

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.
- Replaceable face seals.
- Coupling force at operating pressure ranges from 0-3.3 and 0-7.7 kN depending on model.
- Spanner and replacement seal installation tools available.

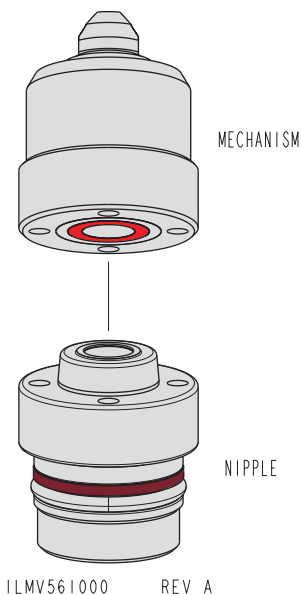


Specifications

Model No.	End Type	Coupling Type	Nom. Dia.	Thread	Max. Operating Pressure	Max Flow Rate (l/min)	Coupling Stroke (mm)	Min. Coupling Force @ 0 Bar	Axial Pos. Tol.	Radial Pos. Tol.	Permit Angle Tol.
45-6101-30	Mech.	Pressurized	3	M20 x 1.5	350 Bar	8	4.5	94 N	+0.5	± 0.3	± 1
45-6102-30		Depressurized									
45-6101-50	Mech.	Pressurized	5	M24 x 1.5	500 Bar	12	4.5	98 N	+0.5	± 0.3	± 1
45-6102-50		Depressurized									
45-6111-30	Nipple	Pressurized	3	M20 x 1.5	350 Bar	8	4.5	94 N	+0.5	± 0.3	± 1
45-6112-30		Depressurized									
45-6111-50	Nipple	Pressurized	5	M24 x 1.5	500 Bar	12	4.5	98 N	+0.5	± 0.3	± 1
45-6112-50		Depressurized									

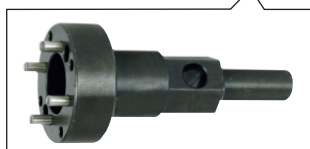
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NOTE: Clean face of coupling elements with compressed air prior to connecting coupling to protect from contamination intrusion. Both elements must be guided about 2-3 mm. before contact of sealing surfaces with radial positioning tolerances.

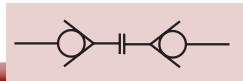


Tools

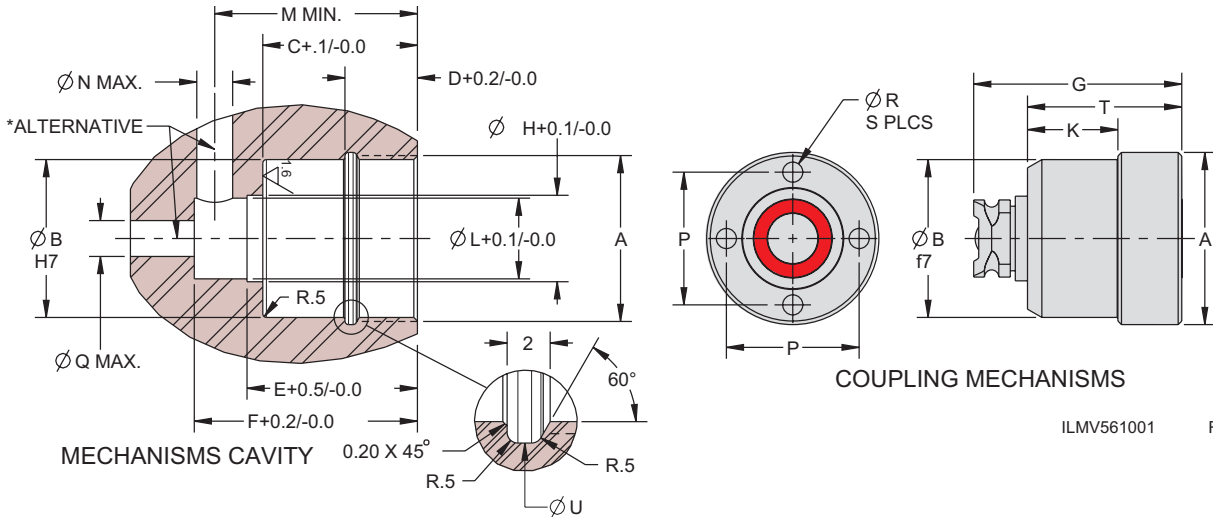
Model No.	Spanner Tool	Seal Tool
45-6101-30	AT-5613-00	AT-5603-00
45-6102-30		AT-5603-00
45-6101-50	AT-5615-00	AT-5605-00
45-6102-50		AT-5605-00
45-6111-30	AT-5613-00	N/A
45-6112-30	AT-5613-00	N/A
45-6111-50	AT-5615-00	N/A
45-6112-50		N/A



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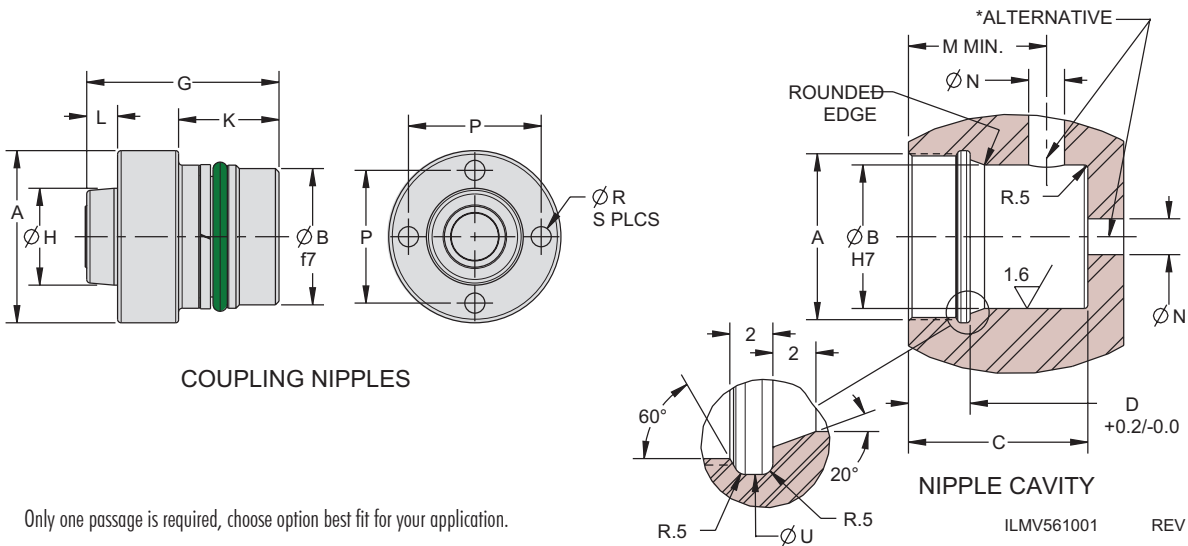
Thread-In Coupling Cavity



ILMV561001 REV C

Thread-In Coupling Cavity

Model No.	End Type	Nom. Dia.	Torque (Nm)	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	R	S	T	U
45-6101-30	Mech.	3	15	M20 x 1.5	18	21.5	10	N/A	31	29	N/A	13	11.2	28	5	15.5	7	2.6	2	21.5	20.5
45-6102-30					22	21.5	10	23.5	31	29	12	12.5	11.2	28	5	18.5	7	2.8	4	21.5	24.5
45-6101-50	Mech.	5	20	M24 x 1.5	22	21.5	10	23.5	31	29	12	12.5	11.2	28	5	18.5	7	2.8	4	21.5	24.5
45-6102-50					22	21.5	10	23.5	31	29	12	12.5	11.2	28	5	18.5	7	2.8	4	21.5	24.5

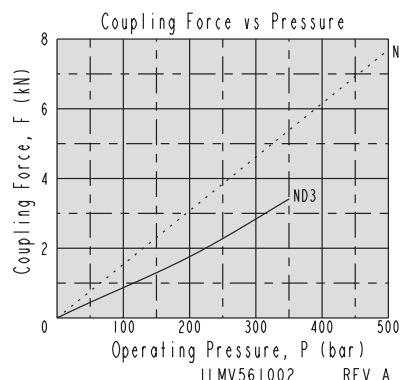
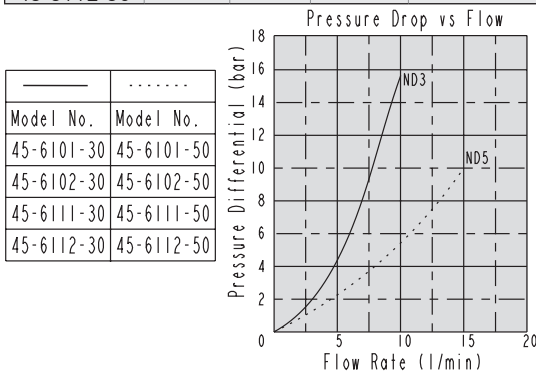


* Only one passage is required, choose option best fit for your application.

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Thread-In Coupling Cavity

Model No.	End Type	Nom. Dia.	Torque (Nm)	A	B	C	D	G	H	K	L	M	N	P	R	S	U
45-6111-30	Nipple	3	15	M20 x 1.5	16	23	8.4	25.9	9.8	13	4.5	19	5	15.5	2.6	2	20.5
45-6112-30					20	25	8.5	27	13.5	14	4.5	19	5	18.5	2.8	4	24.5
45-6111-50	Nipple	5	20	M24 x 1.5	20	25	8.5	27	13.5	14	4.5	19	5	18.5	2.8	4	24.5
45-6112-50					20	25	8.5	27	13.5	14	4.5	19	5	18.5	2.8	4	24.5



***Coupling Force Equations:**
 ND3: $F \text{ (kN)} = .0094 * P \text{ (bar)}$
 ND5: $F \text{ (kN)} = .0154 * P \text{ (bar)}$

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