INTERCHANGE > with similar product (Nordic interface)





TECHNICAL FEATURES AND OPTIONS



Interchange With similar

product . (Nordic interface



Nitrile NBR



Connection

Single acting



Available



/treatment Carbon steel



Available threads





Operating pressure



mechanism Ball locking +









Temperature (°C) -20° / +100°



Valving style Poppet





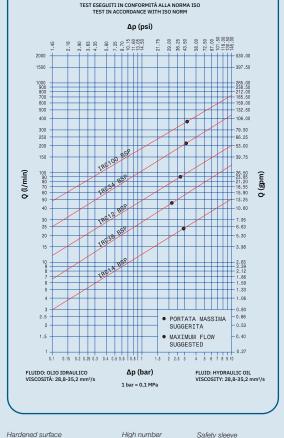
Connection: one side Disconnection: not allowed

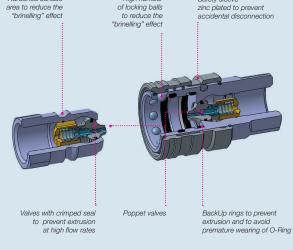
BENEFITS

- Connection under residual pressure is allowed in the male or in the female (PC version). Please notice that the counterpart side should be drained and should use a standard poppet half.
- The poppet valve with elastomer seal provides maximum sealing of the couplings once disconnected.
- 0-Ring + BackUp ring for optimum protection sealing.
- The Zinc Nickel plating ensures high resistance to corrosion and it is ideal for hydraulic equipment applications where an improved corrosion resistance is necessary.
- · Additional O-Ring for extra sealing capacity and to contain spray effect to avoid soil contamination.
- High durability.
- Reference products for tough applications, typically used in Nordic countries.
- Safety sleeve to prevent accidental disconnection.
- Shape of internal parts is optimized to reduce turbulence and pressure drop.
- · High resistance to pressure impulses.
- Compact 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 avoid accidental disconnection rotate safety sleeve.
- To disconnect: unlock the safety sleeve and pull back the sleeve of the female coupling, pull out the mating half.





This image represents PC version (release pressure device system)

MAIN APPLICATIONS





PERFORMANCES

Si	ize	Series/Size	Max. flow	suggested	Conne	ct force	Disconn	ect force	Spillage*		
Inch	mm		l/min	gpm	N	lbf	N	lbf	ml		
1/4	6.3	IRC14	24	6,36	60	13,49	30	6,74	1,1		
3/8	10	IRC38	46	12,19	90	20,23	35	7,87	2,5		
1/2	12,5	IRC12	90	23,85	120	26,98	35	7,87	3,5		
3/4	20	IRC34	212	56,18	170	38,22	45	10,12	15		
1	25	IRC100**	378	100,17	210	47,21	45	10,12	18		

Size	Series/Size		Ma	x. opera	ting pressu	re		Burst pressure							
		Coupled			lale :		male	Cou	ıpled	M	ale	Female			
Inch	Steel	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi		
1/4	IRC14	45	6525	30	4350	30	4350	180	26100	120	17400	120	17400		
3/8	IRC38	35	5075	28	4060	28	4060	130	18850	110	15950	110	15950		
1/2	IRC12	33	4785	25	3625	25	3625	110	15950	100	14500	100	14500		
3/4	IRC34	33	4785	25	3625	25	3625	100	14500	80	11600	80	11600		
1	IRC100**	33	4785	25	3625	25	3625	100	14500	100	14500	100	14500		

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

Different possible configurations:

PC version, connectable under residual pressure.

PL version, free flow.

SAE thread available upon request.

For complete technical information please contact Stucchi Technical Support.

Temperature range:

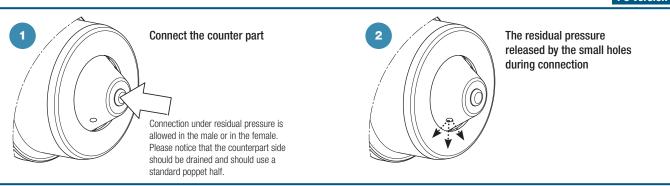
Seals in NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F). Upon request seals in VITON®: from -15°C to +180°C (from +5 °F to +356 °F). Please read carefully Instructions and warnings for proper selection of the products.

Tests performed:

The couplings have been tested according to ISO norm.

The couplings have been tested at max. operating pressure for 200.000 impulses in coupled position and 100.000 impulses in uncoupled position.

PC version



WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects. Connect under pressure products (PC version) are suitable to be connected under residual (static) pressure.

Connect under pressure products' (PC version) are suitable to be connected under residual (static) pressure.

Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not couple-uncouple with flow and pressure in the circuit (except PC version).

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

Do not use the coupling disconnected with high impulse pressure.

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.

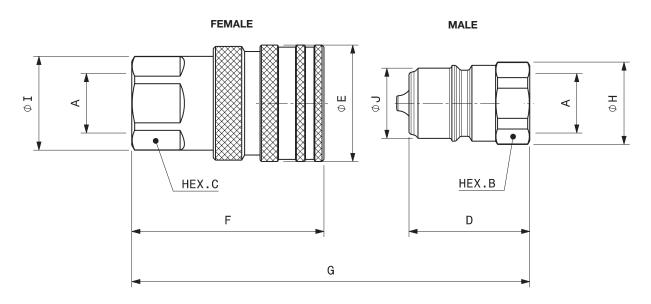
Always refer to the version uploaded in the Instructions and warning section of stucchigroup.com website for the latest release.

For specific, product-related, instructions, please contact Stucchi technical service.

^{**} Specific dimensions of Stucchi IRC series are certified with Lloyd Type Approval in accordance with API 16D at specific rating pressure of 207 bar/3000 PSI. For complete technical information please contact Stucchi Technical Support.



OVERALL DIMENSIONS



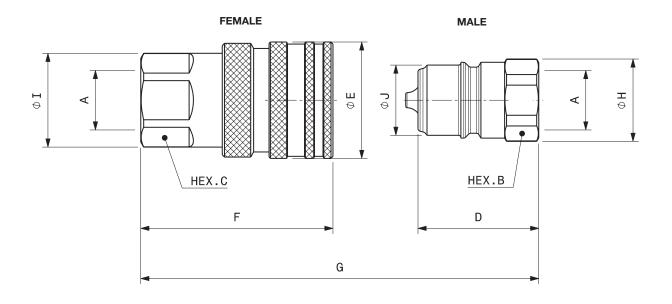
Port description: FEMALE THREAD BSPP (ISO 1179-1)

BODY	Descriptive Code	Item Code	PORT (A)		Overall Le	ıgth		Length			Hex			Diamete	r		Diamete	r	Weig	ght
SIZE					mm	inch	<u> </u>	mm	inch		mm	inch		mm	inch		mm	inch	Kg	Lbs
1/4"	F IRC14 BSP	Female 81210000	1/4"	_	81.7	3,22	F	60,0	2,36	С	21,0	0,83	1	21,0	0,83	Ε	26,0	1,02	0,15	0,32
1/4	M IRC14 BSP	Male 81210000		G	01,1	3,22	D	48,2	1,90	В	19,0	0,75	Н	21,0	0,83	J	12,0	0,47	0,05	0,11
3/8"	F IRC38 BSP	Female 81210000	3/8"	C	76.4	3.01	F	61,6	2,43	С	24,0	0,94	-1	26,0	1,02	Ε	35,0	1,38	0,22	0,48
3/0	M IRC38 BSP	Male 81210000		u	70,4	3,01	D	38,0	1,50	В	22,0	0,87	Н	24,0	0,94	J	19,9	0,78	0,06	0,12
1/2"	F IRC12 BSP	Female 81210000	1/2"	G	85.2	3,35	F	67,6	2,66	С	30,0	1,18	1	33,0	1,30	Ε	41,0	1,61	0,33	0,72
1/2	M IRC12 BSP	Male 81210000		u	05,2	0,00	D	42,5	1,67	В	27,0	1,06	Н	29,0	1,14	J	24,7	0,97	0,10	0,21
3/4"	F IRC34 BSP	Female 81210000	3/4"	G	94.6	3.72	F	76,2	3,00	С	38,0	1,50	1	41,6	1,64	Ε	52,0	2,05	0,58	1,27
3/4	M IRC34 BSP	Male 81210000		u	34,0	3,72	D	47,0	1,85	В	36,0	1,42	Н	39,0	1,54	J	32,7	1,29	0,19	0,41
1"	F IRC100 BSP	Female 81210000	3 1,"	G	113,4	4,46	F	92,0	3,62	С	45,0	1,77	1	48,0	1,89	Ε	62,0	2,44	0,97	2,14
1	M IRC100 BSP	: Male 81210000	9. '	u	113,4	7,40	D	56,5	2,22	В	45,0	1,77	Н	48,0	1,89	J	40,9	1,61	0,35	0,77

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

Port des	scripti	on: FEMALE TH	READ BSPP (ISO	1179-1)						P	C ve	rsion	рорре	et sea	ıling sy	stem	conn	ectabl	e und	ler pres	ssure
BOD'	Υ	Descriptive Code	Item Code	PORT (A)		Overall Le	ıgth		Length			Hex			Diamete			Diamete	r	Weig	ght
SIZI	E					mm	inch		mm	inch		mm	inch		mm	inch		mm	inch	Kg	Lbs
3/8	,,	F IRC38PC BSP	Female 812100010	3/8"	G	76.4	3.01	F	61,6	2,43	С	24,0	0,94	1	26,0	1,02	Е	35,0	1,38	0,22	0,48
5/0		M IRC38PC BSP	Male 812100011		u	10,4	3,01	D	38,0	1,50	В	22,0	0,87	Н	24,0	0,94	J	19,9	0,78	0,06	0,12
1/2	,,	F IRC12PC BSP	Female 812100012	1/2"	G	85.2	3.35	F	67,6	2,66	С	30,0	1,18	-1	33,0	1,30	Е	41,0	1,61	0,33	0,72
1/2		M IRC12PC BSP	Male 812100013		u	00,2	0,00	D	42,5	1,67	В	27,0	1,06	Н	29,0	1,14	J	24,7	0,97	0,10	0,21
3/4	"	F IRC34PC BSP	Female 812100014	3/4"	G	94.6	3.72	F	76,2	3,00	С	38,0	1,50	1	41,6	1,64	Ε	52,0	2,05	0,58	1,27
3/4		M IRC34PC BSP	Male 812100015		u	J 1 ,0	0,72	D	47,0	1,85	В	36,0	1,42	Н	39,0	1,54	J	32,7	1,29	0,19	0,41
1"		F IRC100PC BSP	Female 812100016	1"	G	113.4	4.46	F	92,0	3,62	С	45,0	1,77	Т	48,0	1,89	Е	62,0	2,44	0,97	2,14
		M IRC100PC BSP	Male 812100017	'	u	110,4	7,70	D	56,5	2,22	В	45,0	1,77	Н	48,0	1,89	J	40,9	1,61	0,35	0,77





Port description: FEMALE THREAD NPTF (ANSI B.1.20.3)

BODY	Descriptive Code	Item Code	PORT (A)		Overall Le	ngth		Length			Hex			Diamete	r		Diamete	er	Weig	ht
SIZE					mm	inch		mm	inch		mm	inch		mm	inch		mm	inch	Kg	Lbs
1/4"	F IRC14 NPTF	Female 8121020	1/4"	G	81.7	3.22	F	60,0	2,36	С	21,0	0,83	I	21,0	0,83	Ε	26,0	1,02	0,15	0,32
1/4	M IRC14 NPTF	Male 8121020		u	01,1	5,22	D	48,2	1,90	В	19,0	0,75	Н	21,0	0,83	J	12,0	0,47	0,05	0,11
3/8"	F IRC38 NPTF	Female 812102 0	0 2 3/8"	G	76.4	3.01	F	61,6	2,43	С	24,0	0,94	-	26,0	1,02	Ε	35,0	1,38	0,22	0,49
3/0	M IRC38 NPTF	Male 812102 0		u	70,4	3,01	D	38,0	1,50	В	22,0	0,87	Н	24,0	0,94	J	19,9	0,78	0,06	0,13
1/2"	F IRC12 NPTF	Female 812102 0	1/2"	G	85.2	3,35	F	67,6	2,66	С	30,0	1,18	1	33,0	1,30	Ε	41,0	1,61	0,33	0,72
1/2	M IRC12 NPTF	Male 8121020		u	05,2	0,00	D	42,5	1,67	В	27,0	1,06	Н	29,0	1,14	J	24,7	0,97	0,10	0,22
3/4"	F IRC34 NPTF	Female 812102 0	06 _{3/4"}	G	94.6	3.72	F	76,2	3,00	С	38,0	1,50	ı	41,6	1,64	Ε	52,0	2,05	0,58	1,27
J/4	M IRC34 NPTF	Male 812102 0		u	34,0	5,72	D	47,0	1,85	В	36,0	1,42	Н	39,0	1,54	J	32,7	1,29	0,19	0,42
1"	F IRC100 NPTF	Female 8121020	08 1,"	C	113,4	4,46	F	92,0	3,62	С	45,0	1,77	1	48,0	1,89	Ε	62,0	2,44	0,97	2,14
'	M IRC100 NPTF	Male 8121020	09 '	և	113,4	7,40	D	56,5	2,22	В	45,0	1,77	Н	48,0	1,89	J	40,9	1,61	0,35	0,78

Port description: FEMALE THREAD NPTF (ANSI B.1.20.3)

Port descripti	on: FEMALE TH	READ NPTF (AN	SI B.1.20	.3)					P	C ve	ersion	рорре	et sea	aling sy	stem (conn	ectabl	e und	ler pres	ssure
BODY	Descriptive Code	Item Code	PORT (A)		Overall Ler	ıgth		Length			Hex			Diamete	r		Diamete	er	Weig	ght
SIZE					mm	inch		mm	inch		mm	inch		mm	inch		mm	inch	Kg	Lbs
3/8"	F IRC38PC NPTF	Female 812102010*	3/8"	C	76.4	3.01	F	61,6	2,43	С	24,0	0,94	1	26,0	1,02	Ε	35,0	1,38	0,22	0,49
3/0	M IRC38PC NPTF	Male 812102011 *		u	70,4	3,01	D	38,0	1,50	В	22,0	0,87	Н	24,0	0,94	J	19,9	0,78	0,06	0,13
1/2"	F IRC12PC NPTF	Female 812102012	1/2"	C	85.2	3.35	F	67,6	2,66	С	30,0	1,18	-	33,0	1,30	Ε	41,0	1,61	0,33	0,72
1/2	M IRC12PC NPTF	Male 812102013	1/2	u	00,2	0,00	D	42,5	1,67	В	27,0	1,06	Н	29,0	1,14	J	24,7	0,97	0,10	0,22
3/4"	F IRC34PC NPTF	Female 812102014	3/4"	G	94.6	3,72	F	76,2	3,00	С	38,0	1,50	-	41,6	1,64	Ε	52,0	2,05	0,58	1,27
5/4	M IRC34PC NPTF	Male 812102015	3/4	u	JT,U	0,72	D	47,0	1,85	В	36,0	1,42	Н	39,0	1,54	J	32,7	1,29	0,19	0,42
1"	F IRC100PC NPTF	Female 812102016	1"	G	113.4	4.46	F	92,0	3,62	С	45,0	1,77	-1	48,0	1,89	Ε	62,0	2,44	0,97	2,14
	M IRC100PC NPTF	Male 812102017	'	u	110,4	7,70	D	56,5	2,22	В	45,0	1,77	Н	48,0	1,89	J	40,9	1,61	0,35	0,78

^{*} Available upon request.

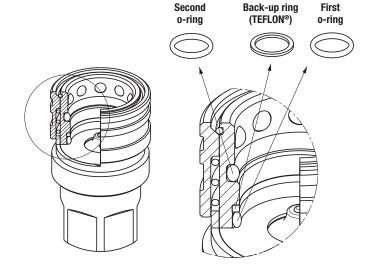




SPARE PARTS: SEAL KIT FOR FEMALE

	Repair kit / OR+BK	
Body Size	NBR Version Description	Part Number
1/4"	F IRC14	815700700
3/8"	F IRC38	815700702
1/2"	F IRC12	815700704
3/4"	F IRC34	815700706
1"	F IRC100	815700708

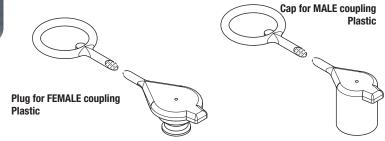
BackUp ring in Teflon®



PROTECTIVE CAPS FOR IRC 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 mobile applications where exposure to weather and aggregate materials are common.

The protective caps for IRC couplings are manufactured in plastic with connection lanyard.



Protective Cap												
Body Size	/Description	Part N	Material/Color									
		Plug for Female	Cap for Male									
1/4"	IRC14	815009042	815009043	Plastic/Grey								
3/8"	IRC38	815009044	815009045	Plastic/Grey								
1/2"	IRC12	815009046	815009047	Plastic/Grey								
3/4"	IRC34	815009048	815009049	Plastic/Grey								
1"	IRC100	815009050	815009051	Plastic/Grey								

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