

# ISO B Interchange Coupling



## Technical Characteristics:

- NPT standard threads
- Anti-extrusion rings are in pure Teflon (PTFE)
- Springs in AISI 302 stainless steel
- On request BSP threads and various seals

## Poppet: Interchange Coupling

Series: IRB | IRBX | IRBO

**Interchange:** ISO B

The series IRB quick couplings, are interchangeable to ISO 7241-1 series B. The series IRB most important characteristics are compactness, and highest quality raw material used in manufacturing.

**Interchange:** Parker 60, Aeroquip FD45, Faster HNV

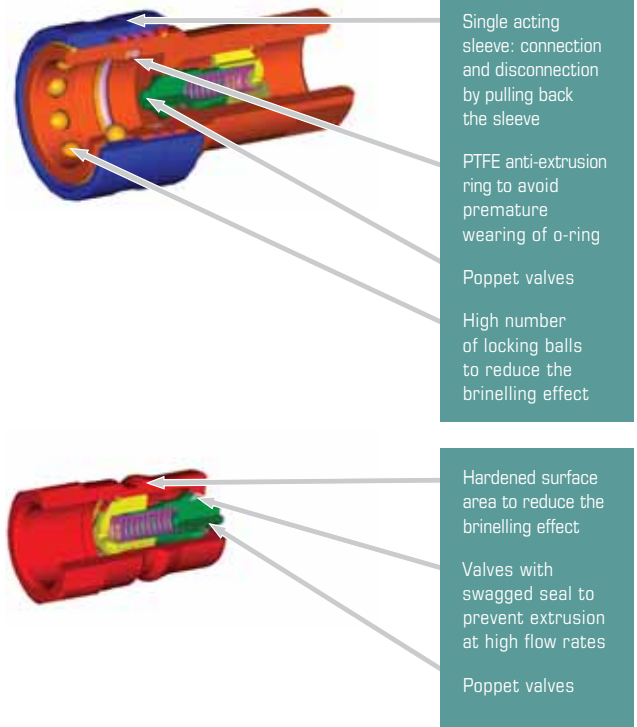
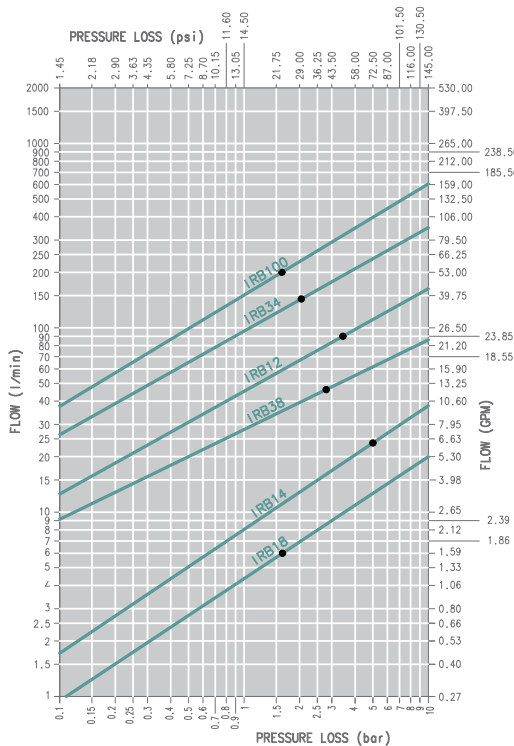
- IRB: carbon steel material with Nitrile seals
- IRBO: brass material with Viton seals
- IRBX: 316 stainless steel with Viton seals



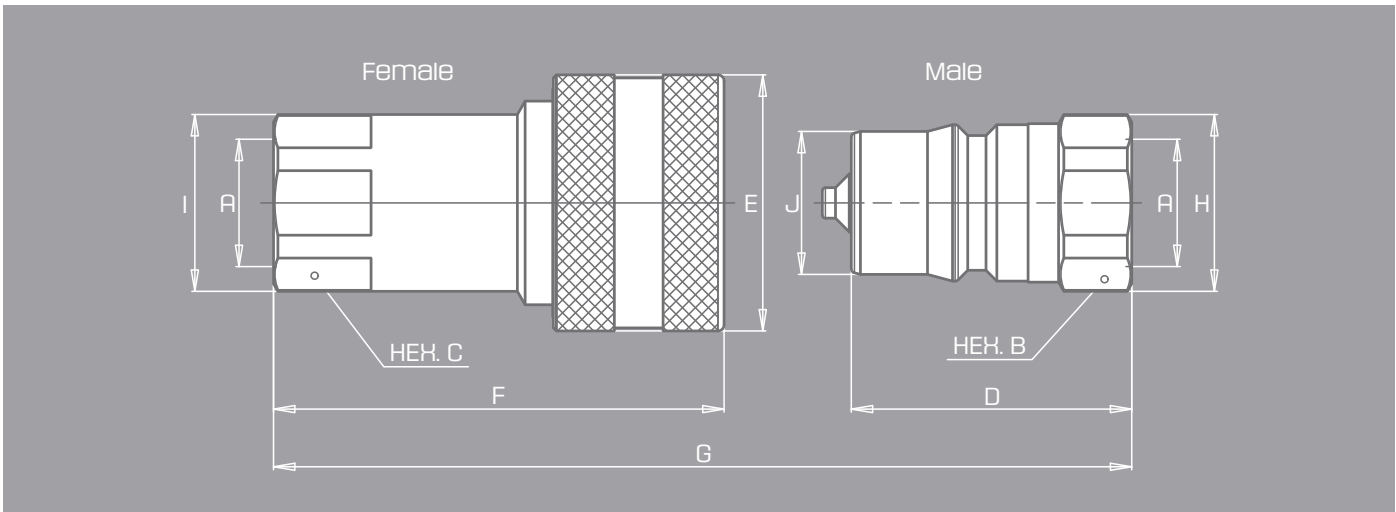


DESCRIPTION	SIZE	ISO SIZE	MAX. OPERATING PRESSURE COUPLED		BURST PRESSURE						SPILLAGE*	
					COUPLED		MALE		FEMALE			
			MPa	psi	MPa	psi	MPa	psi	MPa	psi		ml
<b>IRB STEEL</b>												
IRB18	1/8	5.0	35	5075	120	17400	120	17400	120	17400	0.18	
IRB14	1/4	6.3	35	5075	100	14500	100	14500	100	14500	0.33	
IRB38	3/8	10.0	30	4350	100	14500	100	14500	100	14500	2.20	
IRB12	1/2	12.5	28	4060	100	14500	100	14500	100	14500	3.00	
IRB34	3/4	20.0	23	4000	100	14500	100	14500	100	14500	9.40	
IRB100	1	25.0	18	4000	80	11600	80	11600	80	11600	14.00	
<b>IRBX 316 STAINLESS STEEL</b>												
IRBX18	1/8	5.0	25	3625	140	20300	140	20300	140	20300	0.18	
IRBX14	1/4	6.3	25	3625	140	20300	140	20300	140	20300	0.33	
IRBX38	3/8	10.0	20	2900	100	14500	100	14500	100	14500	2.20	
IRBX12	1/2	12.5	20	2900	100	14500	100	14500	100	14500	3.00	
IRBX34	3/4	20.0	16	2320	80	11600	80	11600	80	11600	9.40	
IRBX100	1	25.0	12,5	1813	60	8700	60	8700	60	8700	14.00	
<b>IRBO BRASS</b>												
IRBO18	1/8	5.0	20	2900	100	14500	100	14500	100	14500	0.18	
IRBO14	1/4	6.3	20	2900	100	14500	100	14500	100	14500	0.33	
IRBO38	3/8	10.0	16	2320	80	11600	70	10150	80	11600	2.20	
IRBO12	1/2	12.5	16	2320	80	11600	70	10150	80	11600	3.00	
IRBO34	3/4	20.0	12,5	1813	60	8700	45	6525	60	8700	9.40	
IRBO100	1	25.0	10	1450	40	5800	40	5800	40	5800	14.00	

\* SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCUPLE CYCLE



## Poppet: Interchange Coupling Size Diagram



DESCRIPTION	BODY SIZE	A	UNIT	B	C	D	E	F	G	H	I	J	UNIT	WEIGHT	
														MALE	FEMALE
IRB18	1/8	1/8	mm	14.0	14.0	30.0	23.0	48.8	60.5	15.8	15.8	10.8	Kg	0.018	0.068
			inch	0.55	0.55	1.18	0.91	1.92	2.38	0.62	0.62	0.43	lb	0.04	0.15
IRB14	1/4	1/4	mm	19.0	19.0	35.0	27.0	57.0	70.7	20.8	21.2	14.2	Kg	0.035	0.120
			inch	0.75	0.75	1.38	1.06	2.24	2.78	0.82	0.83	0.56	lb	0.08	0.26
IRB38	3/8	3/8	mm	24.0	24.0	41.0	34.0	66.0	82.7	26.0	27.0	19.1	Kg	0.068	0.220
			inch	0.94	0.94	1.61	1.34	2.60	3.26	1.02	1.06	0.75	lb	0.15	0.49
IRB12	1/2	1/2	mm	27.0	27.0	46.0	42.0	73.9	92.6	29.0	29.0	23.5	Kg	0.102	0.323
			inch	1.06	1.06	1.81	1.65	2.91	3.65	1.14	1.14	0.93	lb	0.22	0.71
IRB34	3/4	3/4	mm	36.0	36.0	55.0	50.0	90.1	111.1	38.5	38.5	31.4	Kg	0.203	0.562
			inch	1.42	1.42	2.17	1.97	3.55	4.37	1.52	1.52	1.24	lb	0.45	1.24
IRB100	1	1	mm	41.0	41.0	66.0	60.0	106.2	133.2	44.8	44.8	37.7	Kg	0.328	0.863
			inch	1.61	1.61	2.60	2.36	4.18	5.24	1.76	1.76	1.48	lb	0.72	1.90



**IRB NPT and SAE Thread**\_Poppet Style Interchange Coupling | Steel

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>IRB NPT THREAD</b>					
COUPLER	1/8	1/8	NPT	800601000	F. IRB 18 NPT
NIPPLE	1/8	1/8	NPT	800601001	M. IRB 18 NPT
COUPLER	1/4	1/4	NPT	800601002	F. IRB 14 NPT
NIPPLE	1/4	1/4	NPT	800601003	M. IRB 14 NPT
COUPLER	3/8	3/8	NPT	800601004	F. IRB 38 NPT
NIPPLE	3/8	3/8	NPT	800601005	M. IRB 38 NPT
COUPLER	1/2	1/2	NPT	800601006	F. IRB 12 NPT
NIPPLE	1/2	1/2	NPT	800601007	M. IRB 12 NPT
COUPLER	3/4	3/4	NPT	800601008	F. IRB 34 NPT
NIPPLE	3/4	3/4	NPT	800601009	M. IRB 34 NPT
COUPLER	1	1	NPT	800601010	F. IRB 100 NPT
NIPPLE	1	1	NPT	800601011	M. IRB 100 NPT
<b>IRB SAE THREAD</b>					
COUPLER	1/4	3/8	SAE	800604202	F. IRBS 14E 3/8 SAE
NIPPLE	1/4	3/8	SAE	800604201	M. IRB 14E 3/8 SAE



COUPLER



NIPPLE

**IRBO NPT Thread**\_Poppet Style Interchange Coupling | Brass

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>IRBO NPT THREAD</b>					
COUPLER	1/8	1/8	NPT	804501100	F. IRBOV 18 NPT
NIPPLE	1/8	1/8	NPT	804501101	M. IRBOV 18 NPT
COUPLER	1/4	1/4	NPT	804501102	F. IRBOV 14 NPT
NIPPLE	1/4	1/4	NPT	804501103	M. IRBOV 14 NPT
COUPLER	3/8	3/8	NPT	804501104	F. IRBOV 38 NPT
NIPPLE	3/8	3/8	NPT	804501105	M. IRBOV 38 NPT
COUPLER	1/2	1/2	NPT	804501106	F. IRBOV 12 NPT
NIPPLE	1/2	1/2	NPT	804501107	M. IRBOV 12 NPT
COUPLER	3/4	3/4	NPT	804501108	F. IRBOV 34 NPT
NIPPLE	3/4	3/4	NPT	804501109	M. IRBOV 34 NPT
COUPLER	1	1	NPT	804501110	F. IRBOV 100 NPT
NIPPLE	1	1	NPT	804501111	M. IRBOV 100 NPT



COUPLER



NIPPLE

# ISO B Interchange Coupling



COUPLER



NIPPLE

## IRBX NPT Thread\_Poppet Style Interchange Coupling | Stainless Steel

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>IRBX NPT THREAD</b>					
COUPLER	1/8	1/8	NPT	804601100	F. IRBX 18 NPT
NIPPLE	1/8	1/8	NPT	804601101	M. IRBX 18 NPT
COUPLER	1/4	1/4	NPT	804601102	F. IRBX 14 NPT
NIPPLE	1/4	1/4	NPT	804601103	M. IRBX 14 NPT
COUPLER	3/8	3/8	NPT	804601104	F. IRBX 38 NPT
NIPPLE	3/8	3/8	NPT	804601105	M. IRBX 38 NPT
COUPLER	1/2	1/2	NPT	804601106	F. IRBX 12 NPT
NIPPLE	1/2	1/2	NPT	804601107	M. IRBX 12 NPT
COUPLER	3/4	3/4	NPT	804601108	F. IRBX 34 NPT
NIPPLE	3/4	3/4	NPT	804601109	M. IRBX 34 NPT
COUPLER	1	1	NPT	804601110	F. IRBX 100 NPT
NIPPLE	1	1	NPT	804601111	M. IRBX 100 NPT

AVAILABLE WITHOUT VALVE UPON REQUEST