

INTERCHANGE: ISO 7241-1 series "A"

MAIN APPLICATIONS

· Agricultural equipment

"IRS" is a ball valve female coupling with a panel mounting double acting sleeve that allows connection and disconnection operation with a push-pull action that acts as a breakaway function. They are mainly used in agricultural tractor applications where the breakaway function is requested to avoid breakage of the hydraulic connections during unintended disconnection.

It is available in size 1/2 for interchangeability in according ISO 7241-1 series "A".

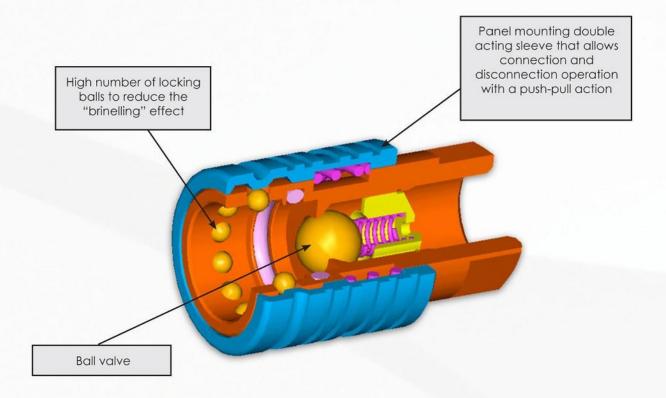




TECHNICAL FEATURES AND OPTIONS

- Interchangeability: ISO 7241-1 series "A"
- Valve system: Ball valve
- Mechanical connection: Locking balls
- Connection system: Pushing the male coupling (push)
- Disconnection system: Pulling the male coupling (pull)
- Connection with residual pressure: Not allowed
- Disconnection with residual pressure: Not allowed
- Threads available: BSP, NPT

- Construction material: Carbon steel
- Surface treatment: CrIII zinc plated
- Springs: C72 steel
- Balls: Hard steel 100 C6
- Seals: standard in NBR (Nitrile)



BENEFITS

- Breakaway function to avoid breakage of the hydraulic connections in case of strong axial force.
- Ball valves in hardened steel provide a good wearing resistance.
- · Compact slim design.
- Simple to use.



HOW TO USE

- For the breakaway function, the coupling must be mounted in a panel locking the sleeve using seeger/snap rings.
- Before connecting clean the mating parts of the couplings to avoid contamination in the circuit.
- To couple push the male coupling into the female coupling.
- To uncouple pull the male coupling.

WARNING!

- Do not couple-uncouple with flow and/or pressure in the circuit.
- Use protection whenever connecting or disconnecting with high temperature (max. allowed 80°C, 176°F).
- When the couplings are disconnected, it is suggested to use the protection caps.
 The Nylon clip cap for F-A13 or the Pvc cap for F-BIR12 are suitable.

PERFORMANCE

Description	Size	ISO Size	Rated	d flow		. flow ested	Connect force		Disconn	ect force	Spillage *	
	Inch	mm	I/min	GPM	I/min	GPM	Ν	lbf	Z	lbf	ml	
IRS12A	1/2	12,5	45	11,93	90	23,85	100	22,50	90	20,25	2,30	

Description		Mo	ıx. operat	ing press	ure	Burst pressure							
	Coupled °		Male		Female		Coupled°		Male		Female		
	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	
IRS12A	25	3625	-	-	20	2900	80	11600		(-)	55	7975	

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



[°] Tested with male coupling IR12.

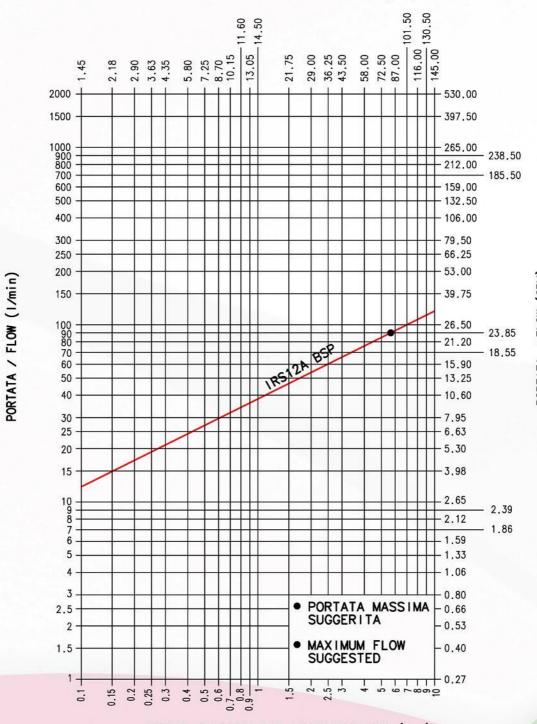
Temperature range:

⁻ Standard seals NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F).

PRESSURE DROP

TESTS ESEGUITI IN CONFORMITA' A ISO 7241-2 TESTS IN ACCORDANCE WITH ISO 7241-2

PERDITA DI PRESSIONE / PRESSURE LOSS (psi)



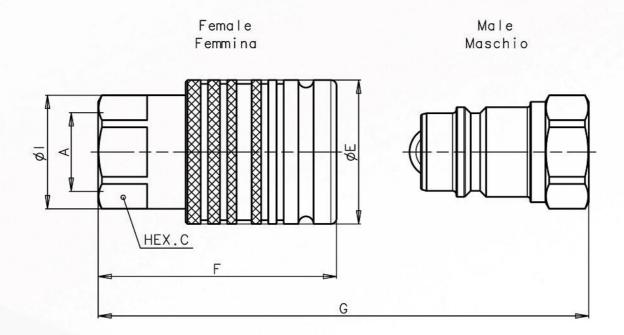
PERDITA DI PRESSIONE / PRESSURE LOSS (bar)

FLUIDO: OLIO ISO VG32 TEMPERATURA: 40°C VISCOSITA': 28.8-35.2 mm²/s

FLUID: OIL ISO VG32 TEMPERATURE: 40°C VISCOSITY: 28.8-35.2 mm²/s



OVERALL DIMENSIONS



FEMALE BSPP THREAD (DIN 3852)

		Unit			111				н		J		We	ight
Description	А		В	С	D	E	F	G				Unit	Male	Female
IRS12A BSP	1/2	mm Inch		27 1,06	-	38 1,50	63,2 2,49	(F+D) -21,5 (F+D) - 0,85		30 1,18	-	Kg lb	-	0,288 0,63

FEMALE NPT THREAD (ANSI B.1.20.3)

					D	E	F		н	Ľ	J		We	eight
Description	А	Unit	В	С				G				Unit	Male	Female
IRS12A NPT	1/2	mm Inch		27 1,06		38 1,50	63,2 2,49	(F+D) - 21,5 (F+D) - 0,85	100	30 1,18	-	Kg lb	n	0,292 0,64

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