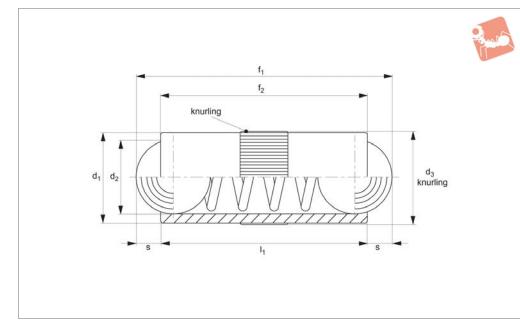


Spring Plungers double ended







Material

Body: brass. Ball: stainless steel, hardened. Spring: stainless steel.

Technical Notes

Double ended spring plungers are used for axial locations and securing of bolts, as

well as a means of electrical contact (see diagram). Spring loads * = statistical average value.

For calculation of indexing resistance please refer to spring plunger technical pages.

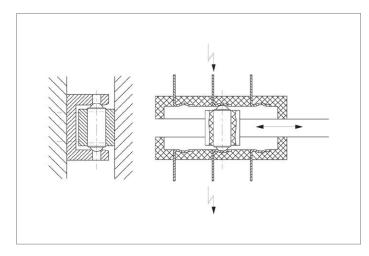
Temperature resistance up to 250°C

32350

Tips

Suggested hole tolerance for these spring plungers is H8. Special types available on request.

Order No.	d ₁ tol. h10	d ₂	d ₃ +0.05	I ₁	S	Spring load F_1 N	Spring load F ₂ N ≈	Weight g
32350.W0025	2.5	2.0	2.52	5.3	0.65	1.3	2.5	0.22
32350.W0030	3.0	2.5	3.02	7.3	0.80	2.0	4.5	0.34
32350.W0040	4.0	3.0	4.03	9.0	0.90	2.5	7.5	0.65
32350.W0050	5.0	4.0	5.03	10.8	1.20	3.5	8.0	1.27
32350.W0060	6.0	5.0	6.03	12.6	1.60	3.5	10.5	1.99
32350.W0070	7.0	6.0	7.03	14.0	2.00	4.0	12.0	3.00
32350.W0080	8.0	6.5	8.03	18.0	2.10	6.0	15.0	5.10

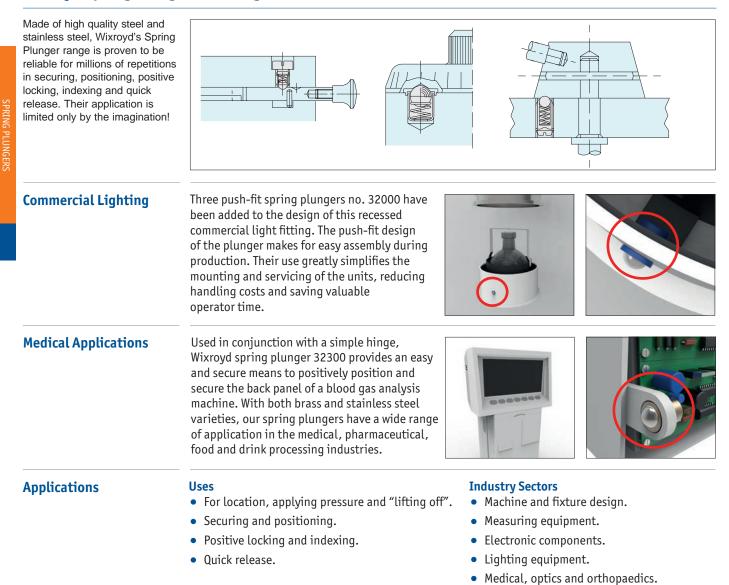




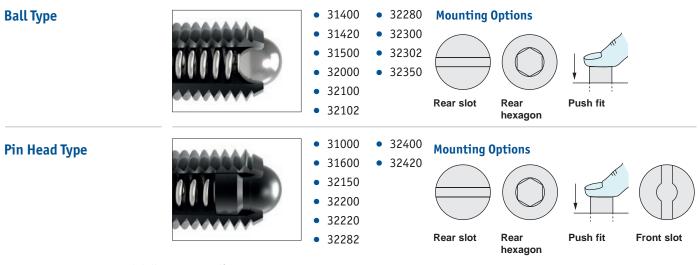




Wixroyd Spring Plungers - A Range of Endless Possibilities



Wixroyd Spring Plungers - Uses and Mounting Options









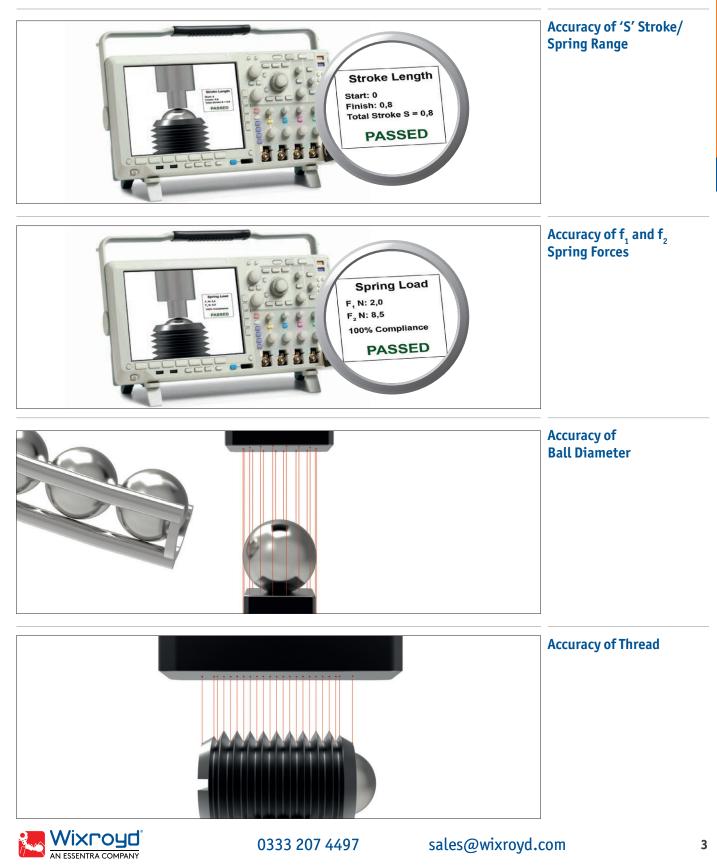
Wixroyd Spring Plungers

quality products



Quality products every time

- Every spring plunger that is produced on the Wixroyd assembly line is individually tested. That is **100% Testing** how we guarantee the quality of our products.
- A Wixroyd spring plunger is tested against four key criteria during manufacture.





Wixroyd Spring Plungers

metric thread



Thread Details	ISO metric coarse threads (mm)								
All Wixroyd metric spring	Thread (D) 3 3,5 4 4,5 5 6 7 8 10 12 14 16 18 20 22 24								
plungers have a coarse thread.	Pitch 0,5 0,6 0,7 0,75 0,8 1,0 1,0 1,25 1,5 1,75 2,00 2,0 2,5 2,5 3,0								
Spring Loads	 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. • 65% of stroke "s" used: approx 10,000,000 cycles.								
Calculating Indexing Resistance	$\begin{array}{c} \alpha\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $								
	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.If $\alpha = 90^{\circ}$ If $\alpha = 60^{\circ}$ If $\alpha = 90^{\circ}$ $Fx = \frac{24}{\tan \frac{90}{2}} = 24N$ $Fx = \frac{24}{\tan \frac{60}{2}} = 41,5N$ If $\alpha = 120^{\circ}$ $Fx = \frac{24}{\tan \frac{120}{2}} = 13,8N$								
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.								
Specials to Your Own Design	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.

