R-VSERIES

INTERCHANGE > With similar couplings IR series, ISO 7241 SERIES "A" (SIZE ½" only)





TECHNICAL FEATURES AND OPTIONS



Interchange With similar couplings IR series, ISO 7241 SERIES "A"



Sealing description Nitrile NBR



Connection system

Single acting sleeve



Available sizes from 1/4"



Carbon steel



threads BSP - NPT - SAE

Available



Operating Up to 300 bar



Locking mechanism Ball Locking



Flow rate Up to 200 I/min

Connection



Temperature (°C) -20°C / +100°C



Valving style Poppet



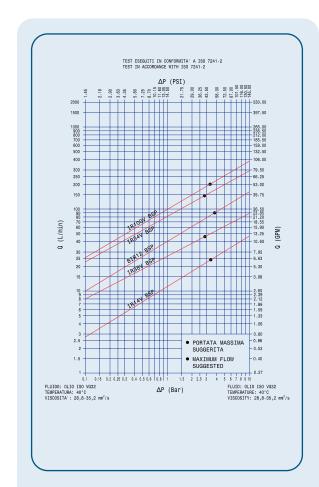
under pressure Connection: not allowed Disconnection: not allowed

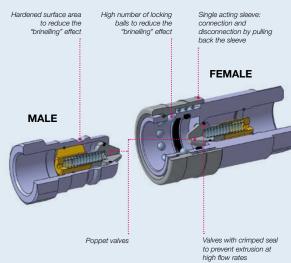
BENEFITS

- The poppet valve with elastomer seal provides maximum sealing of the couplings when disconnected.
- Shape of internal parts is designed to reduce turbulence and pressure drop.
- Compact slim design.
- · Simple to use.

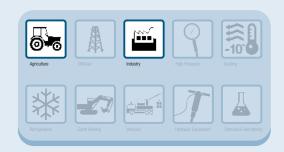
HOW TO USE

- · Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect pull back the sleeve of the female coupling, align the female with the male coupling and push one into the other until both halves are fully connected and release the sleeve.
- To disconnect push back the sleeve of the female coupling, pull out the mating half.





MAIN APPLICATIONS







PERFORMANCES

	Size	Series/Size	eries/Size Max. flow suggested		Conne	ct force	Disconn	Spillage*	
in	mm (ISO)		l/min	gpm	N	lbf	N	lbf	ml
1/4		IR14V	24	6,36	80	18,00	40	9,00	0,33
3/8		IR38V	46	12,19	120	27,00	35	7,88	1,30
1/2	12,5	BIR12**	90	23,85	70	15,75	55	12,38	2,10
3/4		IR34V	148	39,22	175	39,38	45	10,13	4,20
1		IR100V	200	53,00	210	47,25	65	14,63	5,50

Size	Series/Size		M	ax. opera	ting pressu	ire			Burst pressure						
		Coup			ale		male	Cou	ıpled	M	ale	Fer	nale		
in		MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi		
1/4	IR14V	30	4350	30	4350	30	4350	100	14500	100	14500	100	14500		
3/8	IR38V	30	4350	30	4350	30	4350	100	14500	100	14500	100	14500		
1/2	BIR12**	25	3625	25	3625	25	3625	80	11600	80	11600	100	14500		
3/4	IR34V	25	3625	25	3625	25	3625	100	14500	90	13050	100	14500		
1	IR100V	20	2900	20	2900	20	2900	80	11600	80	11600	80	11600		

^{*} Spillage is an indicative value of the fluid loss during disconnection (according to ISO norm test method).

Different possible configurations:

PL version (free flow without valve): available upon request. SAE thread upon request.

Temperature range:

Standard seals in NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F). Upon request seals in FKM (VITON®): from -15°C to +180°C (from +5 °F to +356 °F). Please read carefully Instructions and warnings for proper selection of the products.



A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects. Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not couple-uncouple with flow and/or pressure in the circuit.

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F). Check the maximum allowable working pressure of the port in use.

Make sure that the medium used is compatible with seal and material as indicated for each series.

In case of doubt please contact Stucchi Technical Support.

The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension. It is mandatory to carefully read and closely follow the instructions before selecting or using any Stucchi products.

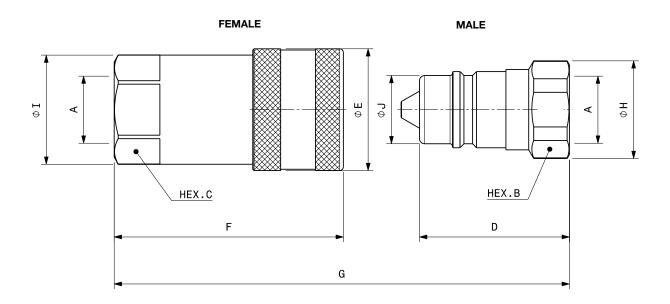
Always refer to the version uploaded in the Instructions and warning section of stucchigroup.com website for the latest release. For specific, product-related, instructions, please contact Stucchi technical service.

^{**} Size 1/2" is ISO7241-1/A interchangeable.

IR-VSERIES



OVERALL DIMENSIONS



Port description: FEMALE THREAD BSPP (ISO 1179-1)

BODY	Descriptive Code	Item (Code	ISO	PORT (A)		Overall Ler	igth		Length		Hex			Ove	rall Diam	neter	Body Diameter			Weight	
SIZE				DN			mm	in		mm	in		mm	in		mm	in		mm	in	kg	lb
1/4"	F IR14V BSP	Female 80	00100000	_	1/4"	G	65.9	2,59	F	50,4	1,98	С	19,0	0,75	I	21,0	0,83	Ε	27,0	1,06	0,12	0,25
1/4	M IR14V BSP	Male 80	00100001	_	1/4	u	00,0	2,00	D	32,5	1,28	В	19,0	0,75	Н	22,0	0,87	J	14,2	0,56	0,04	0,08
3/8"	F IR38V BSP	Female 80	00100002	_	3/8"	G	76,3	3,00	F	58,3	2,30	С	24,0	0,94	- 1	26,5	1,04	Е	34,0	1,34	0,22	0,47
0/0	M IR38V BSP	Male 80	00100003		3/0	u	70,0	3,00	D	38,0	1,50	В	24,0	0,94	Н	27,7	1,09	J	19,0	0,75	0,07	0,16
1/2"	F BIR12 BSP	Female 80	00500004	12.5	1/2"	G	86.3	3.40	F	63,3	2,49	С	27,0	1,06	1	30,0	1,18	Ε	38,0	1,50	0,25	0,54
1/2	M BIR12 BSP	Male 80	00500005	12,0	1/2	u	00,0	3,40	D	44,5	1,75	В	27,0	1,06	Н	29,0	1,14	J	20,5	0,81	0,08	0,19
3/4"	F IR34V BSP	Female 80	00100004	_	3/4"	G	118.3	4.66	F	90,3	3,56	С	38,0	1,50	- 1	43,0	1,69	Е	48,0	1,89	0,68	1,50
3/4	M IR34V BSP	Male 80	00100005	_	3/4	u	110,5	4,00	D	59,0	2,32	В	36,0	1,42	Н	38,5	1,52	J	26,9	1,06	0,19	0,41
3/4"	F IR34VFA BSP	Female 82	20000022 *		3/4"	G	106,5	4,19	F	82,0	3,23	C	38,0	1,50	1	41,8	1,65	Ε	46,3	1,82	0,49	1,07
3/4	M IR34VFA BSP	Male 82	20000023 *	-	3/4	u	100,5	4,19	D	53,0	2,09	В	34,0	1,34	Н	39,1	1,54	J	28,0	1,10	0,18	0,40
1"	F IR100V BSP	Female 80	00100006	_	1"	G	128,8	5.07	F	97,6	3,84	С	45,0	1,77	- 1	52,0	2,05	Ε	54,0	2,13	0,83	1,83
'	M IR100V BSP	Male 80	00100007	-	'	u	120,0	5,07	D	64,1	2,52	В	41,0	1,61	Н	44,8	1,76	J	31,4	1,24	0,26	0,58

^{*} alternative interchange

Port description: FEMALE THREAD NPT (ANSI B1.20.1)

BODY	Descriptive Code	Iter	m Code	ISO	PORT (A)		Overall Lei	ngth		Length		Hex			Overall Diameter			Body Diameter			Weight	
SIZE				DN			mm	in		mm	in		mm	in		mm	in		mm	in	kg	lb
1/4"	F IR14V NPT	Female	800101000	_	1/4"	G	65.9	2,59	F	50,4	1,98	С	19,0	0,75	ı	21,0	0,83	Е	27,0	1,06	0,13	0,28
1/4	M IR14V NPT	Male	800101001	-	1/4	u	00,0	2,00	D	32,5	1,28	В	19,0	0,75	Н	22,0	0,87	J	14,2	0,56	0,04	0,09
3/8"	F IR38V NPT	Female	800101002	_	3/8"	G	76.3	3.00	F	58,3	2,30	С	24,0	0,94	ı	26,5	1,04	Е	34,0	1,34	0,22	0,49
0/0	M IR38V NPT	Male	800101003		0/0	ŭ	10,0	0,00	D	38,0	1,50	В	24,0	0,94	Н	27,7	1,09	J	19,0	0,75	0,08	0,18
1/2"	F BIR12 NPT	Female	800501004	12.5	1/2"	G	86.3	3,40	F	63,3	2,49	С	27,0	1,06	ı	30,0	1,18	Ε	38,0	1,50	0,25	0,54
1/2	M BIR12 NPT	Male	800501005	12,0	1/2	ŭ	00,0	0,40	D	44,5	1,75	В	27,0	1,06	Н	29,0	1,14	J	20,5	0,81	0,08	0,19
3/4"	F IR34V NPT	Female	800101004	_	3/4"	G	118.3	4.66	F	90,3	3,56	С	38,0	1,50	ı	43,0	1,69	Е	48,0	1,89	0,66	1,46
0/1	M IR34V NPT	Male	800101005		0/4	ŭ	110,0	4,00	D	59,0	2,32	В	36,0	1,42	Н	38,5	1,52	J	26,9	1,06	0,19	0,41
1"	F IR100V NPT	Female	800101006	_	1"	G	128,8	5,07	F	97,6	3,84	С	45,0	1,77	ı	52,0	2,05	Е	54,0	2,13	0,86	1,90
'	M IR100V NPT	Male	800101007		'	ŭ	120,0	0,01	D	64,1	2,52	В	41,0	1,61	Н	44,8	1,76	J	31,4	1,24	0,28	0,61

IR-VSERIES

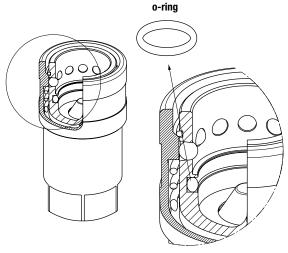




SPARE KIT SEAL FOR FEMALE

	Repair kit /	0R
Body Size	Description	Part Number
1/4"	F IR-V14	815700348
3/8"	F IR-V38	815700350
1/2"	F IR-V12	815700352
3/4"	F IR-V34	815700354
3/4"	F IR34V FA	815700734
1"	F IR-V100	815700356

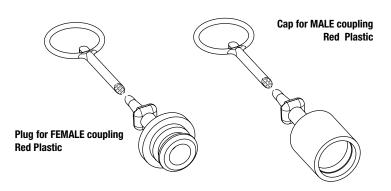
O-Ring in NBR



PROTECTIVE CAPS FOR IR-V SERIES

Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life. This is particularly important in agriculture applications where exposure to weather and aggregate materials are common.

The protective caps for IR-V series are manufactured in plastic with connection lanyard (standard color red, other colors available upon request).



Protective Cap									
Body Siz	e/Description	Part N	Material/Color						
		Plug for Female	Cap for Male						
1/4"	IR-V 14	815000000	815000001	Plastic/Red					
3/8"	IR-V 38	815000002	815000003	Plastic/Red					
1/2"	IR-V 12	815000004	815000005	Plastic/Red					
3/4"	IR-V 34	815000006	815000007	Plastic/Red					
1"	IR-V 100	815000008	815000009	Plastic/Red					