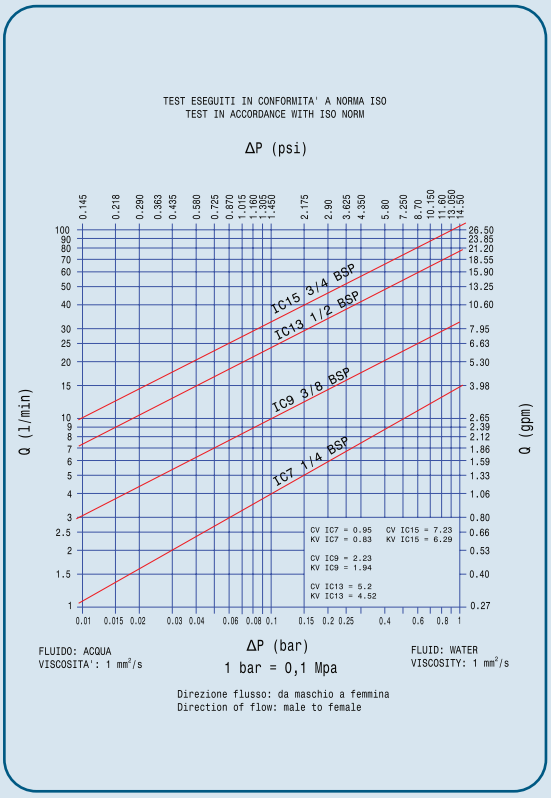
IC Series

SPECIAL SERIES

Stucchi®





Technical specifications and options

Interchange
Stucchi profile

Sealing description
EPDM, FKM (Viton®)

Connection system
Single acting sleeve

Available sizes
1/4", 3/8", 1/2", 5/8"
(7, 9, 13, 15 mm)

Material /treatment
Aluminum with hard oxidation

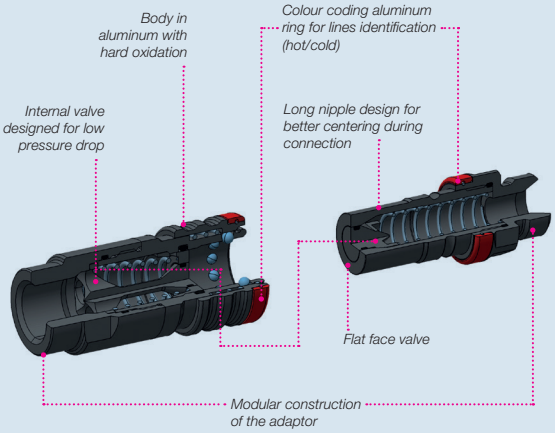
Available threads
BSP

Max. operating pressure
Up to 40 bar

Locking mechanism
Locking ball

Temperature
-40°C / +150°C

Valving style
Flat face



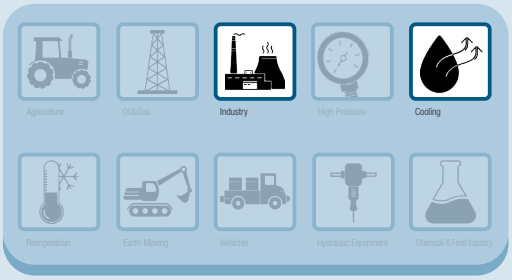
Benefits

- Optimal solution for liquid cooling system.
- Made in aluminium for lightweight operation.
- Optimized pressure drop design.
- Color coding aluminum ring for line identification.
- Drain version for pressure release available as option.
- Provided with EPDM seal for water-based fluids.
- Optional seal kit (O-ring and aluminium ring) to be assembled on BSP external port.
- Flat face is easy to clean, without inclusion of contamination inside the cooling circuit.
- Minimal fluid spillage during disconnection, without fluid spillage to the environment.
- Minimal air inclusion during connection.
- The modular design allows flexibility for a wide range of port configurations.
- Optimal resistance to corrosion for a longer product life.
- Compact slim design.
- Safe and 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 pull back the sleeve of the female coupling, pull out the mating half.

MAIN APPLICATIONS



IC Series
SPECIAL SERIES

Stucchi®

Performances

Size	Series	Nominal size	Connect force		Disconnect force		Spillage*	Max. operating pressure						Burst pressure**					
								Coupled		Female		Male		Coupled		Female		Male	
inch		mm	N	lbf	N	lbf	ml	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
1/4	IC7	7	44	9,9	19	4,3	0,00	4	580	4	580	4	580	16	2320	16	2320	16	2320
3/8	IC9	9	92	20,7	24	5,4	0,01	2	290	2	290	2	290	8	1160	8	1160	8	1160
1/2	IC13	13	156	35,1	35	7,9	0,01	2	290	2	290	2	290	8	1160	8	1160	8	1160
5/8	IC15	15	139	31,3	47	10,6	0,009	2	290	2	290	2	290	8	1160	8	1160	8	1160

* Spillage is an indicative value of the fluid loss per couple-uncouple cycle (according to ISO norm test method).
** Minimum burst value.

Temperature range:
Seals in EPDM (Ethylene Propylene): from -40°C to +150°C (from -40 °F to +302 °F).
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.

Tests performed:
The couplings have been tested according to ISO norm test method.



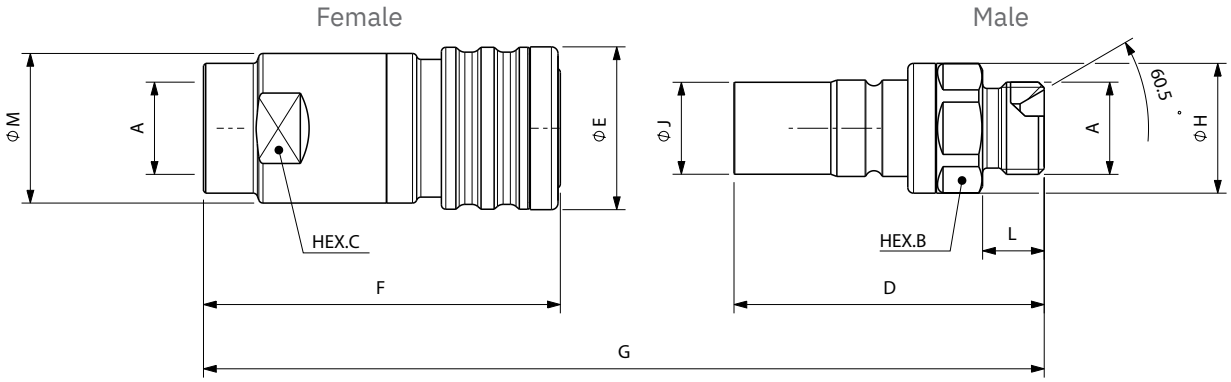
WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.
It is advised to release the pressure before connect and disconnect the parts.
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.
Do not use with fluids below the freezing point to avoid damages due to ice expansion and consequential extrusion of the valving.
In case of doubt please contact Stucchi Technical Support.
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.

IC Series
SPECIAL SERIES

Stucchi®

Overall dimensions



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

BODY SIZE	Descriptive code	Item code		Port (A)	Overall length			Length			Wrench flat			Diameter			Diameter			Weight	
						mm	in		mm	in		mm	in		mm	in		mm	in	kg	lb
1/4”	F IC7R 1/4 BSP	Female Red	813500200	1/4”	G	77,0	3,03	F	54,5	2,15	C	18,0	0,71	E	26,0	1,02	M	19,8	0,78	0,04	0,09
1/4”	F IC7B 1/4 BSP	Female Blue	813500234	1/4”	G	77,0	3,03	F	54,5	2,15	C	18,0	0,71	E	26,0	1,02	M	19,8	0,78	0,04	0,09
1/4”	F IC7N 1/4 BSP	Female Neutral	813500268	1/4”	G	77,0	3,03	F	54,5	2,15	C	18,0	0,71	E	26,0	1,02	M	19,8	0,78	0,04	0,09
3/8”	F IC9R 3/8 BSP	Female Red	813500208	3/8”	G	85,5	3,37	F	59,5	2,34	C	21,0	0,83	E	31,0	1,22	M	25,1	0,99	0,06	0,13
3/8”	F IC9B 3/8 BSP	Female Blue	813500242	3/8”	G	85,5	3,37	F	59,5	2,34	C	21,0	0,83	E	31,0	1,22	M	25,1	0,99	0,06	0,13
3/8”	F IC9N 3/8 BSP	Female Neutral	813500276	3/8”	G	85,5	3,37	F	59,5	2,34	C	21,0	0,83	E	31,0	1,22	M	25,1	0,99	0,06	0,13
1/2”	F IC13R 1/2 BSP	Female Red	813500216	1/2”	G	112,8	4,44	F	81,1	3,19	C	30,0	1,18	E	37,0	1,46	M	34,0	1,34	0,11	0,24
1/2”	F IC13B 1/2 BSP	Female Blue	813500250	1/2”	G	112,8	4,44	F	81,1	3,19	C	30,0	1,18	E	37,0	1,46	M	34,0	1,34	0,11	0,24
1/2”	F IC13N 1/2 BSP	Female Neutral	813500284	1/2”	G	112,8	4,44	F	81,1	3,19	C	30,0	1,18	E	37,0	1,46	M	34,0	1,34	0,11	0,24
5/8”	F IC15R 3/4 BSP	Female Red	813500224	3/4”	G	135,7	5,34	F	99,0	3,90	C	36,0	1,42	E	41,5	1,63	M	39,5	1,56	0,19	0,42
5/8”	F IC15B 3/4 BSP	Female Blue	813500258	3/4”	G	135,7	5,34	F	99,0	3,90	C	36,0	1,42	E	41,5	1,63	M	39,5	1,56	0,19	0,42
5/8”	F IC15N 3/4 BSP	Female Neutral	813500292	3/4”	G	135,7	5,34	F	99,0	3,90	C	36,0	1,42	E	41,5	1,63	M	39,5	1,56	0,19	0,42

Port description: MALE THREAD BSP (ISO 8434-6) - Seal in EPDM

BODY SIZE	Descriptive code	Item code		Port (A)	Overall length			Length			Hex			Diameter			Diameter			Weight	
						mm	in		mm	in		mm	in		mm	in		mm	in	kg	lb
1/4”	M IC7R 1/4 BSP EXT	Male Red	813517201	1/4”	G	77,0	3,03	D	43,5	1,71	B	17,0	0,67	H	18,5	0,73	J	10,5	0,41	0,01	0,02
1/4”	M IC7B 1/4 BSP EXT	Male Blue	813517235	1/4”	G	77,0	3,03	D	43,5	1,71	B	17,0	0,67	H	18,5	0,73	J	10,5	0,41	0,01	0,02
1/4”	M IC7N 1/4 BSP EXT	Male Neutral	813517269	1/4”	G	77,0	3,03	D	43,5	1,71	B	17,0	0,67	H	18,5	0,73	J	10,5	0,41	0,01	0,02
3/8”	M IC9R 3/8 BSP EXT	Male Red	813517209	3/8”	G	85,5	3,37	D	52,5	2,07	B	21,0	0,83	H	23,5	0,93	J	15,3	0,60	0,022	0,05
3/8”	M IC9B 3/8 BSP EXT	Male Blue	813517243	3/8”	G	85,5	3,37	D	52,5	2,07	B	21,0	0,83	H	23,5	0,93	J	15,3	0,60	0,022	0,05
3/8”	M IC9N 3/8 BSP EXT	Male Neutral	813517277	3/8”	G	85,5	3,37	D	52,5	2,07	B	21,0	0,83	H	23,5	0,93	J	15,3	0,60	0,022	0,05
1/2”	M IC13R 1/2 BSP EXT	Male Red	813517217	1/2”	G	112,8	4,44	D	70,5	3,19	B	27,0	1,06	H	29,50	1,16	J	21,4	0,84	0,05	0,11
1/2”	M IC13B 1/2 BSP EXT	Male Blue	813517251	1/2”	G	112,8	4,44	D	70,5	3,19	B	27,0	1,06	H	29,50	1,16	J	21,4	0,84	0,05	0,11
1/2”	M IC13N 1/2 BSP EXT	Male Neutral	813517285	1/2”	G	112,8	4,44	D	70,5	3,19	B	27,0	1,06	H	29,50	1,16	J	21,4	0,84	0,05	0,11
1/2”	M IC13RD 1/2 BSP EXT*	Male Red	813517219	1/2”	G	112,8	4,44	D	70,5	3,19	B	27,0	1,06	H	29,50	1,16	J	21,4	0,84	0,05	0,11
1/2”	M IC13BD 1/2 BSP EXT*	Male Blue	813517253	1/2”	G	112,8	4,44	D	70,5	3,19	B	27,0	1,06	H	29,50	1,16	J	21,4	0,84	0,05	0,11
1/2”	M IC13ND 1/2 BSP EXT*	Male Neutral	813517287	1/2”	G	112,8	4,44	D	70,5	3,19	B	27,0	1,06	H	29,50	1,16	J	21,4	0,84	0,05	0,11
5/8”	M IC15R 3/4 BSP EXT	Male Red	813517225	3/4”	G	135,7	5,34	D	81,5	3,21	B	30,0	1,18	H	33,5	1,32	J	23,8	0,94	0,077	0,17
5/8”	M IC15B 3/4 BSP EXT	Male Blue	813517259	3/4”	G	135,7	5,34	D	81,5	3,21	B	30,0	1,18	H	33,5	1,32	J	23,8	0,94	0,077	0,17
5/8”	M IC15N 3/4 BSP EXT	Male Neutral	813517293	3/4”	G	135,7	5,34	D	81,5	3,21	B	30,0	1,18	H	33,5	1,32	J	23,8	0,94	0,077	0,17
5/8”	M IC15RD 3/4 BSP EXT*	Male Red	813517227	3/4”	G	135,7	5,34	D	81,5	3,21	B	30,0	1,18	H	33,5	1,32	J	23,8	0,94	0,077	0,17
5/8”	M IC15BD 3/4 BSP EXT*	Male Blue	813517261	3/4”	G	135,7	5,34	D	81,5	3,21	B	30,0	1,18	H	33,5	1,32	J	23,8	0,94	0,077	0,17
5/8”	M IC15ND 3/4 BSP EXT*	Male Neutral	813517295	3/4”	G	135,7	5,34	D	81,5	3,21	B	30,0	1,18	H	33,5	1,32	J	23,8	0,94	0,077	0,17

Different seals configurations

BODY SIZE	Port (A)	EPDM seal		FKM (Viton®) seal	
		Item code	Descriptive code	Item code	Descriptive code
1/4”	1/4”	813500200	F IC7R 1/4 BSP	813500100	F IC7RV 1/4 BSP
3/8”	3/8”	813500208	F IC9R 3/8 BSP	813500108	F IC9RV 3/8 BSP
1/2”	1/2”	813500216	F IC13R 1/2 BSP	813500116	F IC13RV 1/2 BSP
5/8”	3/4”	813500224	F IC15R 3/4 BSP	813500124	F IC15RV 3/4 BSP
1/4”	1/4”	813517201	M IC7R 1/4 BSP EXT	813517101	M IC7RV 1/4 BSP EXT
3/8”	3/8”	813517209	M IC9R 3/8 BSP EXT	813517109	M IC9RV 3/8 BSP EXT
1/2”	1/2”	813517217	M IC13R 1/2 BSP EXT	813517117	M IC13RV 1/2 BSP EXT
5/8”	3/4”	813517225	M IC15R 3/4 BSP EXT	813517125	M IC15RV 3/4 BSP EXT

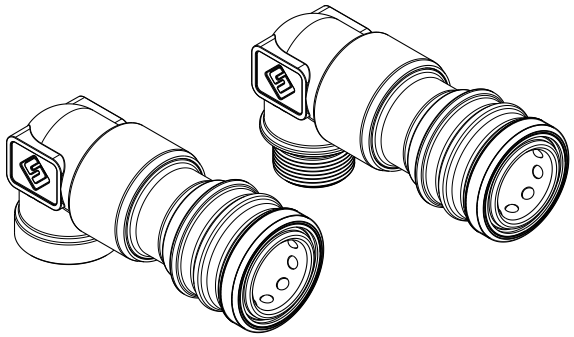
90° Version

IC couplings may also be provided, upon request, with 90° termination fitting.

This version is ideal for applications with less space that requires a compact design and it guarantees the correct bending of the hose.

The fitting could be provided with internal or external threaded port.

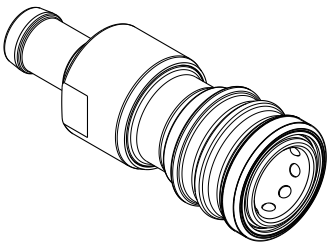
For specific codes, configuration or any other information, please contact Stucchi Technical Support.



Hose barb configuration

IC couplings may also be provided, upon request, with hose barb termination fitting in order to be connected with rubber hoses.

For specific codes, configuration or any other information, please contact Stucchi Technical Support.

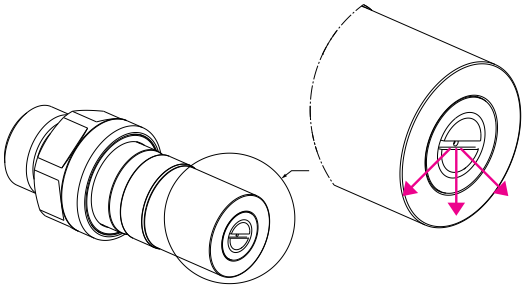


Drain version

Circuits with couplings in disconnected position may be exposed to overpressure caused by thermal variation with consequential liquid expansion.

The D (= drain) version of the IC male is solving this issue by draining outside such residual pressure. Part numbers may be found in the code table above (male IC13D and male IC15D).

For configurations or any other information, please contact Stucchi Technical Support.

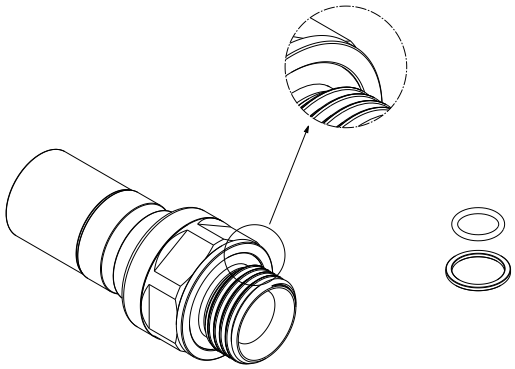


Seal kit for BSP external port

Seal kit for male thread not included - available separately upon request.

EPDM O-Ring with aluminum ring seal kits				
Body size	Description	Port	Ring external diameter	Part number
7	PORT SEAL KIT OR + RING 1/4	1/4 BSP EXT	19,5	815701375
9	PORT SEAL KIT OR + RING 3/8	3/8 BSP EXT	23,5	815701376
13	PORT SEAL KIT OR + RING 1/2	1/2 BSP EXT	28,5	815701377
15	PORT SEAL KIT OR + RING 3/4	3/4 BSP EXT	34,5	815701362

FKM (Viton®) O-Ring with aluminum ring seal kits				
Body size	Description	Port	Ring external diameter	Part number
7	PORT SEAL KIT OR+RING IC7V	1/4 BSP EXT	19,5	815701393
9	PORT SEAL KIT OR+RING IC9V	3/8 BSP EXT	23,5	815701394
13	PORT SEAL KIT OR+RING IC13V	1/2 BSP EXT	28,5	815701395
15	PORT SEAL KIT OR+RING IC15V	3/4 BSP EXT	34,5	815701392



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