	VI s/s
P0173.040-020-4B	M 4	20	4.0	7.0	3.0	4.5	VI s/s
P0173.050-008-4B	M 5	8	5.0	8.5	4.0	5.6	VI s/s
P0173.050-010-4B	M 5	10	5.0	8.5	4.0	5.6	VI s/s
P0173.050-012-4B	M 5	12	5.0	8.5	4.0	5.6	VI s/s
P0173.050-016-4B	M 5	16	5.0	8.5	4.0	5.6	VI s/s
P0173.050-020-4B	M 5	20	5.0	8.5	4.0	5.6	VI s/s
P0173.060-012-4B	M 6	12	6.0	10.0	5.0	6.8	VI s/s
P0173.060-016-4B	M 6	16	6.0	10.0	5.0	6.8	VI s/s
P0173.060-020-4B	M 6	20	6.0	10.0	5.0	6.8	VI s/s
P0173.060-025-4B	M 6	25	6.0	10.0	5.0	6.8	VI s/s
P0173.060-030-4B	M 6	30	6.0	10.0	5.0	6.8	VI s/s
P0173.080-012-4B	M 8	12	8.0	13.0	6.0	8.5	VI s/s
P0173.080-016-4B	M 8	16	8.0	13.0	6.0	8.5	VI s/s
P0173.080-020-4B	M 8	20	8.0	13.0	6.0	8.5	VI s/s
P0173.080-025-4B	M 8	25	8.0	13.0	6.0	8.5	VI s/s
P0173.080-030-4B	M 8	30	8.0	13.0	6.0	8.5	VI s/s
P0173.100-016-4B	M10	16	10.0	16.0	8.0	10.6	VI s/s
P0173.100-020-4B	M10	20	10.0	16.0	8.0	10.6	VI s/s
P0173.100-025-4B	M10	25	10.0	16.0	8.0	10.6	VI s/s
P0173.100-030-4B	M10	30	10.0	16.0	8.0	10.6	VI s/s
P0173.100-040-4B	M10	40	10.0	16.0	8.0	10.6	VI s/s
P0173.120-020-4B	M12	20	12.0	18.0	10.0	12.85	VI s/s
P0173.120-025-4B	M12	25	12.0	18.0	10.0	12.85	VI s/s
P0173.120-030-4B	M12	30	12.0	18.0	10.0	12.85	VI s/s
P0173.120-040-4B	M12	40	12.0	18.0	10.0	12.85	VI s/s
P0173.120-050-4B	M12	50	12.0	18.0	10.0	12.85	VI s/s
P0173.160-025-4B	M16	25	16.0	24.0	14.0	17.5	VI s/s
P0173.160-030-4B	M16	30	16.0	24.0	14.0	17.5	VI s/s
P0173.160-040-4B	M16	40	16.0	24.0	14.0	17.5	VI s/s
P0173.160-050-4B	M16	50	16.0	24.0	14.0	17.5	VI s/s



Cap Head Seal Screws torx drive

Sealing Screws and Plugs



P0173.TX

SEALING SCREWS AND PLUGS

Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 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 on request.

Technical Notes

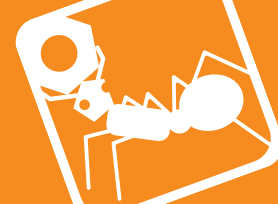
Screws generally as ISO 14759, seals substances in and contaminants out
Re-useable, clearance holes recommended for maximum sealing.
Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi).

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	l ₁	h ₁ max.	d ₂ max.	Drive	d ₃ ±0.05	Material
P0173.020-004-TX	M 2	4	2.0	3.8	TX 6	2.35	A2 s/s
P0173.020-008-TX	M 2	8	2.0	3.8	TX 6	2.35	A2 s/s
P0173.020-010-TX	M 2	10	2.0	3.8	TX 6	2.35	A2 s/s
P0173.020-012-TX	M 2	12	2.0	3.8	TX 6	2.35	A2 s/s
P0173.025-006-TX	M2,5	6	2.5	4.5	TX 8	2.75	A2 s/s
P0173.025-008-TX	M2,5	8	2.5	4.5	TX 8	2.75	A2 s/s
P0173.025-010-TX	M2,5	10	2.5	4.5	TX 8	2.75	A2 s/s
P0173.025-012-TX	M2,5	12	2.5	4.5	TX 8	2.75	A2 s/s
P0173.030-006-TX	M 3	6	3.0	5.5	TX10	3.6	A2 s/s
P0173.030-008-TX	M 3	8	3.0	5.5	TX10	3.6	A2 s/s
P0173.030-010-TX	M 3	10	3.0	5.5	TX10	3.6	A2 s/s
P0173.030-012-TX	M 3	12	3.0	5.5	TX10	3.6	A2 s/s
P0173.030-020-TX	M 3	20	3.0	5.5	TX10	3.6	A2 s/s
P0173.040-006-TX	M 4	6	4.0	7.0	TX20	4.5	A2 s/s
P0173.040-008-TX	M 4	8	4.0	7.0	TX20	4.5	A2 s/s
P0173.040-010-TX	M 4	10	4.0	7.0	TX20	4.5	A2 s/s
P0173.040-012-TX	M 4	12	4.0	7.0	TX20	4.5	A2 s/s
P0173.040-016-TX	M 4	16	4.0	7.0	TX20	4.5	A2 s/s
P0173.040-020-TX	M 4	20	4.0	7.0	TX20	4.5	A2 s/s
P0173.050-008-TX	M 5	8	5.0	8.5	TX25	5.6	A2 s/s
P0173.050-010-TX	M 5	10	5.0	8.5	TX25	5.6	A2 s/s
P0173.050-012-TX	M 5	12	5.0	8.5	TX25	5.6	A2 s/s
P0173.050-016-TX	M 5	16	5.0	8.5	TX25	5.6	A2 s/s
P0173.050-020-TX	M 5	20	5.0	8.5	TX25	5.6	A2 s/s
P0173.060-012-TX	M 6	12	6.0	10.0	TX30	6.8	A2 s/s
P0173.060-016-TX	M 6	16	6.0	10.0	TX30	6.8	A2 s/s
P0173.060-020-TX	M 6	20	6.0	10.0	TX30	6.8	A2 s/s
P0173.060-025-TX	M 6	25	6.0	10.0	TX30	6.8	A2 s/s



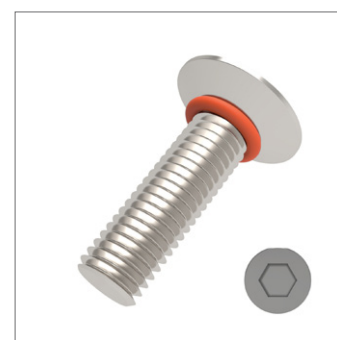
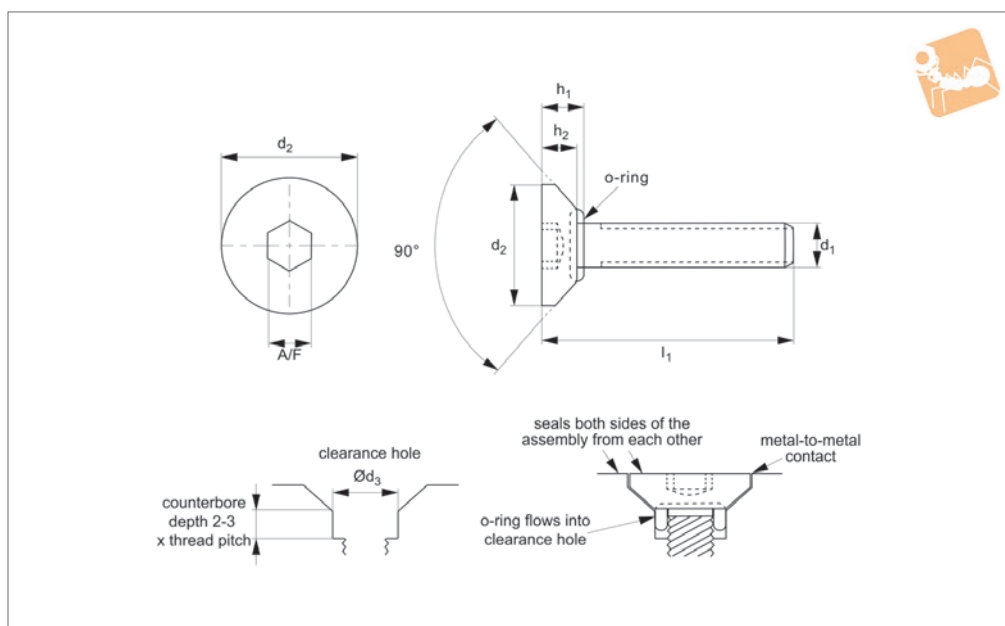
Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	Drive	d ₃ ±0.05	Material
P0173.060-030-TX	M 6	30	6.0	10.0	TX30	6.8	A2 s/s
P0173.080-012-TX	M 8	12	8.0	13.0	TX45	8.5	A2 s/s
P0173.080-016-TX	M 8	16	8.0	13.0	TX45	8.5	A2 s/s
P0173.080-020-TX	M 8	20	8.0	13.0	TX45	8.5	A2 s/s
P0173.080-025-TX	M 8	25	8.0	13.0	TX45	8.5	A2 s/s
P0173.080-030-TX	M 8	30	8.0	13.0	TX45	8.5	A2 s/s
P0173.100-016-TX	M10	16	10.0	16.0	TX50	10.6	A2 s/s
P0173.100-020-TX	M10	20	10.0	16.0	TX50	10.6	A2 s/s
P0173.100-025-TX	M10	25	10.0	16.0	TX50	10.6	A2 s/s
P0173.100-030-TX	M10	30	10.0	16.0	TX50	10.6	A2 s/s
P0173.100-040-TX	M10	40	10.0	16.0	TX50	10.6	A2 s/s
P0173.120-020-TX	M12	20	12.0	18.0	TX55	12.85	A2 s/s
P0173.120-025-TX	M12	25	12.0	18.0	TX55	12.85	A2 s/s
P0173.120-030-TX	M12	30	12.0	18.0	TX55	12.85	A2 s/s
P0173.120-040-TX	M12	40	12.0	18.0	TX55	12.85	A2 s/s
P0173.120-050-TX	M12	50	12.0	18.0	TX55	12.85	A2 s/s
P0173.160-025-TX	M16	25	16.0	24.0	TX70	17.5	A2 s/s
P0173.160-030-TX	M16	30	16.0	24.0	TX70	17.5	A2 s/s
P0173.160-040-TX	M16	40	16.0	24.0	TX70	17.5	A2 s/s
P0173.160-050-TX	M16	50	16.0	24.0	TX70	17.5	A2 s/s



Countersunk Seal Screws

hex. socket

Sealing Screws and Plugs



P0175

SEALING SCREWS AND PLUGS

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 (AISI 316, 1.440) on request.

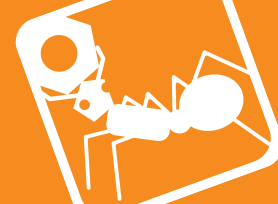
Technical Notes

Screws generally as DIN 7991, ISO 10642, 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.
h₁ dimension is the intersection of the countersunk and shank.

Order No.	d ₁	l ₁	h ₁	h ₂	d ₂	d ₃ ±0.05	A/F
P0175.030-006-SI	M 3	6	1.86	1.1	5.8	3.6	2.0
P0175.030-008-SI	M 3	8	1.86	1.1	5.8	3.6	2.0
P0175.030-010-SI	M 3	10	1.86	1.1	5.8	3.6	2.0
P0175.030-012-SI	M 3	12	1.86	1.1	5.8	3.6	2.0
P0175.030-020-SI	M 3	20	1.86	1.1	5.8	3.6	2.0
P0175.040-006-SI	M 4	6	2.48	1.5	7.8	4.5	2.5
P0175.040-008-SI	M 4	8	2.48	1.5	7.8	4.5	2.5
P0175.040-010-SI	M 4	10	2.48	1.5	7.8	4.5	2.5
P0175.040-012-SI	M 4	12	2.48	1.5	7.8	4.5	2.5
P0175.040-016-SI	M 4	16	2.48	1.5	7.8	4.5	2.5
P0175.040-020-SI	M 4	20	2.48	1.5	7.8	4.5	2.5
P0175.050-008-SI	M 5	8	3.10	1.8	9.7	5.6	3.0
P0175.050-010-SI	M 5	10	3.10	1.8	9.7	5.6	3.0
P0175.050-012-SI	M 5	12	3.10	1.8	9.7	5.6	3.0
P0175.050-016-SI	M 5	16	3.10	1.8	9.7	5.6	3.0
P0175.050-020-SI	M 5	20	3.10	1.8	9.7	5.6	3.0
P0175.060-012-SI	M 6	12	3.72	2.4	11.8	6.8	4.0
P0175.060-016-SI	M 6	16	3.72	2.4	11.8	6.8	4.0
P0175.060-020-SI	M 6	20	3.72	2.4	11.8	6.8	4.0
P0175.060-025-SI	M 6	25	3.72	2.4	11.8	6.8	4.0
P0175.060-030-SI	M 6	30	3.72	2.4	11.8	6.8	4.0
P0175.080-012-SI	M 8	12	4.96	3.0	15.8	8.5	5.0
P0175.080-016-SI	M 8	16	4.96	3.0	15.8	8.5	5.0
P0175.080-020-SI	M 8	20	4.96	3.0	15.8	8.5	5.0
P0175.080-025-SI	M 8	25	4.96	3.0	15.8	8.5	5.0
P0175.080-030-SI	M 8	30	4.96	3.0	15.8	8.5	5.0
P0175.100-016-SI	M10	16	6.2	4.5	19.8	10.6	6.0



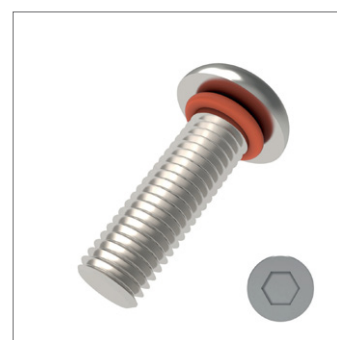
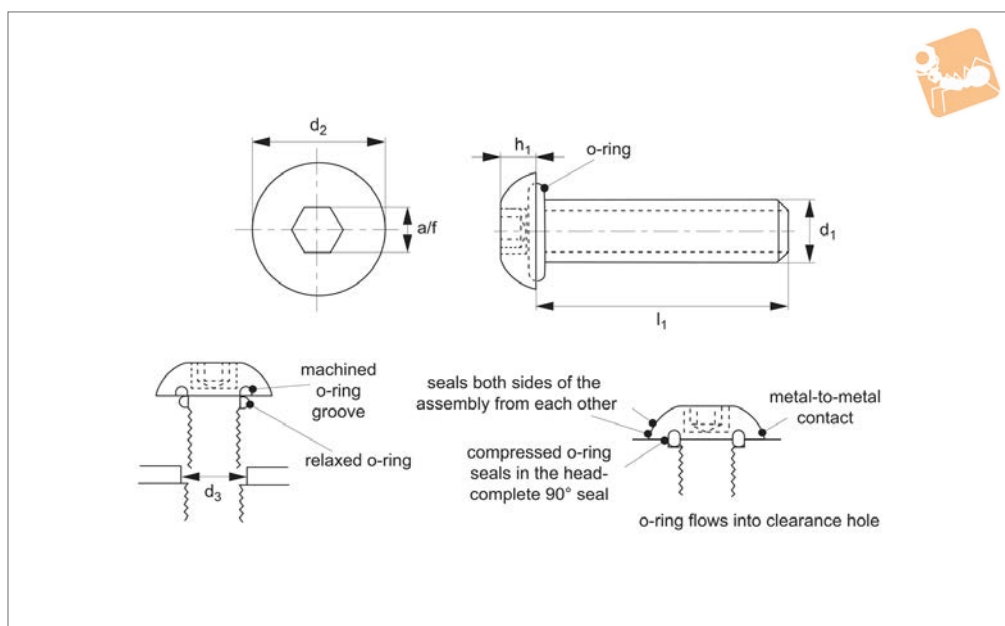
Order No.	d ₁	l ₁	h ₁	h ₂	d ₂	d ₃ ±0.05	A/F
P0175.100-020-SI	M10	20	6.2	4.5	19.8	10.6	6.0
P0175.100-025-SI	M10	25	6.2	4.5	19.8	10.6	6.0
P0175.100-030-SI	M10	30	6.2	4.5	19.8	10.6	6.0
P0175.100-040-SI	M10	40	6.2	4.5	19.8	10.6	6.0
P0175.030-006-VI	M 3	6	1.86	1.1	5.8	3.6	2.0
P0175.030-008-VI	M 3	8	1.86	1.1	5.8	3.6	2.0
P0175.030-010-VI	M 3	10	1.86	1.1	5.8	3.6	2.0
P0175.030-012-VI	M 3	12	1.86	1.1	5.8	3.6	2.0
P0175.030-020-VI	M 3	20	1.86	1.1	5.8	3.6	2.0
P0175.040-006-VI	M 4	6	2.48	1.5	7.8	4.5	2.5
P0175.040-008-VI	M 4	8	2.48	1.5	7.8	4.5	2.5
P0175.040-010-VI	M 4	10	2.48	1.5	7.8	4.5	2.5
P0175.040-012-VI	M 4	12	2.48	1.5	7.8	4.5	2.5
P0175.040-016-VI	M 4	16	2.48	1.5	7.8	4.5	2.5
P0175.040-020-VI	M 4	20	2.48	1.5	7.8	4.5	2.5
P0175.050-008-VI	M 5	8	3.10	1.8	9.7	5.6	3.0
P0175.050-010-VI	M 5	10	3.10	1.8	9.7	5.6	3.0
P0175.050-012-VI	M 5	12	3.10	1.8	9.7	5.6	3.0
P0175.050-016-VI	M 5	16	3.10	1.8	9.7	5.6	3.0
P0175.050-020-VI	M 5	20	3.10	1.8	9.7	5.6	3.0
P0175.060-012-VI	M 6	12	3.72	2.4	11.8	6.8	4.0
P0175.060-016-VI	M 6	16	3.72	2.4	11.8	6.8	4.0
P0175.060-020-VI	M 6	20	3.72	2.4	11.8	6.8	4.0
P0175.060-025-VI	M 6	25	3.72	2.4	11.8	6.8	4.0
P0175.060-030-VI	M 6	30	3.72	2.4	11.8	6.8	4.0
P0175.080-012-VI	M 8	12	4.96	3.0	15.8	8.5	5.0
P0175.080-016-VI	M 8	16	4.96	3.0	15.8	8.5	5.0
P0175.080-020-VI	M 8	20	4.96	3.0	15.8	8.5	5.0
P0175.080-025-VI	M 8	25	4.96	3.0	15.8	8.5	5.0
P0175.080-030-VI	M 8	30	4.96	3.0	15.8	8.5	5.0
P0175.100-016-VI	M10	16	6.2	4.5	19.8	10.6	6.0
P0175.100-020-VI	M10	20	6.2	4.5	19.8	10.6	6.0
P0175.100-025-VI	M10	25	6.2	4.5	19.8	10.6	6.0
P0175.100-030-VI	M10	30	6.2	4.5	19.8	10.6	6.0
P0175.100-040-VI	M10	40	6.2	4.5	19.8	10.6	6.0



Button Head Seal Screws

hex. socket

Sealing Screws and Plugs



P0174

SEALING SCREWS AND PLUGS

Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 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 on request.

Technical Notes

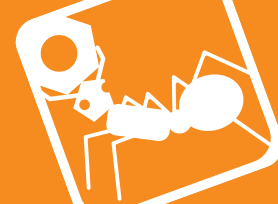
Screws generally as ISO 7380, seals substances in and contaminants out.
Re-useable. Clearance holes recommended for maximum sealing.
Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi).

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.

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0174.030-006-A2	M 3	6	1.7	5.7	2	3.6	A2 s/s
P0174.030-008-A2	M 3	8	1.7	5.7	2	3.6	A2 s/s
P0174.030-010-A2	M 3	10	1.7	5.7	2	3.6	A2 s/s
P0174.030-012-A2	M 3	12	1.7	5.7	2	3.6	A2 s/s
P0174.030-020-A2	M 3	20	1.7	5.7	2	3.6	A2 s/s
P0174.040-006-A2	M 4	6	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-008-A2	M 4	8	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-010-A2	M 4	10	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-012-A2	M 4	12	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-016-A2	M 4	16	2.2	7.6	2.5	4.5	A2 s/s
P0174.040-020-A2	M 4	20	2.2	7.6	2.5	4.5	A2 s/s
P0174.050-008-A2	M 5	8	2.8	9.5	3	5.6	A2 s/s
P0174.050-010-A2	M 5	10	2.8	9.5	3	5.6	A2 s/s
P0174.050-012-A2	M 5	12	2.8	9.5	3	5.6	A2 s/s
P0174.050-016-A2	M 5	16	2.8	9.5	3	5.6	A2 s/s
P0174.050-020-A2	M 5	20	2.8	9.5	3	5.6	A2 s/s
P0174.060-012-A2	M 6	12	3.3	10.5	4	6.8	A2 s/s
P0174.060-016-A2	M 6	16	3.3	10.5	4	6.8	A2 s/s
P0174.060-020-A2	M 6	20	3.3	10.5	4	6.8	A2 s/s
P0174.060-025-A2	M 6	25	3.3	10.5	4	6.8	A2 s/s
P0174.060-030-A2	M 6	30	3.3	10.5	4	6.8	A2 s/s
P0174.080-012-A2	M 8	12	4.4	14.0	5	8.5	A2 s/s
P0174.080-016-A2	M 8	16	4.4	14.0	5	8.5	A2 s/s
P0174.080-020-A2	M 8	20	4.4	14.0	5	8.5	A2 s/s
P0174.080-025-A2	M 8	25	4.4	14.0	5	8.5	A2 s/s
P0174.080-030-A2	M 8	30	4.4	14.0	5	8.5	A2 s/s
P0174.100-016-A2	M10	16	5.5	17.5	6	10.6	A2 s/s
P0174.100-020-A2	M10	20	5.5	17.5	6	10.6	A2 s/s



Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0174.100-025-A2	M10	25	5.5	17.5	6	10.6	A2 s/s
P0174.100-030-A2	M10	30	5.5	17.5	6	10.6	A2 s/s
P0174.100-040-A2	M10	40	5.5	17.5	6	10.6	A2 s/s
P0174.120-020-A2	M12	20	6.6	21.0	8	12.9	A2 s/s
P0174.120-025-A2	M12	25	6.6	21.0	8	12.9	A2 s/s
P0174.120-030-A2	M12	30	6.6	21.0	8	12.9	A2 s/s
P0174.120-040-A2	M12	40	6.6	21.0	8	12.9	A2 s/s
P0174.120-050-A2	M12	50	6.6	21.0	8	12.9	A2 s/s
P0174.030-006-A4	M 3	6	1.7	5.7	2	3.6	A4 s/s
P0174.030-008-A4	M 3	8	1.7	5.7	2	3.6	A4 s/s
P0174.030-010-A4	M 3	10	1.7	5.7	2	3.6	A4 s/s
P0174.030-012-A4	M 3	12	1.7	5.7	2	3.6	A4 s/s
P0174.030-020-A4	M 3	20	1.7	5.7	2	3.6	A4 s/s
P0174.040-006-A4	M 4	6	2.2	7.6	2.5	4.5	A4 s/s
P0174.040-008-A4	M 4	8	2.2	7.6	2.5	4.5	A4 s/s
P0174.040-010-A4	M 4	10	2.2	7.6	2.5	4.5	A4 s/s
P0174.040-012-A4	M 4	12	2.2	7.6	2.5	4.5	A4 s/s
P0174.040-016-A4	M 4	16	2.2	7.6	2.5	4.5	A4 s/s
P0174.040-020-A4	M 4	20	2.2	7.6	2.5	4.5	A4 s/s
P0174.050-008-A4	M 5	8	2.8	9.5	3	5.6	A4 s/s
P0174.050-010-A4	M 5	10	2.8	9.5	3	5.6	A4 s/s
P0174.050-012-A4	M 5	12	2.8	9.5	3	5.6	A4 s/s
P0174.050-016-A4	M 5	16	2.8	9.5	3	5.6	A4 s/s
P0174.050-020-A4	M 5	20	2.8	9.5	3	5.6	A4 s/s
P0174.060-012-A4	M 6	12	3.3	10.5	4	6.8	A4 s/s
P0174.060-016-A4	M 6	16	3.3	10.5	4	6.8	A4 s/s
P0174.060-020-A4	M 6	20	3.3	10.5	4	6.8	A4 s/s
P0174.060-025-A4	M 6	25	3.3	10.5	4	6.8	A4 s/s
P0174.060-030-A4	M 6	30	3.3	10.5	4	6.8	A4 s/s
P0174.080-012-A4	M 8	12	4.4	14.0	5	8.5	A4 s/s
P0174.080-016-A4	M 8	16	4.4	14.0	5	8.5	A4 s/s
P0174.080-020-A4	M 8	20	4.4	14.0	5	8.5	A4 s/s
P0174.080-025-A4	M 8	25	4.4	14.0	5	8.5	A4 s/s
P0174.080-030-A4	M 8	30	4.4	14.0	5	8.5	A4 s/s
P0174.100-016-A4	M10	16	5.5	17.5	6	10.6	A4 s/s
P0174.100-020-A4	M10	20	5.5	17.5	6	10.6	A4 s/s
P0174.100-025-A4	M10	25	5.5	17.5	6	10.6	A4 s/s
P0174.100-030-A4	M10	30	5.5	17.5	6	10.6	A4 s/s
P0174.100-040-A4	M10	40	5.5	17.5	6	10.6	A4 s/s
P0174.120-020-A4	M12	20	6.6	21.0	8	12.9	A4 s/s
P0174.120-025-A4	M12	25	6.6	21.0	8	12.9	A4 s/s
P0174.120-030-A4	M12	30	6.6	21.0	8	12.9	A4 s/s
P0174.120-040-A4	M12	40	6.6	21.0	8	12.9	A4 s/s
P0174.120-050-A4	M12	50	6.6	21.0	8	12.9	A4 s/s
P0174.030-006-VI	M 3	6	1.7	5.7	2	3.6	VI s/s
P0174.030-008-VI	M 3	8	1.7	5.7	2	3.6	VI s/s
P0174.030-010-VI	M 3	10	1.7	5.7	2	3.6	VI s/s
P0174.030-012-VI	M 3	12	1.7	5.7	2	3.6	VI s/s
P0174.030-020-VI	M 3	20	1.7	5.7	2	3.6	VI s/s
P0174.040-006-VI	M 4	6	2.2	7.6	2.5	4.5	VI s/s
P0174.040-008-VI	M 4	8	2.2	7.6	2.5	4.5	VI s/s
P0174.040-010-VI	M 4	10	2.2	7.6	2.5	4.5	VI s/s
P0174.040-012-VI	M 4	12	2.2	7.6	2.5	4.5	VI s/s
P0174.040-016-VI	M 4	16	2.2	7.6	2.5	4.5	VI s/s
P0174.040-020-VI	M 4	20	2.2	7.6	2.5	4.5	VI s/s
P0174.050-008-VI	M 5	8	2.8	9.5	3	5.6	VI s/s
P0174.050-010-VI	M 5	10	2.8	9.5	3	5.6	VI s/s
P0174.050-012-VI	M 5	12	2.8	9.5	3	5.6	VI s/s
P0174.050-016-VI	M 5	16	2.8	9.5	3	5.6	VI s/s
P0174.050-020-VI	M 5	20	2.8	9.5	3	5.6	VI s/s
P0174.060-012-VI	M 6	12	3.3	10.5	4	6.8	VI s/s
P0174.060-016-VI	M 6	16	3.3	10.5	4	6.8	VI s/s
P0174.060-020-VI	M 6	20	3.3	10.5	4	6.8	VI s/s
P0174.060-025-VI	M 6	25	3.3	10.5	4	6.8	VI s/s
P0174.060-030-VI	M 6	30	3.3	10.5	4	6.8	VI s/s
P0174.080-012-VI	M 8	12	4.4	14.0	5	8.5	VI s/s
P0174.080-016-VI	M 8	16	4.4	14.0	5	8.5	VI s/s
P0174.080-020-VI	M 8	20	4.4	14.0	5	8.5	VI s/s

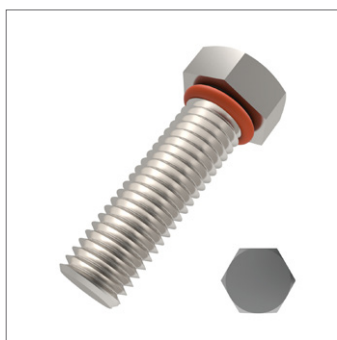
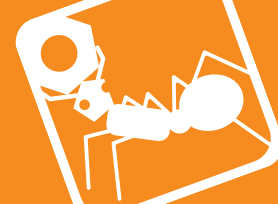


Button Head Seal Screws

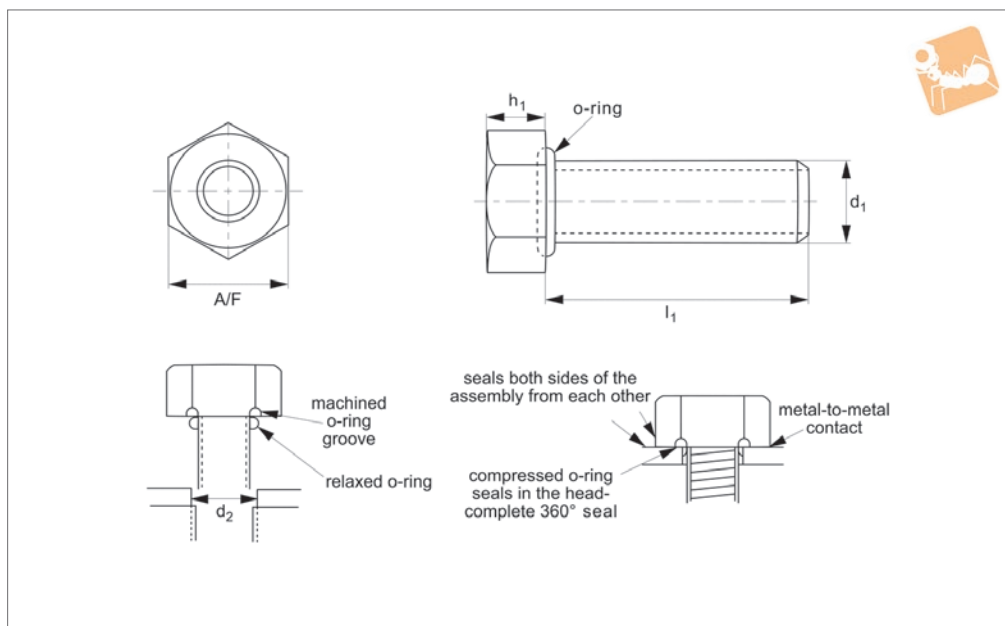
hex. socket

Sealing Screws and Plugs

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0174.080-025-VI	M 8	25	4.4	14.0	5	8.5	VI s/s
P0174.080-030-VI	M 8	30	4.4	14.0	5	8.5	VI s/s
P0174.100-016-VI	M10	16	5.5	17.5	6	10.6	VI s/s
P0174.100-020-VI	M10	20	5.5	17.5	6	10.6	VI s/s
P0174.100-025-VI	M10	25	5.5	17.5	6	10.6	VI s/s
P0174.100-030-VI	M10	30	5.5	17.5	6	10.6	VI s/s
P0174.100-040-VI	M10	40	5.5	17.5	6	10.6	VI s/s
P0174.120-020-VI	M12	20	6.6	21.0	8	12.9	VI s/s
P0174.120-025-VI	M12	25	6.6	21.0	8	12.9	VI s/s
P0174.120-030-VI	M12	30	6.6	21.0	8	12.9	VI s/s
P0174.120-040-VI	M12	40	6.6	21.0	8	12.9	VI s/s
P0174.120-050-VI	M12	50	6.6	21.0	8	12.9	VI s/s



P0176



Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 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 on request.

Technical Notes

Clearance holes recommended for maximum sealing, seals substances in and contaminants out.
Max temperature range: -100°C to +260°C,
pressure range - up to 410 bar (6000 psi).
Re-useable, 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	l ₁	A/F	h ₁ max.	d ₂ ±0.05	Material
P0176.020-004-A2	M 2	4	4.0	1.6	2.35	A2 s/s
P0176.020-008-A2	M 2	8	4.0	1.6	2.35	A2 s/s
P0176.020-010-A2	M 2	10	4.0	1.6	2.35	A2 s/s
P0176.020-012-A2	M 2	12	4.0	1.6	2.35	A2 s/s
P0176.020-020-A2	M 2	20	4.0	1.6	2.35	A2 s/s
P0176.030-006-A2	M 3	6	5.5	2.2	3.6	A2 s/s
P0176.030-008-A2	M 3	8	5.5	2.2	3.6	A2 s/s
P0176.030-010-A2	M 3	10	5.5	2.2	3.6	A2 s/s
P0176.030-012-A2	M 3	12	5.5	2.2	3.6	A2 s/s
P0176.030-020-A2	M 3	20	5.5	2.2	3.6	A2 s/s
P0176.040-006-A2	M 4	6	7.0	3.0	4.5	A2 s/s
P0176.040-008-A2	M 4	8	7.0	3.0	4.5	A2 s/s
P0176.040-010-A2	M 4	10	7.0	3.0	4.5	A2 s/s
P0176.040-012-A2	M 4	12	7.0	3.0	4.5	A2 s/s
P0176.040-016-A2	M 4	16	7.0	3.0	4.5	A2 s/s
P0176.040-020-A2	M 4	20	7.0	3.0	4.5	A2 s/s
P0176.050-008-A2	M 5	8	8.0	3.7	5.6	A2 s/s
P0176.050-010-A2	M 5	10	8.0	3.7	5.6	A2 s/s
P0176.050-012-A2	M 5	12	8.0	3.7	5.6	A2 s/s
P0176.050-016-A2	M 5	16	8.0	3.7	5.6	A2 s/s
P0176.050-020-A2	M 5	20	8.0	3.7	5.6	A2 s/s
P0176.060-012-A2	M 6	12	10.0	4.2	6.8	A2 s/s
P0176.060-016-A2	M 6	16	10.0	4.2	6.8	A2 s/s
P0176.060-020-A2	M 6	20	10.0	4.2	6.8	A2 s/s
P0176.060-025-A2	M 6	25	10.0	4.2	6.8	A2 s/s
P0176.060-030-A2	M 6	30	10.0	4.2	6.8	A2 s/s
P0176.080-012-A2	M 8	12	13.0	5.5	8.5	A2 s/s
P0176.080-016-A2	M 8	16	13.0	5.5	8.5	A2 s/s

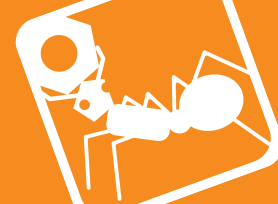


Integral Seal Bolts

hexagon head

Sealing Screws and Plugs

Order No.	d ₁	l ₁	A/F	h ₁ max.	d ₂ ±0.05	Material
P0176.080-020-A2	M 8	20	13.0	5.5	8.5	A2 s/s
P0176.080-025-A2	M 8	25	13.0	5.5	8.5	A2 s/s
P0176.080-030-A2	M 8	30	13.0	5.5	8.5	A2 s/s
P0176.080-040-A2	M 8	40	13.0	5.5	8.5	A2 s/s
P0176.100-016-A2	M10	16	16.0	6.6	10.6	A2 s/s
P0176.100-020-A2	M10	20	16.0	6.6	10.6	A2 s/s
P0176.100-025-A2	M10	25	16.0	6.6	10.6	A2 s/s
P0176.100-030-A2	M10	30	16.0	6.6	10.6	A2 s/s
P0176.100-040-A2	M10	40	16.0	6.6	10.6	A2 s/s
P0176.100-050-A2	M10	50	16.0	6.6	10.6	A2 s/s
P0176.120-020-A2	M12	20	18.0	7.7	12.85	A2 s/s
P0176.120-025-A2	M12	25	18.0	7.7	12.85	A2 s/s
P0176.120-030-A2	M12	30	18.0	7.7	12.85	A2 s/s
P0176.120-040-A2	M12	40	18.0	7.7	12.85	A2 s/s
P0176.120-050-A2	M12	50	18.0	7.7	12.85	A2 s/s
P0176.020-004-A4	M 2	4	4.0	1.6	2.35	A4 s/s
P0176.020-008-A4	M 2	8	4.0	1.6	2.35	A4 s/s
P0176.020-010-A4	M 2	10	4.0	1.6	2.35	A4 s/s
P0176.020-012-A4	M 2	12	4.0	1.6	2.35	A4 s/s
P0176.020-020-A4	M 2	20	4.0	1.6	2.35	A4 s/s
P0176.030-006-A4	M 3	6	5.5	2.2	3.6	A4 s/s
P0176.030-008-A4	M 3	8	5.5	2.2	3.6	A4 s/s
P0176.030-010-A4	M 3	10	5.5	2.2	3.6	A4 s/s
P0176.030-012-A4	M 3	12	5.5	2.2	3.6	A4 s/s
P0176.030-020-A4	M 3	20	5.5	2.2	3.6	A4 s/s
P0176.040-006-A4	M 4	6	7.0	3.0	4.5	A4 s/s
P0176.040-008-A4	M 4	8	7.0	3.0	4.5	A4 s/s
P0176.040-010-A4	M 4	10	7.0	3.0	4.5	A4 s/s
P0176.040-012-A4	M 4	12	7.0	3.0	4.5	A4 s/s
P0176.040-016-A4	M 4	16	7.0	3.0	4.5	A4 s/s
P0176.040-020-A4	M 4	20	7.0	3.0	4.5	A4 s/s
P0176.050-008-A4	M 5	8	8.0	3.7	5.6	A4 s/s
P0176.050-010-A4	M 5	10	8.0	3.7	5.6	A4 s/s
P0176.050-012-A4	M 5	12	8.0	3.7	5.6	A4 s/s
P0176.050-016-A4	M 5	16	8.0	3.7	5.6	A4 s/s
P0176.050-020-A4	M 5	20	8.0	3.7	5.6	A4 s/s
P0176.060-012-A4	M 6	12	10.0	4.2	6.8	A4 s/s
P0176.060-016-A4	M 6	16	10.0	4.2	6.8	A4 s/s
P0176.060-020-A4	M 6	20	10.0	4.2	6.8	A4 s/s
P0176.060-025-A4	M 6	25	10.0	4.2	6.8	A4 s/s
P0176.060-030-A4	M 6	30	10.0	4.2	6.8	A4 s/s
P0176.080-012-A4	M 8	12	13.0	5.5	8.5	A4 s/s
P0176.080-016-A4	M 8	16	13.0	5.5	8.5	A4 s/s
P0176.080-020-A4	M 8	20	13.0	5.5	8.5	A4 s/s
P0176.080-025-A4	M 8	25	13.0	5.5	8.5	A4 s/s
P0176.080-030-A4	M 8	30	13.0	5.5	8.5	A4 s/s
P0176.080-040-A4	M 8	40	13.0	5.5	8.5	A4 s/s
P0176.100-016-A4	M10	16	16.0	6.6	10.6	A4 s/s
P0176.100-020-A4	M10	20	16.0	6.6	10.6	A4 s/s
P0176.100-025-A4	M10	25	16.0	6.6	10.6	A4 s/s
P0176.100-030-A4	M10	30	16.0	6.6	10.6	A4 s/s
P0176.100-040-A4	M10	40	16.0	6.6	10.6	A4 s/s
P0176.100-050-A4	M10	50	16.0	6.6	10.6	A4 s/s
P0176.120-020-A4	M12	20	18.0	7.7	12.85	A4 s/s
P0176.120-025-A4	M12	25	18.0	7.7	12.85	A4 s/s
P0176.120-030-A4	M12	30	18.0	7.7	12.85	A4 s/s
P0176.120-040-A4	M12	40	18.0	7.7	12.85	A4 s/s
P0176.120-050-A4	M12	50	18.0	7.7	12.85	A4 s/s
P0176.020-004-VI	M 2	4	4.0	1.6	2.35	VI s/s
P0176.020-008-VI	M 2	8	4.0	1.6	2.35	VI s/s
P0176.020-010-VI	M 2	10	4.0	1.6	2.35	VI s/s
P0176.020-012-VI	M 2	12	4.0	1.6	2.35	VI s/s
P0176.020-020-VI	M 2	20	4.0	1.6	2.35	VI s/s
P0176.030-006-VI	M 3	6	5.5	2.2	3.6	VI s/s
P0176.030-008-VI	M 3	8	5.5	2.2	3.6	VI s/s
P0176.030-010-VI	M 3	10	5.5	2.2	3.6	VI s/s
P0176.030-012-VI	M 3	12	5.5	2.2	3.6	VI s/s
P0176.030-020-VI	M 3	20	5.5	2.2	3.6	VI s/s

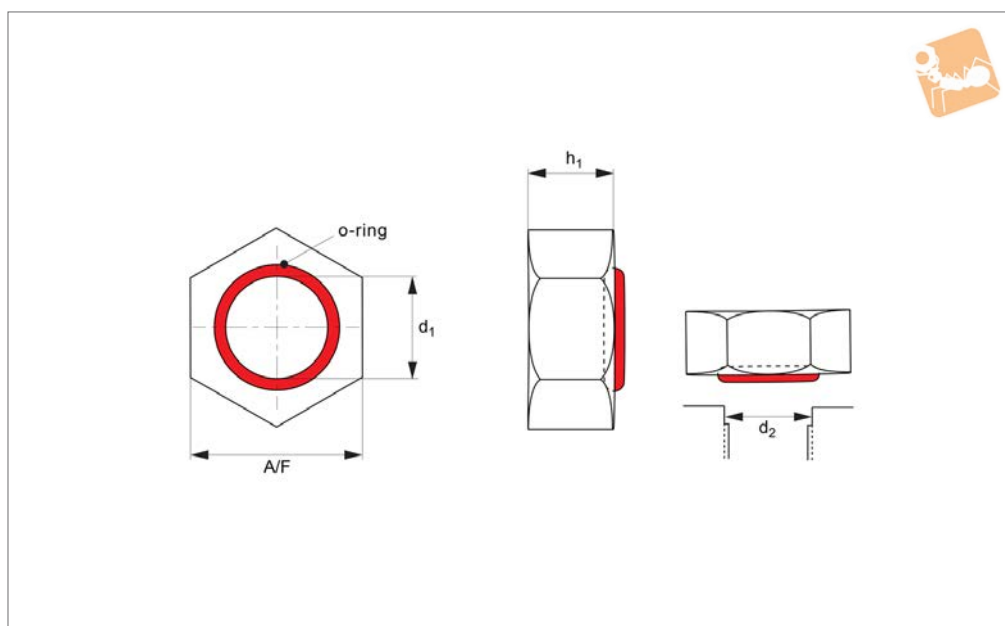


Order No.	d ₁	l ₁	A/F	h ₁ max.	d ₂ ±0.05	Material
P0176.040-006-VI	M 4	6	7.0	3.0	4.5	VI s/s
P0176.040-008-VI	M 4	8	7.0	3.0	4.5	VI s/s
P0176.040-010-VI	M 4	10	7.0	3.0	4.5	VI s/s
P0176.040-012-VI	M 4	12	7.0	3.0	4.5	VI s/s
P0176.040-016-VI	M 4	16	7.0	3.0	4.5	VI s/s
P0176.040-020-VI	M 4	20	7.0	3.0	4.5	VI s/s
P0176.050-008-VI	M 5	8	8.0	3.7	5.6	VI s/s
P0176.050-010-VI	M 5	10	8.0	3.7	5.6	VI s/s
P0176.050-012-VI	M 5	12	8.0	3.7	5.6	VI s/s
P0176.050-016-VI	M 5	16	8.0	3.7	5.6	VI s/s
P0176.050-020-VI	M 5	20	8.0	3.7	5.6	VI s/s
P0176.060-012-VI	M 6	12	10.0	4.2	6.8	VI s/s
P0176.060-016-VI	M 6	16	10.0	4.2	6.8	VI s/s
P0176.060-020-VI	M 6	20	10.0	4.2	6.8	VI s/s
P0176.060-025-VI	M 6	25	10.0	4.2	6.8	VI s/s
P0176.060-030-VI	M 6	30	10.0	4.2	6.8	VI s/s
P0176.080-012-VI	M 8	12	13.0	5.5	8.5	VI s/s
P0176.080-016-VI	M 8	16	13.0	5.5	8.5	VI s/s
P0176.080-020-VI	M 8	20	13.0	5.5	8.5	VI s/s
P0176.080-025-VI	M 8	25	13.0	5.5	8.5	VI s/s
P0176.080-030-VI	M 8	30	13.0	5.5	8.5	VI s/s
P0176.080-040-VI	M 8	40	13.0	5.5	8.5	VI s/s
P0176.100-016-VI	M10	16	16.0	6.6	10.6	VI s/s
P0176.100-020-VI	M10	20	16.0	6.6	10.6	VI s/s
P0176.100-025-VI	M10	25	16.0	6.6	10.6	VI s/s
P0176.100-030-VI	M10	30	16.0	6.6	10.6	VI s/s
P0176.100-040-VI	M10	40	16.0	6.6	10.6	VI s/s
P0176.100-050-VI	M10	50	16.0	6.6	10.6	VI s/s
P0176.120-020-VI	M12	20	18.0	7.7	12.85	VI s/s
P0176.120-025-VI	M12	25	18.0	7.7	12.85	VI s/s
P0176.120-030-VI	M12	30	18.0	7.7	12.85	VI s/s
P0176.120-040-VI	M12	40	18.0	7.7	12.85	VI s/s
P0176.120-050-VI	M12	50	18.0	7.7	12.85	VI s/s



Integral Seal Hex. Nuts Stainless

Sealing Screws and Plugs



P0178

SEALING SCREWS AND PLUGS

Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 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.).

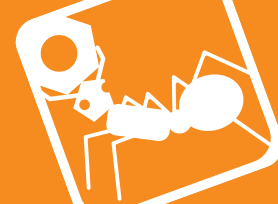
Technical Notes

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
P0178.020-A2-SI	M 2	4	2.35	1.6	A2 s/s
P0178.025-A2-SI	M2,5	5	2.75	2.0	A2 s/s
P0178.030-A2-SI	M 3	5.5	3.6	2.4	A2 s/s
P0178.040-A2-SI	M 4	7	4.5	3.2	A2 s/s
P0178.050-A2-SI	M 5	8	5.6	4.7	A2 s/s
P0178.060-A2-SI	M 6	10	6.8	5.2	A2 s/s
P0178.080-A2-SI	M 8	13	8.5	6.8	A2 s/s
P0178.100-A2-SI	M10	16	10.6	8.4	A2 s/s
P0178.120-A2-SI	M12	18	12.85	10.8	A2 s/s
P0178.140-A2-SI	M14	21	15.1	12.8	A2 s/s
P0178.160-A2-SI	M16	24	17.5	14.8	A2 s/s
P0178.020-A4-SI	M 2	4	2.35	1.6	A4 s/s
P0178.025-A4-SI	M2,5	5	2.75	2.0	A4 s/s
P0178.030-A4-SI	M 3	5.5	3.6	2.4	A4 s/s
P0178.040-A4-SI	M 4	7	4.5	3.2	A4 s/s
P0178.050-A4-SI	M 5	8	5.6	4.7	A4 s/s
P0178.060-A4-SI	M 6	10	6.8	5.2	A4 s/s
P0178.080-A4-SI	M 8	13	8.5	6.8	A4 s/s
P0178.100-A4-SI	M10	16	10.6	8.4	A4 s/s
P0178.120-A4-SI	M12	18	12.85	10.8	A4 s/s
P0178.140-A4-SI	M14	21	15.1	12.8	A4 s/s
P0178.160-A4-SI	M16	24	17.5	14.8	A4 s/s
P0178.020-A2-VI	M 2	4	2.35	1.6	A2 s/s
P0178.025-A2-VI	M2,5	5	2.75	2.0	A2 s/s
P0178.030-A2-VI	M 3	5.5	3.6	2.4	A2 s/s
P0178.040-A2-VI	M 4	7	4.5	3.2	A2 s/s
P0178.050-A2-VI	M 5	8	5.6	4.7	A2 s/s
P0178.060-A2-VI	M 6	10	6.8	5.2	A2 s/s
P0178.080-A2-VI	M 8	13	8.5	6.8	A2 s/s



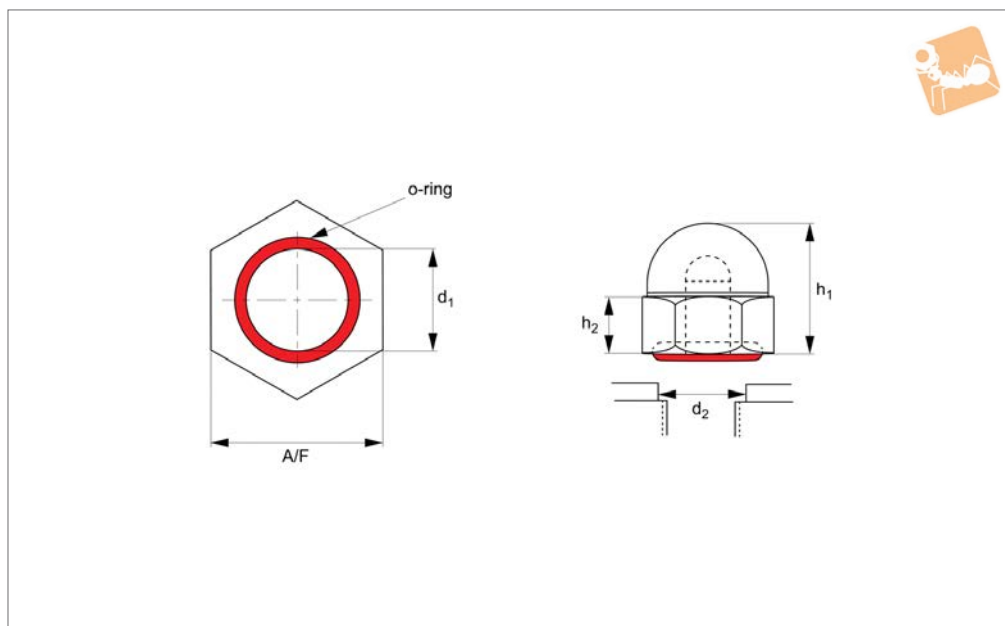
Order No.	d ₁	A/F	d ₂ ±0.05	h ₁ max.	Material
P0178.100-A2-VI	M10	16	10.6	8.4	A2 s/s
P0178.120-A2-VI	M12	18	12.85	10.8	A2 s/s
P0178.140-A2-VI	M14	21	15.1	12.8	A2 s/s
P0178.160-A2-VI	M16	24	17.5	14.8	A2 s/s
P0178.020-A4-VI	M 2	4	2.35	1.6	A4 s/s
P0178.025-A4-VI	M2,5	5	2.75	2.0	A4 s/s
P0178.030-A4-VI	M 3	5.5	3.6	2.4	A4 s/s
P0178.040-A4-VI	M 4	7	4.5	3.2	A4 s/s
P0178.050-A4-VI	M 5	8	5.6	4.7	A4 s/s
P0178.060-A4-VI	M 6	10	6.8	5.2	A4 s/s
P0178.080-A4-VI	M 8	13	8.5	6.8	A4 s/s
P0178.100-A4-VI	M10	16	10.6	8.4	A4 s/s
P0178.120-A4-VI	M12	18	12.85	10.8	A4 s/s
P0178.140-A4-VI	M14	21	15.1	12.8	A4 s/s
P0178.160-A4-VI	M16	24	17.5	14.8	A4 s/s



Integral Seal Domed Nuts

A2 stainless

Sealing Screws and Plugs



P0179

SEALING SCREWS AND PLUGS

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 etc.).

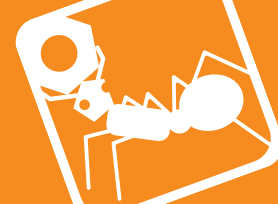
Technical Notes

Seals substances in and contaminants out.
Re-useable.
Max temperature range: -100°C to +260°C,
pressure range - up to 410 bar (6000 psi).

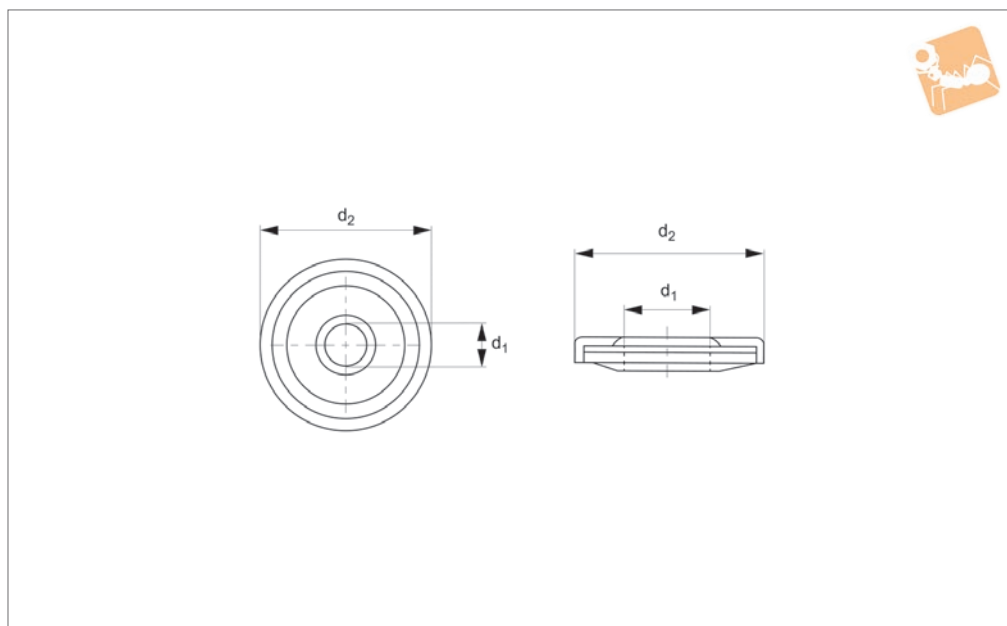
Tips

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	h ₂	Material
P0179.030-A2-SI	M 3	5.5	3.6	6	2.4	A2 s/s
P0179.040-A2-SI	M 4	7	4.5	8	3.2	A2 s/s
P0179.050-A2-SI	M 5	8	5.6	10	4.0	A2 s/s
P0179.060-A2-SI	M 6	10	6.8	12	5.0	A2 s/s
P0179.080-A2-SI	M 8	13	8.5	15	6.5	A2 s/s
P0179.100-A2-SI	M10	17	10.6	18	8.0	A2 s/s
P0179.120-A2-SI	M12	19	12.85	22	10.0	A2 s/s
P0179.160-A2-SI	M16	24	17.5	28	13.0	A2 s/s
P0179.030-A4-SI	M 3	5.5	3.6	6	2.4	A4 s/s
P0179.040-A4-SI	M 4	7	4.5	8	3.2	A4 s/s
P0179.050-A4-SI	M 5	8	5.6	10	4.0	A4 s/s
P0179.060-A4-SI	M 6	10	6.8	12	5.0	A4 s/s
P0179.080-A4-SI	M 8	13	8.5	15	6.5	A4 s/s
P0179.100-A4-SI	M10	17	10.6	18	8.0	A4 s/s
P0179.120-A4-SI	M12	19	12.85	22	10.0	A4 s/s
P0179.160-A4-SI	M16	24	17.5	28	13.0	A4 s/s
P0179.030-A2-VI	M 3	5.5	3.6	6	2.4	A2 s/s
P0179.040-A2-VI	M 4	7	4.5	8	3.2	A2 s/s
P0179.050-A2-VI	M 5	8	5.6	10	4.0	A2 s/s
P0179.060-A2-VI	M 6	10	6.8	12	5.0	A2 s/s
P0179.080-A2-VI	M 8	13	8.5	15	6.5	A2 s/s
P0179.100-A2-VI	M10	17	10.6	18	8.0	A2 s/s
P0179.120-A2-VI	M12	19	12.85	22	10.0	A2 s/s
P0179.160-A2-VI	M16	24	17.5	28	13.0	A2 s/s
P0179.030-A4-VI	M 3	5.5	3.6	6	2.4	A4 s/s
P0179.040-A4-VI	M 4	7	4.5	8	3.2	A4 s/s
P0179.050-A4-VI	M 5	8	5.6	10	4.0	A4 s/s
P0179.060-A4-VI	M 6	10	6.8	12	5.0	A4 s/s
P0179.080-A4-VI	M 8	13	8.5	15	6.5	A4 s/s
P0179.100-A4-VI	M10	17	10.6	18	8.0	A4 s/s
P0179.120-A4-VI	M12	19	12.85	22	10.0	A4 s/s



Order No.	d ₁	A/F	d ₂ ±0.05	h ₁	h ₂	Material
P0179.160-A4-VI	M16	24	17.5	28	13.0	A4 s/s



P0180

Material

Stainless steel (A4, AISI 316), with ribbed silicone rubber bonded sealing element.

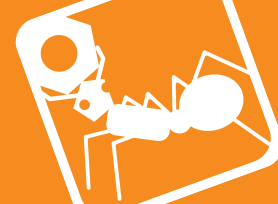
Technical Notes

Seals substances in and contaminants out.

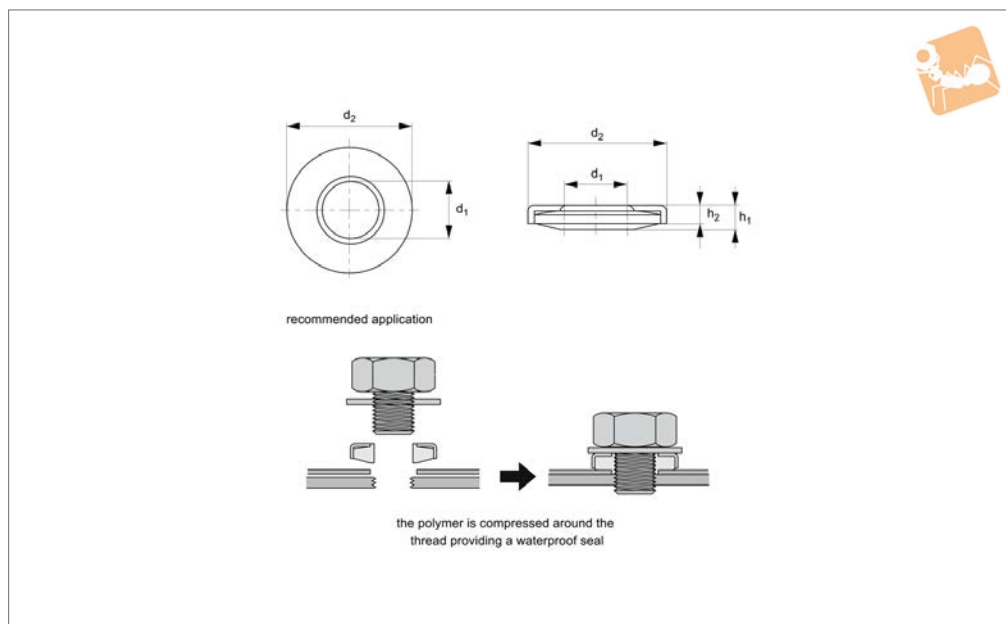
The silicone contact surface has continuous ridge which forms a 360.C seal around periphery of the washer when compressed. The silicone also forms a seal under the head of its fastener making full contact

with the threads/ shank thereby are fully re-usable. Max. temperature range: -75C to +205C. IP 66/68 rated, pressure range: exceeds 100 psi internal and external.

Order No.	For thread d_1	d_2
P0180.030-012-A4	M 3	14.5
P0180.030-025-A4	M 3	25.5
P0180.040-025-A4	M 4	25.5
P0180.050-012-A4	M 5	14.5
P0180.050-025-A4	M 5	25.5
P0180.060-025-A4	M 6	25.5
P0180.080-025-A4	M 8	25.5
P0180.100-025-A4	M10	25.5
P0180.120-025-A4	M12	25.5



P0181



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 elas-

tomer 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 °C.

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
P0181.030-A2	M 3	3.0	8	3.1	2.5	0,3-0,6	7	7	0.4
P0181.040-A2	M 4	4.1	10	3.5	3.0	0,8-1,5	7	7	0.6
P0181.050-A2	M 5	5.1	12	3.5	3.0	1,5-3,0	7	7	1.0
P0181.060-A2	M 6	6.1	14	3.5	3.0	2,5-5,0	7	7	1.0
P0181.080-A2	M 8	8.1	18	4.0	3.0	6,2-12	7	7	2.0
P0181.100-A2	M10	10.1	23	4.0	3.0	24-12	7	7	3.0
P0181.120-A2	M12	12.1	25	4.0	3.0	21-42	7	7	4.0
P0181.160-A2	M16	16.1	30	4.5	3.0	53-106	7	7	6.0
P0181.200-A2	M20	20.1	37	4.5	3.0	103 min.	7	7	9.0