

Palletized Fixture Accessories

Thread-In Coupling Specifications

NEW

Thread-In Coupling Elements

Coupling elements are made to give you a leak free connection – whether pressurized or depressurized. Two flow rates are allowed with your choice of two nominal diameter sizes. The compact design allows couplings to be recessed into the fixture plate. Stainless steel construction provides long service life with replaceable face seals.

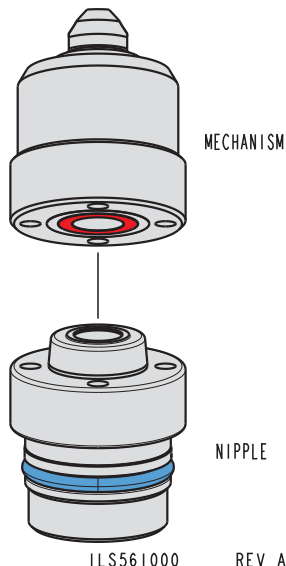
- Axial face seal between coupling mechanism and coupling nipple.
- Both elements must be positioned and guided within specified tolerances before contact with sealing surfaces.
- Coupling force at operating pressure ranges from 0-800 and 0-1800 pounds depending on model.
- Stainless steel construction.
- Replaceable face seal.
- Spanner and replacement seal installation tools available.



Model No.	End Type	Coupling Type	Nom. Ø	Thread	Max. Operating Pressure	Max Flow Rate (cu.in./min.)	Stroke (in)	Min Coupling Force at 0 PSI	Axial Position Tolerance	Radial Position Tolerance	Permit Angle Tolerance
56-1013-00	Mech.	Pressurized	3	M20 x 1.5	5000 psi	490	0.18	21 lbs.	+0.02	± 0.012	± 1
56-1023-00		Depressurized									
56-1015-00	Mech.	Pressurized	5	M24 x 1.5	7250 psi	730	0.18	22 lbs.	+0.02	± 0.012	± 1
56-1025-00		Depressurized									
56-1113-00	Nipple	Pressurized	3	M20 x 1.5	5000 psi	490	0.18	21 lbs.	+0.02	± 0.012	± 1
56-1123-00		Depressurized									
56-1115-00	Nipple	Pressurized	5	M24 x 1.5	7250 psi	730	0.18	22 lbs.	+0.02	± 0.012	± 1
56-1125-00		Depressurized									

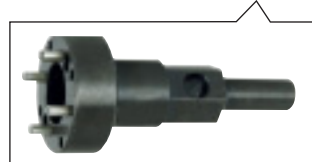
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NOTE: Clean face of coupling elements with compressed air prior to connecting coupling to protect from contamination intrusion. Both elements must be guided about 1/16 to 1/8 inch before contact of sealing surfaces with radial positioning tolerances.

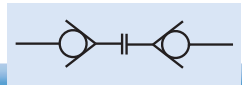


Tools

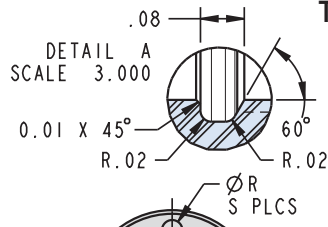
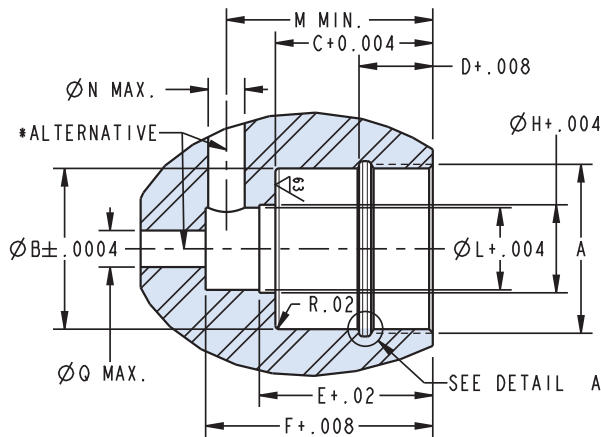
Model No.	Spanner Tool	Seal Tool
56-1013-00	AT-5613-00	AT-5603-00
56-1023-00		
56-1015-00	AT-5615-00	AT-5605-00
56-1025-00		
56-1113-00	AT-5613-00	N/A
56-1123-00		
56-1115-00	AT-5615-00	N/A
56-1125-00		



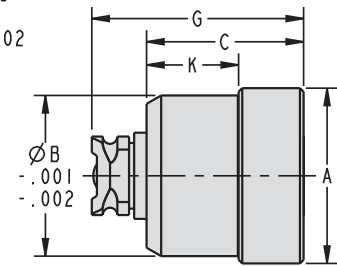
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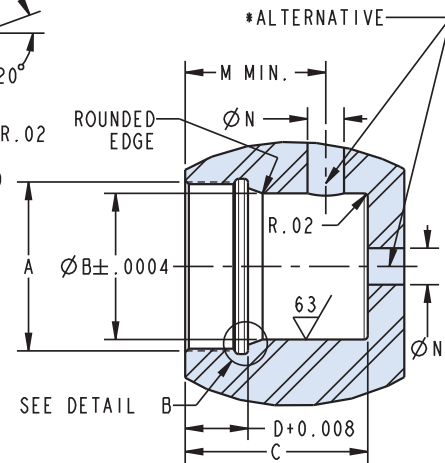
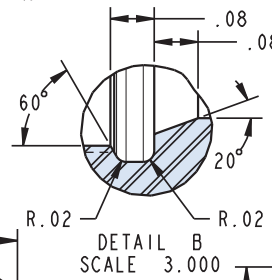
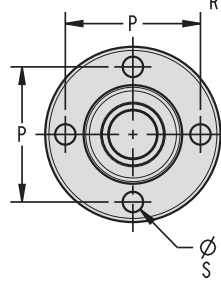
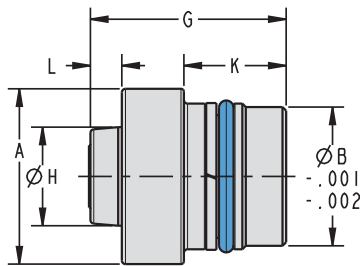
COUPLING MECHANISM



Thread-in Coupling Cavity

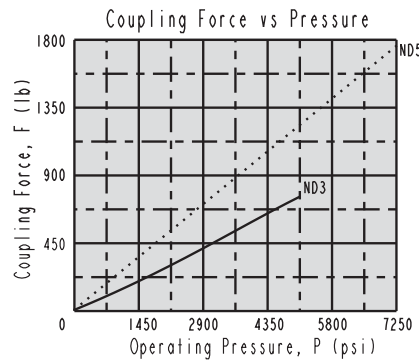
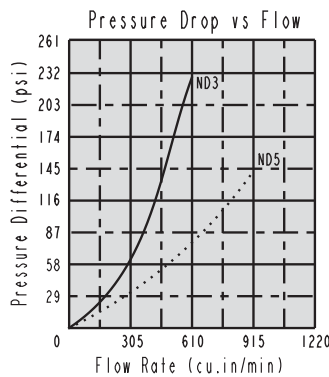


COUPLING NIPPLE



ILS561001 REV A

Model No.	Model No.
56-1013-00	56-1015-00
56-1023-00	56-1025-00
56-1113-00	56-1115-00
56-1123-00	56-1125-00



ILS561002 REV A

***Coupling Force Equations:**
 ND3: $F \text{ (lb)} = .1457 * P \text{ (psi)}$
 ND5: $F \text{ (lb)} = .2387 * P \text{ (psi)}$

- Minimum required coupling force between nipple and mechanism resulting from hydraulic operating pressure.
- Must be externally countered by some mechanical means.

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Thread-in Coupling Cavity

Model No.	End Type	Nom. Ø	Torque (lbs*ft)	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	R	S
56-1013-00	Mech.	3	11	M20 x 1.5	0.7090	0.846	0.394	N/A	1.220	1.142	N/A	0.512	0.441	1.102	0.197	0.610	0.276	0.102	2
56-1023-00																			
56-1015-00	Mech.	5	15	M24 x 1.5	0.8666	0.846	0.394	0.925	1.220	1.142	0.472	0.492	0.441	1.102	0.197	0.728	0.276	0.110	4
56-1025-00																			
56-1113-00	Nipple	3	11	M20 x 1.5	0.6304	0.906	0.331	N/A	N/A	1.020	0.386	0.512	0.177	0.748	0.197	0.610	N/A	0.102	2
56-1123-00																			
56-1115-00	Nipple	5	15	M24 x 1.5	0.7878	0.984	0.335	N/A	N/A	1.063	0.531	0.551	0.177	0.748	0.197	0.728	N/A	0.110	4
56-1125-00																			

* Only one passage is required, choose option best fit for your application.