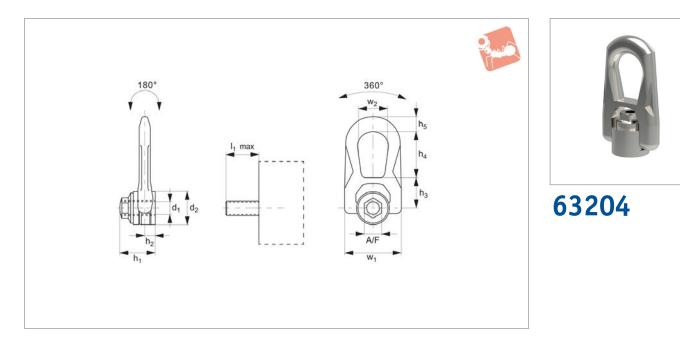


Stainless Double Swivel Nuts

Lifting Points & Shackles



High tensile stainless steel (316L), strength class >8. Supplied with CE certificate.

Technical Notes

Double articulation, very low overhang for improved safety, large support surface. For use in temperatures from -20°C to +200°C. Can be used in lower or higher temperatures,

but this affects the load rating - please ask for more information.

Longer or shorter thread lengths can be

supplied but please consult our technical department for this information if required.

Please refer to our technical information pages when specifying and/or using.

Tips

Double articulation allows perfect alignment with the sling. With "automatic" position recovery system for best orientation to sling direction. Tighten by hex. key or spanner.

Important Notes

The thread diameter and depth must be appropriate to the material into which it will be installed: Steel (min. ST37) - 1 x thread dia. Cast iron - 1.25 x thread dia. Aluminium - 2 x thread dia. Other light metals - 2.5 x thread dia. Tolerance of male thread to be 6G (metric) or UNC-2B (inch). Please refer to the safety documentation before using this part. Supplied with certificate and operating

Order No.	Load tonnes (t) max.	d ₁ tol. 6g (tol. 2A)	h ₁ & I _{max.}	w_1	h ₂	h ₃	h ₄	h ₅	d ₂	w ₂	A/F	Safety factor	Torque to Nm	Weight kg
63204.W0008	0.3	M 8x 1,25	43	76	13	40	53	17	45	38	20	4	6	0.9
63204.W0010	0.5	M10x1,50	43	76	13	40	53	17	45	38	20	4	10	0.9
63204.W0012	0.8	M12x1,75	43	76	13	40	53	17	45	38	20	4	15	0.9
63204.W0014	1.0	M14x2,00	43	76	13	40	53	17	45	38	20	4	30	0.9
63204.W0016	1.5	M16x2,00	43	76	13	40	53	17	45	38	20	4	50	0.9
63204.W0018	1.5	M18x2,50	62	115	19	55	83	25	58	56	24	4	70	2.6
63204.W0020	1.6	M20x2,50	62	115	19	55	83	25	58	56	24	4	100	2.6
63204.W0022	2.2	M22x2,50	62	115	19	55	83	25	58	56	24	4	120	2.6



Lifting Bolts

Introduction

Swivel Lifting Rings and Lifting Bolts





Threads M8 – M48 Loads 0.3 tons to 15 tons



Double swivel

Threads M4 – M100 Loads 0,05 tons to 50 tons



These are CE marked and are available with male or female threads in either steel or stainless steel (A4 AISI 316). They are meant only for linear loading of the bolts at a maximum angle of 45° from the thread. They are not meant for loads that might swivel.

These are supplied with a generic CE Certificate of Conformity stating that the parts have been manufactured to the relevant DIN standard and therefore suitable for lifting.

High-tensile lifting bolts (P4054-P4055)

The High-tensile lifting bolts are similar to the standard lifting bolts but are rated at higher loads and can lift loads at up to 90° from the thread. They are not meant for loads that might swivel.

Swivel lifting rings operating instructions. Please follow these instructions carefully.

- Ensure all lifting bolts are CE marked. •
- Ensure they are handled by gualified personnel.
- Refer to the operating instructions particularly with regards to product selection,
- any possibility of the load swivelling, the effect of lifting angles on the load capacity (see relevant tables), etc.
- Never allow any personnel underneath a suspended load.
- Always heed the load rating of the lifting bolt.
- Always perform a visual inspection of the lifting rings prior • to use. Checking for any damage to thread and/or swivelling system. Check for wear or corrosion, signs of stress or bending. Check CE mark and load rating.
- Ensure a yearly full service inspection is performed.
- Always ensure the full bottom face of the lifting bolts is in • contact with a smooth, square surface.
- Ensure bolt is tightened to the correct torque. •
- Ensure full and unrestricted movement of the lifting ring in all • directions.
- Before each lift ensure the correct orientation of the shackle in the lift direction.
- Avoid using our standard steel lifting rings in corrosive environments eg sandy, chemical, acid, moisture etc. In this case consider using our stainless steel lifting rings.





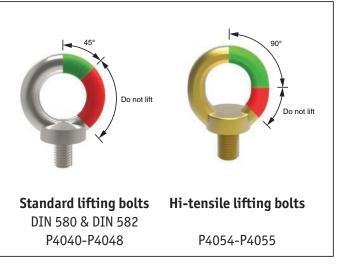
Triple swivel

Threads M8 – M56 Loads 0.3 tons to 22 tons

Introduction to swivel lifting rings and Lifting Bolts (P4002-P4055)

Our swivel lifting rings fully comply with the EC directive 2006/42/EC. They are CE marked and are supplied with a Certificate of Conformity. There is a 100% check on anti-cracking, a proof load test of 2.5 x load limit and a safety factor of 5 on most parts. Each ring is individually marked to ensure full product traceability.

The Swivel Lifting Rings come in three main forms – depending on the number of axis required to swivel. The most popular type is the double swivel rings.



- Note the thread length requirements:
 - 1 x thread diameter for steel (ST37 min.).
 - 1.25 x thread diameter for cast iron.
 - 2 x thread diameter for aluminium.
 - 2.5 x thread diameter for other light metals.

- If fixing into low resistance material it is better to allow for a bigger

diameter thread to compensate for the lower material resistance.

Note: The full thread must be engaged. Longer thread lengths can be supplied on request or a bolt and washer/nut combination can be used.





Product Overview

Threads M8 - M30

Loads 0,3 tons to 3

P4020

tons.

Swivel Lifting Rings

Lifting Bolts

P4022

Threads M30 - M45

Loads 3,5 tons to 6 tons.

Temperature extremes

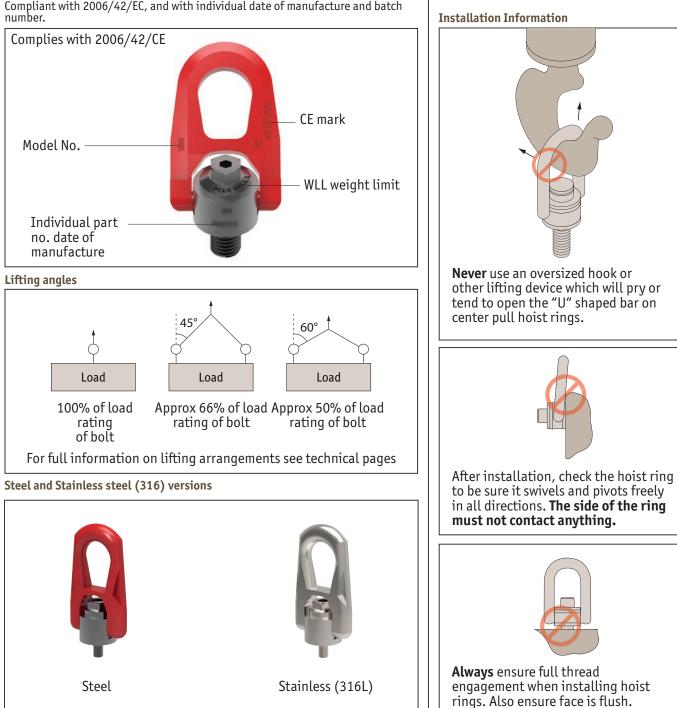
-40°C to -20°C Load rating reduces by 20%. +200°C to +300°C Load rating reduces by 10%. +300°C to +400°C Load rating reduces by 25%.

Rugged

For harsh environments we recommend the use of our stainless steel lifting rings.

Product marking

Compliant with 2006/42/EC, and with individual date of manufacture and batch number.



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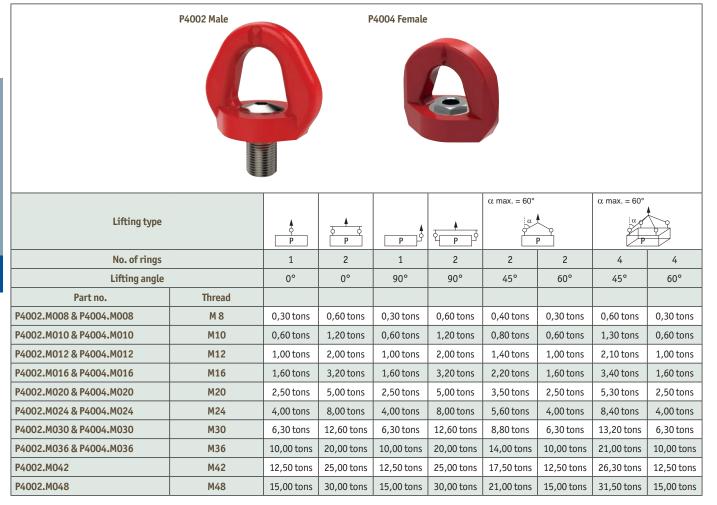
sales@wixroyd.com

Lifting Bolts

Technical Information

Single Swivel Lifting Rings







wixroyd.com



Technical Information

Double Swivel Lifting Rings

Lifting Bolts

Itifting type Image: Second Seco	P4005 Male P4006 Female											
Image of the period												
No. of rings 1 2 1 2 1 2 2 4 4 Lifting angle 0° 0° 90° 90° 45° 60° 45° 60° Patt no. Thread 0° 0° 90° 0.50 tons 0.010 tons 0.050 tons 0.010 tons 0.050 tons 0.010 tons 0.000 tons 0.000 tons 0.010 tons	Lifting type	¢.	¢ P	A		α max. = 60°	t _o	α max. = 60°		LIFTING		
Lifting angle 0° 0° 90° 90° 45° 60° 45° 60° Part no. Thread 0.00 tons 0.100 tons 0.00 tons 0.00 tons 0.000 tons		P		РУ	ЧРУ	P						
Part no. Thread Image Image <thimage< th=""> Image Image</thimage<>				1	2	2	2	4	4			
P4005.M004M 40,050 tors0,100 tors0,070 tors0,070 tors0,050 tors0,100 tors0,050 tors0,050 torsP4005.M005M 60,100 tors0,200 tors0,100 tors0,100 tors0,100 tors0,100 tors0,100 tors0,075 tors0,150 tors0,100 tors0,075 tors0,100 tors0,075 tors0,100 tors0,075 tors0,100 tors0,000 tors0,100 tors0,000 tors0,100 tors0,100 tors0,200 tors0,100 tors0,100 tors0,200 tors0,	Lifting angle		0°	0°	90°	90°	45°	60°	45°	60°		
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P4005.M008 & P4006.M008M 80,30 tons0,60 tons1,20 tons0,60 tons1,20 tons0,40 tons0,30 tons0,60 tons1,30 tons0,60 tons1,20 tons0,80 tons0,60 tons1,30 tons0,60 tons1,30 tons2,10 tons1,00 tons2,10 tons1,30 tons2,10 tons1,30 tons2,70 tons1,30 tons1,30 tons1,30 tons2,70 tons1,30 tons1,30 tons1,40 tons3,20 tons1,30 tons2,70 tons1,30 tons1,30 tons1,40 tons2,70 tons1,30 tons1,30 tons1,40 tons3,40 tons1,40 tons3,40 tons1,40 tons3,40 tons1,40 t			0,075 tons	0,150 tons				0,075 tons	0,150 tons		4	
P4005.M010 & P4006.M010M100.60 tons1.20 tons0.60 tons1.20 tons1.20 tons1.00 tons2.00 tons1.20 t		M 6	0,100 tons	0,200 tons	0,100 tons	0,200 tons	0,140 tons	0,100 tons	0,200 tons	0,100 tons	-	
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P4005.M016 & P4006.M016 M16 1,60 tons 3,20 tons 1,60 tons 3,20 tons 2,20 tons 1,60 tons 3,40 tons 1,60 tons P4005.M018 & P4006.M018 M18 2,00 tons 4,00 tons 2,00 tons 4,00 tons 2,80 tons 2,80 tons 2,00 tons 4,20 tons 2,00 tons P4005.M020 & M20 M20 2,50 tons 5,00 tons 3,00 tons 6,00 tons 3,00 tons 6,00 tons 4,20 tons 3,00 tons 6,00 tons 4,00 tons 4,00 tons 4,00 tons 4,00 tons 4,00 tons 8,00 tons 5,00 tons 5,00 tons 4,00 tons 8,00 tons 5,00 tons 5,00 tons 4,00 tons 8,00 tons 5,00 tons 1,60 tons 4,00 tons 8,00 tons 5,00 tons 1,00 tons 5,00 tons <	P4005.M012 & P4006.M012	M12	1,00 tons	2,00 tons	1,00 tons	2,00 tons	1,40 tons	1,00 tons	2,10 tons	1,00 tons		
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P4005.M020 & P4006.M020 M20 2,50 tons 5,00 tons 2,50 tons 5,00 tons 3,50 tons 2,50 tons 5,30 tons 2,50 tons P4005.M022 & P4006.M022 M22 3,00 tons 6,00 tons 3,00 tons 6,30 tons 4,20 tons 8,40 tons 8,40 tons 4,00 tons 8,00 tons 5,00 tons 5,00 tons 4,00 tons 8,40 tons 8,40 tons 4,00 tons 8,00 tons 5,00 tons 1,00 tons 5,00 tons 10,00 tons 5,00 tons 10,00 tons 5,00 tons 10,00 tons 5,00 tons 10,50 tons 5,00 tons 1,200 tbs 1,200 tbs 1	P4005.M016 & P4006.M016	M16	1,60 tons	3,20 tons	1,60 tons	3,20 tons	2,20 tons	1,60 tons	3,40 tons	1,60 tons		
P4005.M022 & P4006.M022 M22 3,00 tons 6,00 tons 3,00 tons 6,00 tons 4,20 tons 3,00 tons 6,30 tons 3,00 tons P4005.M024 M24 4,00 tons 8,00 tons 4,00 tons 8,00 tons 5,60 tons 4,00 tons 8,40 tons 4,00 tons P4005.M027 M27 5,00 tons 10,00 tons 5,00 tons 10,00 tons 5,00 tons 10,50 tons 6,30 tons 6,30 tons 6,30 tons 12,600 tons 6,30 tons 13,20 tons 6,30 tons P4005.I031 & P4006.I031 (UNC 5/16"-18) 650 lbs 1,300 lbs 650 lbs 1,300 lbs 910 lbs 650 lbs 1,200 lbs 2,400 lbs 1,680 lbs 1,200 lbs 2,520 lbs 1,200 lbs P4005.I037 & P4006.I037 (UNC 3/8"-16) 1,200 lbs 2,400 lbs 2,200 lbs 4,400 lbs 3,080 lbs 2,200 lbs 4,620 lbs 2,200 lbs P4005.I050 & P4006.I053 <td>P4005.M018 & P4006.M018</td> <td>M18</td> <td>2,00 tons</td> <td>4,00 tons</td> <td>2,00 tons</td> <td>4,00 tons</td> <td>2,80 tons</td> <td>2,00 tons</td> <td>4,20 tons</td> <td>2,00 tons</td> <td></td>	P4005.M018 & P4006.M018	M18	2,00 tons	4,00 tons	2,00 tons	4,00 tons	2,80 tons	2,00 tons	4,20 tons	2,00 tons		
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P4005.M027 M27 5,00 tons 10,00 tons 5,00 tons 10,00 tons 7,00 tons 5,00 tons 10,50 tons 5,00 tons P4005.M030 M30 6,30 tons 12,60 tons 6,30 tons 12,600 tons 8,8 tons 6,30 tons 13,20 tons 6,30 tons P4005.I031 & P4006.I031 (UNC 5/16"-18) 650 lbs 1,300 lbs 650 lbs 1,300 lbs 910 lbs 650 lbs 1,365 lbs 650 lbs P4005.I037 & P4006.I037 (UNC 1/2"13) 2,200 lbs 2,400 lbs 1,200 lbs 2,400 lbs 1,200 lbs 2,400 lbs 3,080 lbs 2,200 lbs 4,620 lbs 2,200 lbs P4005.I053 & P4006.I050 (UNC 1/2"13) 2,200 lbs 4,400 lbs 2,200 lbs 4,400 lbs 3,080 lbs 2,200 lbs 4,620 lbs 2,200 lbs P4005.I053 & P4006.I063 (UNC 3/4"-10) 5,500 lbs 11,000 lbs 5,500 lbs 11,000 lbs 7,000 lbs 3,800 lbs 7,980 lbs 3,800 lbs P4005.I075 & P4006.I075 (UNC 7/8"-9) 6,600 lbs 13,200 lbs 13,200 lbs 1,300 lbs	P4005.M022 & P4006.M022	M22	3,00 tons	6,00 tons	3,00 tons	6,00 tons	4,20 tons	3,00 tons	6,30 tons	3,00 tons		
P4005.M030 M30 6,30 tons 12,60 tons 6,30 tons 12,600 tons 8,8 tons 6,30 tons 13,20 tons 6,30 tons P4005.M030 M30 6,30 tons 12,60 tons 6,30 tons 12,600 tons 8,8 tons 6,30 tons 13,20 tons 6,30 tons P4005.M031 (UNC 5/16"-18) 650 lbs 1,300 lbs 650 lbs 1,300 lbs 910 lbs 650 lbs 1,365 lbs 650 lbs P4005.I037 & P4006.I037 (UNC 3/8"-16) 1,200 lbs 2,400 lbs 1,200 lbs 2,400 lbs 1,680 lbs 1,200 lbs 2,520 lbs 1,200 lbs P4005.I050 & P4006.I050 (UNC 1/2"13) 2,200 lbs 4,400 lbs 3,080 lbs 2,200 lbs 4,620 lbs 2,200 lbs P4005.I063 & P4006.I063 (UNC 5/8"-11) 3,800 lbs 7,600 lbs 3,800 lbs 7,600 lbs 5,320 lbs 3,800 lbs 7,980 lbs 3,800 lbs P4005.I075 & P4006.I075 (UNC 7/8"-9) 6,600 lbs 13,200 lbs 13,200 lbs 13,200 lbs 13,200 lbs 5,500 lbs 11,550 lbs 5,500 lbs	P4005.M024	M24	4,00 tons	8,00 tons	4,00 tons	8,00 tons	5,60 tons	4,00 tons	8,40 tons	4,00 tons		
P4005.I031 & P4006.I031 (UNC 5/16"-18) 650 lbs 1,300 lbs 650 lbs 1,300 lbs 910 lbs 650 lbs 1,365 lbs 650 lbs P4005.I037 & P4006.I037 (UNC 3/8"-16) 1,200 lbs 2,400 lbs 1,200 lbs 2,400 lbs 1,680 lbs 1,200 lbs 2,520 lbs 1,200 lbs P4005.I050 & P4006.I050 (UNC 1/2"13) 2,200 lbs 4,400 lbs 2,200 lbs 4,400 lbs 3,080 lbs 2,200 lbs 4,620 lbs 2,200 lbs P4005.I063 & P4006.I063 (UNC 5/8"-11) 3,800 lbs 7,600 lbs 3,800 lbs 7,600 lbs 5,320 lbs 3,800 lbs 7,980 lbs 3,800 lbs P4005.I075 & P4006.I075 (UNC 3/4"-10) 5,500 lbs 11,000 lbs 5,500 lbs 11,000 lbs 5,500 lbs 11,550 lbs 5,500 lbs P4005.I088 & P4006.I088 (UNC 7/8"-9) 6,600 lbs 13,200 lbs 13,200 lbs 9,240 lbs 6,600 lbs 13,860 lbs 6,600 lbs	P4005.M027	M27	5,00 tons	10,00 tons	5,00 tons	10,00 tons	7,00 tons	5,00 tons	10,50 tons	5,00 tons		
P4005.I037 & P4006.I037 (UNC 3/8"-16) 1,200 lbs 2,400 lbs 1,200 lbs 2,400 lbs 1,680 lbs 1,200 lbs 2,520 lbs 1,200 lbs P4005.I050 & P4006.I050 (UNC 1/2"13) 2,200 lbs 4,400 lbs 2,200 lbs 4,400 lbs 3,080 lbs 2,200 lbs 4,620 lbs 2,200 lbs P4005.I063 & P4006.I063 (UNC 5/8"-11) 3,800 lbs 7,600 lbs 3,800 lbs 7,600 lbs 5,320 lbs 3,800 lbs 7,980 lbs 3,800 lbs P4005.I075 & P4006.I075 (UNC 3/4"-10) 5,500 lbs 11,000 lbs 5,500 lbs 11,000 lbs 7,700 lbs 5,500 lbs 11,550 lbs 5,500 lbs P4005.I088 & P4006.I088 (UNC 7/8"-9) 6,600 lbs 13,200 lbs 13,200 lbs 9,240 lbs 6,600 lbs 13,860 lbs 6,600 lbs	P4005.M030	M30	6,30 tons	12,60 tons	6,30 tons	12,600 tons	8,8 tons	6,30 tons	13,20 tons	6,30 tons		
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P4005.I050 & P4006.I050 (UNC 1/2"13) 2,200 lbs 4,400 lbs 2,200 lbs 4,400 lbs 3,080 lbs 2,200 lbs 4,620 lbs 2,200 lbs P4005.I063 & P4006.I063 (UNC 5/8"-11) 3,800 lbs 7,600 lbs 3,800 lbs 7,600 lbs 5,320 lbs 3,800 lbs 7,980 lbs 3,800 lbs P4005.I075 & P4006.I075 (UNC 3/4"-10) 5,500 lbs 11,000 lbs 5,500 lbs 11,000 lbs 7,700 lbs 5,500 lbs 11,550 lbs 5,500 lbs P4005.I088 & P4006.I088 (UNC 7/8"-9) 6,600 lbs 13,200 lbs 6,600 lbs 13,200 lbs 9,240 lbs 6,600 lbs 13,860 lbs 6,600 lbs											1	
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P4005.I075 & P4006.I075 (UNC 3/4"-10) 5,500 lbs 11,000 lbs 5,500 lbs 11,000 lbs 7,700 lbs 5,500 lbs 11,550 lbs 5,500 lbs P4005.I088 & P4006.I088 (UNC 7/8"-9) 6,600 lbs 13,200 lbs 6,600 lbs 13,200 lbs 9,240 lbs 6,600 lbs 13,860 lbs 6,600 lbs								-			1	
P4005.I088 & P4006.I088 (UNC 7/8"-9) 6,600 lbs 13,200 lbs 6,600 lbs 13,200 lbs 9,240 lbs 6,600 lbs 13,860 lbs 6,600 lbs												
	P4005.I100	(UNC 1"-8)	10,000 lbs	20,000 lbs	10,000 lbs	20,000 lbs	14,000 lbs	10,000 lbs	21,000 lbs	10,000 lbs		

