



The IRB Series Quick Couplings are interchangeable to ISO B standard (ISO 7241-B). The IRB is offered in three different high quality materials to meet different application challenges—IRB carbon steel with Nitrile seals, IRBO brass with Viton seals, and IRBX 316 stainless steel with Viton seals. The entire series features compact design, AISI 302 stainless steel springs, and PTFE anti-extrusion rings.



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FEATURES

Size range: 1/4" thru 1"
Port options: NPT, BSP
Interchanges with ISO B, Parker 60, Aeroquip FD45, Faster HNV

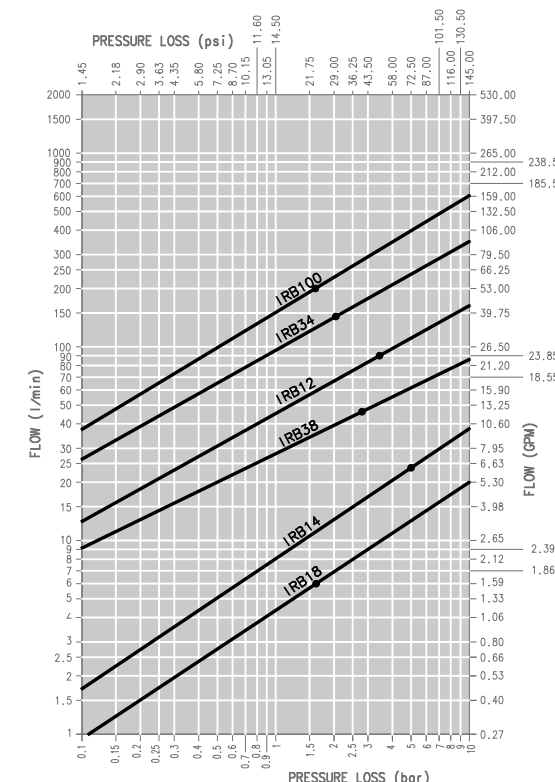
IRB working pressure:
 18-35 MPa/4000-5075 psi range
IRBO working pressure:
 10-20 MPa/1450-2900 psi range
IRBX working pressure:
 12.5-25 MPa/1813-3625 psi range

APPLICATIONS

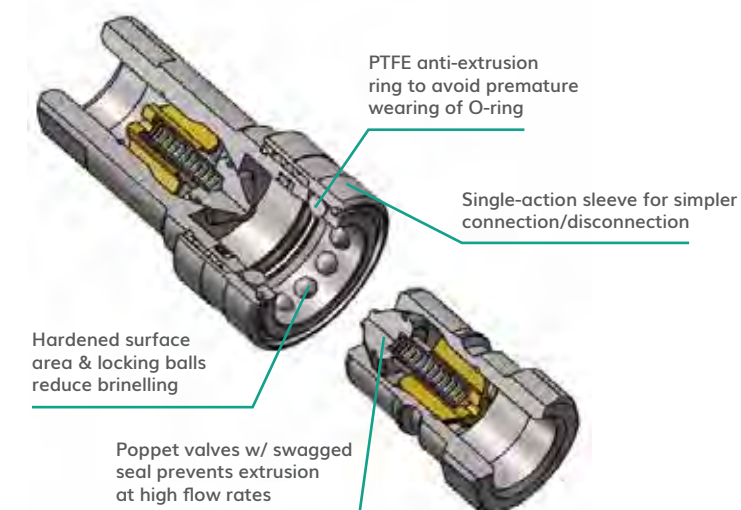
Anywhere a compact size and high quality material are required
 Industrial process applications, agricultural equipment, oil & gas industry



PRESSURE DROP



OIL = ISO VG32, TEMP = 40C, VISCOSITY = 28.8-35.2 MM²/S



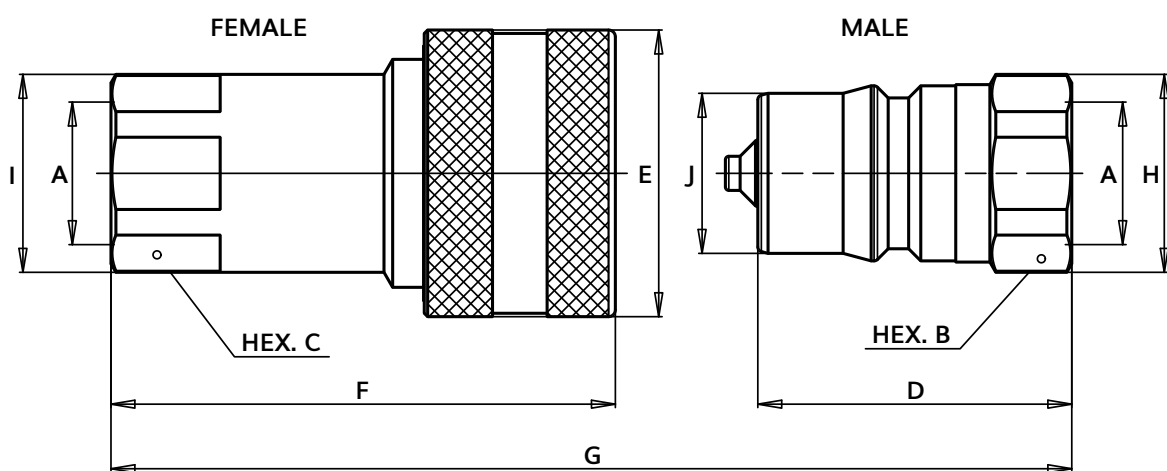
PERFORMANCE

DESCRIPTION	SIZE	ISO SIZE	MAX. OPERATING PRESSURE COUPLED		BURST PRESSURE		COUPLED		SPILLAGE*		
			MPa	psi	MALE	FEMALE	MPa	psi	MPa	psi	ml
ISO B IRB STEEL											
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
ISO B IRBO BRASS											
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
ISO B IRBX 316 STAINLESS STEEL											
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

* Spillage is an indicative value of the fluid loss per couple-uncouple cycle.



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

ISO B IRBX NPT Thread Poppet Style Interchange Coupling | Stainless Steel

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
ISO B IRBX NPT THREAD					
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



Coupler



Nipple

ISO B IRB NPT and SAE Thread Poppet Style Interchange Coupling | Steel

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	DESCRIPTION
ISO B IRB NPT THREAD					
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
IRB SAE THREAD					
COUPLER	1/4	3/8	SAE	800604202	F. IRB 14E 3/8 SAE
NIPPLE	1/4	3/8	SAE	800604201	M. IRB 14E 3/8 SAE



Coupler



Nipple

ISO B IRBO NPT Thread Poppet Style Interchange Coupling | Brass

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	DESCRIPTION
ISO B IRBO NPT THREAD					
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 IRB Series Accessories Coupler Dust Plug | Nipple Dust Cap

PART	ORDER CODE	DESCRIPTION	ORDER CODE	DESCRIPTION
ISO B IRB DUST CAP				
1/4	815000031	CAP M. IRB18	815000030	CAP F. IRB18
1/4	815000033	CAP M. IRB14	815000032	CAP F. IRB14
3/8	815000035	CAP M. IRB38	815000034	CAP F. IRB38
1/2	815000037	CAP M. IRB12	815000036	CAP F. IRB12
3/4	815000039	CAP M. IRB34	815000038	CAP F. IRB34
1	815000041	CAP M. IRB100	815000040	CAP F. IRB100
ISO B IRB DUST PLUG				

Repair Kits

ORDER CODE	DESCRIPTION	ORDER CODE	DESCRIPTION
ISO B IRB SERIES			
815700202	KIT F. IRB18	815700210	KIT F. IRB34
815700204	KIT F. IRB14	815700212	KIT F. IRB100
815700206	KIT F. IRB38	815700211	KIT M./F. IRB34
815700208	KIT F. IRB12	815700213	KIT M./F. IRB100
ISO B IRB SERIES (CONT.)			



POPPET INTERCHANGE COUPLERS