

# ISO A Interchange Coupling



## Poppet: Interchange Coupling

### Series: BIR

**Interchange:** ISO A

BIR quick couplings are interchangeable according to the ISO 7241-1 series "A". They are available from size 1/4 to 2 inches in size, to cover the various fields of hydraulic applications. The series BIR couplings are the most used, from industrial plants to agriculture.

- Positive-stop valving prevents flow checking
- Large diameter sleeves resist deformation
- Steel sleeves hardened for maximum life
- Suitable for open center or closed center hydraulic system

### Overview

ISO A style couplings are one of the most popular designs worldwide used in agricultural, mobile equipment, and some industrial applications. The ISO A style is a durable product using a poppet style valve for the sealing mechanism. The Stucchi breadth of product exceeds that of most competitors by offering sizes over 1 inch.

### Technical Characteristics:

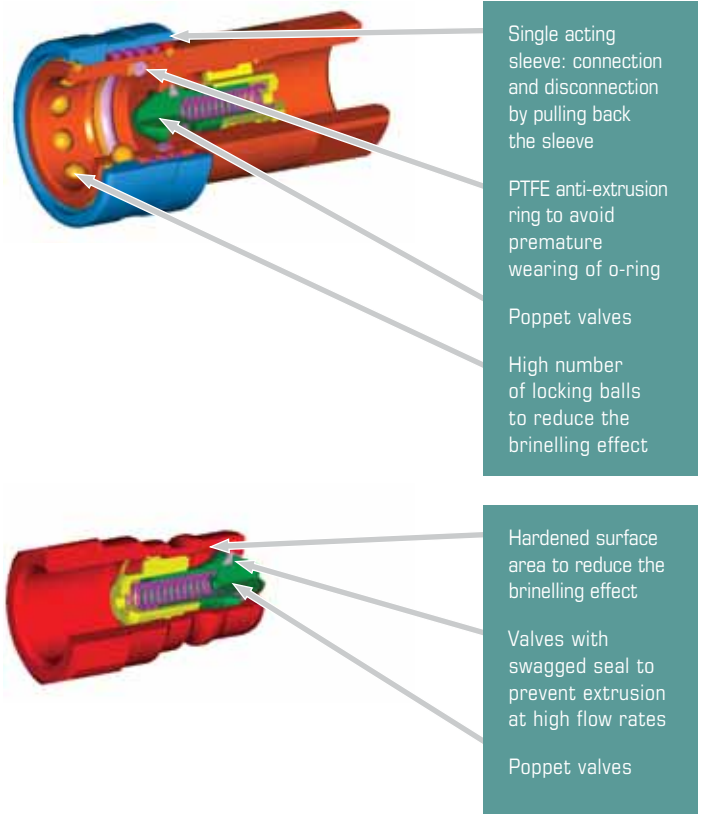
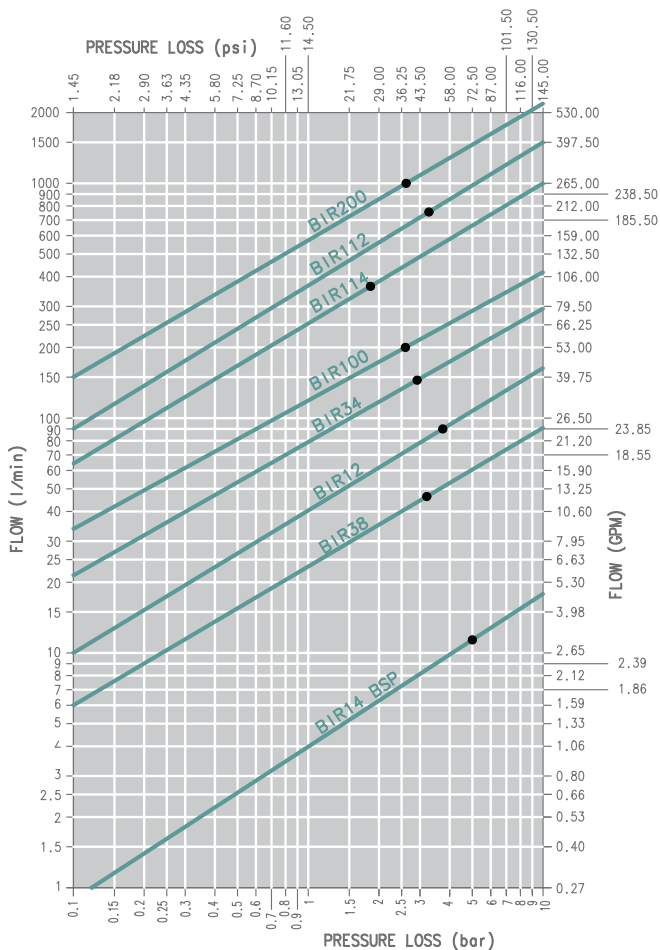
- Coupling Body: zinc plated steel
- Nipple is zinc-plated hardened steel
- Seals: Nitrile
- Anti-extrusion rings are Teflon
- NPT standard threads
- On request BSP threads & various seals
- Anti-dust plastic caps
- Clip provided auto shut nylon caps for BIR12 female coupler part available



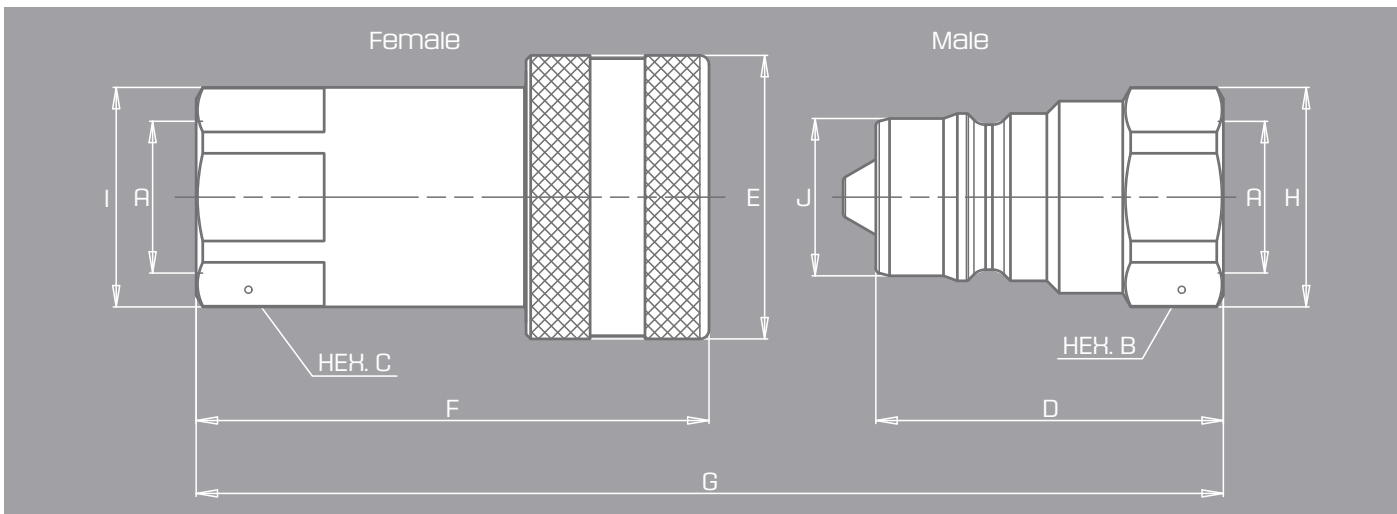


DESCRIPTION	SIZE	ISO SIZE	MAX. OPERATING PRESSURE COUPLED		BURST PRESSURE						SPILLAGE*
					COUPLED		MALE		FEMALE		
			MPa	psi	MPa	psi	MPa	psi	MPa	psi	
BIR14	1/4	6.3	35	5075	126	18270	126	18270	126	18270	0.70
BIR38	3/8	10.0	30	4350	100	14500	100	14500	100	14500	1.20
BIR12	1/2	12.5	25	3625	80	11600	80	11600	100	14500	2.10
BIR34	3/4	20.0	25	3625	100	14500	100	14500	100	14500	5.20
BIR100	1	25.0	23	3335	80	11600	80	11600	80	11600	9.00
BIR114	1 1/4	31.5	23	3335	80	11600	80	11600	80	11600	27.00
BIR112	1 1/2	40	18	2610	64	9280	64	9280	64	9280	49.00
BIR200	2	50	13	1885	40	5800	40	5800	40	5800	75.00

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



## Poppet: Interchange Coupling Size Diagram



DESCRIPTION	BODY SIZE	A	UNIT	B	C	D	E	F	G	H	I	J	UNIT	WEIGHT	
														MALE	FEMALE
BIR14	1/4	1/4	mm	19.0	19.0	32.0	26.0	47.1	64.8	20.8	22.0	11.8	Kg	0.033	0.094
			inch	0.75	0.75	1.26	1.02	1.85	2.55	0.82	0.87	0.46	lb	0.07	0.21
BIR38	3/8	3/8	mm	22.0	22.0	38.0	31.0	56.1	76.8	24.0	24.0	17.3	Kg	0.053	0.145
			inch	0.87	0.87	1.50	1.22	2.21	3.02	0.94	0.94	0.68	lb	0.12	0.32
BIR12	1/2	1/2	mm	27.0	27.0	44.5	38.0	63.3	86.3	29.0	30.0	20.5	Kg	0.084	0.245
			inch	1.06	1.06	1.75	1.50	2.49	3.40	1.14	1.18	0.81	lb	0.19	0.54
BIR34	3/4	3/4	mm	36.0	38.0	55.0	48.0	82.2	111.1	38.5	44.0	29.1	Kg	0.210	0.502
			inch	1.42	1.50	2.17	1.89	3.24	4.37	1.52	1.73	1.15	lb	0.46	1.11
BIR100	1	1	mm	41.0	45.0	63.1	54.0	97.1	127.3	44.8	52.0	34.3	Kg	0.284	0.772
			inch	1.61	1.77	2.48	2.13	3.82	5.01	1.76	2.05	1.35	lb	0.63	1.70
BIR114	1 1/4	1 1/4	mm	55.0	50.0	75.0	65.0	117.2	151.2	60.0	55.5	45.0	Kg	0.615	1.244
			inch	2.17	1.97	2.95	2.56	4.61	5.95	2.36	2.19	1.77	lb	1.36	2.74
BIR112	1 1/2	1 1/2	mm	60.0	60.0	85.0	80.0	135.3	171.3	65.5	65.5	55.0	Kg	0.878	2.130
			inch	2.36	2.36	3.35	3.15	5.33	6.74	2.58	2.58	2.17	lb	1.94	4.70
BIR200	2	2	mm	75.0	75.0	100.0	100.0	160.2	201.2	82.5	83.7	65.0	Kg	1.440	4.130
			inch	2.95	2.95	3.94	3.94	6.31	7.92	3.25	3.30	2.56	lb	3.17	9.10



### BIR NPT Thread\_Poppet Style Interchange Coupling

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>BIR NPT THREAD</b>					
COUPLER	1/4	1/4	NPT	800501000	F. BIR 14 NPT
NIPPLE	1/4	1/4	NPT	800501001	M. BIR 14 NPT
COUPLER	3/8	3/8	NPT	800501002	F. BIR 38 NPT
NIPPLE	3/8	3/8	NPT	800501003	M. BIR 38 NPT
COUPLER	1/2	1/2	NPT	800501004	F. BIR 12 NPT
NIPPLE	1/2	1/2	NPT	800501005	M. BIR 12 NPT
COUPLER	3/4	3/4	NPT	800501006	F. BIR 34 NPT
NIPPLE	3/4	3/4	NPT	800501007	M. BIR 34 NPT
COUPLER	1	1	NPT	800501008	F. BIR 100 NPT
NIPPLE	1	1	NPT	800501009	M. BIR 100 NPT
COUPLER	1 1/4	1 1/4	NPT	800501010	F. BIR 114 NPT
NIPPLE	1 1/4	1 1/4	NPT	800501011	M. BIR 114 NPT
COUPLER	1 1/2	1 1/2	NPT	800501012	F. BIR 112 NPT
NIPPLE	1 1/2	1 1/2	NPT	800501013	M. BIR 112 NPT
COUPLER	2	2	NPT	800501014	F. BIR 200 NPT
NIPPLE	2	2	NPT	800501015	M. BIR 200 NPT
<b>BIR SAE THREAD</b>					
COUPLER	1/2	1/2	SAE	800504004	F. BIR 12 SAE
NIPPLE	1/2	1/2	SAE	800504005	M. BIR 12 SAE
COUPLER	3/4	3/4	SAE	800504006	F. BIR 34 SAE
NIPPLE	3/4	3/4	SAE	800504007	M. BIR 34 SAE
COUPLER	1	1	SAE	800504008	F. BIR 100 SAE
NIPPLE	1	1	SAE	800504009	M. BIR 100 SAE
<b>BIR NPT THREAD - 12 PC</b>					
COUPLER	1/2	1/2	NPT	805601000	F. BIR 12 PC NPT*
NIPPLE	1/2	1/2	NPT	805601001	M. BIR 12 PC NPT*
<b>BIR SAE THREAD - 12 PC</b>					
COUPLER	1/2	1/2	SAE	805604000	F. BIR 12 PC SAE*
NIPPLE	1/2	1/2	SAE	805604001	M. BIR 12 PC SAE*



COUPLER



NIPPLE



\* CONNECT UNDER RESIDUAL PRESSURE POPPET VALVE

# ISO A Interchange Couplings Push Pull Mount



## Poppet: Interchange Coupling

### Series: I-IP

**Interchange:** Faster CPV – CNV, Parker 4200

I-IP series is an extension of the ISO A style couplings and is one of the most popular designs worldwide used in agricultural, mobile equipment, and some industrial applications. The IP series is the ISO A interchange coupler with a push pull mounting feature. The I series is the nipple with a modular port design to allow for a range of port options. The Stucchi range is 1/4 thru 1 inch, with port options of NPT, SAE, BSP and DIN.

### Technical Characteristics

- Connection: pushing the male coupling
- Disconnection: pulling the male coupling
- Shut-off system: poppet valve
- Connectability: without pressure
- Panel mounting by the sleeve
- Suitable for flexible hose connections
- Breakaway feature (if panel mounted)

### Applications & Features

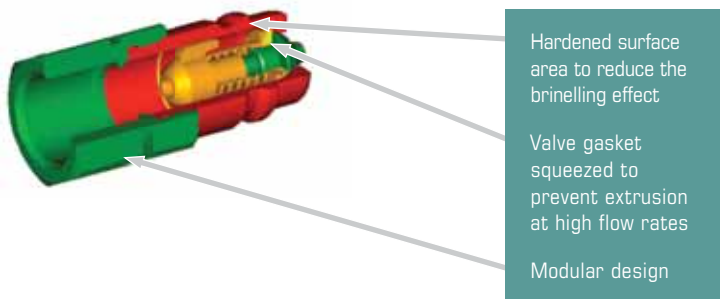
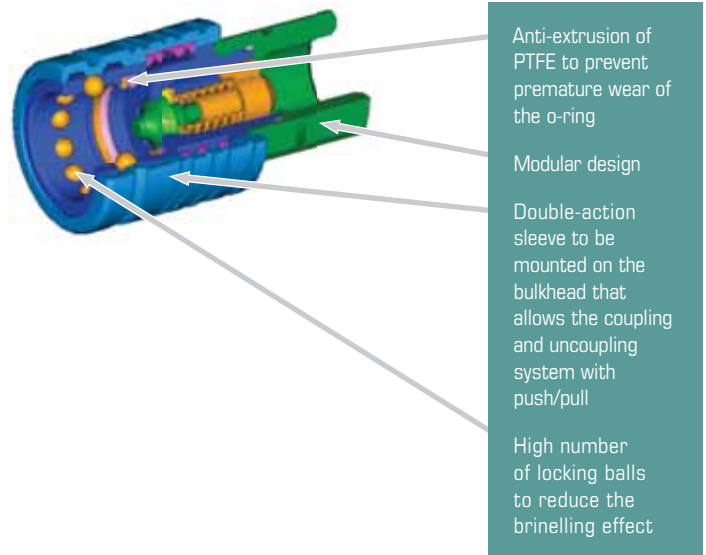
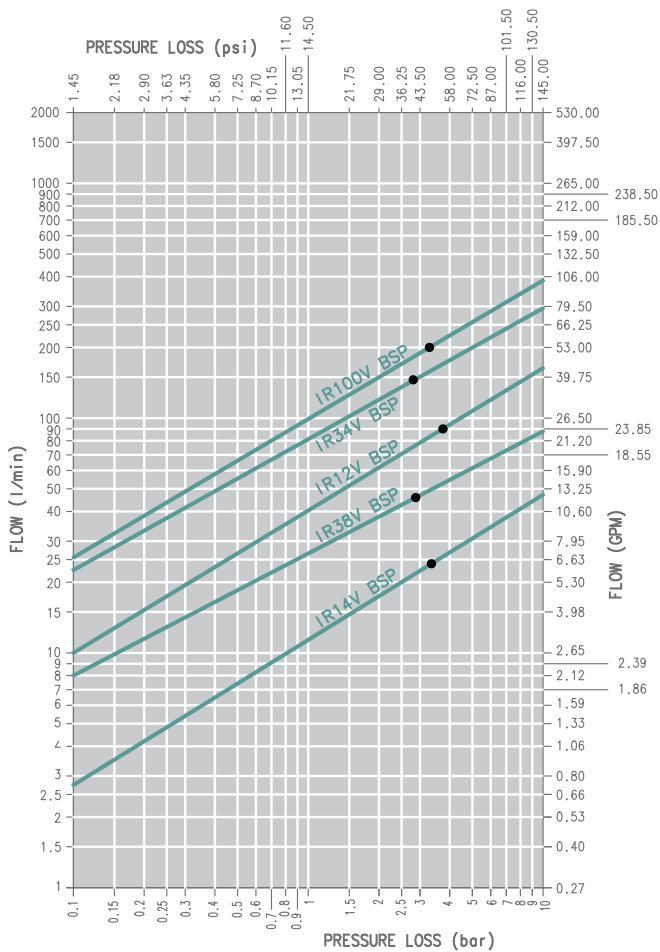
- Quick-release couplings mainly used in agriculture
- Push-Pull system makes connection and disconnection very easy
- Conformity to ISO 7241-1-A standards ensures worldwide interchangeability



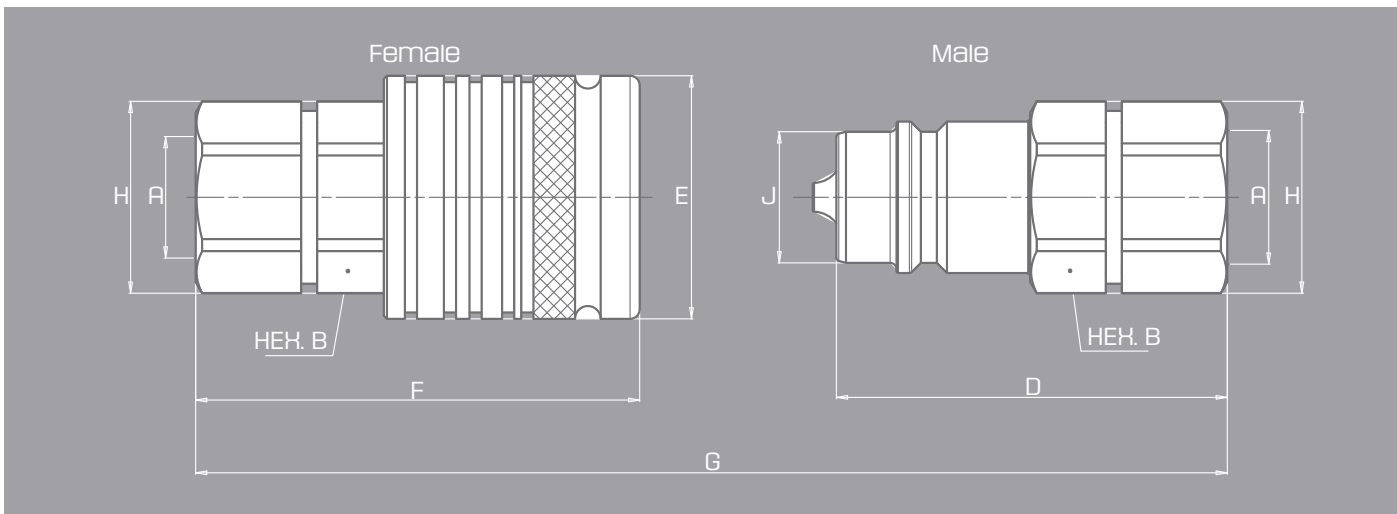


DESCRIPTION	SIZE	ISO SIZE	MAX. OPERATING PRESSURE COUPLED		SPILLAGE *
			MPa	psi	ml
I-IP14	1/4	-	35	5076	0.70
I-IP38	3/8	10.0	31.5	4568	1.20
I-IP12	1/2	12.5	25	3571	2.10
I-IP34	3/4	20.0	25	3571	5.20
I-IP100	1	25.0	25	3571	9

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



## Poppet: Interchange Coupling Size Diagram



DESCRIPTION	BODY SIZE	A	DIMENSION	B	D	E	F	H	I
IP38/I38	3/8	3/8	mm	22	48.3	32	66.5	24	24
			inch	0.87	1.9	1.26	2.62	0.94	0.94
IP12/I12	1/2	1/2	mm	27	61.1	38	69.4	30	30
			inch	1.06	2.41	1.5	2.73	1.18	1.18
IP34/I34	3/4	3/4	mm	36	61	46	88	40	40
			inch	1.42	2.4	1.81	3.46	1.57	1.57
IP100/I100	1	1	mm	41	73	54	107	45	45
			inch	1.61	2.87	2.13	4.21	1.77	1.77



### I-IP BSP and NPT Thread\_Poppet Style Interchange Coupling

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>I-IP BSP AND NPT THREAD</b>					
COUPLER	3/8	1/4	BSP	809400008	INN. F. IP38 1/4 BSP
NIPPLE	3/8	1/4	BSP	809400009	INN. M. I38 1/4 BSP
COUPLER	3/8	3/8	BSP	809400010	INN. F. IP38 3/8 BSP
NIPPLE	3/8	3/8	BSP	809400011	INN. M. I38 3/8 BSP
COUPLER	3/8	3/8	MALE BSP	809400012	F. IP38 3/8BSP EST DIN3852
NIPPLE	3/8	3/8	MALE BSP	809400013	M. I38 3/8 BSP EST DIN3852
COUPLER	1/2	1/2	BSP	809400000	F. IP12 1/2 BSP
NIPPLE	1/2	1/2	BSP	809400001	M. I12GS 1/2 BSP
COUPLER	1/2	1/2	MALE BSP	809400002	F. IP12 1/2 BSP EST
NIPPLE	1/2	1/2	MALE BSP	809400003	M. I12GS 1/2 BSP EST
COUPLER	1/2	3/8	BSP	809400004	F. IP12 3/8 BSP
NIPPLE	1/2	3/8	BSP	809400005	M. I12GS 3/8 BSP
NIPPLE	1/2	3/8	MALE BSP	809400007	M. I12GS 3/8 BSP EST
COUPLER	1/2	1/2	NPT	809401000	F. IP12 1/2 NPT
NIPPLE	1/2	1/2	NPT	809401001	M. I12GS 1/2 NPT
COUPLER	3/4	3/4	BSP	809400014	F. I34 3/4 BSP
NIPPLE	3/4	3/4	BSP	809400015	M. I34 3/4 BSP
NIPPLE	3/4	3/4	NPT	809401003	M. I34 3/4 NPT
COUPLER	1	3/4	BSP	809400016	INN. F. IP100 3/4 BSP
NIPPLE	1	3/4	BSP	809400017	INN. M. I100 3/4 BSP
COUPLER	1	1	BSP	809400018	INN. F. IP100 1 BSP
NIPPLE	1	1	BSP	809400019	INN. M. I100 1 BSP



COUPLER



NIPPLE



# 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

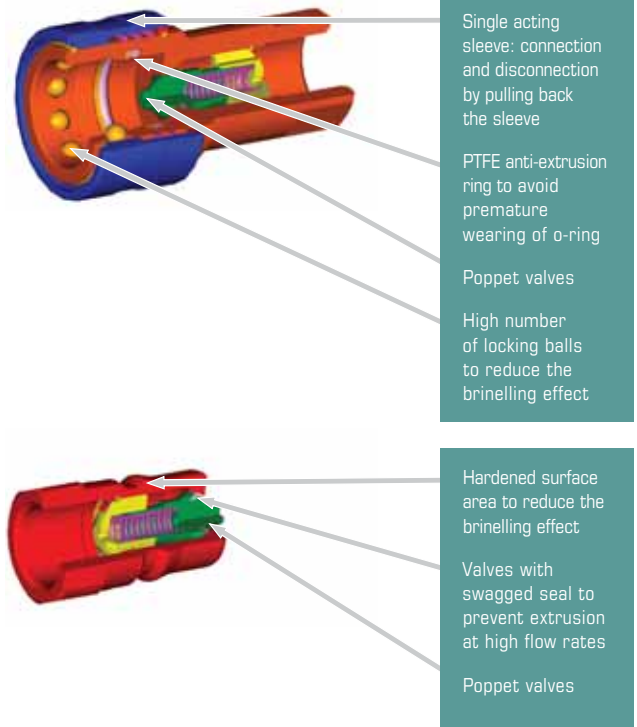
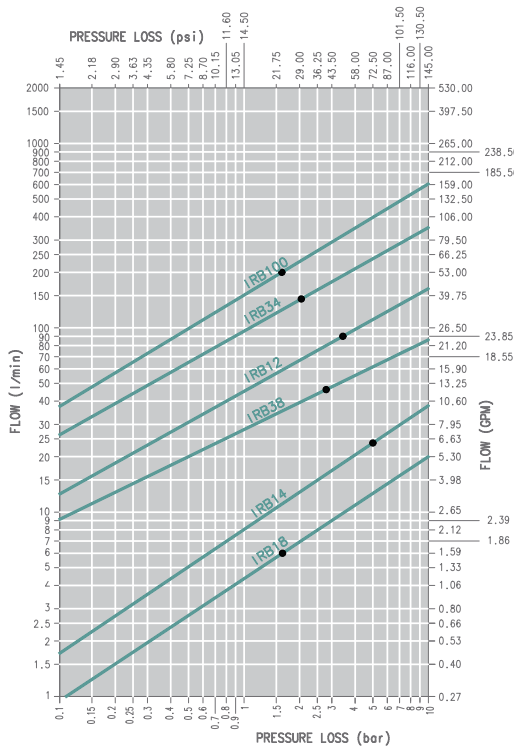
- IRB: carbon steel material with Nitrile seals
- IRBO: brass material with Viton seals
- IRBX: 316 stainless steel with Viton seals



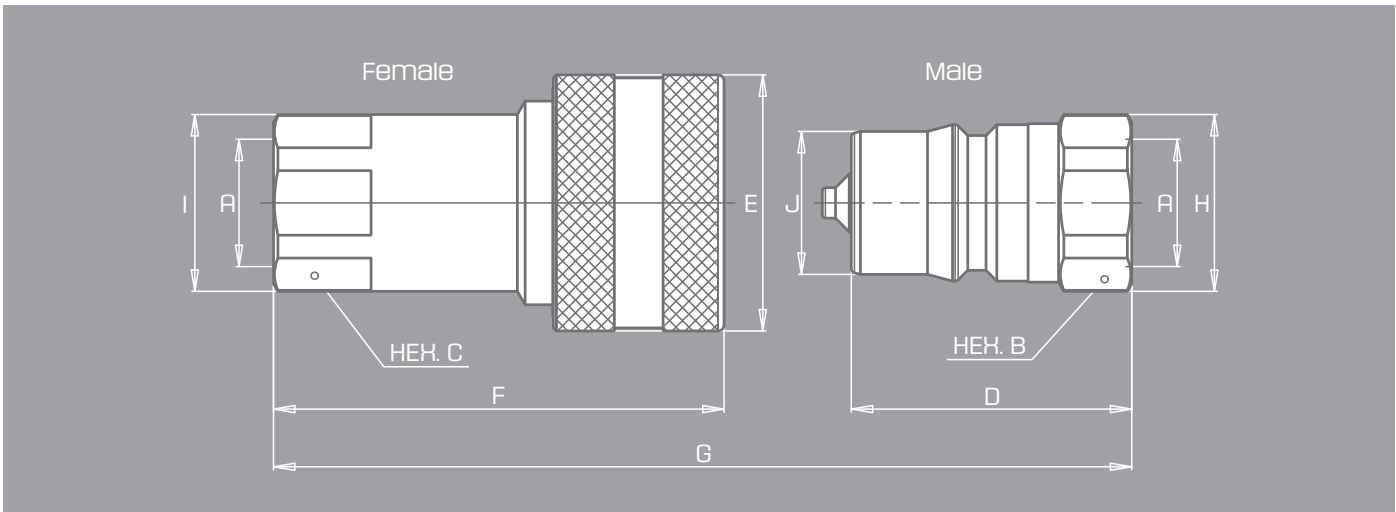


DESCRIPTION	SIZE	ISO SIZE	MAX. OPERATING PRESSURE COUPLED		BURST PRESSURE						SPILLAGE*
					COUPLED		MALE		FEMALE		
			MPa	psi	MPa	psi	MPa	psi	MPa	psi	
<b>IRB STEEL</b>											
IRB18	1/8	5.0	35	5075	120	17400	120	17400	120	17400	0.18
IRB14	1/4	6.3	35	5075	100	14500	100	14500	100	14500	0.33
IRB38	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



## Poppet: Interchange Coupling

Series: IR | IRV | IRS

**Interchange:** Agriculture/ISO 5675

The series IR, IR/V hydraulic quick couplings equipped with ball or poppet sealing valve are mostly applied in agricultural equipment; interchangeable according to ISO 5675. Size 12.5 is in accordance with ISO 7241-1 series "A".

- IR: ball seal valve
- IRV: poppet seal valve
- IRS: push pull coupling
- IRS PC: push pull sleeve connectable under residual pressure

### Overview

Stucchi Agriculture Series are offered with a choice of either ball or poppet valve mechanisms for automatic shut-off during disconnection. The ball mechanism is the IR series, the poppet mechanism is the IRV series. The IR series are mainly for applications where interchangeability with existing equipment is necessary. For new applications poppet valves or flat face are recommended.

### Technical Characteristics & Options

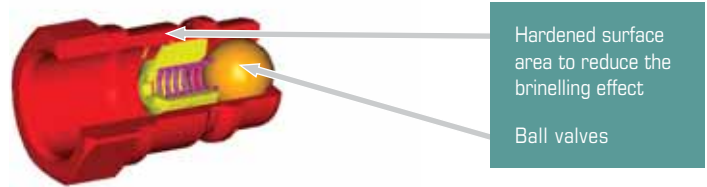
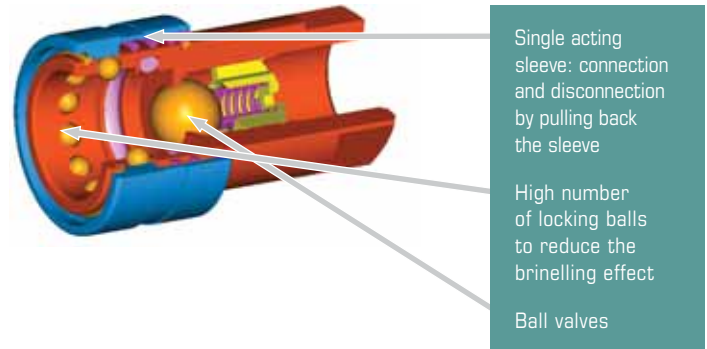
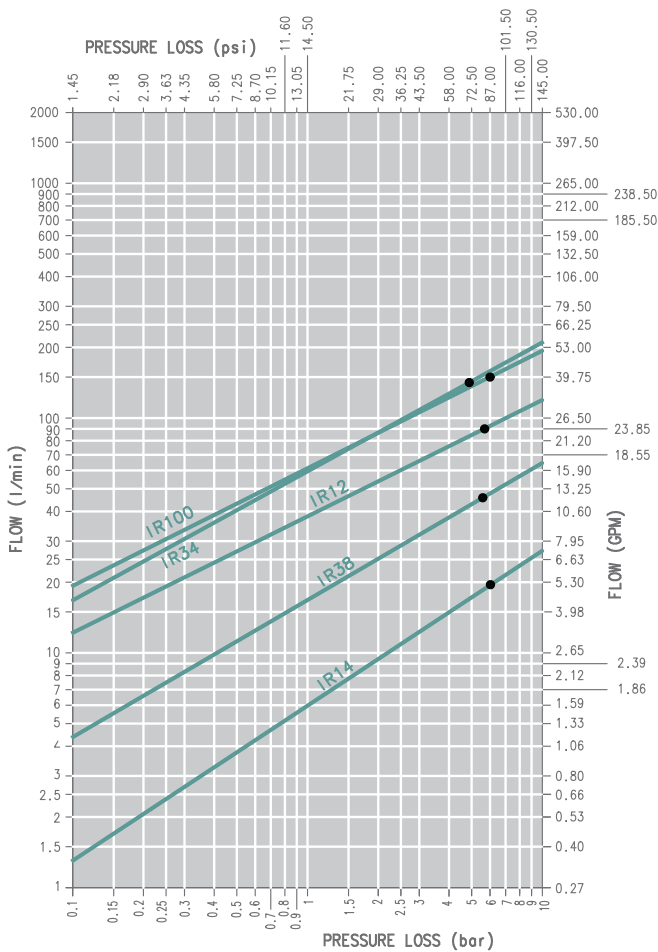
- Coupling constructed in carbon steel with zinc plating
- Nipple made with hardened steel
- Standard seals are Nitrile
- NPT standard threads
- On request SAE, BSP threads
- Anti-dust plastic caps
- Clip provided Nylon caps for IR12 female part



# Agriculture Interchange Coupling

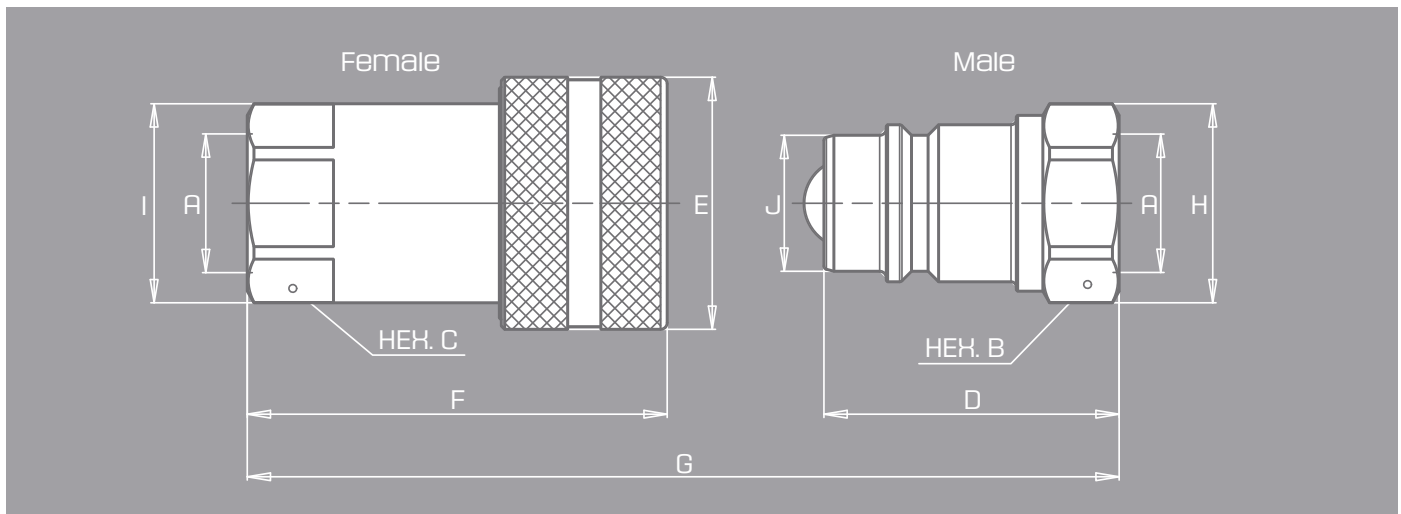
DESCRIPTION	SIZE	ISO SIZE	MAX. OPERATING PRESSURE COUPLED		BURST PRESSURE						SPILLAGE*
					COUPLED		MALE		FEMALE		
			MPa	psi	MPa	psi	MPa	psi	MPa	psi	
IR14	1/4	-	30	4350	100	14500	100	14500	100	14500	0.13
IR38	3/8	-	30	4350	100	14500	100	14500	90	13050	0.45
IR12	1/2	12.5	25	3625	80	11600	55	7975	55	7975	2.30
IR34	3/4	-	25	3625	100	14500	60	8700	90	13050	4.50
IR100	1	-	20	2900	80	11600	60	8700	80	11600	6.00

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





## Poppet: Interchange Coupling Size Diagram



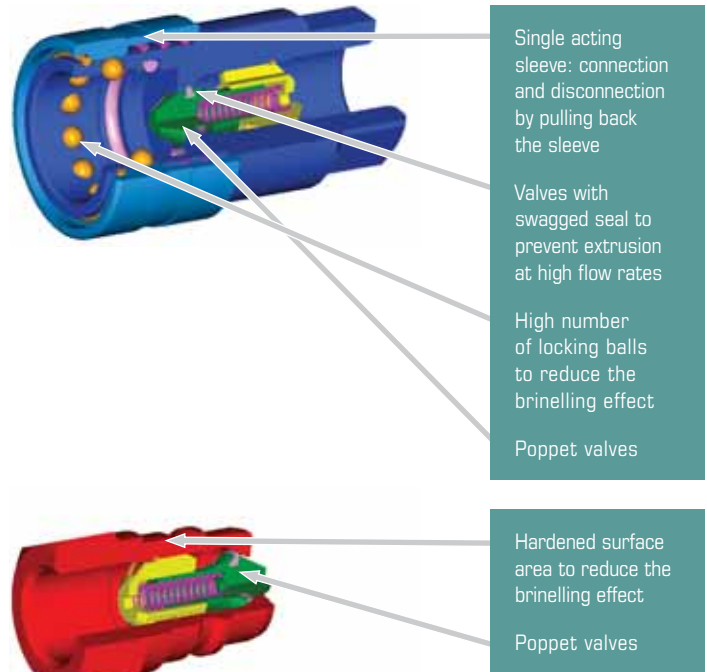
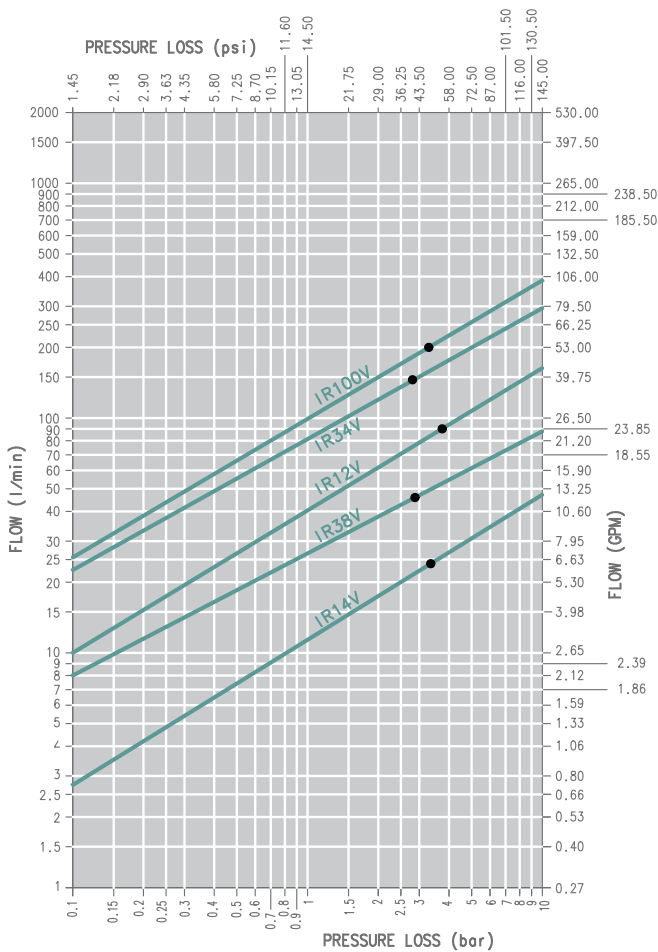
DESCRIPTION	BODY SIZE	A	UNIT	B	C	D	E	F	G	H	I	J	UNIT	WEIGHT	
														MALE	FEMALE
IR14	1/4	1/4	mm	19.0	19.0	32.5	27.0	48.9	64.4	22.0	21.0	14.2	Kg	0.040	0.125
			inch	0.75	0.75	1.28	1.06	1.93	2.54	0.87	0.83	0.56	lb	0.09	0.28
IR38	3/8	3/8	mm	24.0	24.0	38.0	34.0	58.3	76.3	27.7	26.5	19.0	Kg	0.080	0.222
			inch	0.94	0.94	1.50	1.34	2.30	3.00	1.09	1.04	0.75	lb	0.18	0.49
IR12	1/2	1/2	mm	27.0	27.0	44.5	38.0	63.3	86.3	30.0	30.0	20.5	Kg	0.090	0.277
			inch	1.06	1.06	1.75	1.50	2.49	3.40	1.18	1.18	0.81	lb	0.20	0.61
IR34	3/4	3/4	mm	36.0	38.0	59.0	48.0	90.3	118.3	38.5	43.0	26.9	Kg	0.211	0.699
			inch	1.42	1.50	2.32	1.89	3.56	4.66	1.52	1.69	1.06	lb	0.47	1.54
IR100	1	1	mm	41.0	45.0	66.1	54.0	99.6	132.8	44.8	52.0	31.4	Kg	0.301	0.894
			inch	1.61	1.77	2.60	2.13	3.92	5.23	1.76	2.05	1.24	lb	0.66	1.97



# Agriculture Interchange Coupling

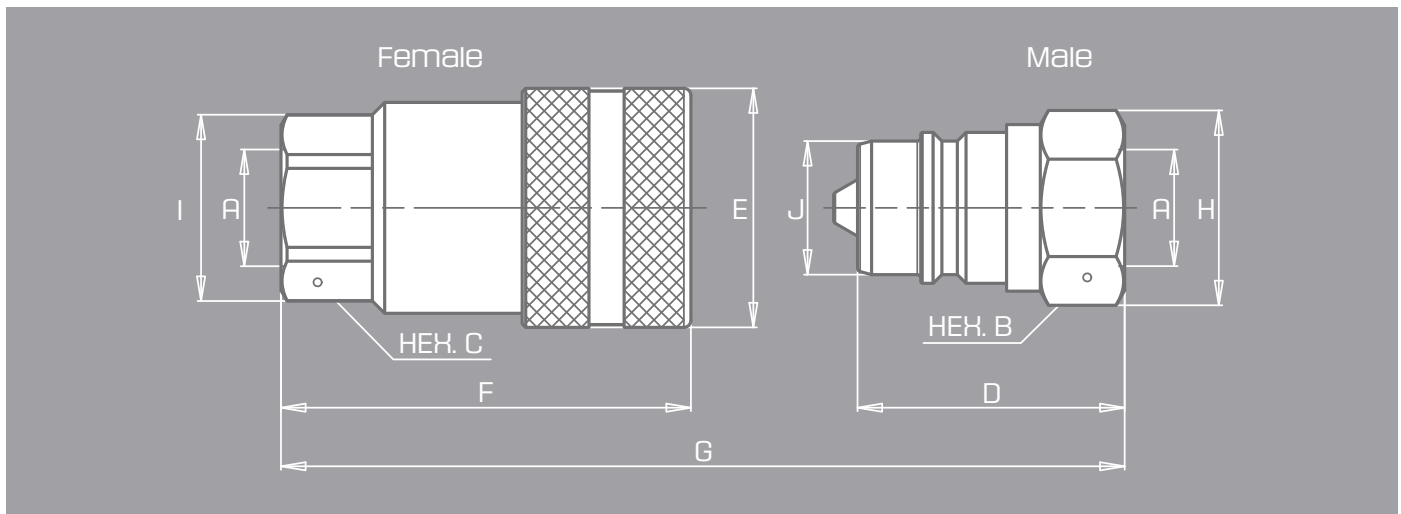
DESCRIPTION	SIZE	ISO SIZE	MAX. OPERATING PRESSURE COUPLED		BURST PRESSURE						SPILLAGE*
					COUPLED		MALE		FEMALE		
			MPa	psi	MPa	psi	MPa	psi	MPa	psi	
IR14V	1/4	-	30	4350	100	14500	100	14500	100	14500	0.33
IR38V	3/8	-	30	4350	100	14500	100	14500	100	14500	1.30
BIR12	1/2	12.5	25	3625	80	11600	80	11600	100	14500	2.10
IR34V	3/4	-	25	3625	100	14500	90	13050	100	14500	4.20
IR100V	1	-	20	2900	80	11600	80	11600	80	11600	5.50

\* 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
IR14V	1/4	1/4	mm	19.0	19.0	32.5	27.0	50.4	65.9	22.0	21.0	14.2	Kg	0.040	0.125
			inch	0.75	0.75	1.28	1.06	1.98	2.59	0.87	0.83	0.56	lb	0.09	0.28
IR38V	3/8	3/8	mm	24.0	24.0	38.0	34.0	58.3	76.3	27.7	26.5	19.0	Kg	0.080	0.222
			inch	0.94	0.94	1.50	1.34	2.30	3.00	1.09	1.04	0.75	lb	0.18	0.49
BIR12	1/2	1/2	mm	27.0	27.0	44.5	38.0	63.3	86.3	29.0	30.0	20.5	Kg	0.084	0.245
			inch	1.06	1.06	1.75	1.50	2.49	3.40	1.14	1.18	0.81	lb	0.19	0.54
IR34V	3/4	3/4	mm	36.0	38.0	59.0	48.0	90.3	118.3	38.5	43.0	26.9	Kg	0.187	0.663
			inch	1.42	1.50	2.32	1.89	3.56	4.66	1.52	1.69	1.06	lb	0.41	1.46
IR100V	1	1	mm	41.0	45.0	64.1	54.0	97.6	128.8	44.8	52.0	31.4	Kg	0.276	0.860
			inch	1.61	1.77	2.52	2.13	3.84	5.07	1.76	2.05	1.24	lb	0.61	1.90

# Agriculture Interchange Coupling



COUPLER



NIPPLE

## IRV NPT and SAE Thread\_Poppet Style Interchange Coupling

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>IRV NPT THREAD</b>					
COUPLER	1/4	1/4	NPT	800101000	F. IR 14V NPT
NIPPLE	1/4	1/4	NPT	800101001	M. IR 14V NPT
COUPLER	3/8	3/8	NPT	800101002	F. IR 38V NPT
NIPPLE	3/8	3/8	NPT	800101003	M. IR 38V NPT
COUPLER	1/2	1/2	NPT	800501004	F. BIR 12 NPT
NIPPLE	1/2	1/2	NPT	800501005	M. BIR 12 NPT
COUPLER	3/4	3/4	NPT	800101004	F. IR 34V NPT
NIPPLE	3/4	3/4	NPT	800101005	M. IR 34V NPT
COUPLER	1	1	NPT	800101006	F. IR 100V NPT
NIPPLE	1	1	NPT	800101007	M. IR 100V NPT
COUPLER	3/4	3/4	NPT	820001022	F. IR 34V FA NPT*
NIPPLE	3/4	3/4	NPT	820001023	M. IR 34V FA NPT*
<b>IRV SAE THREAD</b>					
COUPLER	1/4	3/8	SAE	800104000	F. IR 14V 38 SAE
NIPPLE	1/4	3/8	SAE	800104001	M. IR 14V 38 SAE

\* FASTER INTERCHANGE ONLY



COUPLER

## IRS V\_Poppet Valve | Agricultural Push/Pull Sleeve

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>IRS V NPT AND SAE THREAD</b>					
COUPLER	1/2	1/2	NPT	800401002	F. IRS 12VA NPT
COUPLER	1/2	1/2	SAE	804304004	F. I 12VA SAE

## IRS PC\_Poppet Valve | Agricultural Push/Pull Sleeve | Connect Under Pressure

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>IRS PC NPT AND SAE THREAD</b>					
COUPLER	1/2	1/2	NPT	800401004	F. IRS 12VA PC NPT
COUPLER	1/2	1/2	SAE	804304002	F. I 12VA PC SAE



### IR Ball Valve NPT Thread\_Poppet Style Interchange Coupling

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>IR BALL VALVE NPT THREAD</b>					
COUPLER	1/4	1/4	NPT	800001000	F. IR 14 NPT
NIPPLE	1/4	1/4	NPT	800001001	M. IR 14 NPT
COUPLER	3/8	3/8	NPT	800001002	F. IR 38 NPT
NIPPLE	3/8	3/8	NPT	800001003	M. IR 38 NPT
COUPLER	1/2	1/2	NPT	800001004	F. IR 12 NPT
NIPPLE	1/2	1/2	NPT	800001005	M. IR 12 NPT
COUPLER	3/4	3/4	NPT	800001006	F. IR 34 NPT
NIPPLE	3/4	3/4	NPT	800001007	M. IR 34 NPT
COUPLER	1	1	NPT	800001008	F. IR 100 NPT
NIPPLE	1	1	NPT	800001009	M. IR 100 NPT
COUPLER	3/4	3/4	NPT	820001020	F. IR 34 FA NPT*
NIPPLE	3/4	3/4	NPT	820001021	M. IR 34 FA NPT*

\* FASTER INTERCHANGE ONLY



COUPLER



NIPPLE

### IR TIC Ball Valve NPT Thread\_Agricultural Nipple with Seal Retainer

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>IR TIC BALL VALVE NPT THREAD</b>					
NIPPLE	1/2	1/2	NPT	800001011	M. IR 12 TIC NPT



NIPPLE

### IRS Ball Valve NPT Thread\_Agricultural Push/Pull Sleeve

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	PART DESCRIPTION
<b>IRS BALL VALVE NPT THREAD</b>					
COUPLER	1/2	1/2	NPT	800301002	F. IRS 12A NPT



COUPLER