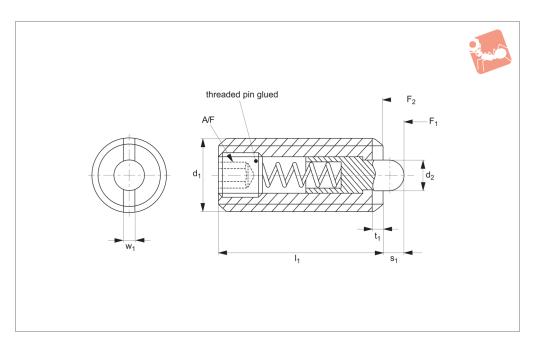


Spring Plungers

with pin end & hex. socket - stainless steel







32200

Material

Free cutting steel type-

Body: free cutting steel, blackened. Pin: free cutting steel, hardened, blackened, or thermoplastic POM, white. Spring: stainless steel.

Stainless steel type-

Body: stainless steel 1.4305 (AISI 303). Pin: stainless steel 1.4305 (AISI 303), or thermoplastic POM, white. Spring: stainless steel.

Technical Notes

These spring plungers may be used for

location, for applying pressure or lifting off

Temperature range: all steel or stainless, up to 250°C.

Steel or stainless with thermoplastic pin, - 30° C to + 50° C.

Spring load * = statistical average value.

Tips

Spring load identifier:

Normal spring load - no marking. Increased spring load - body marked with two lines.

These spring plungers can be assembled by

use of a hexagon key at the rear, or from the front with special slotted screwdrivers, see 32200.W0803 to .W0824. Special types available on request.

Important Notes

All metric Wixroyd spring plungers have a coarse thread, see appendix five for thread details.

Order No.	Spring load	Finish	d_1	d ₂	d ₃	I_1	s_1	Spring load F_1 N \approx	Spring load F ₂ N ≈	t ₁	w_1	A/F	Weight g
32200.W0003	Normal	All Steel	М3	1.0	-	12	1.0	2.0	4	0.5	0.4	0.7	0.40
32200.W0004	Normal	All Steel	M 4	1.5	-	15	1.5	4.5	16	0.6	0.6	1.3	0.93
32200.W0005	Normal	All Steel	M 5	2.4	-	18	2.3	6.0	19	0.8	1.2	1.5	1.70
32200.W0006	Normal	All Steel	M 6	2.7	-	20	2.5	6.0	19	0.9	1.3	2.0	2.80
32200.W0008	Normal	All Steel	M 8	3.5	-	22	3.0	10.0	39	1.4	1.5	2.5	5.80
32200.W0010	Normal	All Steel	M10	4.0	-	22	3.0	10.0	39	1.4	1.5	3.0	9.20
32200.W0012	Normal	All Steel	M12	6.0	-	28	4.0	12.0	53	2.0	2.7	4.0	16.00
32200.W0016	Normal	All Steel	M16	7.5	-	32	5.0	45.0	100	2.5	3.2	5.0	35.00
32200.W0020	Normal	All Steel	M20	10.0	-	40	7.0	52.0	125	3.0	3.7	6.0	68.00
32200.W0024	Normal	All Steel	M24	12.0	-	52	10.0	70.0	170	3.0	3.7	8.0	131.00
32200.W0105	Increased	All Steel	M 5	2.4	-	18	2.3	11.0	40	8.0	1.2	1.5	1.60
32200.W0106	Increased	All Steel	M 6	2.7	-	20	2.5	15.0	43	0.9	1.3	2.0	2.80
32200.W0108	Increased	All Steel	M 8	3.5	-	22	3.0	20.0	75	1.4	1.5	2.5	5.80
32200.W0110	Increased	All Steel	M10	4.0	-	22	3.0	20.0	75	1.4	1.5	3.0	9.30
32200.W0112	Increased	All Steel	M12	6.0	-	28	4.0	45.0	120	2.0	2.7	4.0	16.00
32200.W0116	Increased	All Steel	M16	7.5	-	32	5.0	64.0	160	2.5	3.2	5.0	33.00
32200.W0120	Increased	All Steel	M20	10.0	-	40	7.0	75.0	195	3.0	3.7	6.0	67.00
32200.W0124	Increased	All Steel	M24	12.0	-	52	10.0	75.0	245	3.0	3.7	8.0	129.00
32200.W0204	Normal	Steel, Thermo Pin	M 4	1.5	-	15	1.5	4.5	16	0.6	0.6	1.3	0.86
32200.W0205	Normal	Steel, Thermo Pin	M 5	2.4	-	18	2.3	6.0	19	0.8	1.2	1.5	1.50
32200.W0206	Normal	Steel, Thermo Pin	M 6	2.7	-	20	2.5	6.0	19	0.9	1.3	2.0	2.30
32200.W0208	Normal	Steel, Thermo Pin	M 8	3.5	-	22	3.0	10.0	39	1.4	1.5	2.5	5.10



Spring Plungers

Spring Plungers with pin end & hex. socket - stainless steel

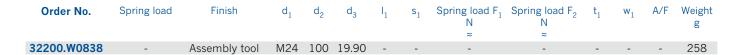


32200.W0210 Normal Steel, Thermo Pin M10 40 22 30 100 39 1.4 1.5 30 8.10 32200.W0216 Normal Steel, Thermo Pin M16 7.5 32 5.0 45.0 100 2.5 3.2 5.0 3.100 32200.W0408 Normal Steel, Thermo Pin M16 7.5 3.2 5.0 45.0 100 2.5 3.2 5.0 3.100 32200.W0408 Normal Steel, Thermo Pin M16 7.5 3.2 5.0 45.0 100 2.5 3.2 5.0 3.100 32200.W0408 Normal All Stainless M3 1 12 1.0 2.0 4 4.05 0.4 0.7 0.9 3.2200.W0406 Normal All Stainless M5 2.4 18 2.3 6.0 19 0.9 1.3 2.0 2.80 32200.W0408 Normal All Stainless M5 5.2 2.5 3.0 100 39 1.4 1.5 5.5 5.9 32200.W04010 Normal All Stainless M8 5.2 2.30 100 39 1.4 1.5 3.0 9.50 32200.W0412 Normal All Stainless M10 4.0 2.2 3.0 100 39 1.4 1.5 3.0 9.50 32200.W0412 Normal All Stainless M12 6.0 2.8 4.0 12.0 5.3 2.0 2.7 4.0 17.00 32200.W0416 Normal All Stainless M16 7.5 3.2 5.0 45.0 100 2.5 3.2 5.0 35.00 32200.W0405 Increased Stainless M5 2.4 18 2.3 1.0 4.4 0.8 1.2 1.5 2.2 3.2 3.0 3.	Orde	er No.	Spring load	Finish	d_1	d ₂	d ₃	I_1	s_1	Spring load F ₁ N ≈	Spring load F ₂ N ≈	t ₁	w_1	A/F	Weight g
32200.W0212 Normal Steel, Thermo Pin M12 6.0 - 28 4.0 12.0 53 2.0 2.7 4.0 14.00 32200.W0403 Normal Steel, Thermo Pin M16 75 - 32 5.0 45.00 0.5 3.2 5.0 31.00 32200.W0404 Normal All Stainless M3 1 12 1.0 2.0 4 0.5 0.4 0.7 0.9 32200.W0406 Normal All Stainless M4 1.5 1.5 1.5 4.5 1.6 0.6 0.6 1.3 1.10 32200.W0406 Normal All Stainless M6 2.4 1.8 2.3 6.0 1.9 0.9 1.3 2.0 2.5 32200.W0408 Normal All Stainless M6 2.7 2.0 2.5 6.0 1.9 0.9 1.3 2.0 2.5 3.2 3	32200	.W0210	Normal	Steel, Thermo Pin	M10	4.0	-	22	3.0	10.0	39	1.4	1.5	3.0	8.10
32200.W04040 Normal Stainless M 3 1 1 10 2.0 4 0.5 0.4 0.7 0.9	32200	.W0212		,		6.0	-	28	4.0		53	2.0		4.0	
32200.W0404 Normal All Stainless M 4 15 15 15 4.5 16 0.6 0.6 0.3 1.10	32200	.W0216	Normal		M16	7.5	-	32	5.0	45.0	100	2.5	3.2	5.0	31.00
32200.W0406	32200	.W0403	Normal	Stainless	М 3	1	-	12	1.0	2.0	4	0.5	0.4	0.7	0.9
32200.W0406 Normal All Stainless M6 2,7 20 2.5 6.0 19 0.9 1.3 2.0 2.80	32200	.W0404	Normal	All Stainless	M 4	1.5	-	15	1.5	4.5	16	0.6	0.6	1.3	1.10
32200.W0410	32200	.W0405	Normal	All Stainless	M 5	2.4	-	18	2.3	6.0	19	0.8	1.2	1.5	1.70
32200.w0410	32200	.W0406	Normal	All Stainless	M 6	2.7	-	20	2.5	6.0	19	0.9	1.3	2.0	2.80
32200.W0416 Normal	32200	.W0408	Normal	All Stainless	M 8	3.5	-	22	3.0	10.0	39	1.4	1.5	2.5	
32200.W0420 Normal All Stainless M20 10.0 - 40 7.0 52.0 125 3.0 3.7 6.0 68.00 32200.W0505 Increased Stainless M5 2.4 - 18 2.3 15.0 44 0.8 1.2 1.5 2.2 32200.W0506 Increased Stainless M6 2.7 - 20 2.5 20.0 50 0.9 1.3 2.0 4.1 32200.W0506 Increased Stainless M6 2.7 - 20 2.5 20.0 50 0.9 1.3 2.0 4.1 32200.W0506 Increased Stainless M8 3.5 - 22 3.0 26.0 70 1.4 1.5 2.5 7.4 32200.W0510 Increased Stainless M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 12.4 32200.W0510 Increased Stainless M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 12.4 32200.W0510 Increased Stainless M16 7.5 - 32 5.0 72.0 164 2.5 3.2 5.0 46.1 32200.W0520 Increased Stainless M20 10.0 - 40 7.0 93.0 211 3.0 3.7 7.0 86.5 32200.W0524 Increased Stainless M24 12.0 - 52 10.0 86.0 247 3.0 3.7 7.0 86.5 32200.W0604 Normal S/S, Thermo Pin M4 1.5 - 15 1.5 4.5 16 0.6 0.6 0.6 1.3 0.93 32200.W0606 Normal S/S, Thermo Pin M4 1.5 - 15 1.5 4.5 16 0.6 0.6 0.6 1.3 0.93 32200.W0606 Normal S/S, Thermo Pin M6 2.7 - 2 2.5 6.0 19 0.9 1.3 2.0 2.50 32200.W0610 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 10.0 39 1.4 1.5 2.5 5.1 32200.W0610 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 10.0 39 1.4 1.5 2.5 5.1 32200.W0616 Normal S/S, Thermo Pin M10 6.0 - 28 4.0 12.0 53 2.0 2.7 4.0 14.00 32200.W0616 Normal S/S, Thermo Pin M10 6.0 - 28 4.0 12.0 53 2.0 2.7 4.0 14.00 32200.W0616 Normal S/S, Thermo Pin M10 6.0 - 28 4.0 12.0 53 2.0 2.7 4.0 14.00 32200.W0616 Normal S/S, Thermo Pin M16 7.5 - 32 5.0 45.0 10.0 39 1.4 1.5 5.5 5.0 32.00 32200.W0616 Normal S/S, Thermo Pin M10 6.0 - 28 4.0 12.0 5.0 5.0 5.0 5.0				All Stainless			-								
32200.W0505 Increased Stainless M20 10.0 - 40 7.0 52.0 125 3.0 3.7 6.0 68.00 32200.W0506 Increased Stainless M 5 2.4 - 18 2.3 15.0 44 0.8 1.2 1.5 2.2 32200.W0506 Increased Stainless M 6 2.7 - 20 2.5 20.0 50 0.9 1.3 2.0 4.1 32200.W0510 Increased Stainless M 8 3.5 - 22 3.0 26.0 70 1.4 1.5 2.5 7.4 32200.W0510 Increased Stainless M 10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 12.4 32200.W0512 Increased Stainless M 12 6.0 - 28 4.0 51.0 122 2.0 2.7 4.0 22.2 32200.W0516 Increased Stainless M 12 6.0 - 28 4.0 51.0 122 2.0 2.7 4.0 22.2 32200.W0516 Increased Stainless M 16 7.5 - 32 5.0 72.0 164 2.5 3.2 5.0 46.1 32200.W0524 Increased Stainless M 12 1.0 - 52 10.0 86.0 247 3.0 3.7 7.0 86.5 32200.W0604 Normal S/s, Thermo Pin M 4 1.5 - 15 1.5 4.5 16 0.6 0.6 1.3 0.93 32200.W0606 Normal S/s, Thermo Pin M 5 2.4 - 18 2.3 6.0 19 0.8 1.2 1.5 1.6 32200.W0606 Normal S/s, Thermo Pin M 6 2.7 - 20 2.5 6.0 19 0.9 1.3 2.0 2.5 32200.W0610 Normal S/s, Thermo Pin M 10 4.0 - 22 3.0 10.0 3.9 1.4 1.5 2.5 5.10 32200.W0610 Normal S/s, Thermo Pin M 10 4.0 - 22 3.0 10.0 3.9 1.4 1.5 3.0 8.50 32200.W0610 Normal S/s, Thermo Pin M 10 4.0 - 22 3.0 10.0 3.9 1.4 1.5 3.0 8.50 32200.W0706 Normal S/s, Thermo Pin M 10 4.0 - 22 3.0 10.0 3.9 1.4 1.5 3.0 3.5 3.200 3.200.W0706 Normal S/s, Thermo Pin M 10 4.0 - 22 3.0 10.0 3.9 1.4 1.5 3.0 3.5 3.200 3.200.W0706 Normal S/s, Thermo Pin M 10 4.0 - 22 3.0 5.0 5.0 0.9 1.3 2.0 2.5 6.6 3.2200.W0710 Normal S/s, Thermo Pin M 10 4.0 - 22 3.0 2.0 5.0 0.9 1.3 2.0 2.5 6.6 3.2200.W0710 Normal S/s, Thermo Pin M 10 4.0 - 22 3.0 2.0 5.0 7.0 1.4															
32200.W0506 Increased Stainless M 6 2.4 - 18 2.3 15.0 44 0.8 1.2 1.5 2.2 3200.W0506 Increased Stainless M 6 2.7 - 20 2.5 20.0 50 0.9 1.3 2.0 4.1 32200.W0508 Increased Stainless M 8 3.5 - 22 3.0 26.0 70 1.4 1.5 2.5 7.4 32200.W0510 Increased Stainless M 10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 12.4 32200.W0510 Increased Stainless M 10 4.0 - 28 4.0 51.0 122 2.0 2.7 4.0 22.2 32200.W0516 Increased Stainless M 10 4.0 - 28 4.0 51.0 122 2.0 2.7 4.0 22.2 32200.W0521 Increased Stainless M 10 7.5 - 32 5.0 72.0 164 2.5 3.2 5.0 46.1 32200.W0520 Increased Stainless M 20 10.0 - 40 7.0 93.0 211 3.0 3.7 7.0 86.5 32200.W0520 Increased Stainless M 20 10.0 - 40 7.0 93.0 211 3.0 3.7 7.0 86.5 32200.W0524 Increased Stainless M 20 10.0 - 40 7.0 93.0 211 3.0 3.7 10.0 167.0 32200.W0606 Normal S/S, Thermo Pin M 1.5 - 15 1.5 1.5 4.5 16 0.6 0.6 1.3 0.93 32200.W0606 Normal S/S, Thermo Pin M 5 2.4 - 18 2.3 6.0 19 0.8 1.2 1.5 1.60 32200.W0606 Normal S/S, Thermo Pin M 5 2.4 - 18 2.3 6.0 19 0.9 1.3 2.0 2.50 32200.W0608 Normal S/S, Thermo Pin M 8 3.5 - 22 3.0 10.0 39 1.4 1.5 2.5 5.10 32200.W0610 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 10.0 39 1.4 1.5 2.5 5.10 32200.W0610 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 10.0 39 1.4 1.5 3.0 8.50 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 10.0 39 1.4 1.5 3.0 8.50 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 28 4.0 12.0 53 2.0 2.7 4.0 14.00 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 10.0 39 1.4 1.5 3.0 8.50 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 10.0 39 1.4 1.5 3.0 8.50 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 10.0 39 1.4 1.5 3.0 8.50 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 10.0 39 1.4 1.5 3.0 3.0 8.50 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 5.0 45.0 10.0 2.5 3.2 5.0 32.0 3.6 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 5.0 45.0 10.0 2.5 3.2 5.0 32.0 3.6 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 5.0 45.0 10.0 2.5 3.2 5.0 32.0 3.6 32200.W0706 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5							-								
32200,W0506 Increased Stainless M 6 2.7															
32200,W0508 Increased Stainless M.8 3.5 - 22 3.0 26.0 70 1.4 1.5 2.5 7.4															
32200,W0510 Increased Stainless M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 12.4 32200,W0516 Increased Stainless M12 6.0 - 28 4.0 51.0 122 2.0 2.7 4.0 22.2 32200,W0520 Increased Stainless M16 7.5 - 32 5.0 72.0 164 2.5 3.2 5.0 46.1 32200,W0524 Increased Stainless M20 10.0 - 40 7.0 93.0 211 3.0 3.7 7.0 86.5 32200,W0524 Increased Stainless M24 12.0 - 52 10.0 86.0 247 3.0 3.7 10.0 167.0 32200,W0604 Normal S/S, Thermo Pin M 4 1.5 - 1.5 1.5 4.5 16 0.6 0.6 0.6 1.3 0.93 32200,W0606 Normal S/S, Thermo Pin M 5 2.4 - 18 2.3 6.0 19 0.8 1.2 1.5 1.60 32200,W0606 Normal S/S, Thermo Pin M 8 3.5 - 22 3.0 10.0 39 1.4 1.5 2.5 5.10 32200,W0606 Normal S/S, Thermo Pin M 8 3.5 - 22 3.0 10.0 39 1.4 1.5 3.0 8.50 32200,W0610 Normal S/S, Thermo Pin M 8 3.5 - 22 3.0 10.0 39 1.4 1.5 3.0 8.50 32200,W0616 Normal S/S, Thermo Pin M 10 4.0 - 22 3.0 10.0 39 1.4 1.5 3.0 8.50 32200,W0616 Normal S/S, Thermo Pin M 16 7.5 - 32 5.0 45.0 100 2.5 3.2 5.0 32.00 32200,W0706 Normal S/S, Thermo Pin M 6 2.7 - 20 2.5 2.0 4.0 0.0 2.5 3.2 5.0 32.00 32200,W0706 Normal S/S, Thermo Pin M 6 2.7 - 20 2.5 2.0 5.0 0.9 1.3 2.0 3.6 32200,W0706 Normal S/S, Thermo Pin M 6 2.7 - 20 2.5 2.0 5.0 0.9 1.3 2.0 3.6 32200,W0706 Normal S/S, Thermo Pin M 6 2.7 - 20 2.5 2.0 5.0 5.0 0.9 1.3 2.0 3.6 32200,W0706 Normal S/S, Thermo Pin M 6 2.7 - 20 2.5 2.0 5.0 0.9 1.3 2.0 3.6 32200,W0716 Normal S/S, Thermo Pin M 6 2.7 - 20 2.5 2.0 2.5 2.0 2.5 2.0 2.5 2.0 2.5 2.0 2.5 2.0 2.5 2.0 2.5 2.5 2.0 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2 3.0 3.2															
32200.W0516 Increased Stainless M12 6.0 - 28 4.0 51.0 122 2.0 2.7 4.0 22.2															
32200.W0516 Increased Stainless M16 7.5 32 5.0 72.0 164 2.5 3.2 5.0 46.1															
32200.W0524 Increased Stainless M20 10.0 - 40 7.0 93.0 211 3.0 3.7 7.0 86.5															
32200.W0524 Increased Stainless M24 12.0 - 52 10.0 86.0 247 3.0 3.7 10.0 167.0 32200.W0604 Normal S/S, Thermo Pin M4 1.5 - 15 1.5 4.5 16 0.6 0.6 0.6 1.3 0.93 32200.W0606 Normal S/S, Thermo Pin M5 2.4 - 18 2.3 3.0 0.9 0.8 1.2 1.5 1.60 32200.W0606 Normal S/S, Thermo Pin M6 2.7 - 20 2.5 6.0 19 0.9 1.3 2.0 2.50 32200.W0608 Normal S/S, Thermo Pin M8 3.5 - 22 3.0 10.0 3.9 1.4 1.5 2.5 5.10 32200.W0610 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 10.0 3.9 1.4 1.5 3.0 8.50 32200.W0612 Normal S/S, Thermo Pin M12 6.0 - 28 4.0 12.0 5.3 2.0 2.7 4.0 14.00 32200.W0616 Normal S/S, Thermo Pin M16 7.5 - 32 5.0 4.50 100 2.5 3.2 5.0 32.00 32200.W0705 Normal S/S, Thermo Pin M5 2.4 - 18 2.3 15.0 44 0.8 1.2 1.5 1.9 32200.W0706 Normal S/S, Thermo Pin M6 2.7 - 20 2.5 20.0 50 0.9 1.3 2.0 3.6 32200.W0708 Normal S/S, Thermo Pin M8 3.5 - 22 3.0 26.0 70 1.4 1.5 2.5 6.6 32200.W0710 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 26.0 70 1.4 1.5 2.5 6.6 32200.W0710 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 11.4 32200.W0710 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 11.4 32200.W0710 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 11.4 32200.W0710 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 11.4 32200.W0710 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 11.4 32200.W0710 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 11.4 32200.W0710 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0															
32200.W0604 Normal S/S, Thermo Pin M 4 1.5 - 15 1.5 4.5 16 0.6 0.6 1.3 0.93															
32200.W0605 Normal S/S, Thermo Pin M 5 2.4 - 18 2.3 6.0 19 0.8 1.2 1.5 1.60															
32200.W0606															
32200.W0608 Normal S/S, Thermo Pin M8 3.5 - 22 3.0 10.0 39 1.4 1.5 2.5 5.10				,											
32200.W0610 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 10.0 39 1.4 1.5 3.0 8.50				,											
32200.W0612 Normal S/S, Thermo Pin M12 6.0 - 28 4.0 12.0 53 2.0 2.7 4.0 14.00				,			-								
32200.W0616 Normal S/S, Thermo Pin M16 7.5 - 32 5.0 45.0 100 2.5 3.2 5.0 32.00							-								
32200.W0705 Normal S/S, Thermo Pin M 5 2.4 - 18 2.3 15.0 44 0.8 1.2 1.5 1.9				,			-	_							
32200.W0708 Normal S/S, Thermo Pin M 8 3.5 - 22 3.0 26.0 70 1.4 1.5 2.5 6.6	32200	.W0705	Normal	S/S, Thermo Pin	M 5	2.4	-	18	2.3	15.0	44	0.8	1.2	1.5	1.9
32200.W0710 Normal S/S, Thermo Pin M10 4.0 - 22 3.0 26.0 70 1.4 1.5 3.0 11.4 32200.W0712 Normal S/S, Thermo Pin M12 6.0 - 28 4.0 51.0 122 2.0 2.7 4.0 20.0 32200.W0803 Head Ø2,5 Screwdriver M 3 - - - - - - - - -	32200	.W0706	Normal	S/S, Thermo Pin	M 6	2.7	-	20	2.5	20.0	50	0.9	1.3	2.0	3.6
32200.W0712 Normal S/S, Thermo Pin M12 6.0 - 28 4.0 51.0 122 2.0 2.7 4.0 20.0 32200.W0716 Normal S/S, Thermo Pin M16 7.5 - 32 5.0 72.0 164 2.5 3.2 5.0 42.7 32200.W0803 Head Ø2,5 Screwdriver M 3 -	32200	.W0708	Normal	S/S, Thermo Pin	M 8	3.5	-	22	3.0	26.0	70	1.4	1.5	2.5	6.6
32200.W0716 Normal S/S, Thermo Pin M16 7.5 - 32 5.0 72.0 164 2.5 3.2 5.0 42.7 32200.W0803 Head Ø2,5 Screwdriver M 3 - <th>32200</th> <th>.W0710</th> <th>Normal</th> <th>S/S, Thermo Pin</th> <th>M10</th> <th>4.0</th> <th>-</th> <th>22</th> <th>3.0</th> <th>26.0</th> <th></th> <th>1.4</th> <th>1.5</th> <th>3.0</th> <th>11.4</th>	32200	.W0710	Normal	S/S, Thermo Pin	M10	4.0	-	22	3.0	26.0		1.4	1.5	3.0	11.4
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Spring Plungers

Spring Plungers with pin end & hex. socket - stainless steel





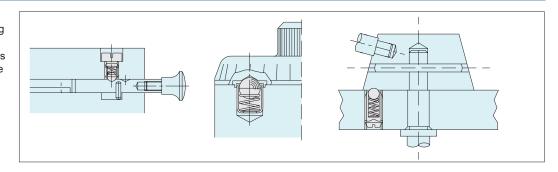


Wixroyd Spring Plungers



Wixroyd Spring Plungers - A Range of Endless Possibilities

Made of high quality steel and stainless steel, Wixroyd's Spring Plunger range is proven to be reliable for millions of repetitions in securing, positioning, positive locking, indexing and quick release. Their application is limited only by the imagination!



Commercial Lighting

Three push-fit spring plungers no. 32000 have been added to the design of this recessed commercial light fitting. The push-fit design of the plunger makes for easy assembly during production. Their use greatly simplifies the mounting and servicing of the units, reducing handling costs and saving valuable operator time.





Medical Applications

Used in conjunction with a simple hinge, Wixroyd spring plunger 32300 provides an easy and secure means to positively position and secure the back panel of a blood gas analysis machine. With both brass and stainless steel varieties, our spring plungers have a wide range of application in the medical, pharmaceutical, food and drink processing industries.





Applications

Uses

- For location, applying pressure and "lifting off".
- · Securing and positioning.
- Positive locking and indexing.
- Quick release.

Industry Sectors

- Machine and fixture design.
- Measuring equipment.
- Electronic components.
- · Lighting equipment.
- Medical, optics and orthopaedics.

Wixroyd Spring Plungers - Uses and Mounting Options

Ball Type



- 31400
- 32280
- 31420 • 32300 31500
- 32302 • 32350
- 32000 32100
- 32102

Mounting Options







Rear hexagon

Push fit

Pin Head Type



- 31000 • 32400 • 32420
- 31600
- 32150
- 32200 32220
- 32282

Mounting Options

Rear slot

Rear slot









Rear hexagon

Push fit

Front slot



Wixroyd Spring Plungers

quality products



Quality products every time

• Every spring plunger that is produced on the Wixroyd assembly line is individually tested. That is how we guarantee the quality of our products.

100% Testing

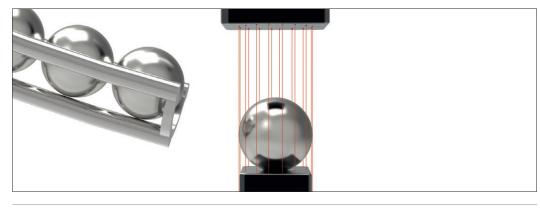
• A Wixroyd spring plunger is tested against four key criteria during manufacture.



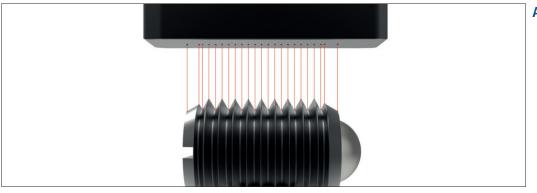
Accuracy of 'S' Stroke/ Spring Range



Accuracy of f₁ and f₂ Spring Forces



Accuracy of Ball Diameter



Accuracy of Thread



ov-W31400-A-T-W32420-A-T-b-rnh - Updated - 27-10-2022

Wixroyd Spring Plungers

metric thread



Thread Details

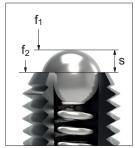
All Wixroyd metric spring plungers have a coarse thread.

ISO	metric	coarse	threads	(mm)
				·····

7 8 12 Thread (D) 3 35 4 45 5 6 10 14 16 18 20 22 24 Pitch 1,25 1,5 0,7 0,75 0,8 1.0 1,0 1,75 2,00 2,0 3,0

Spring Loads

- **s** Stroke, or movement of plunger's ball or pin.
- f₁ The force required in Newtons (N) to over come the static strength of the spring and achieve initial movement of the plunger's ball or pin.
- f₂ The force required in Newtons (N) to fully compress the spring until the ball or pin is fully depressed against the plunger's body.

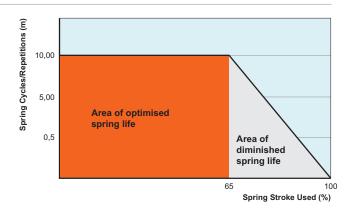




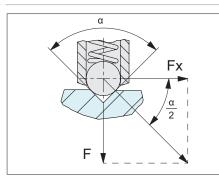
Typical Spring Repetitions

Although dependent upon a number of application specific factors, we are able to give the following guide relating to the maximum number of spring repetitions or cycles of our spring plungers.

- 100% or full stroke "s" used: approx. 300,000 cycles.
- 65% of stroke "s" used: approx 10,000,000 cycles.



Calculating Indexing Resistance



Important Note: This is only an approximation formula. For more accurate calculation the roughness of the counterpart surface as well as any variation in the plungers spring force (due to age or high repetitions) should be considered.

We are able to provide the following formula as an approximation of the pull or push force (N) required to 'release' a ball plunger from its indexing counterpart.

$$Fx = \frac{F}{\tan \frac{\alpha}{2}}$$

Fx = pull or push force (N)

F = plungers spring force (see relevant product table)

α = angle of the indexing counter part face

For example:

For Spring plunger 31500.W0010;

F = 24N (see product table)

If
$$\alpha = 90^{\circ}$$

$$Fx = \frac{24}{\tan \frac{90}{2}} = 24$$

 $tan \frac{60}{2}$

$$Fx = 24$$
 = 13,8N $\frac{120}{2}$

Electrical Conductivity

We are often asked the electrical conductivity of our spring plungers, unfortunately we are unable to provide any reliable information related to this as there are many factors in an application. We recommend you study the specific material properties of the spring plunger's component parts to make your own calculations, alternatively if in doubt make a test application.

Manufacturing exactly to your specific requirements is also our strength. If you need a variation in spring pressure, plunger body or pin design we can assist with a special design item for volumes as low as 1,000 units.

For further information, or to request a quotation, please call our sales office on 0333 207 4497.

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