



STUCCHI
Innesti Rapidi
Faccia piana



 HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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FIRG SERIES

INTERCHANGE > ISO 16028 - NFPA T3.20.15 - HTMA (size 3/8")



Stucchi®

FLAT FACE



TECHNICAL FEATURES AND OPTIONS

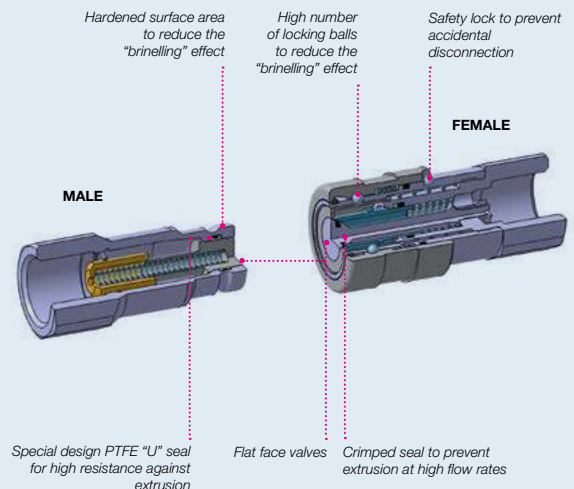
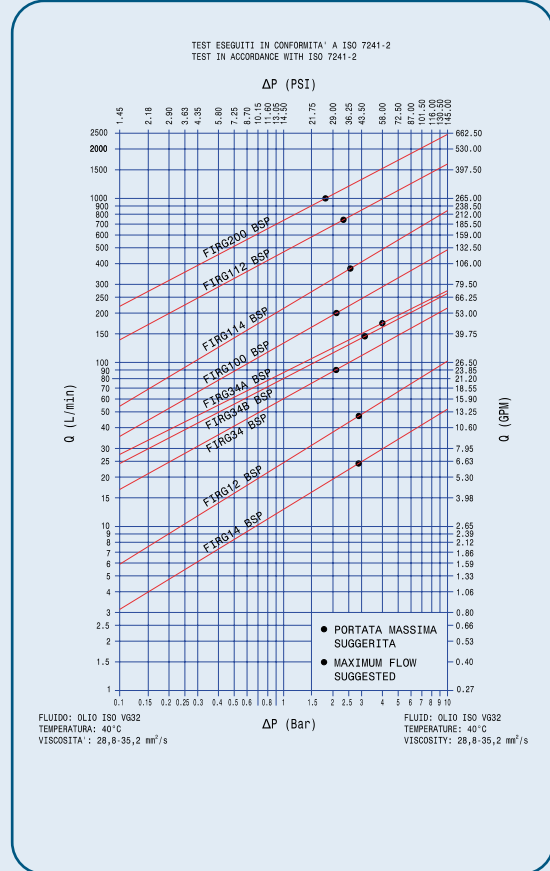
Interchange ISO 16028 NFPA T3.20.15 HTMA (size 3/8")	Sealing description Nitrile NBR	Connection system Push
Available sizes from 1/4" to 2"	Material /treatment Carbon steel /Cr3	Available threads BSP - NPT - BSPT - SAE
Operating pressure Up to 330 bar	Locking mechanism Locking ball + Safety Lock	Flow rate Up to 1000 l/min
Temperature (°C) -20°C / +100°C	Valving style Flat face	Connection under pressure Connection: not allowed Disconnection: not allowed

BENEFITS

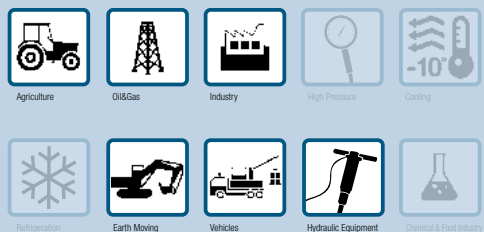
- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection, enhancing correct function of the circuit.
- Linear flow reduces internal turbulence and pressure drop maintaining circuit efficiency.
- Good resistance to pressure impulses when the couplings are connected.
- 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 push the male half towards the female half or vice versa.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect turn the external sleeve until the sleeve lock notch match the safety lock ball and push back the sleeve.



MAIN APPLICATIONS



PERFORMANCES

Size		Series/Size		Max. flow suggested		Connect force		Disconnect force		Spillage*
in	mm (ISO)	OLD	NEW	l/min	gpm	N	lbf	N	lbf	ml
1/4	6,3	FIRG14	FIRG7	24	6,36	140	31,50	40	9,00	0,01
3/8	10,0	FIRG38-12	FIRG9	46	12,19	150	33,75	40	9,00	0,01
1/2	12,5	FIRG12A-34	FIRG13	90	23,85	160	36,00	60	13,50	0,02
5/8	16,0	FIRG34B	FIRG15	148	39,22	180	40,50	55	12,38	0,02
3/4	19,0	FIRG34A	FIRG17 3/4	170	45,05	270	60,75	90	20,25	0,03
3/4	19,0	FIRG100	FIRG17 1	200	53,00	240	54,00	65	14,63	0,03
1	25,0	FIRG114	FIRG21	378	100,17	310	69,75	100	22,50	0,03
1-1/2		FIRG112	FIRG30	750	198,75	390	87,75	90	20,25	0,05
2		FIRG200	FIRG45	1000	265,00	470	105,75	100	22,50	0,1

Size	Series/Size		Max. operating pressure						Burst pressure					
			Coupled		Male		Female		Coupled		Male		Female	
in	OLD	NEW	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
1/4	FIRG14	FIRG7	30	4350	42	6090	12	1740	120	17400	126	18270	48	6960
3/8	FIRG38-12	FIRG9	30	4350	30	4350	12	1740	120	17400	120	17400	48	6960
1/2	FIRG12A-34	FIRG13	25	3625	25	3625	10	1450	100	14500	100	14500	40	5800
5/8	FIRG34B	FIRG15	25	3625	22	3190	10	1450	100	14500	88	12760	40	5800
3/4	FIRG34A	FIRG17 3/4	33	4785	33	4785	33	4785	100	14500	100	14500	100	14500
3/4	FIRG100	FIRG17 1	25	3625	20	2900	10	1450	100	14500	80	11600	40	5800
1	FIRG114	FIRG21	25	3625	20	2900	10	1450	100	14500	80	11600	40	5800
1-1/2	FIRG112	FIRG30	20	2900	27	3915	8	1160	80	11600	80	11600	32	4640
2	FIRG200	FIRG45	20	2900	16	2320	8	1160	80	11600	64	9280	32	4640

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

Different possible configurations:
BSPT thread available upon request.

Temperature range:

Standard seals 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.

Tests:

The couplings have been tested at max. operating pressure for 100.000 impulses according to ISO norm.

! WARNING

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 use the female coupling disconnected with high impulse pressure.

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).

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.

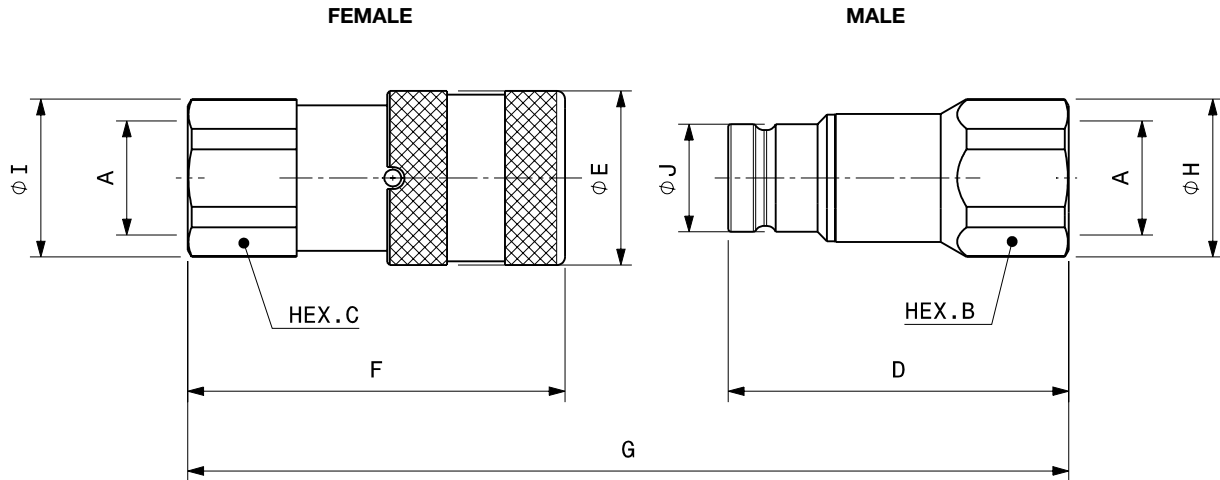
The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.

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.

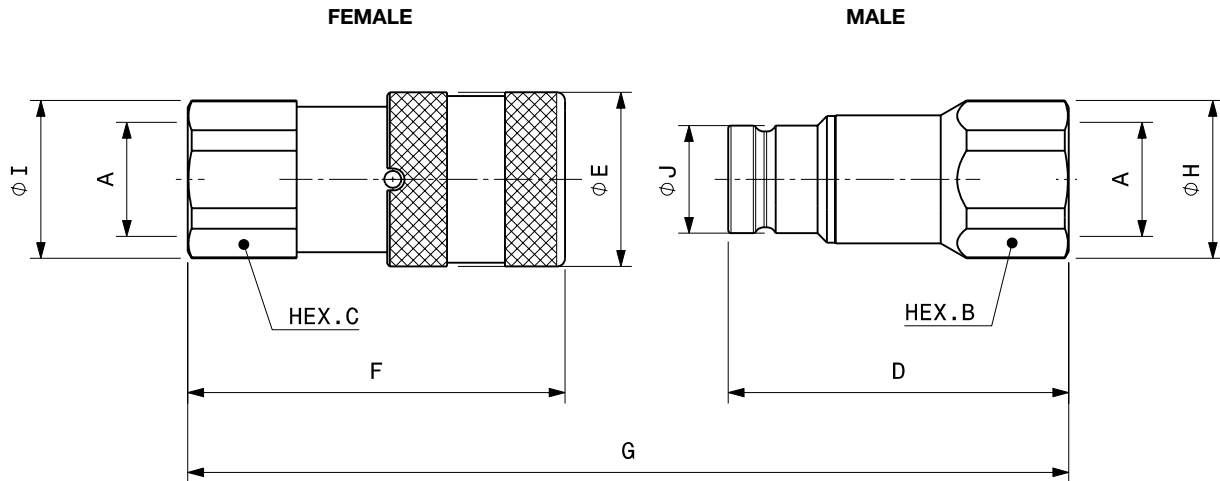
For specific, product-related, instructions, please contact Stucchi technical service.

OVERALL DIMENSIONS



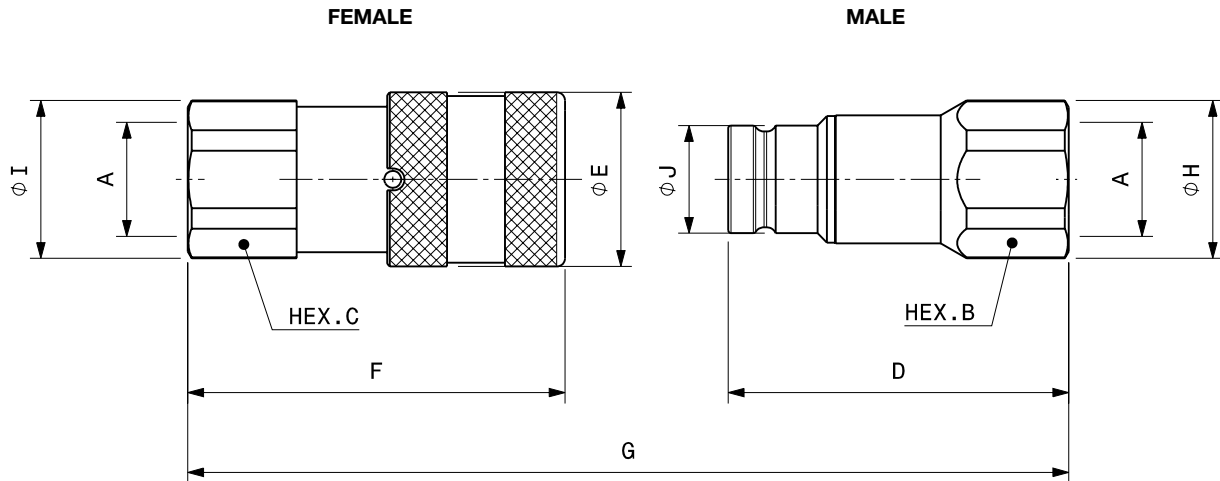
Port description: FEMALE THREAD BSPP (ISO1179-1)

BODY SIZE	Descriptive Code		Item Code	ISO DN	PORT (A)	Overall Length	Length		Hex		Diameter		Diameter		PORT (A)					
	OLD	NEW					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb		
1/4"	F FIRG 14 BSP	F FIRG7 1/4 BSP	Female 800800000	6,3	1/4"	G 85,2	F	48,1	1,89	C	22,0	0,87	I	23,8	0,94	E	28,0	1,10	0,14	0,31
	M FIRG 14 BSP	M FIRG7 1/4 BSP	Male 800800001				D	47,9	1,89	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63	0,09	0,19
3/8"	F FIRG 38 BSP	F FIRG9 3/8 BSP	Female 800800004	10	3/8"	G 108,7	F	64,2	2,53	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,24	0,52
	M FIRG 38 BSP	M FIRG9 3/8 BSP	Male 800800005				D	60,0	2,36	B	24,0	0,94	H	26,0	1,02	J	19,7	0,78	0,12	0,27
3/8"	F FIRG 12 BSP	F FIRG9 1/2 BSP	Female 800800002	10	1/2"	G 116,2	F	69,2	2,72	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,24	0,52
	M FIRG 12 BSP	M FIRG9 1/2 BSP	Male 800800003				D	62,5	2,46	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,13	0,28
1/2"	F FIRG 12A BSP	F FIRG13 1/2 BSP	Female 800800006	12,5	1/2"	G 124,5	F	73,8	2,91	C	32,0	1,26	I	33,8	1,33	E	38,0	1,50	0,38	0,83
	M FIRG 12A BSP	M FIRG13 1/2 BSP	Male 800800007				D	68,0	2,68	B	32,0	1,26	H	33,8	1,33	J	24,5	0,96	0,23	0,51
1/2"	F FIRG 34 BSP	F FIRG13 3/4 BSP	Female 800800008	12,5	3/4"	G 134,0	F	80,8	3,18	C	36,0	1,42	I	38,5	1,52	E	38,0	1,50	0,41	0,91
	M FIRG 34 BSP	M FIRG13 3/4 BSP	Male 800800009				D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,23	0,50
5/8"	F FIRG 34B BSP	F FIRG15 3/4 BSP	Female 800800010	16	3/4"	G 131,4	F	78,5	3,09	C	36,0	1,42	I	38,5	1,52	E	42,0	1,65	0,48	1,06
	M FIRG 34B BSP	M FIRG15 3/4 BSP	Male 800800011				D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,27	0,59
3/4"	F FIRG 34A BSP	F FIRG17 3/4 BSP	Female 800800020	19	3/4"	G 149,0	F	88,7	3,49	C	41,0	1,61	I	44,8	1,76	E	48,0	1,89	0,75	1,65
	M FIRG 34A BSP	M FIRG17 3/4 BSP	Male 800800021				D	82,3	3,24	B	41,0	1,61	H	44,8	1,76	J	30,0	1,18	0,45	0,98
3/4"	F FIRG 100 BSP	F FIRG17 1 BSP	Female 800800012	19	1"	G 153,5	F	93,2	3,67	C	45,0	1,77	I	47,8	1,88	E	48,0	1,89	0,77	1,69
	M FIRG 100 BSP	M FIRG17 1 BSP	Male 800800013				D	82,3	3,24	B	45,0	1,77	H	47,8	1,88	J	30,0	1,18	0,39	0,87
1"	F FIRG 114 BSP	F FIRG21 1-1/4 BSP	Female 800800014	25	1-1/4"	G 172,8	F	106,0	4,17	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,22	2,68
	M FIRG 114 BSP	M FIRG21 1-1/4 BSP	Male 800800015				D	89,8	3,54	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,64	1,41
1-1/2"	F FIRG 112 BSP	F FIRG30 1-1/2 BSP	Female 800800016	-	1-1/2"	G 214,9	F	132,4	5,21	C	65,0	2,56	I	72,0	2,83	E	80,0	3,15	2,82	6,22
	M FIRG 112 BSP	M FIRG30 1-1/2 BSP	Male 800800017				D	111,1	4,37	B	65,0	2,56	H	69,8	2,75	J	57,0	2,24	1,67	3,67
2"	F FIRG 200 BSP	F FIRG45 2 BSP	Female 800800018	-	2"	G 241,5	F	156,6	6,17	C	80,0	3,15	I	88,5	3,48	E	100,0	3,94	5,10	11,24
	M FIRG 200 BSP	M FIRG45 2 BSP	Male 800800019				D	123,8	4,87	B	75,0	2,95	H	83,5	3,29	J	73,0	2,87	2,26	4,98



Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

BODY SIZE	Descriptive Code		Item Code	ISO DN	PORT (A)	Overall Length	Length		Hex		Diameter		Diameter		PORT (A)							
	OLD	NEW					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb				
1/4"	F FIRG 14 NPT	F FIRG7 1/4 NPT	Female 800801000	6,3	1/4"	G	85,2	3,35	F	48,1	1,89	C	22,0	0,87	I	23,8	0,94	E	28,0	1,10	0,14	0,31
	M FIRG 14 NPT	M FIRG7 1/4 NPT	Male 800801001						D	47,9	1,89	b	22,0	0,87	H	23,8	0,94	J	16,1	0,63	0,09	0,19
3/8"	F FIRG 38 NPT	F FIRG9 3/8 NPT	Female 800801004	10	3/8"	G	108,7	4,28	F	64,2	2,53	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,24	0,52
	M FIRG 38 NPT	M FIRG9 3/8 NPT	Male 800801005						D	60,0	2,36	b	24,0	0,94	H	26,0	1,02	J	19,7	0,78	0,12	0,27
3/8"	F FIRG 12 NPT	F FIRG9 1/2 NPT	Female 800801002	10	1/2"	G	116,2	4,57	F	69,2	2,72	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,24	0,53
	M FIRG 12 NPT	M FIRG9 1/2 NPT	Male 800801003						D	62,5	2,46	b	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,13	0,29
1/2"	F FIRG 12A NPT	F FIRG13 1/2 NPT	Female 800801006	12,5	1/2"	G	124,5	4,90	F	73,8	2,91	C	32,0	1,26	I	33,8	1,33	E	38,0	1,50	0,38	0,83
	M FIRG 12A NPT	M FIRG13 1/2 NPT	Male 800801007						D	68,0	2,68	b	32,0	1,26	H	33,8	1,33	J	24,5	0,96	0,24	0,52
1/2"	F FIRG 34 NPT	F FIRG13 3/4 NPT	Female 800801008	12,5	3/4"	G	134,0	5,28	F	80,8	3,18	C	36,0	1,42	I	38,5	1,52	E	38,0	1,50	0,42	0,93
	M FIRG 34 NPT	M FIRG13 3/4 NPT	Male 800801009						D	70,5	2,78	b	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,23	0,52
5/8"	F FIRG 34B NPT	F FIRG15 3/4 NPT	Female 800801010	16	3/4"	G	131,4	5,17	F	78,5	3,09	C	36,0	1,42	I	38,5	1,52	E	42,0	1,65	0,49	1,08
	M FIRG 34B NPT	M FIRG15 3/4 NPT	Male 800801011						D	70,5	2,78	b	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,27	0,60
3/4"	F FIRG 34A NPT	F FIRG17 3/4 NPT	Female 800801020	19	3/4"	G	149,0	5,87	F	88,7	3,49	C	41,0	1,61	I	44,8	1,76	E	48,0	1,89	0,76	1,66
	M FIRG 34A NPT	M FIRG17 3/4 NPT	Male 800801021						D	82,3	3,24	b	41,0	1,61	H	44,8	1,76	J	30,0	1,18	0,45	0,99
3/4"	F FIRG 100 NPT	F FIRG17 1 NPT	Female 800801012	19	1"	G	153,5	6,04	F	93,2	3,67	C	45,0	1,77	I	47,8	1,88	E	48,0	1,89	0,78	1,72
	M FIRG 100 NPT	M FIRG17 1 NPT	Male 800801013						D	82,3	3,24	b	45,0	1,77	H	47,8	1,88	J	30,0	1,18	0,41	0,89
1"	F FIRG 114 NPT	F FIRG21 1-1/4 NPT	Female 800801014	25	1 1/4"	G	172,8	6,80	F	106,0	4,17	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,22	2,68
	M FIRG 114 NPT	M FIRG21 1-1/4 NPT	Male 800801015						D	89,8	3,54	b	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,66	1,46
1-1/2"	F FIRG 112 NPT	F FIRG30 1-1/2 NPT	Female 800801016	-	1 1/2"	G	214,9	8,46	F	132,4	5,21	C	65,0	2,56	I	72,0	2,83	E	80,0	3,15	2,85	6,28
	M FIRG 112 NPT	M FIRG30 1-1/2 NPT	Male 800801017						D	111,1	4,37	b	65,0	2,56	H	69,8	2,75	J	57,0	2,24	1,67	3,68
2"	F FIRG 200 NPT	F FIRG45 2 NPT	Female 800801018	-	2"	G	241,5	9,51	F	156,6	6,17	C	80,0	3,15	I	88,5	3,48	E	100,0	3,94	5,10	11,24
	M FIRG 200 NPT	M FIRG45 2 NPT	Male 800801019						D	123,8	4,87	b	75,0	2,95	H	83,5	3,29	J	73,0	2,87	2,26	4,98


Port description: FEMALE THREAD SAE (ISO 11926-1 & SAE J1926-1)

BODY SIZE	Descriptive Code		Item Code	ISO DN	PORT (A)	Overall Length	Length		Hex		Diameter		Diameter		PORT (A)		
	OLD	NEW					mm	in	mm	in	mm	in	mm	in	mm	in	kg
1/4"	F FIRG 14 3/8 SAE	F FIRG7 3/8 SAE	Female 800804000	6,3	9/16-18UNF	G 93,2	3,67	F 53,1	2,09	C 22,0	0,87	I 23,8	0,94	E 28,0	1,10	0,15	0,33
	M FIRG 14 3/8 SAE	M FIRG7 3/8 SAE	Male 800804001					D 50,9	2,00	B 22,0	0,87	H 23,8	0,94	J 16,1	0,63	0,09	0,20
3/8"	F FIRG 38 1/2 SAE	F FIRG9 1/2 SAE	Female 800804002	10	3/4-16UNF	G 116,2	4,57	F 69,2	2,72	C 27,0	1,06	I 29,0	1,14	E 32,0	1,26	0,24	0,54
	M FIRG 38 1/2 SAE	M FIRG9 1/2 SAE	Male 800804003					D 62,5	2,46	B 27,0	1,06	H 29,0	1,14	J 19,7	0,78	0,14	0,31
3/8"	F FIRG 12 5/8 SAE	F FIRG9 5/8 SAE	Female 800804004	10	7/8-14UNF	G 119,7	4,71	F 71,2	2,80	C 30,0	1,18	I 32,0	1,26	E 32,0	1,26	0,26	0,57
	M FIRG 12 5/8 SAE	M FIRG9 5/8 SAE	Male 800804005					D 64,0	2,52	B 30,0	1,18	H 32,0	1,26	J 19,7	0,78	0,15	0,32
1/2"	F FIRG 12A 5/8 SAE	F FIRG13 5/8 SAE	Female 800804006	12,5	7/8-14UNF	G 129,0	5,08	F 76,3	3,00	C 32,0	1,26	I 33,8	1,33	E 38,0	1,50	0,38	0,83
	M FIRG 12A 5/8 SAE	M FIRG13 5/8 SAE	Male 800804007					D 70,0	2,76	B 32,0	1,26	H 33,8	1,33	J 24,5	0,96	0,23	0,51
1/2"	F FIRG 34 SAE	F FIRG13 3/4 SAE	Female 800804008	12,5	1-1/16-12UN	G 138,0	5,43	F 83,3	3,28	C 36,0	1,42	I 38,5	1,52	E 38,0	1,50	0,42	0,93
	M FIRG 34 SAE	M FIRG13 3/4 SAE	Male 800804009					D 72,0	2,83	B 36,0	1,42	H 38,5	1,52	J 24,5	0,96	0,23	0,51
5/8"	F FIRG 34B SAE	F FIRG15 3/4 SAE	Female 800804010	16	1-1/16-12UN	G 137,9	5,43	F 83,5	3,29	C 36,0	1,42	I 38,5	1,52	E 42,0	1,65	0,50	1,10
	M FIRG 34B SAE	M FIRG15 3/4 SAE	Male 800804011					D 72,0	2,83	B 36,0	1,42	H 38,5	1,52	J 27,0	1,06	0,27	0,59
3/4"	F FIRG 34A SAE	F FIRG17 3/4 SAE	Female 800804020	19	1-1/16-12UN	G 149,0	5,87	F 88,7	3,49	C 41,0	1,61	I 44,8	1,76	E 48,0	1,89	0,75	1,64
	M FIRG 34A SAE	M FIRG17 3/4 SAE	Male 800804021					D 82,3	3,24	B 41,0	1,61	H 44,8	1,76	J 30,0	1,18	0,44	0,97
3/4"	F FIRG 100 SAE	F FIRG17 1 SAE	Female 800804012	19	1-5/16-12UN	G 153,5	6,04	F 93,2	3,67	C 45,0	1,77	I 47,8	1,88	E 48,0	1,89	0,77	1,69
	M FIRG 100 SAE	M FIRG17 1 SAE	Male 800804013					D 82,3	3,24	B 45,0	1,77	H 47,8	1,88	J 30,0	1,18	0,39	0,87
1"	F FIRG 114 SAE	F FIRG21 1-1/4 SAE	Female 800804014	25	1-5/8-12UN	G 172,8	6,80	F 106,0	4,17	C 55,0	2,17	I 59,8	2,35	E 55,0	2,17	1,22	2,68
	M FIRG 114 SAE	M FIRG21 1-1/4 SAE	Male 800804015					D 89,8	3,54	B 55,0	2,17	H 59,8	2,35	J 36,0	1,42	0,64	1,41
1-1/2"	F FIRG 112 SAE	F FIRG30 1-1/2 SAE	Female 800804016	-	1-7/8-12UN	G 214,9	8,46	F 132,4	5,21	C 65,0	2,56	I 72,0	2,83	E 80,0	3,15	2,82	6,22
	M FIRG 112 SAE	M FIRG30 1-1/2 SAE	Male 800804017					D 111,1	4,37	B 65,0	2,56	H 69,8	2,75	J 57,0	2,24	1,66	3,65
2"	F FIRG 200 SAE	F FIRG45 2 SAE	Female 800804018	-	2-1/2-12UN	G 241,5	9,51	F 156,6	6,17	C 80,0	3,15	I 88,5	3,48	E 100,0	3,94	5,10	11,24
	M FIRG 200 SAE	M FIRG45 2 SAE	Male 800804019					D 123,8	4,87	B 75,0	2,95	H 83,5	3,29	J 73,0	2,87	2,26	4,98

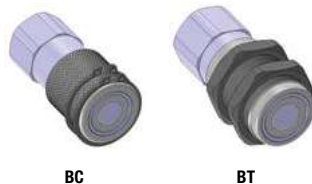
Panel mounting

FIRG Series is available upon request also as panel mounting version:

 BC: Snap Ring Solution
 Grooves on the male body and on the female sleeve.

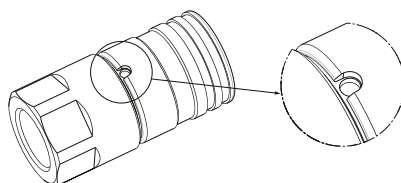
 BT: Lock Ring Solution
 Thread on the male body and female body.

Using the BC and BT versions mounted on the panel, you obtain the breakaway function, avoiding damages of the hydraulic connections in case of strong axial force during unintended disconnection.


SS version

For specific cases, FIRG Series is available upon request without the safety lock ball.

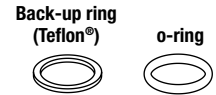
For additional information, please contact Stucchi Technical Support.



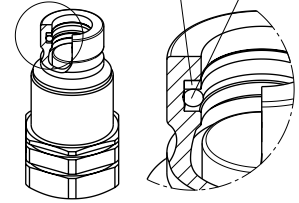


SPARE KIT SEAL FOR MALE

Repair kit / OR+BK			
Body Size	Description		Part Number
	OLD	NEW	
1/4"	M FIRG14	M FIRG7	815700519
3/8"	M FIRG38-12	M FIRG9	815700337
1/2"	M FIRG12A-34	M FIRG13	815700339
5/8"	M FIRG34B	M FIRG15	815700341
3/4"	M FIRG100-34A	M FIRG17	815700343
1"	M FIRG114	8M FIRG21	815700345
1-1/2"	M FIRG112	M FIRG30	815700521
2"	M FIRG200	M FIRG45	815700796



O-Ring in Nitrile
BackUp in Teflon®

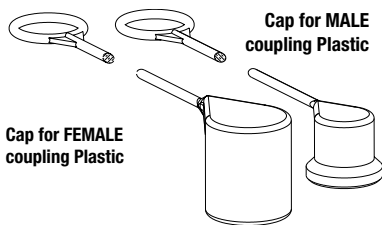


PROTECTIVE CAPS FOR FIRG SERIES

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.

For the FIRG series are available three kind of materials:

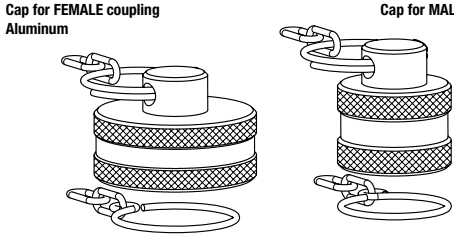
- plastic caps with lanyard (standard color: red, other colors available upon request)
- aluminum caps with lanyard (standard colors: natural aluminum, other colors available upon request)
- plastic caps, clip system (standard color: red, other colors available upon request)



Cap for FEMALE coupling Plastic

Cap for MALE coupling Plastic

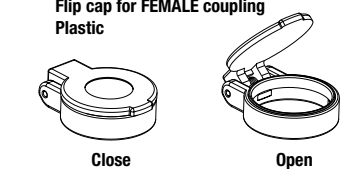
Body Size	Port Size	Description		Part number		Material/Color
		OLD	NEW	Cap for Female	Cap for Male	
1/4"	1/4"	FIRG14	FIRG7	815100000	815100023	Plastic/Red
3/8"	3/8"	FIRG38	FIRG9	815100002	815100025	Plastic/Red
3/8"	1/2"	FIRG12	FIRG9	815100002	815100027	Plastic/Red
1/2"	1/2"	FIRG12A	FIRG13	815100004	815100029	Plastic/Red
1/2"	3/4"	FIRG34	FIRG13	815100006	815100031	Plastic/Red
5/8"	3/4"	FIRG34B	FIRG15	815100008	815100011	Plastic/Red
3/4"	3/4"	FIRG34A	FIRG17	815100010	815100013	Plastic/Red
3/4"	1"	FIRG100	FIRG17	815100010	815100013	Plastic/Red
1"	1-1/4"	FIRG114	FIRG114	815100012	815100015	Plastic/Red



Cap for FEMALE coupling Aluminum

Cap for MALE coupling Aluminum

Body Size	Description		Part Number		Material/Color
	OLD	NEW	Cap for Female	Cap for Male	
1/4"	FIRG14	FIRG7	816005002	816005003	Aluminum/Natural
3/8"	FIRG38-12	FIRG9	816005004	816005005	Aluminum/Natural
1/2"	FIRG12A-34	FIRG13	816005006	816005007	Aluminum/Natural
3/4"	FIRG100-34A	FIRG17	816005010	816005011	Aluminum/Natural
1"	FIRG114	FIRG21	816005012	816005013	Aluminum/Natural
1-1/2"	FIRG112	FIRG30	815105014	815105017	Aluminum/Natural
2"	FIRG200	FIRG45	815105016	815105019	Aluminum/Natural



Flip cap for FEMALE coupling Plastic

Close Open

Body Size	Description		Part Number	Material/Color
	OLD	NEW	Cap for Female	
3/8"	FIRG38-12	FIRG9	816005002	Aluminum/Natural
1/2"	FIRG12A-34	FIRG13	816005004	Aluminum/Natural
5/8"	FIRG34B	FIRG15	816005006	Aluminum/Natural
3/4"	FIRG100-34A	FIRG17	816005010	Aluminum/Natural



ASERIES

INTERCHANGE > ISO 16028 - NFPA T3.20.15 - HTMA (size 3/8")



Stucchi®

FLAT FACE



TECHNICAL FEATURES AND OPTIONS

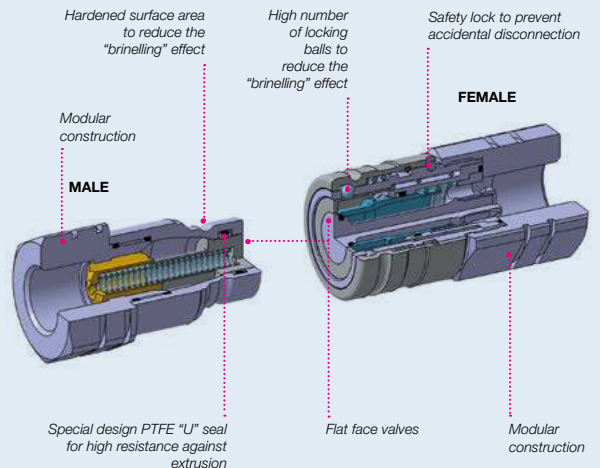
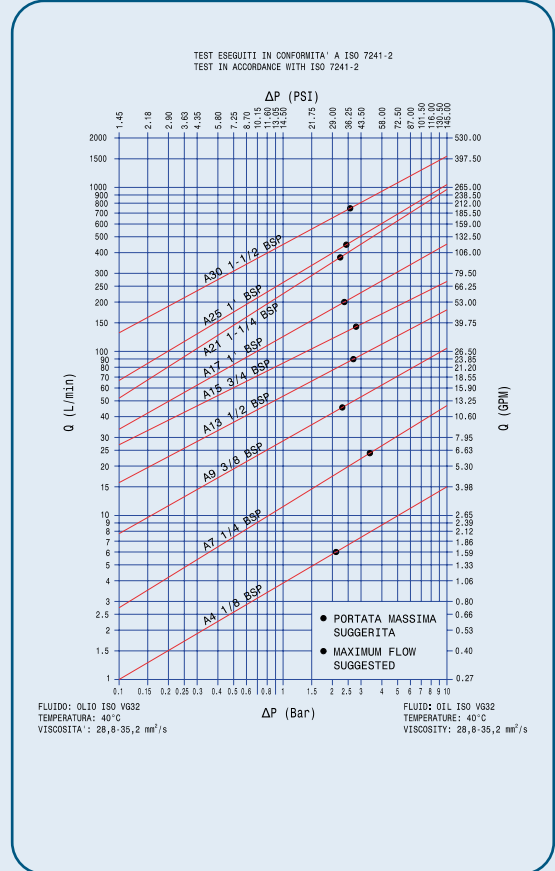
Interchange ISO 16028 NFPA T3.20.15 HTMA (size 3/8")	Sealing description Nitrile NBR	Connection system Push
Available sizes from 1/8" to 1-1/2"	Material/treatment Carbon steel/ Cr3 (Zn-Ni version available)	Available threads BSP - NPT - SAE ORFS - METRIC - JIC
Operating pressure Up to 420 bar	Locking mechanism Locking ball + Safety Lock	Flow rate Up to 750 l/min
Temperature (°C) -20°C / +100°C	Valving style Flat face	Connection under pressure Connection: not allowed Disconnection: not allowed

BENEFITS

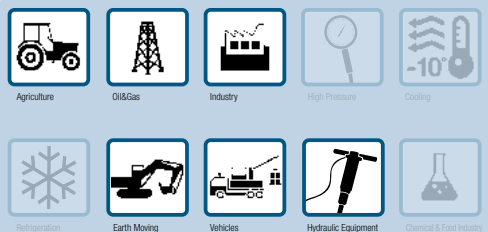
- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection.
- Internal valve design creates minimal pressure drop, maintaining circuit efficiency in the system
- The modular design allows flexibility with a wide range of configurations.
- Good resistance to pressure impulses.
- 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 push the male half towards the female half or vice versa.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect turn the external sleeve until the sleeve lock notch match the safety lock ball and push back the sleeve.



MAIN APPLICATIONS



PERFORMANCES

Size		Series/Size	Max. flow suggested		Connect force		Disconnect force		Spillage*
in	mm (ISO)		l/min	gpm	N	lbf	N	lbf	ml
1/8	-	A4	6	1,59	120	27,00	25	5,63	-
1/4	6,3	A7	24	6,36	150	33,75	45	10,13	0,01
3/8	10,0	A9	46	12,19	170	38,25	40	9,00	0,01
1/2	12,5	A13	90	23,85	190	42,75	50	11,25	0,02
5/8	16,0	A15	148	39,22	190	42,75	55	12,38	0,02
3/4	19,0	A17	200	53,00	220	49,50	70	15,75	0,03
1	25,0	A21	378	100,17	250	56,25	75	16,88	0,03
1-1/4	-	A25	450	119,25	350	78,75	90	20,25	0,17
1-1/2	-	A30	750	198,75	390	87,75	70	15,75	0,05

Size	Series/Size	Max. operating pressure						Burst pressure					
		Coupled		Male		Female		Coupled		Male		Female	
in		MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
1/8	A4	42	6090	42	6090	42	6090	126	18270	126	18270	126	18270
1/4	A7	42	6090	42	6090	42	6090	126	18270	126	18270	126	18270
3/8	A9	35	5075	35	5075	35	5075	100	14500	100	14500	100	14500
1/2	A13	33	4785	33	4785	33	4785	100	14500	100	14500	100	14500
5/8	A15	33	4785	33	4785	33	4785	100	14500	100	14500	100	14500
3/4	A17	33	4785	33	4785	33	4785	100	14500	100	14500	100	14500
1	A21	30	4350	30	4350	30	4350	80	11600	80	11600	80	11600
1-1/4	A25	30	4350	30	4350	30	4350	80	11600	80	11600	80	11600
1-1/2	A30	27	3915	27	3915	27	3915	80	11600	80	11600	70	10150

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

Different possible configurations:
Different threads available upon request.

Temperature range:

Standard seals 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.

Tests:

The couplings have been tested at max. operating pressure for 100.000 impulses according to ISO norm.

! WARNING

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 use the female coupling disconnected with high impulse pressure.

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).

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.

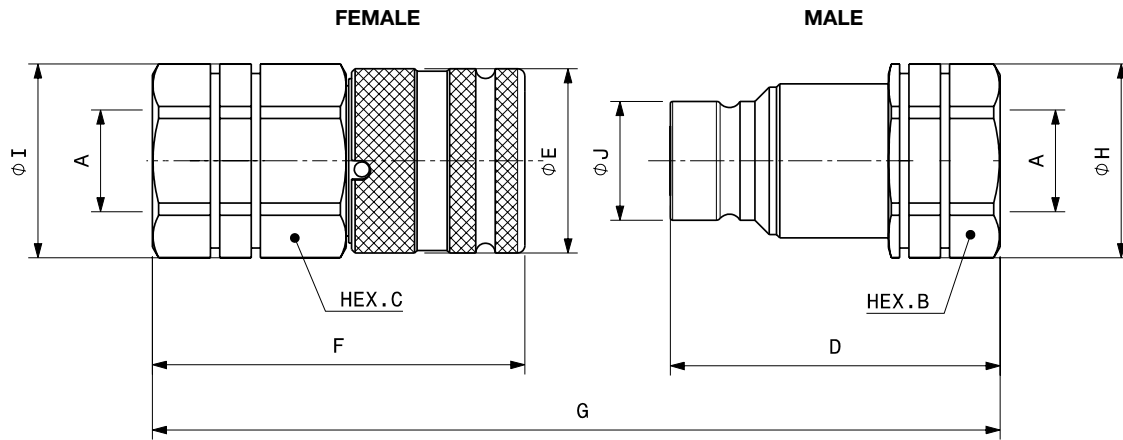
The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.

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.

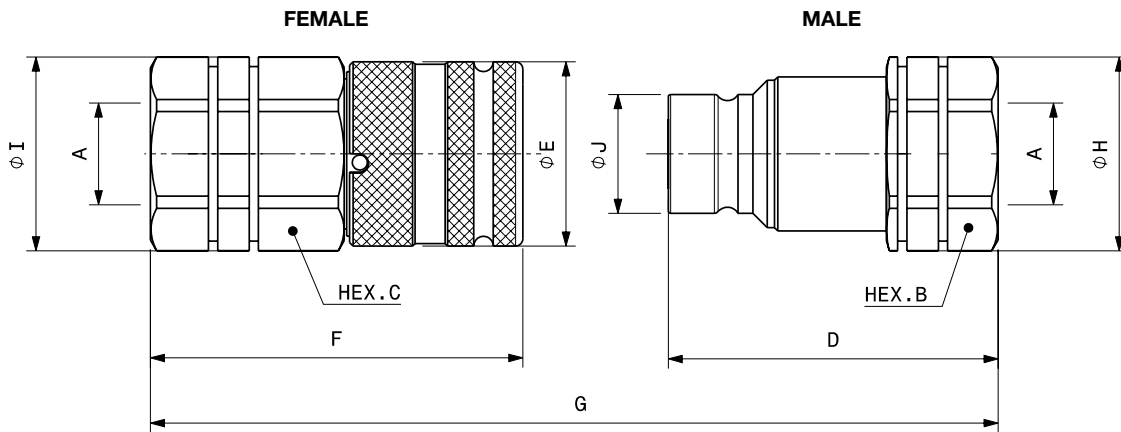
OVERALL DIMENSIONS



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

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length	Length		Hex		Diameter		Diameter		Weight						
						mm	in	mm	in	mm	in	mm	in	kg	lb					
1/8"	F A4 1/8 BSP	Female 801300002	-	1/8"	G 68,4	2,69	F	40,0	1,57	C	19,0	0,75	I	20,5	0,81	E	20,0	0,79	0,07	0,16
	M A4 1/8 BSP	Male 801300003					D	36,3	1,43	B	17,0	0,67	H	18,5	0,73	J	11,6	0,46	0,04	0,08
1/4"	F A7 1/4 BSP	Female 801300004	6,3	1/4"	G 90,2	3,55	F	53,1	2,09	C	27,0	1,06	I	29,0	1,14	E	28,0	1,10	0,19	0,41
	M A7 1/4 BSP	Male 801300031					D	47,9	1,89	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63	0,09	0,19
3/8"	F A9 3/8 BSP	Female 801300006	10	3/8"	G 108,8	4,28	F	64,8	2,55	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,27	0,60
	M A9 3/8 BSP	Male 801300005					D	60,0	2,36	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,15	0,32
3/8"	F A9 1/2 BSP	Female 801300008	10	1/2"	G 116,3	4,58	F	69,8	2,75	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,28	0,61
	M A9 1/2 BSP	Male 801300007					D	62,5	2,46	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,14	0,30
1/2"	F A13 1/2 BSP	Female 801300014	12,5	1/2"	G 127,5	5,02	F	76,8	3,02	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,45	1,00
	M A13 1/2 BSP	Male 801300013					D	68,0	2,68	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96	0,24	0,52
1/2"	F A13 3/4 BSP	Female 801300016	12,5	3/4"	G 137,0	5,39	F	83,8	3,30	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,46	1,02
	M A13 3/4 BSP	Male 801300015					D	70,5	2,78	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96	0,27	0,60
5/8"	F A15 3/4 BSP	Female 801300022	16	3/4"	G 139,4	5,49	F	84,0	3,31	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	0,63	1,38
	M A15 3/4 BSP	Male 801300021					D	73,0	2,87	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,30	0,66
5/8"	F A15 1 BSP	Female 801300034	16	1"	G 145,4	5,72	F	87,0	3,43	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	0,60	1,32
	M A15 1 BSP	Male 801300035					D	76,0	2,99	B	41,0	1,61	H	44,8	1,76	J	27,0	1,06	0,33	0,73
3/4"	F A17 3/4 BSP	Female 801300040	19	3/4"	G 158,5	6,24	F	96,8	3,81	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	0,97	2,14
	M A17 3/4 BSP	Male 801300041					D	83,7	3,30	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	0,53	1,16
3/4"	F A17 1 BSP	Female 801300000	19	1"	G 160,5	6,32	F	98,8	3,89	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	0,94	2,07
	M A17 1 BSP	Male 801300001					D	83,7	3,30	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	0,48	1,05
1"	F A21 3/4 BSP	Female 801300048	25	3/4"	G 178,0	7,01	F	102,8	4,05	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,44	3,16
	M A21 3/4 BSP	Male 801300049					D	98,2	3,87	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,97	2,14
1"	F A21 1 BSP	Female 801300050	25	1"	G 178,6	7,03	F	104,8	4,13	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,42	3,12
	M A21 1 BSP	Male 801300051					D	96,8	3,81	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,89	1,96
1"	F A21 1-1/4 BSP	Female 801300024	25	1 1/4"	G 172,8	6,80	F	105,8	4,17	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,31	2,89
	M A21 1-1/4 BSP	Male 801300023					D	90,0	3,54	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,71	1,56
1"	F A21 1-1/2 BSP	Female 801300028	25	1 1/2"	G 182,8	7,20	F	110,8	4,36	C	60,0	2,36	I	64,8	2,55	E	55,0	2,17	1,40	3,08
	M A21 1-1/2 BSP	Male 801300027					D	95,0	3,74	B	60,0	2,36	H	64,8	2,55	J	36,0	1,42	0,80	1,76
1-1/4"	F A25 1 BSP	Female 801300046	-	1"	G 196,8	7,75	F	120,1	4,73	C	55,0	2,17	I	65,0	2,56	E	65,0	2,56	2,09	4,61
	M A25 1 BSP	Male 801300047					D	100,0	3,94	B	55,0	2,17	H	59,8	2,35	J	44,0	1,73	1,13	2,49
1-1/4"	F A25 1-1/4 BSP	Female 801300052	-	1 1/4"	G 206,8	8,14	F	125,1	4,93	C	55,0	2,17	I	65,0	2,56	E	65,0	2,56	2,07	4,56
	M A25 1-1/4 BSP	Male 801300053					D	105,0	4,13	B	55,0	2,17	H	59,8	2,35	J	44,0	1,73	1,09	2,39
1-1/2"	F A30 1-1/4 BSP	Female 801300036*	-	1-1/4"	G 214,9	8,46	F	132,4	5,21	C	65,0	2,56	I	69,8	2,75	E	80,0	3,15	3,25	7,16
	M A30 1-1/4 BSP	Male 801300037*					D	111,1	4,37	B	65,0	2,56	H	82,0	3,23	J	57,0	2,24	1,75	3,85
1-1/2"	F A30 1-1/2 BSP	Female 801300026	-	1 1/2"	G 214,9	8,46	F	132,4	5,21	C	65,0	2,56	I	82,0	3,23	E	80,0	3,15	3,14	6,92
	M A30 1-1/2 BSP	Male 801300025					D	111,1	4,37	B	65,0	2,56	H	69,8	2,75	J	57,0	2,24	1,67	3,67
1-1/2"	F A30 2 BSP	Female 801300038	-	2"	G 228,4	8,99	F	138,0	5,43	C	75,0	2,95	I	82,0	3,23	E	80,0	3,15	3,33	7,33
	M A30 2 BSP	Male 801300039					D	119,0	4,69	B	75,0	2,95	H	82,0	3,23	J	57,0	2,24	1,93	4,25

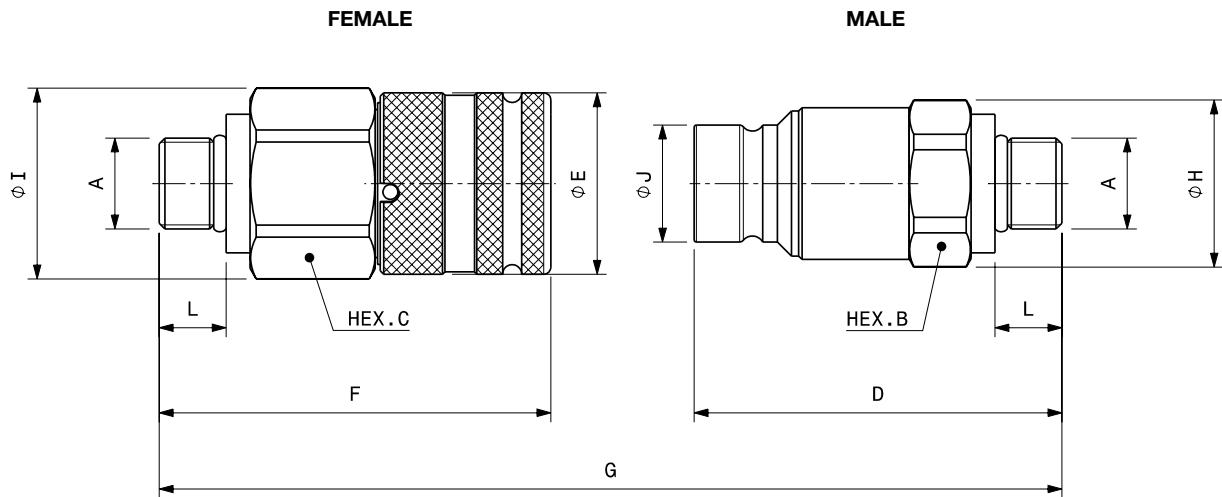
* Available upon request.



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

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length				Hex		Diameter		Diameter		Weight				
					mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb			
1/8"	F A4 1/8 NPT	Female 801301002		1/8"	G	68,4	2,69	F	40,0	1,57	C	19,0	0,75	I	20,5	0,81	E	20,0	0,79	0,07	0,16
	M A4 1/8 NPT	Male 801301003						D	36,3	1,43	B	17,0	0,67	H	18,5	0,73	J	11,6	0,46	0,04	0,08
1/4"	F A7 1/4 NPT	Female 801301004	6,3	1/4"	G	90,2	3,55	F	53,1	2,09	C	27,0	1,06	I	29,0	1,14	E	28,0	1,10	0,19	0,41
	M A7 1/4 NPT	Male 801301023						D	47,9	1,89	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63	0,09	0,19
3/8"	F A9 3/8 NPT	Female 801301006	10	3/8"	G	108,8	4,28	F	64,8	2,55	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,27	0,60
	M A9 3/8 NPT	Male 801301005						D	60,0	2,36	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,15	0,33
3/8"	F A9 1/2 NPT	Female 801301008	10	1/2"	G	116,3	4,58	F	69,8	2,75	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,28	0,61
	M A9 1/2 NPT	Male 801301007						D	62,5	2,46	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,14	0,30
1/2"	F A13 1/2 NPT	Female 801301010	12,5	1/2"	G	127,5	5,02	F	76,8	3,02	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,45	1,00
	M A13 1/2 NPT	Male 801301009						D	68,0	2,68	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96	0,30	1,65
1/2"	F A13 3/4 NPT	Female 801301012	12,5	3/4"	G	137,0	5,39	F	83,8	3,30	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,47	1,03
	M A13 3/4 NPT	Male 801301011						D	70,5	2,78	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96	0,27	0,60
5/8"	F A15 3/4 NPT	Female 801301014	16	3/4"	G	139,4	5,49	F	84,0	3,31	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	0,63	1,39
	M A15 3/4 NPT	Male 801301013						D	73,0	2,87	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,29	0,64
5/8"	F A15 1 NPT	Female 801301020	16	1"	G	145,4	5,72	F	87,0	3,43	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	0,61	1,33
	M A15 1 NPT	Male 801301019						D	76,0	2,99	B	41,0	1,61	H	44,8	1,76	J	27,0	1,06	0,34	0,74
3/4"	F A17 3/4 NPT	Female 801301030	19	3/4"	G	157,5	6,20	F	95,8	3,77	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	0,96	2,12
	M A17 3/4 NPT	Male 801301031						D	83,7	3,30	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	0,54	1,18
3/4"	F A17 1 NPT	Female 801301000	19	1"	G	160,5	6,32	F	98,8	3,89	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	0,93	2,05
	M A17 1 NPT	Male 801301001						D	83,7	3,30	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	0,47	1,04
1"	F A21 1 NPT	Female 801301028	25	1"	G	178,6	7,03	F	104,8	4,13	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,43	3,15
	M A21 1 NPT	Male 801301029						D	96,8	3,81	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,90	1,98
1"	F A21 1-1/4 NPT	Female 801301016	25	1-1/4"	G	172,8	6,80	F	105,8	4,17	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,31	2,89
	M A21 1-1/4 NPT	Male 801301015						D	90,0	3,54	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,70	1,54
1"	F A21 1-1/2 NPT	Female 801301026 *	25	1-1/2"	G	182,8	7,20	F	110,8	4,36	C	60,0	2,36	I	64,8	2,55	E	55,0	2,17	1,37	3,01
	M A21 1-1/2 NPT	Male 801301027 *						D	95,0	3,74	B	60,0	2,36	H	64,8	2,55	J	36,0	1,42	0,75	1,66
1-1/4"	F A25 1 NPT	Female 801301032 *		1"	G	206,8	8,14	F	125,1	4,93	C	55,0	2,17	I	65,0	2,56	E	65,0	2,56	2,09	4,61
	M A25 1 NPT	Male 801301033 *						D	105,0	4,13	B	55,0	2,17	H	59,8	2,35	J	44,0	1,73	1,13	2,49
1-1/4"	F A25 1-1/4 NPT	Female 801301034		1-1/4"	G	206,8	8,14	F	125,1	4,93	C	55,0	2,17	I	65,0	2,56	E	65,0	2,56	2,10	4,63
	M A25 1-1/4 NPT	Male 801301035						D	105,0	4,13	B	55,0	2,17	H	59,8	2,35	J	44,0	1,73	1,11	2,44
1-1/2"	F A30 1-1/2 NPT	Female 801301018		1-1/2"	G	214,9	8,46	F	132,4	5,21	C	65,0	2,56	I	82,0	3,23	E	80,0	3,15	3,14	6,92
	M A30 1-1/2 NPT	Male 801301017						D	111,1	4,37	B	65,0	2,56	H	69,8	2,75	J	57,0	2,24	1,67	3,67
1-1/2"	F A30 2 NPT	Female 801301024		2"	G	228,4	8,99	F	138,0	5,43	C	75,0	2,95	I	82,0	3,23	E	80,0	3,15	3,25	7,17
	M A30 2 NPT	Male 801301025						D	119,0	4,69	B	75,0	2,95	H	82,0	3,23	J	57,0	2,24	1,94	4,28

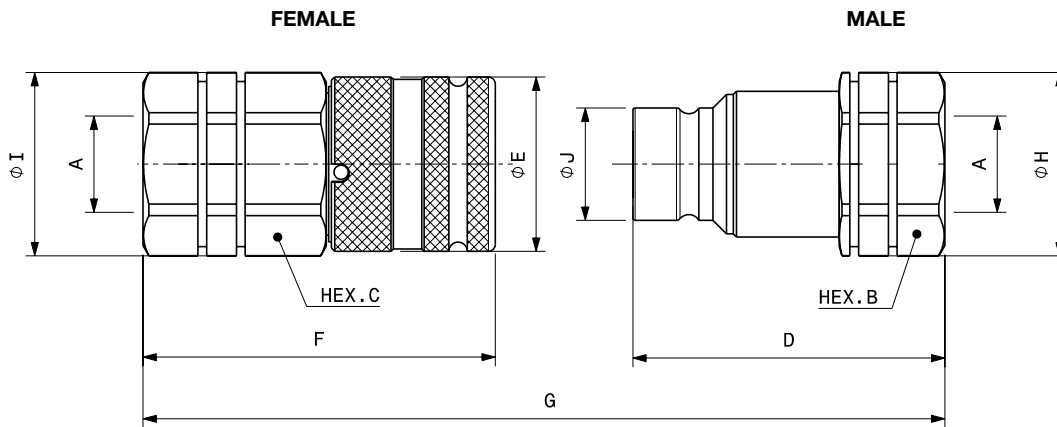
* Available upon request.



Port description: MALE THREAD SAE – (ISO 11926-2 & SAE J514)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Length		Weight							
					mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb						
1/4"	F A7 3/8 SAE EXT	Female 801304020*	6,3	9/16 -18UNF	G	-	-	F	-	C	-	I	-	E	-	L	10,0	0,39	-	-				
	M A7 3/8 SAE EXT	Male 801304021*						D	51,9	2,04	B	22,0	0,87	H	23,8						0,94	J	16,1	0,63
3/8"	F A9 3/8 SAE EXT	Female 801304036*	10	9/16 - 18UNF	G	-	-	F	-	C	-	I	-	E	-	L	9,9	0,39	-	-				
	M A9 3/8 SAE EXT	Male 801304037*						D	65,5	2,58	B	27,0	1,06	H	29,0						1,14	J	19,7	0,78
3/8"	F A9 1/2 SAE EXT	Female 801304032	10	3/4 - 16UNF	G	116,8	4,60	F	68,7	2,70	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	L	11,1	0,44	0,26	0,57
	M A9 1/2 SAE EXT	Male 801304033						D	64,1	2,52	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78					
1/2"	F A13 5/8 SAE EXT	Female 801304046*	12,5	7/8 - 14UNF	G	-	-	F	-	C	-	I	-	E	-	L	12,7	0,50	-	-				
	M A13 5/8 SAE EXT	Male 801304047*						D	72,7	2,86	B	36,0	1,42	H	40,0						1,57	J	24,5	0,96
5/8"	F A15 3/4 SAE EXT	Female 801304022*	16	1-1/16-12UN	G	140,1	5,52	F	82,6	3,25	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	L	15,1	0,59	0,56	1,23
	M A15 3/4 SAE EXT	Male 801304023*						D	75,1	2,96	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06					

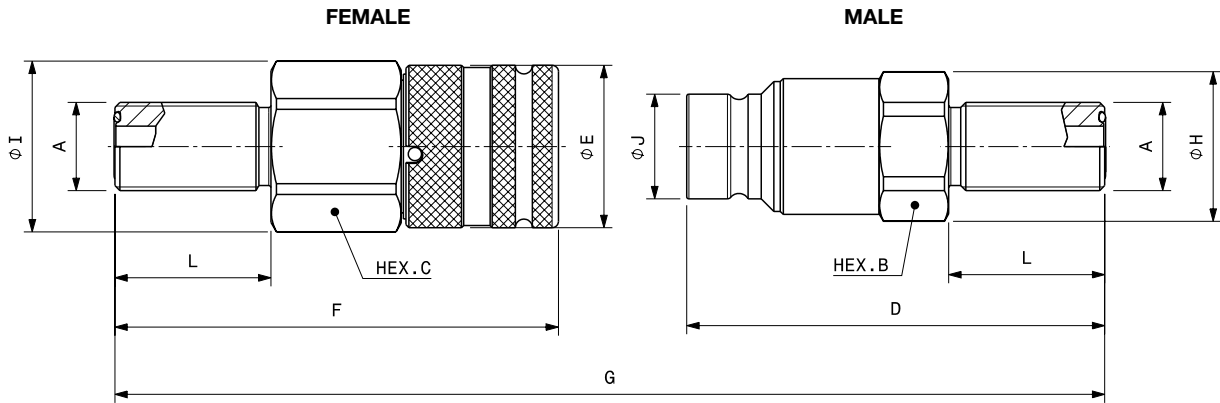
* Available upon request.



Port description: FEMALE THREAD SAE (ISO 11926-1 & SAEJ1926-1)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
1/8"	F A4 3/16 SAE	Female 801304002	-	3/8-24UNF	G	68,4	2,69	F	40,0	1,57	C	19,0	0,75	I	20,5	0,81	E	20,0	0,79	0,08	0,17
	M A4 3/16 SAE	Male 801304003						D	36,3	1,43	B	17,0	0,67	H	18,5	0,73	J	11,6	0,46	0,04	0,08
1/8"	F A4 1/4 SAE	Female 801304044	-	7/16 - 20UNF	G	84,3	3,32	F	44,0	1,73	C	19,0	0,75	I	20,5	0,81	E	20,0	0,79	0,08	0,17
	M A4 1/4 SAE	Male 801304045						D	40,3	1,59	B	17,0	0,67	H	18,5	0,73	J	11,6	0,46	0,04	0,09
1/4"	F A7 3/8 SAE	Female 801304004	6,3	9/16-18UNF	G	96,2	3,79	F	56,1	2,21	C	27,0	1,06	I	29,0	1,14	E	28,0	1,10	0,20	0,44
	M A7 3/8 SAE	Male 801304017						D	50,9	2,00	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63	0,09	0,20
3/8"	F A9 3/8 SAE	Female 801304006	10	9/16-18UNF	G	108,8	4,28	F	64,8	2,55	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,27	0,60
	M A9 3/8 SAE	Male 801304005						D	60,0	2,36	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,08	0,19
3/8"	F A9 1/2 SAE	Female 801304008	10	3/4-16UNF	G	116,3	4,58	F	69,8	2,75	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,29	0,63
	M A9 1/2 SAE	Male 801304007						D	62,5	2,46	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,15	0,32
3/8"	F A9 5/8 SAE	Female 801304030	10	7/8-14UNF	G	121,3	4,78	F	71,8	2,83	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,28	0,61
	M A9 5/8 SAE	Male 801304031						D	65,5	2,58	B	30,0	1,18	H	32,0	1,26	J	19,7	0,78	0,17	0,36
1/2"	F A13 5/8 SAE	Female 801304024	12,5	7/8-14UNF	G	131,5	5,18	F	78,8	3,10	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,46	1,01
	M A13 5/8 SAE	Male 801304025						D	70,0	2,76	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96	0,29	0,65
1/2"	F A13 3/4 SAE	Female 801304010	12,5	1-1/16-12UN	G	139,0	5,47	F	83,8	3,30	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,46	1,02
	M A13 3/4 SAE	Male 801304009						D	72,5	2,85	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96	0,28	0,61
5/8"	F A15 3/4 SAE	Female 801304012	16	1-1/16-12UN	G	139,4	5,49	F	84,0	3,31	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	0,63	1,38
	M A15 3/4 SAE	Male 801304011						D	73,0	2,87	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,30	0,65
3/4"	F A17 3/4 SAE	Female 801304028	19	1-1/16-12UN	G	160,5	6,32	F	98,8	3,89	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	0,99	2,17
	M A17 3/4 SAE	Male 801304029						D	83,7	3,30	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	0,52	1,15
3/4"	F A17 1 SAE	Female 801304000	19	1-5/16-12UN	G	160,5	6,32	F	98,8	3,89	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	0,93	2,05
	M A17 1 SAE	Male 801304001						D	83,7	3,30	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	0,47	1,03
3/4"	F A17 1-1/4 SAE	Female 801304026*	19	1-5/8-12UN	G	191,1	7,52	F	103,3	4,07	C	55,0	2,17	I	59,8	2,35	E	48,0	1,89	0,00	0,00
	M A17 1-1/4 SAE	Male 801304027*						D	87,8	3,46	B	55,0	2,17	H	59,8	2,35	J	30,0	1,18	0,00	0,00
1"	F A21 1 SAE	Female 801304038	25	1-5/16-12UN	G	178,6	7,03	F	104,8	4,13	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,42	3,12
	M A21 1 SAE	Male 801304039						D	96,8	3,81	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,89	1,96
1"	F A21 1-1/4 SAE	Female 801304014	25	1-5/8-12UN	G	172,8	6,80	F	105,8	4,17	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,32	2,91
	M A21 1-1/4 SAE	Male 801304013						D	90,0	3,54	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,71	1,56
1-1/4"	F A25 1 SAE	Female 801304040*	-	1-5/16-12UN	G	206,8	8,14	F	125,1	4,93	C	55,0	2,17	I	65,0	2,56	E	65,0	2,56	2,09	4,61
	M A25 1 SAE	Male 801304041*						D	105,0	4,13	B	55,0	2,17	H	59,8	2,35	J	44,0	1,73	1,13	2,49
1-1/4"	F A25 1-1/4 SAE	Female 801304042	-	1-5/8-12UN	G	206,8	8,14	F	125,1	4,93	C	55,0	2,17	I	65,0	2,56	E	65,0	2,56	2,07	4,56
	M A25 1-1/4 SAE	Male 801304043						D	105,0	4,13	B	55,0	2,17	H	59,8	2,35	J	44,0	1,73	1,09	2,39
1-1/2"	F A30 1-1/2 SAE	Female 801304016	-	1-7/8-12UN	G	214,9	8,46	F	132,4	5,21	C	65,0	2,56	I	82,0	3,23	E	80,0	3,15	3,16	6,97
	M A30 1-1/2 SAE	Male 801304015						D	111,1	4,37	B	65,0	2,56	H	69,8	2,75	J	57,0	2,24	1,66	3,66

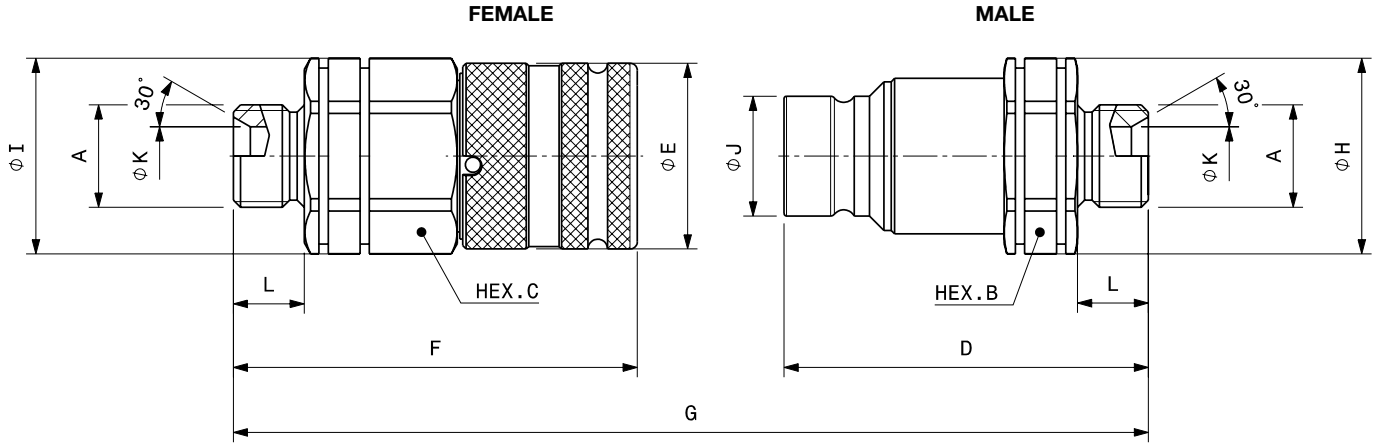
* Available upon request.


Port description: ORFS BULKHEAD (ISO 8434-3 & SAE J1453)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Lenght		Weight							
					mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb						
3/8"	F A9 3/8 ORFS BH	Female 801313014	10	11/16-16UN	G	169,3	6,67	F	95,1	3,74	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	L	34,0	1,34	0,32	0,71
	M A9 3/8 ORFS BH	Male 801313015						D	90,2	3,55	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	L	34,0	1,34	0,19	0,41
1/2"	F A13 1/2 ORFS BH	Female 801313018	12,5	13/16-16UN	G	184,3	7,26	F	103,8	4,09	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	L	36,5	1,44	0,47	1,03
	M A13 1/2 ORFS BH	Male 801313019						D	97,8	3,85	B	32,0	1,26	H	35,0	1,38	J	24,5	0,96	L	36,5	1,44	0,30	0,67
1/2"	F A13 5/8 ORFS BH33	Female 801313000	12,5	1-14UNS	G	171,7	6,76	F	96,0	3,78	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	L	33,0	1,30	0,46	1,02
	M A13 5/8 ORFS BH33	Male 801313001						D	93,0	3,66	B	32,0	1,26	H	35,0	1,38	J	24,5	0,96	L	33,0	1,30	0,32	0,69
1/2"	F A13 3/4 ORFS BH	Female 801313004	12,5	1-3/16-12UN	G	189,1	7,44	F	104,7	4,12	C	36,0	1,26	I	40,0	1,57	E	38,0	1,50	L	41,7	1,64	0,52	2,34
	M A13 3/4 ORFS BH	Male 801313005						D	101,7	4,00	B	32,0	1,26	H	35,0	1,38	J	24,5	0,96	L	41,7	1,64	0,37	0,82
1/2"	F A13 1 ORFS BH	Female 801313006	12,5	1-7/16-12UN	G	190,1	7,48	F	105,2	4,14	C	38,0	1,50	I	42,0	1,65	E	38,0	1,50	L	42,2	1,66	0,60	5,16
	M A13 1 ORFS BH	Male 801313007						D	102,2	4,02	B	38,0	1,50	H	42,0	1,65	J	24,5	0,96	L	42,2	1,66	0,47	1,03
5/8"	F A15 3/4 ORFS BH	Female 801313022	16	1-3/16-12UN	G	196,4	7,73	F	111,5	4,39	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	L	41,5	1,63	0,69	1,52
	M A15 3/4 ORFS BH	Male 801313023						D	102,5	4,04	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	L	41,5	1,63	0,41	0,90
3/4"	F A17 1 ORFS BH	Female 801313008	19	1-7/16-12UN	G	227,7	8,96	F	132,5	5,22	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	L	42,2	1,66	1,13	2,48
	M A17 1 ORFS BH	Male 801313009						D	117,2	4,61	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	L	42,2	1,66	0,66	1,46
1"	F A21 1-1/4 ORFS BH	Female 801313026*	25	1-11/16-12UN	G	234,8	9,24	F	133,8	5,27	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	L	42,0	1,65	1,51	3,32
	M A21 1-1/4 ORFS BH	Male 801313027*						D	124,0	4,88	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	L	42,0	1,65	0,97	2,13

* Available upon request.

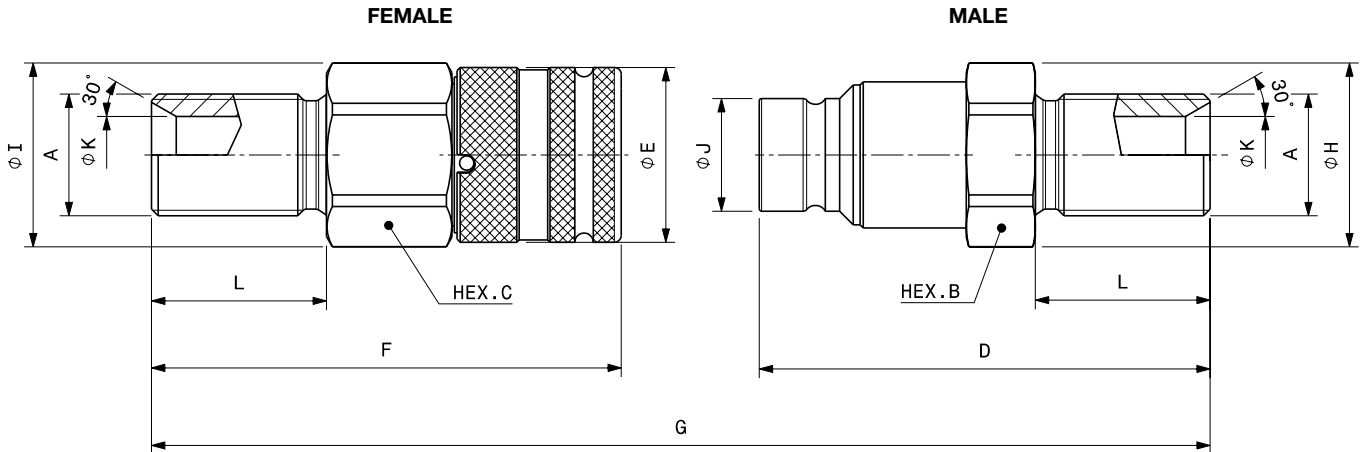
Locknuts available upon request.



Port description: MALE THREAD BSPP (ISO 8434-6)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length	Length		Hex		Diameter		Diameter		Length		Weight						
						mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb			
1/4"	F A7 1/4 BSP EXT	Female 801300030	6,3	1/4"	G 95,2	F	53,1	2,09	C	27,0	1,06	I	29,0	1,14	E	28,0	1,10	L	11,0	0,43	0,16	0,34
	M A7 1/4 BSP EXT	Male 801300029				D	52,9	2,08	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63	L	11,0	0,43	0,08	0,18
3/8"	F A9 3/8 BSP EXT	Female 801300010	10	3/8"	G 121,1	F	71,1	2,80	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	L	13,0	0,51	0,26	0,57
	M A9 3/8 BSP EXT	Male 801300009				D	66,0	2,60	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	L	13,0	0,51	0,14	0,31
3/8"	F A9 1/2 BSP EXT	Female 801300012	10	1/2"	G 122,6	F	71,1	2,80	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	L	14,5	0,57	0,26	0,57
	M A9 1/2 BSP EXT	Male 801300011				D	67,5	2,66	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	L	14,5	0,57	0,15	0,33
1/2"	F A13 1/2 BSP EXT	Female 801300018	12,5	1/2"	G 139,8	F	82,6	3,25	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	L	14,5	0,57	0,43	0,94
	M A13 1/2 BSP EXT	Male 801300017				D	74,5	2,93	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96	L	14,5	0,57	0,27	0,60
1/2"	F A13 3/4 BSP EXT	Female 801300020*	12,5	3/4"	G 143,8	F	84,6	3,33	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	L	16,5	0,65	0,45	0,98
	M A13 3/4 BSP EXT	Male 801300019*				D	76,5	3,01	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96	L	16,5	0,65	0,29	0,63
5/8"	F A15 3/4 BSP EXT	Female 801300032*	16	3/4"	G -	F	84,0	3,31	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	L	16,5	0,65	0,66	1,45
	M A15 3/4 BSP EXT	Male 801300033*				D	-	-	B	-	-	H	-	-	J	-	-	L	16,5	0,65	-	-

* Available upon request.

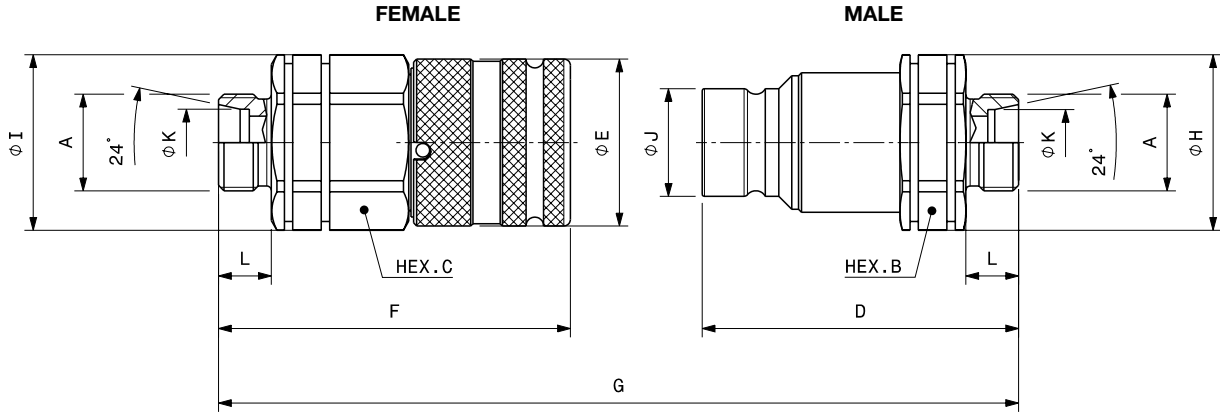


Port description: MALE THREAD BSPP SCHOTT and BULKHEAD (ISO 8434-6)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length	Length		Hex		Diameter		Diameter		Length		Weight						
						mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb			
3/8"	F A9 3/8 BSP BH32	Female 801300044	10	3/8"	G 159,1	F	90,1	3,55	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	L	32,0	32,00	0,29	0,63
	M A9 3/8 BSP BH32	Male 801300045				D	85,0	3,35	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	L	32,0	32,00	0,16	0,35
3/8"	F A9 1/2 BSP BH35	Female 801300054*	10	1/2"	G 165,8	F	93,4	3,68	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	L	35,0	35,00	0,31	0,68
	M A9 1/2 BSP BH35	Male 801300055*				D	88,4	3,48	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	L	35,0	35,00	0,19	0,41
1/2"	F A13 3/4 BSP BH38	Female 801300056	12,5	3/4"	G 182,8	F	102,1	4,02	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	L	38,0	38,00	0,46	1,01
	M A13 3/4 BSP BH38	Male 801300057				D	98,0	3,86	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96	L	38,0	38,00	0,33	0,73
3/4"	F A17 1 BSP BH41	Female 801300058	19	1"	G 221,3	F	127,3	5,01	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	L	41,0	41,00	1,00	2,19
	M A17 1 BSP BH41	Male 801300059				D	116,0	4,57	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	L	41,0	41,00	0,57	1,26

* Available upon request.

Locknuts available upon request.

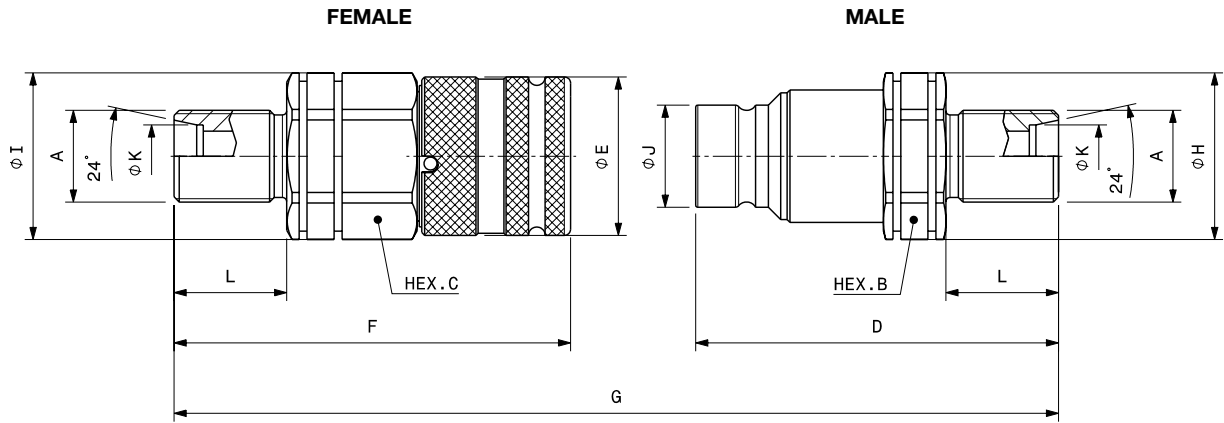


FLAT FACE

Port description: MALE THREAD L SERIES -24° CONE (ISO 8434-1 & DIN 2353)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length	Length		Hex		Diameter		Diameter		Diameter		Length		Weight									
						mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb						
1/4"	F A7 L8	Female 801308014	6,3	M14x1,5	G	93,2	3,67	F	52,1	2,05	C	27,0	1,06	I	29,0	1,14	E	28,0	1,10	K	8,2	0,32	L	10,00	0,39	0,16	0,34
	M A7 L8	Male 801308015						D	51,9	2,04	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63								
1/4"	F A7 L10	Female 801308010	6,3	M16x1,5	G	95,2	3,75	F	53,1	2,09	C	27,0	1,06	I	29,0	1,14	E	28,0	1,10	K	10,2	0,40	L	11,00	0,43	0,12	0,25
	M A7 L10	Male 801308011						D	52,9	2,08	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63								
1/4"	F A7 L12	Female 801308036*	6,3	M18x1,5	G	-	-	F	53,1	2,09	C	27,0	1,06	I	29,0	1,14	E	28,0	1,10	K	12,2	0,48	L	11,00	0,43	0,16	0,34
	M A7 L12	Male 801308037*						D	-	-	B	-	-	H	-	-	J	-	-								
3/8"	F A9 L8	Female 801308038	10	M14x1,5	G	117,5	4,63	F	69,0	2,72	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	K	8,0	0,32	L	10,00	0,39	0,27	0,59
	M A9 L8	Male 801308039						D	64,5	2,54	B	30,0	1,18	H	32,0	1,26	J	19,7	0,78								
3/8"	A 9 L10	Female 801308008	10	M16x1,5	G	119,1	4,69	F	69,6	2,74	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	K	10,2	0,40	L	11,00	0,43	0,26	0,57
	A 9 L10	Male 801308009						D	65,5	2,58	B	30,0	1,18	H	32,0	1,26	J	19,7	0,78								
3/8"	A 9 L12	Female 801308004	10	M18x1,5	G	117,1	4,61	F	67,6	2,66	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	K	12,2	0,48	L	11,00	0,43	0,25	0,55
	A 9 L12	Male 801308005						D	65,5	2,58	B	30,0	1,18	H	32,0	1,26	J	19,7	0,78								
3/8"	A 9 L15	Female 801308006	10	M22x1,5	G	119,1	4,69	F	68,6	2,70	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	K	15,2	0,60	L	12,00	0,47	0,26	0,56
	A 9 L15	Male 801308007						D	66,5	2,62	B	30,0	1,18	H	32,0	1,26	J	19,7	0,78								
3/8"	F A9 L18	Female 801308034	10	M26x1,5	G	119,1	4,69	F	68,6	2,70	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	K	18,2	0,72	L	12,00	0,47	0,27	0,60
	M A9 L18	Male 801308035						D	66,5	2,62	B	30,0	1,18	H	32,0	1,26	J	19,7	0,78								
1/2"	A 13 L12	Female 801308000	12,5	M18x1,5	G	132,8	5,23	F	79,1	3,11	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	K	12,2	0,48	L	11,00	0,43	0,42	0,92
	A 13 L12	Male 801308001						D	71,0	2,80	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96								
1/2"	A 13 L15	Female 801308002	12,5	M22x1,5	G	134,8	5,31	F	80,1	3,15	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	K	15,2	0,60	L	12,00	0,47	0,43	0,94
	A 13 L15	Male 801308003						D	72,0	2,83	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96								
1/2"	F A13 L18	Female 801308042	12,5	M26x1,5	G	134,8	5,31	F	80,1	3,15	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	K	18,2	0,72	L	12,00	0,47	0,44	0,96
	M A13 L18	Male 801308043						D	72,0	2,83	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96								
1/2"	F A13 L22	Female 801308040	12,5	M30x2	G	138,8	5,46	F	82,1	3,23	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	K	22,2	0,87	L	14,00	0,55	0,44	0,96
	M A13 L22	Male 801308041						D	74,0	2,91	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96								
5/8"	F A15 L15	Female 801308016	16	M22x1,5	G	139,9	5,51	F	84,5	3,33	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	K	15,2	0,60	L	12,00	0,47	0,59	1,29
	M A15 L15	Male 801308017						D	73,0	2,87	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06								
5/8"	F A15 L18	Female 801308018	16	M26x1,5	G	137,4	5,41	F	82,0	3,23	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	K	18,2	0,72	L	12,00	0,47	0,58	1,27
	M A15 L18	Male 801308019						D	73,0	2,87	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06								
5/8"	F A15 L22	Female 801308020	16	M30x2	G	137,8	5,46	F	81,4	3,20	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	K	22,2	0,87	L	14,00	0,55	0,55	1,21
	M A15 L22	Male 801308021						D	74,0	2,91	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06								
3/4"	F A17 L18	Female 801308022	19	M26x1,5	G	168,3	6,63	F	101,3	3,99	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	K	18,2	0,72	L	12,00	0,47	0,93	2,05
	M A17 L18	Male 801308023						D	89,0	3,50	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18								
3/4"	F A17 L22	Female 801308024	19	M30x2	G	167,3	6,59	F	100,3	3,95	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	K	22,2	0,87	L	14,00	0,55	0,91	2,00
	M A17 L22	Male 801308025						D	89,0	3,50	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18								

* Available upon request.

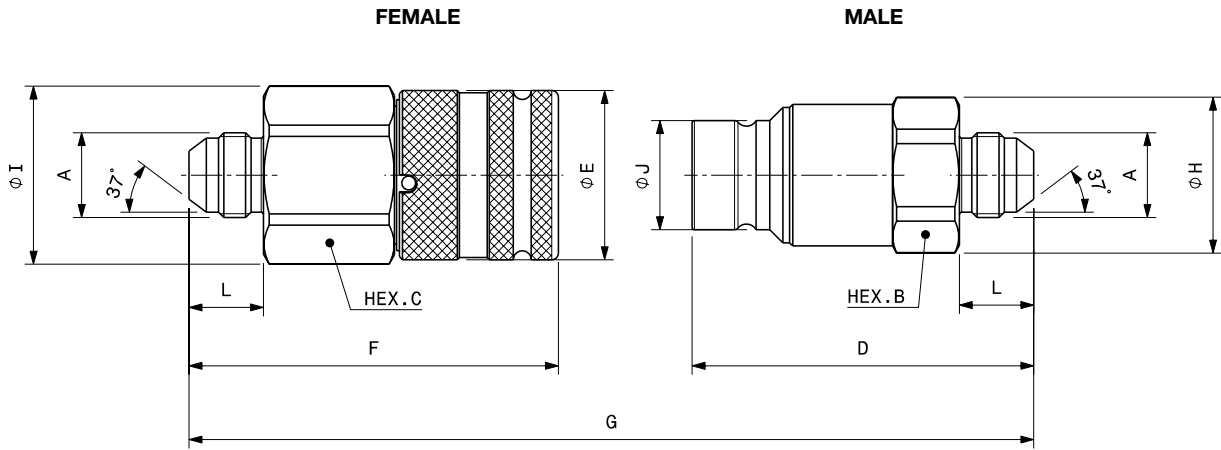


Port description: MALE THREAD L SERIES -24° CONE BULKHEAD (ISO 8434-1 & DIN 2353)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Diameter		Length		Weight		
					mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg
1/4"	F A7 L8 SCHOTT	Female 801310014	6,3	M14x1.5	G	123,2	4,85	F 67,1	2,64	C 27,0	1,06	I 29,0	1,14	E 28,0	1,10	K 8,2	0,32	L 25,0	0,98	0,17	0,36
	M A7 L8 SCHOTT	Male 801310015						D 66,9	2,63	B 22,0	0,87	H 23,8	0,94	J 16,1	0,63	-	-	-	-	-	-
1/4"	F A7 L10 SCHOTT	Female 801310010	6,3	M16x1.5	G	125,2	4,93	F 68,1	2,68	C 27,0	1,06	I 29,0	1,14	E 28,0	1,10	K 10,2	0,40	L 26,0	1,02	0,17	0,37
	M A7 L10 SCHOTT	Male 801310011						D 67,9	2,67	B 22,0	0,87	H 23,8	0,94	J 16,1	0,63	-	-	-	-	-	-
3/8"	F A9 L8 SCHOTT	Female 801310040*	10	M14x1.5	G	-	-	F -	-	C -	-	I -	-	E -	-	K 8,2	0,32	L 25,0	0,98	-	-
	M A9 L8 SCHOTT	Male 801310041*						D 79,5	3,13	B 30,0	1,18	H 32,0	1,26	J 19,7	0,78	-	-	-	-	-	-
3/8"	F A9 L10 SCHOTT	Female 801310008	10	M16x1.5	G	149,1	5,87	F 84,6	3,33	C 30,0	1,18	I 32,0	1,26	E 32,0	1,26	K 10,2	0,40	L 26,0	1,02	0,28	0,61
	M A9 L10 SCHOTT	Male 801310009						D 80,5	3,17	B 30,0	1,18	H 32,0	1,26	J 19,7	0,78	-	-	-	-	-	-
3/8"	F A9 L12 SCHOTT	Female 801310004	10	M18x1.5	G	147,1	5,79	F 82,6	3,25	C 30,0	1,18	I 32,0	1,26	E 32,0	1,26	K 12,2	0,48	L 26,0	1,02	0,27	0,59
	M A9 L12 SCHOTT	Male 801310005						D 80,5	3,17	B 30,0	1,18	H 32,0	1,26	J 19,7	0,78	-	-	-	-	-	-
3/8"	F A9 L15 SCHOTT	Female 801310006	10	M22x1.5	G	149,1	5,87	F 83,6	3,29	C 30,0	1,18	I 32,0	1,26	E 32,0	1,26	K 15,2	0,60	L 27,0	1,06	0,28	0,62
	M A9 L15 SCHOTT	Male 801310007						D 81,5	3,21	B 30,0	1,18	H 32,0	1,26	J 19,7	0,78	-	-	-	-	-	-
3/8"	F A9 L18 SCHOTT	Female 801310036	10	M26x1.5	G	149,1	5,87	F 83,6	3,29	C 30,0	1,18	I 32,0	1,26	E 32,0	1,26	K 18,2	0,72	L 27,0	1,06	0,31	0,67
	M A9 L18 SCHOTT	Male 801310037						D 81,5	3,21	B 30,0	1,18	H 32,0	1,26	J 19,7	0,78	-	-	-	-	-	-
1/2"	F A13 L12 SCHOTT	Female 801310000	12,5	M18x1.5	G	162,9	6,41	F 94,1	3,70	C 36,0	1,42	I 40,0	1,57	E 38,0	1,50	K 12,2	0,48	L 26,0	1,02	0,44	0,96
	M A13 L12 SCHOTT	Male 801310001						D 86,1	3,39	B 36,0	1,42	H 40,0	1,57	J 24,5	0,96	-	-	-	-	-	-
1/2"	F A13 L15 SCHOTT	Female 801310002	12,5	M22x1.5	G	164,9	6,49	F 95,1	3,74	C 36,0	1,42	I 40,0	1,57	E 38,0	1,50	K 15,2	0,60	L 27,0	1,06	0,45	1,00
	M A13 L15 SCHOTT	Male 801310003						D 87,1	3,43	B 36,0	1,42	H 40,0	1,57	J 24,5	0,96	-	-	-	-	-	-
1/2"	F A13 L22 SCHOTT	Female 801310034	12,5	M30x2	G	178,8	7,04	F 102,1	4,02	C 36,0	1,42	I 40,0	1,57	E 38,0	1,50	K 22,2	0,87	L 34,0	1,34	0,49	1,07
	M A13 L22 SCHOTT	Male 801310035						D 94,0	3,70	B 36,0	1,42	H 40,0	1,57	J 24,5	0,96	-	-	-	-	-	-
1/2"	F A13 L18 SCHOTT	Female 801310038*	12,5	M26x1.5	G	-	-	F 95,1	3,74	C 36,0	1,42	I 40,0	1,57	E 38,0	1,50	K 18,2	0,72	L 27,0	1,06	0,48	1,05
	M A13 L18 SCHOTT	Male 801310039*						D -	-	B -	-	H -	-	J -	-	-	-	-	-	-	-
5/8"	F A15 L18 SCHOTT	Female 801310018	16	M26x1.5	G	167,8	6,65	F 97,5	3,84	C 41,0	1,61	I 44,8	1,76	E 42,0	1,65	K 18,2	0,72	L 27,0	1,06	0,62	1,36
	M A15 L18 SCHOTT	Male 801310019						D 87,9	3,46	B 36,0	1,42	H 38,5	1,52	J 27,0	1,06	-	-	-	-	-	-
5/8"	F A15 L22 SCHOTT	Female 801310020*	16	M30x2	G	-	-	F -	-	C -	-	I -	-	E -	-	K 22,2	0,87	L 34,0	1,34	-	-
	M A15 L22 SCHOTT	Male 801310021*						D 94,0	3,70	B 36,0	1,42	H 38,5	1,52	J 27,0	1,06	-	-	-	-	-	-
3/4"	F A17 L18 SCHOTT	Female 801310022	19	M26x1.5	G	197,7	7,78	F 116,3	4,58	C 46,0	1,81	I 49,8	1,96	E 48,0	1,89	K 18,2	0,72	L 27,0	1,06	0,98	2,16
	M A17 L18 SCHOTT	Male 801310023						D 103,4	4,09	B 46,0	1,81	H 49,8	1,96	J 30,0	1,18	-	-	-	-	-	-
3/4"	F A17 L22 SCHOTT	Female 801310024	19	M30x2	G	202,2	7,96	F 120,3	4,74	C 46,0	1,81	I 49,8	1,96	E 48,0	1,89	K 22,2	0,87	L 34,0	1,34	0,97	2,13
	M A17 L22 SCHOTT	Male 801310025						D 103,9	4,29	B 46,0	1,81	H 49,8	1,96	J 30,0	1,18	-	-	-	-	-	-
1"	F A21 L22 SCHOTT	Female 801310026*	25	M30x2	G	-	-	F -	-	C -	-	I -	-	E -	-	K 22,2	0,87	L 34,0	1,34	-	-
	M A21 L22 SCHOTT	Male 801310027*						D 120,4	4,74	B 55,0	2,17	H 59,8	2,35	J 36,0	1,42	-	-	-	-	-	-
1"	F A21 L28 SCHOTT	Female 801310028*	25	M36x2	G	-	-	F 125,8	4,95	C 55,0	2,17	I 59,8	2,35	E 55,0	2,17	K 28,2	1,11	L 34,0	1,34	1,38	3,04
	M A21 L28 SCHOTT	Male 801310029*						D -	-	B -	-	H -	-	J -	-	-	-	-	-	-	-

* Available upon request.

Locknuts available upon request.



Port description: MALE THREAD JIC - (ISO 8434-2 & SAE J514)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length	Length		Hex			Diameter		Diameter		Length		Weight							
						mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
3/8"	F A9 5/8 JIC	Female 801306000*	10	7/8 -14UNF	G	132,2	5,20	F	75,9	2,99	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	L	19,3	0,76	0,28	0,61
	M A9 5/8 JIC	Male 801306001*						D	72,3	2,85	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78					
3/8"	F A9 3/8 JIC	Female 801306002*	10	9/16 -18UNF	G	127,1	5,00	F	74,1	2,92	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	L	14,1	0,56	0,27	0,60
	M A9 3/8 JIC	Male 801306003*						D	69,0	2,72	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78					
3/8"	F A9 1/2 JIC	Female 801306004	10	3/4 -16UNF	G	128,0	5,04	F	74,3	2,93	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	L	16,7	0,66	0,26	0,57
	M A9 1/2 JIC	Male 801306005						D	69,7	2,74	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78					
1/2"	F A13 7/8 JIC	Female 801306006	12,5	1-3/16-12UN	G	156,0	6,14	F	90,7	3,57	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	L	22,6	0,89	0,42	0,93
	M A13 7/8 JIC	Male 801306007						D	82,6	3,25	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96					
1/2"	F A13 1 JIC	Female 801306008*	12,5	1-5/16-12UN	G	157,0	6,18	F	91,2	3,59	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	L	23,1	0,91	0,41	0,91
	M A13 1 JIC	Male 801306009*						D	83,1	3,27	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96					
1/2"	F A13 3/4 JIC	Female 801306012	12,5	1-1/16-12UN	G	154,6	6,09	F	90,0	3,54	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	L	21,9	0,86	0,41	0,90
	M A13 3/4 JIC	Male 801306013						D	81,9	3,22	B	36,0	1,42	H	40,0	1,57	J	24,5	0,96					
1/2"	F A13 5/8 JIC	Female 801306018*	12,5	7/8 -14UNF	G	-	-	F	-	-	C	-	-	I	-	-	E	-	-	L	19,3	0,76	-	-
	M A13 5/8 JIC	Male 801306019*						D	79,3	3,12	B	36,0	1,42	H	35,0	1,38	J	24,5	0,96					
5/8"	F A15 1 JIC	Female 801306020*	16	1-5/16-12UN	G	150,0	5,91	F	84,5	3,33	C	41,0	1,61	I	44,8	1,76	E	42,0	1,65	L	23,1	0,91	0,54	1,18
	M A15 1 JIC	Male 801306021*						D	83,1	3,27	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06					

* Available upon request.

Zinc Nickel version

A Series is available upon request also in Zinc Nickel version.

The Zinc Nickel plating ensures high resistance to corrosion and it is ideal for hydraulic equipment applications where an improved corrosion resistance is necessary.

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

While maintaining the same interchangeability, the shape differs from the A series in Cr3 due to the addition of the groove for the cap lanyard and in some cases the dimensions may also be different. Request the drawing with overall dimensions.

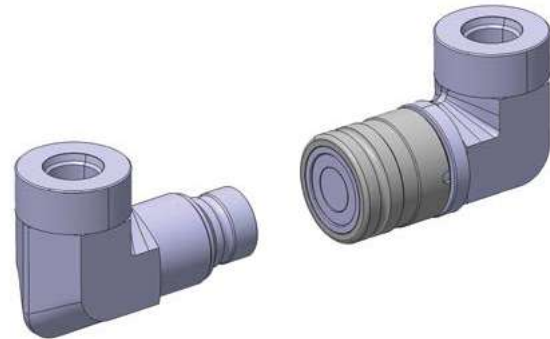


90° version

A Series is available upon request also in special configuration with 90° fitting.

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

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



Panel mounting

A Series is available upon request also as panel mounting version.

BC: Snap Ring Solution
Grooves on the male body and on the female sleeve.

BR: Snap Ring Solution
Grooves on the male adaptor and on the female adaptor.

BT: Lock Ring Solution
Thread on the male body and female body.

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



BC

BR

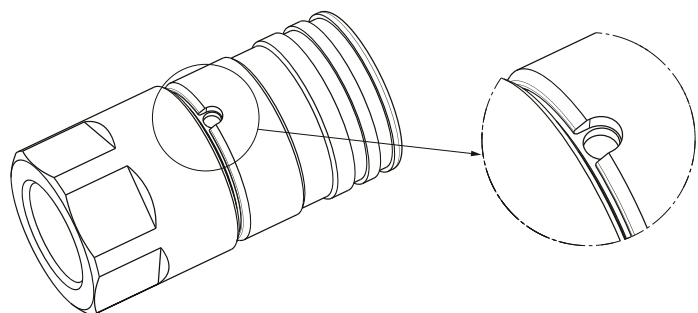
BT

Using the BC and BT versions mounted on the panel, you obtain the breakaway function, avoiding damages of the hydraulic connections in case of strong axial force during unintended disconnection.

SS version

For specific cases, A Series is available upon request without the safety lock ball.

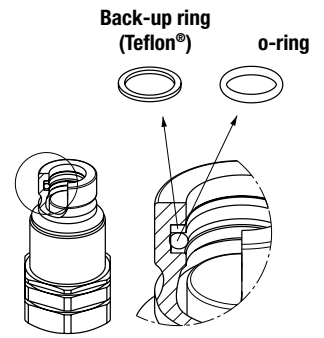
For additional information, please contact Stucchi Technical Support.





SPARE KIT SEAL FOR MALE

Repair kit / OR+BK		
Body Size	Description	Part Number
1/4"	MA7	815700519
3/8"	MA9	815700337
1/2"	MA13	815700339
5/8"	MA15	815700341
3/4"	MA17	815700343
1"	MA21	815700345
1 1/4"	MA25	815700693
1 1/2"	MA30	815700521



O-Ring in Nitrile
BackUp in Teflon®

PROTECTIVE CAPS FOR A 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.

For the A series are available three kind of materials:

- plastic caps complete with lanyard (standard color: red, other colors available upon request)
- aluminum caps complete with lanyard (standard colors: natural aluminum, other colors available upon request)
- plastic caps, clip system (standard color: red, other colors available upon request)

Cap for FEMALE coupling Plastic

Cap for MALE coupling Plastic

Protective Cap					
Body Size	Port size	Description	Part number		Material/Color
			Cap for Female	Cap for Male	
1/8"	1/8"	A4	-	815100021	Plastic/Red
1/4"	1/4"	A7	815100000	815100023	Plastic/Red
3/8"	3/8"	A9	815100002	815100027	Plastic/Red
3/8"	1/2"	A9	815100002	815100027	Plastic/Red
1/2"	1/2"	A13	815100006	815100031	Plastic/Red
1/2"	3/4"	A13	815100006	815100031	Plastic/Red
5/8"	3/4"	A15	815100008	815100011	Plastic/Red
5/8"	1"	A15	815100008	815100011	Plastic/Red
3/4"	3/4"	A17	815100010	815100013	Plastic/Red
3/4"	1"	A17	815100010	815100013	Plastic/Red
1"	3/4"	A21	815100012	815100015	Plastic/Red
1"	1"	A21	815100012	815100015	Plastic/Red
1"	1-1/4"	A21	815100012	815100015	Plastic/Red
1"	1-1/4"	A21	815100012	815100015	Plastic/Red

Cap for FEMALE coupling Aluminum

Cap for MALE coupling Aluminum

Protective Cap				
Body Size/Description	Part Number		Material/Color	
	Cap for Female	Cap for Male		
1/4" A7	816005002	816005003	Aluminum/Natural	
3/8" A9	816005004	816005005	Aluminum/Natural	
1/2" A13	816005006	816005007	Aluminum/Natural	
3/4" A17	816005010	816005011	Aluminum/Natural	
1" A21	816005012	816005013	Aluminum/Natural	
1 1/4" A25	815205020	815205021	Aluminum/Natural	
1 1/2" A30	815105014	815105017	Aluminum/Natural	

Flip cap for FEMALE coupling Plastic

Close **Open**

Protective Cap			
Body Size/Description	Part Number		Material/Color
	Cap for Female		
3/8" FA9	815200002		Plastic/Red
1/2" FA13	815200004		Plastic/Red
5/8" FA15	815200006		Plastic/Red
3/4" FA17	815200008		Plastic/Red



APM SERIES

INTERCHANGE > ISO 16028 - NFPA T3.20.15 - HTMA (size 3/8")



Stucchi®

Easy
CUP



TECHNICAL FEATURES AND OPTIONS



Interchange
ISO 16028
NFPA T3.20.15
HTMA (size 3/8")



Sealing description
Nitrile NBR



Connection system
Push



Available sizes
From 3/8"
to 1-1/2"



Material/treatment
Carbon steel
/Cr3



Available threads
BSP - NPT - SAE



Operating pressure
Up to 350 bar



Locking mechanism
Locking ball+
Safety Lock
(on female coupling)



Flow rate
Up to 750 l/min



Temperature (°C)
-20°C / +100°C



Valving style
Flat Face



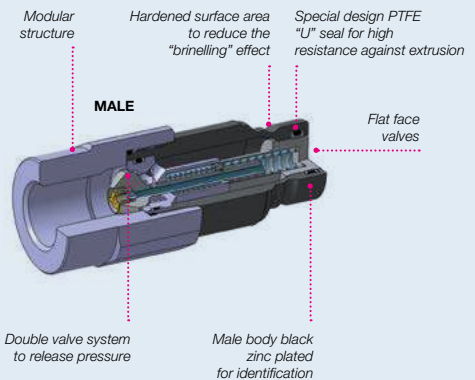
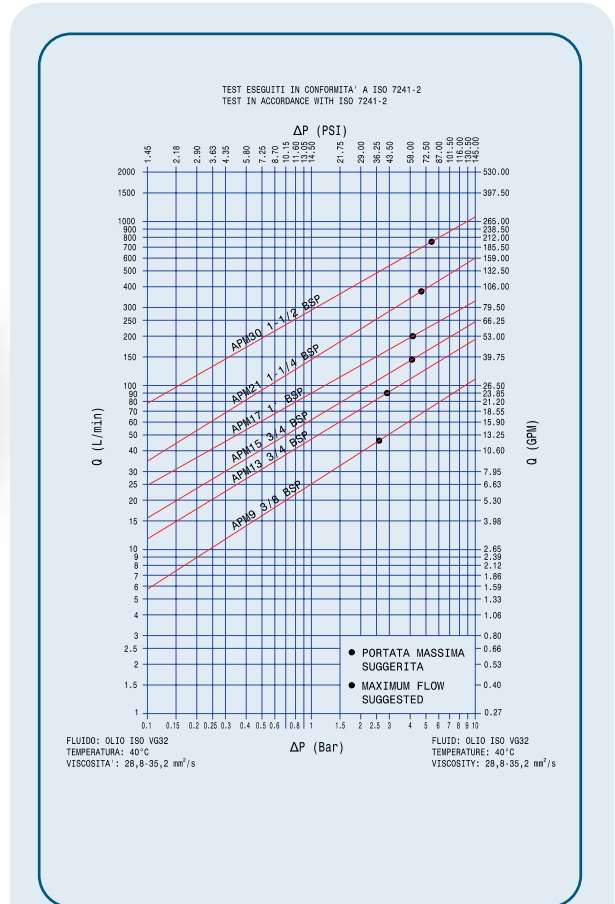
Connection under pressure
Connection: Male side only
(see Benefits).
Disconnection: Not allowed.

BENEFITS

- Easy connection with male side under residual pressure (female side to drain) thanks to the internal valve.
- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection.
- Internal valve design creates minimal pressure drop, maintaining circuit efficiency in the system.
- Male body black zinc plated for identification
- The modular design allows flexibility with a wide range of configurations.
- Good resistance to pressure impulses.
- 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 push the male half towards the female half or vice versa.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect turn the external sleeve until the sleeve lock notch match the safety lock ball and push back the sleeve.



MAIN APPLICATIONS



Agriculture



Oil & Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry

FLAT FACE

PERFORMANCES

Size		Series/Size	Max. flow suggested		Connect force		Disconnect force		Spillage*
in	mm (ISO)		l/min	gpm	N	lbf	N	lbf	ml
3/8	10,0	APM9	46	12,19	165	37,13	40	9,00	0,02
1/2	12,5	APM13	90	23,85	190	42,75	70	15,75	0,01
5/8	16,0	APM15	148	39,22	160	36,00	50	11,25	0,03
3/4	19,0	APM17	200	53,00	260	58,50	80	18,00	0,18
1	25,0	APM21	378	100,17	300	67,50	90	20,25	0,18
1 1/2		APM30	750	198,75	440	99,00	80	18,00	0,40

Size	Series/Size	Max. operating pressure				Burst pressure			
		Coupled		Male		Coupled		Male	
		MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/8	APM9	35	5075	35	5075	100	14500	120	17400
1/2	APM13	33	4785	33	4785	100	14500	120	17400
5/8	APM15	33	4785	33	4785	100	14500	120	17400
3/4	APM17	33	4785	33	4785	100	14500	120	17400
1	APM21	30	4350	30	4350	80	11600	100	14500
1 1/2	APM30	27	3915	27	3915	80	11600	100	14500

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

Theoretical calculation of connect force with residual pressure:

$$F_p (N) = F_i + (P_m \times 5)$$

F_i = Connection force without residual pressure (N)

P_m = Residual pressure in the male coupling (MPa)

EXAMPLE

To connect the male coupling APM13 with 20 Mpa of residual pressure, it is necessary the following force:

$$F_p = F_i + (P_m \times 5) = 190 + (20 \times 5) = 290 \text{ N}$$

Different possible configurations:

Different threads available upon request.

Temperature range:

Seals in NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F)

Please read carefully Instructions and warnings for proper selection of the products.

Tests performed:

Tested with female couplings "A" series.

The couplings have been tested at max. operating pressure for 100.000 impulses 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.

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

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

Connection with residual pressure (pressure trapped in the circuit) allowed with female to drain.

Do not use the male coupling disconnected with high impulse pressure.

Do not couple-uncouple with flow in the circuit.

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.

It is important to limit contamination in the circuit to avoid compromising the function of the internal valves.

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

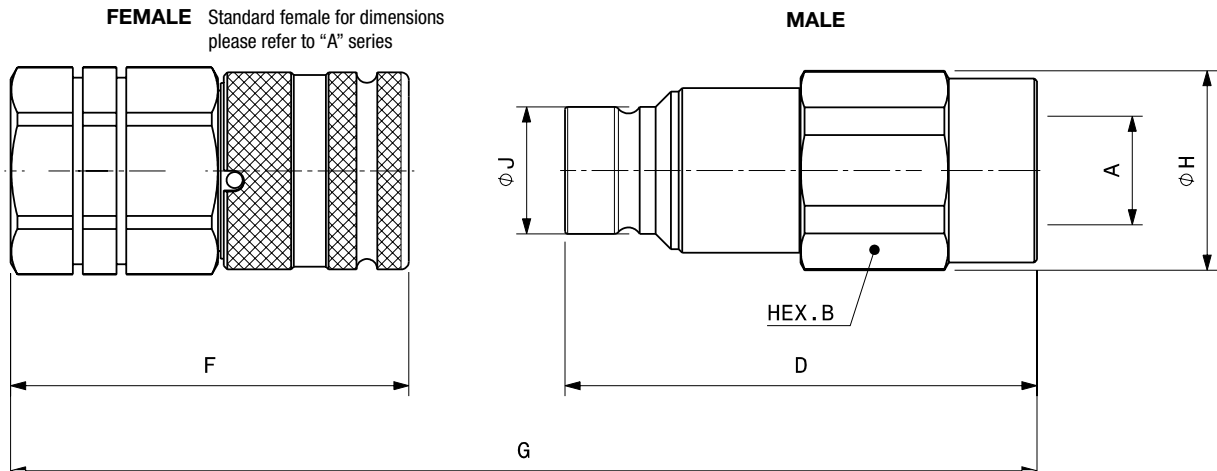
In case of doubt please contact Stucchi Technical Support.

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.

OVERALL DIMENSIONS

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

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight					
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb				
3/8"	M APM9 3/8 BSP	Male 805200001	10,0	3/8"	G (F+D)-16	(F+D)-0,630	D	80,0	3,15	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,20	0,43
3/8"	M APM9 1/2 BSP	Male 805200003	10,0	1/2"	G (F+D)-16	(F+D)-0,630	D	82,5	3,25	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,20	0,43
1/2"	M APM13 1/2 BSP	Male 805200005	12,5	1/2"	G (F+D)-17,3	(F+D)-0,681	D	91,0	3,58	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,41	0,90
1/2"	M APM13 3/4 BSP	Male 805200007	12,5	3/4"	G (F+D)-17,3	(F+D)-0,681	D	93,5	3,68	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,40	0,89
5/8"	M APM15 3/4 BSP	Male 805200009	16,0	3/4"	G (F+D)-17,6	(F+D)-0,693	D	95,0	3,74	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,43	0,94
3/4"	M APM17 1 BSP	Male 805200011	19,0	1"	G (F+D)-22	(F+D)-0,866	D	108,5	4,27	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	0,75	1,65
1"	M APM21 1-1/4 BSP	Male 805200017	25,0	1 1/4"	G (F+D)-23	(F+D)-0,906	D	123,5	4,86	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	1,16	2,56
1-1/2"	M APM30 1-1/2 BSP	Male 805200015	-	1 1/2"	G (F+D)-28,6	(F+D)-1,126	D	146,9	5,78	B	70,0	2,76	H	75,8	2,98	J	57,0	2,24	2,58	5,69

Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight					
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb				
3/8"	M APM9 3/8 NPT	Male 805201001	10,0	3/8"	G (F+D)-16	(F+D)-0,630	D	80,0	3,15	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,21	0,46
3/8"	M APM9 1/2 NPT	Male 805201003	10,0	1/2"	G (F+D)-16	(F+D)-0,630	D	82,5	3,25	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,21	0,45
1/2"	M APM13 1/2 NPT	Male 805201005	12,5	1/2"	G (F+D)-17,3	(F+D)-0,681	D	91,0	3,58	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,43	0,95
1/2"	M APM13 3/4 NPT	Male 805201007	12,5	3/4"	G (F+D)-17,3	(F+D)-0,681	D	93,5	3,68	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,42	0,91
5/8"	M APM15 3/4 NPT	Male 805201009	16,0	3/4"	G (F+D)-17,6	(F+D)-0,693	D	95,0	3,74	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,44	0,96
3/4"	M APM17 1 NPT	Male 805201011	19,0	1"	G (F+D)-22	(F+D)-0,866	D	108,5	4,27	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	0,76	1,68
1"	M APM21 1-1/4 NPT	Male 805201017	25,0	1 1/4"	G (F+D)-23	(F+D)-0,906	D	123,5	4,86	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	1,20	2,65
1-1/2"	M APM30 1-1/2 NPT	Male 805201015	-	1 1/2"	G (F+D)-28,6	(F+D)-1,126	D	146,9	5,78	B	70,0	2,76	H	75,8	2,98	J	57,0	2,24	2,60	5,72

Port description: FEMALE THREAD SAE (ISO 11926-1 & SAE J1926-1)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight					
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb				
3/8"	M APM9 1/2 SAE	Male 805204001	10,0	3/4-16UNF	G (F+D)-16	(F+D)-0,630	D	82,5	3,25	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,21	0,45
1/2"	M APM13 5/8 SAE	Male 805204003	12,5	7/8-14UNF	G (F+D)-17,3	(F+D)-0,681	D	91,0	3,58	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,41	0,91
1/2"	M APM13 3/4 SAE	Male 805204005	12,5	1-1/16-12UN	G (F+D)-17,3	(F+D)-0,681	D	93,5	3,68	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,40	0,88
5/8"	M APM15 3/4 SAE	Male 805204007	16,0	1-1/16-12UN	G (F+D)-17,6	(F+D)-0,693	D	95,0	3,74	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,43	0,94
3/4"	M APM17 1 SAE	Male 805204009	19,0	1-5/16-12UN	G (F+D)-22	(F+D)-0,866	D	108,5	4,27	B	46,0	1,81	H	49,8	1,96	J	30,0	1,18	0,76	1,66
1"	M APM21 1-1/4 SAE	Male 805204017	25,0	1-5/8-12UN	G (F+D)-23	(F+D)-0,906	D	123,5	4,86	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	1,19	2,61
1-1/2"	M APM30 1-1/2 SAE	Male 805204015	-	1-7/8-12UN	G (F+D)-28,6	(F+D)-1,126	D	146,9	5,78	B	70,0	2,76	H	75,8	2,98	J	57,0	2,24	2,56	5,64

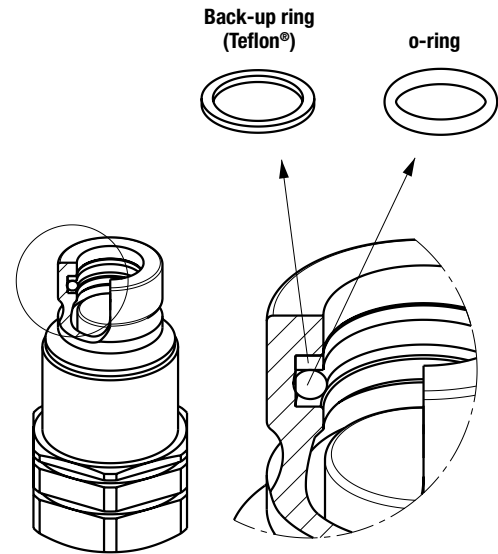
To calculate G see measure F in the leaflet A series



SPARE KIT SEAL FOR MALE

Repair kit / OR+BK		
Body Size	Description	Part Number
3/8"	M APM9	815700337
1/2"	M APM13	815700339
5/8"	M APM15	815700341
3/4"	M APM17	815700655
1"	M APM21	815700345
1 1/2"	M APM30	815700697*

* OR + O-Ring holder

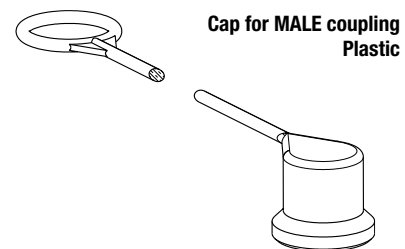


O-Ring in NBR
BackUp in PTFE

PROTECTIVE CAPS FOR APM 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 protection caps for APM couplings are manufactured in plastic with connection lanyard (standard color red, other colors available upon request).



Protective Cap				
Body Size	Port size	Description	Part number	Material/Color
3/8"	3/8"	M APM9	815100025	Plastic/Red
3/8"	1/2"	M APM9	815100027	Plastic/Red
1/2"	1/2"	M APM13	815100029	Plastic/Red
1/2"	3/4"	M APM13	815100031	Plastic/Red
5/8"	3/4"	M APM15	815100011	Plastic/Red
3/4"	1"	M APM17	815100013	Plastic/Red
1"	1-1/4"	M APM21	815100015	Plastic/Red
1-1/2"	1-1/4"	M APM30	815100017	Plastic/Red



A-HD SERIES

INTERCHANGE > ISO 16028 - NFPA T3.20.15 - HTMA (size 3/8")



Stucchi®

FLAT FACE



TECHNICAL FEATURES AND OPTIONS

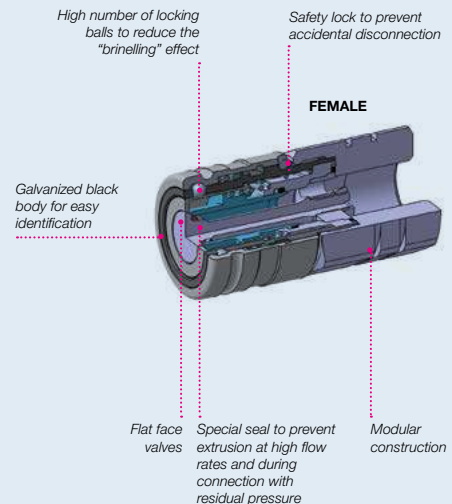
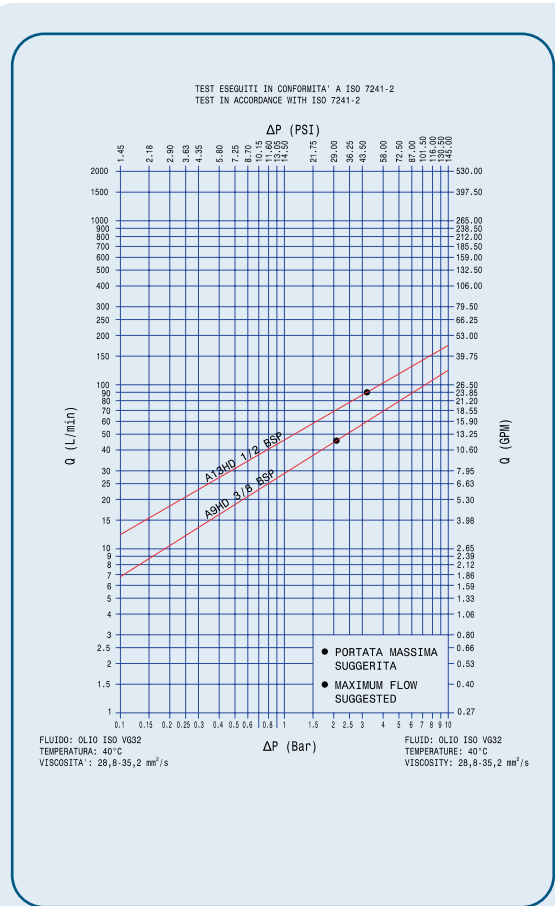
Interchange ISO 16028 NFPA T3.20.15 HTMA (size 3/8")	Sealing description Nitrile NBR	Connection system Push
Available sizes from 3/8" to 1/2"	Material/treatment Carbon steel /Cr3	Available threads BSP - NPT - SAE
Operating pressure Up to 350 bar	Locking mechanism Locking ball + Safety Lock	Flow rate Up to 90 l/min
Temperature (°C) -20°C / +100°C	Valving style Flat face	Connection under pressure Connection: Female side only (see Benefits). Disconnection: Not allowed.

BENEFITS

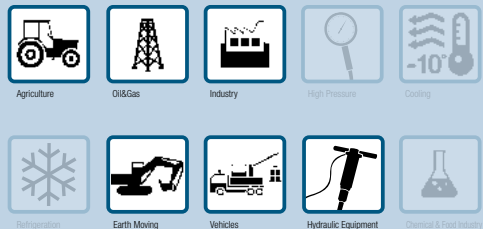
- Easy connection with female side under residual pressure (male side to drain) thanks to the special Stucchi design.
- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection.
- Internal valve design creates minimal pressure drop and maintaining circuit efficiency in the system
- The modular design allows flexibility with a wide range of configurations.
- Good resistance to pressure impulses.
- Galvanized black body for easy identification
- 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 push the male half towards the female half or vice versa.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect turn the external sleeve until the sleeve lock notch match the safety lock ball and push back the sleeve.



MAIN APPLICATIONS



PERFORMANCES

Size		Series/Size	Max. flow suggested		Connect force		Disconnect force		Spillage*
in	mm (ISO)		l/min	gpm	N	lbf	N	lbf	ml
3/8	10	F -A9HD	46	12,19	190	42,75	30	6,75	0,01
1/2	12,5	F- A13HD	90	23,85	170	38,25	55	12,37	0,02

Size	Series/Size	Max. operating pressure				Burst pressure			
		Coupled		Female		Coupled		Female	
in		MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/8	F- A9HD	35	5075	35	5075	100	14500	100	14500
1/2	F- A13HD	33	4785	33	4785	100	14500	100	14500

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

Theoretical calculation of connect force with residual pressure:

$$F_p (N) \text{ size } 3/8" = F_i + (P_f \times 44)$$

$$F_p (N) \text{ size } 1/2" = F_i + (P_f \times 66)$$

F_p = Connection force with residual pressure (N)

F_i = Connection force without residual pressure (N)

P_f = Residual pressure in the female coupling (MPa)

EXAMPLE

To connect the female coupling A9HD with 5 Mpa of residual pressure, the following force is necessary:

$$F_p = F_i + (P_f \times 44) = 190 + (5 \times 44) = 410 \text{ N}$$

This is the maximum force required to open the female valve in order to release pressure.

It is not necessary to apply this force during the entire connection but just for a short stroke (about 1 mm).

Different possible configurations:

Different threads available upon request.

Temperature range:

Standard seals in NBR, PUR, POM: from -20 °C to +100 °C (from -4 °F to +212 °F).

Please read carefully Instructions and warnings for proper selection of the products.

Tests performed:

Tested with male couplings "A" series

The couplings have been tested at max. operating pressure for 1.000.000 impulses in connected position 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.

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

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

Connection with residual pressure (pressure trapped in the circuit) allowed with male to drain (please check the hydraulic circuit).

Do not use the female coupling disconnected with high impulse pressure.

Do not couple-uncouple with flow in the circuit.

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.

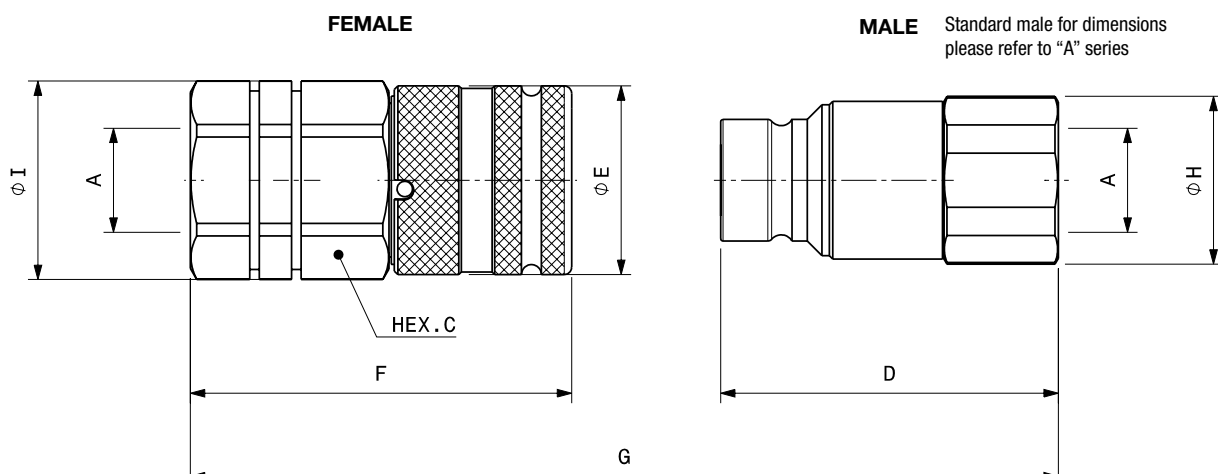
The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.

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.

OVERALL DIMENSIONS



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

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
3/8"	F A9HD 3/8 BSP	Female 808300004	10,0	3/8"	G	(F+D)-16	(F+D)-0,630	F	64,8	2,55	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,28	0,62
3/8"	F A9HD 1/2 BSP	Female 808300006	10,0	1/2"	G	(F+D)-16	(F+D)-0,630	F	69,8	2,75	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,29	0,64
1/2"	F A13HD 1/2 BSP	Female 808300008	12,5	1/2"	G	(F+D)-17,3	(F+D)-0,681	F	76,8	3,02	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,47	1,03
1/2"	F A13HD 3/4 BSP	Female 808300010	12,5	3/4"	G	(F+D)-17,3	(F+D)-0,681	F	83,8	3,30	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,48	1,06

Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
1/2"	F A13HD 1/2 NPT	Female 808301008	12,5	1/2"	G	(F+D)-16	(F+D)-0,630	F	76,8	3,02	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,47	1,04
1/2"	F A13HD 3/4 NPT	Female 808301010	12,5	3/4"	G	(F+D)-16	(F+D)-0,630	F	83,8	3,30	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,49	1,07

Port description: FEMALE THREAD SAE (ISO 11926-1 & SAE J1926-1)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
3/8"	F A9HD 1/2 SAE	Female 808304008*	10,0	3/4-16 UNF	G	(F+D)-16	(F+D)-0,630	F	69,8	2,75	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,30	0,66
3/8"	F A9HD 5/8 SAE	Female 808304010*	10,0	7/8-14UNF	G	(F+D)-17,3	(F+D)-0,681	F	71,8	2,83	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,29	0,64
1/2"	F A13HD 1/2 SAE	Female 808304016	12,5	3/4-16UNF	G	(F+D)-17,3	(F+D)-0,681	F	76,8	3,02	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,48	1,05
1/2"	F A13HD 5/8 SAE	Female 808304012	12,5	7/8-14UNF	G	(F+D)-17,6	(F+D)-0,693	F	78,8	3,10	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,47	1,04
1/2"	F A13HD 3/4 SAE	Female 808304014	12,5	1-1/16-12UNF	G	(F+D)-22	(F+D)-0,866	F	83,8	3,30	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,47	1,03

* Available upon request.

Also possible with following male threads:

- SAE
- JIC
- JIC Bulkhead. Locknuts available upon request.

Please check availability by contacting your Stucchi contact.

To calculate G see measure D in the leaflet A series.

Panel mounting

A-HD Series is available upon request also as panel mounting version.

BC: Snap Ring Solution
Grooves on the female sleeve.

BR: Snap Ring Solution
Grooves on the female adaptor.

BT: Lock Ring Solution
Thread on the female body.

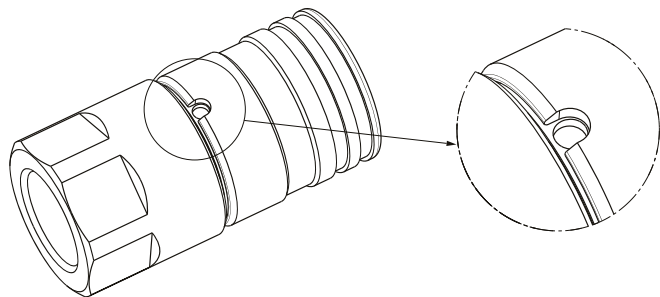
For specific codes, dimensions or any other information, please contact Stucchi Technical Support.

Using the BC and BT versions mounted on the panel, you obtain the breakaway function, avoiding damages of the hydraulic connections in case of strong axial force during unintended disconnection.


SS version

For specific cases, A-HD Series is available upon request without the safety lock ball.

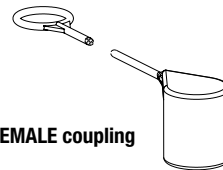
For additional information, please contact Stucchi Technical Support.


PROTECTIVE CAPS FOR A-HD 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 A-HD couplings are manufactured in two versions:

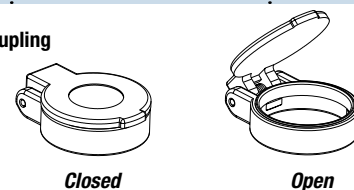
- Plastic with connection lanyard (standard color red, other colors available upon request).
- Plastic flip caps version (standard color red, other colors available upon request).



**Cap for FEMALE coupling
Plastic**

Body Size/Description		Protective Cap Part Number	Material/Color
		Cap for Female	
3/8"	F A9HD	815100002	Plastic/Red
1/2"	F A13HD	815100004	Plastic/Red

**Flip cap for FEMALE coupling
Plastic**



Body Size/Description		Protective Cap Part Number	Material/Color
		Cap for Female	
3/8"	A9HD	815200002	Plastic/Red
1/2"	A13HD	815200004	Plastic/Red

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AXSERIES

INTERCHANGE > ISO 16028 - NFPA T3.20.15 - HTMA (size 3/8")















Stucchi®

FLAT FACE



TECHNICAL FEATURES AND OPTIONS

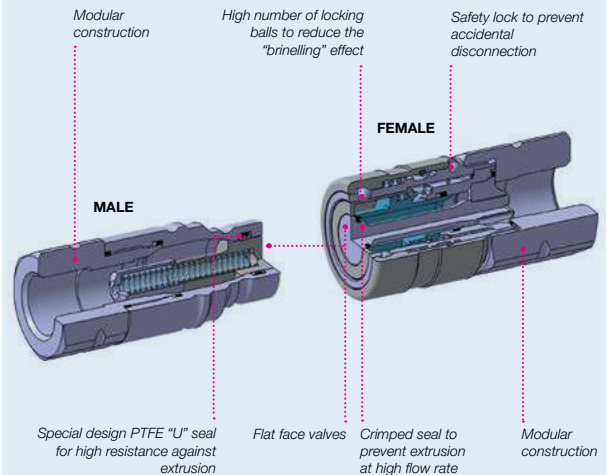
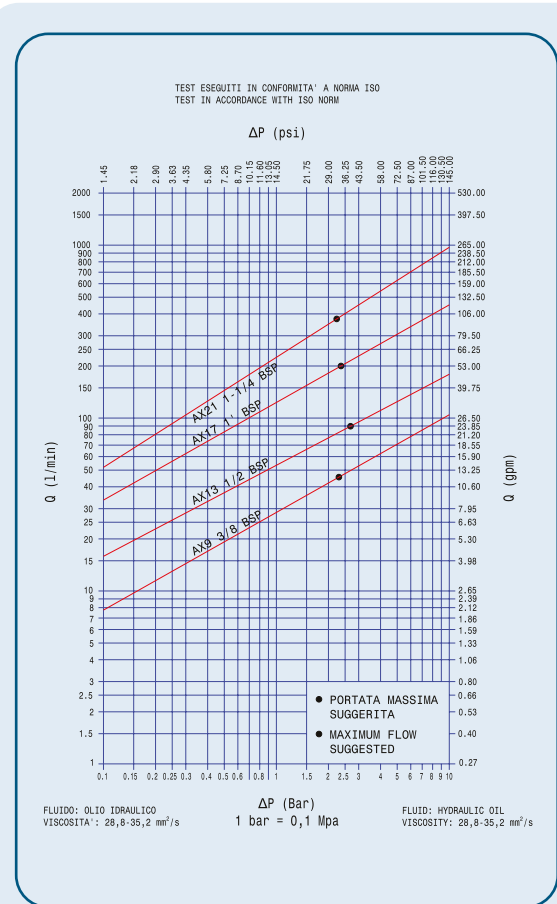
 Interchange ISO 16028 NFPA T3.20.15 HTMA (size 3/8")	 Sealing description FKM (VITON®)	 Connection system Push
 Available sizes from 3/8" to 1"	 Material Stainless steel (AISI 316L)	 Available threads BSP - METRIC
 Operating pressure Up to 350 bar	 Locking mechanism Locking ball + Safety Lock	 Flow rate Up to 378 l/min
 Temperature (°C) -15°C / +180°C	 Valving style Flat face	 Connection under pressure Connection: not allowed Disconnection: not allowed

BENEFITS

- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection.
- Internal valve design creates minimal pressure drop, maintaining circuit efficiency in the system.
- The modular design allows flexibility with a wide range of configurations.
- Optimal corrosion resistance.
- 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 push the male half towards the female half or vice versa.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect turn the external sleeve until the sleeve lock notch match the safety lock ball and push back the sleeve.



MAIN APPLICATIONS



PERFORMANCES

Size		Series/Size	Max. flow suggested		Connect force		Disconnect force		Spillage*
in	mm (ISO)		l/min	gpm	N	lbf	N	lbf	ml
3/8	10	AX9	46	12,19	200	45	45	10,12	0,01
1/2	12,5	AX13	90	23,85	165	37,12	58	13,05	0,02
3/4	19	AX17	200	53	255	57,37	80	18	0,03
1	25	AX21	378	100,17	285	64,12	110	24,75	0,03

Size	Series/Size	Max. operating pressure					
		Coupled		Male		Female	
in		MPa	psi	MPa	psi	MPa	psi
3/8	AX9	35	5075	35	5075	35	5075
1/2	AX13	33	4785	33	4785	33	4785
3/4	AX17	33	4785	33	4785	33	4785
1	AX21	30	4350	30	4350	30	4350

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

Material:

- Construction: Stainless steel AISI 316L
- Springs: AISI 302
- Locking ball: AISI 316

Different possible configurations:

Size AX7 and AX15 upon request.
Different threads available upon request.

Temperature range:

Seals in FKM (VITON®): from -15°C to +180°C (from +5 °F to +356 °F).
Seals in NBR (Nitrile) with water: from +5°C to +60°C (from +41°F to +140°F).
Different seals available upon request.

WARNING

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 use the female coupling disconnected with high impulse pressure.

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).

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.

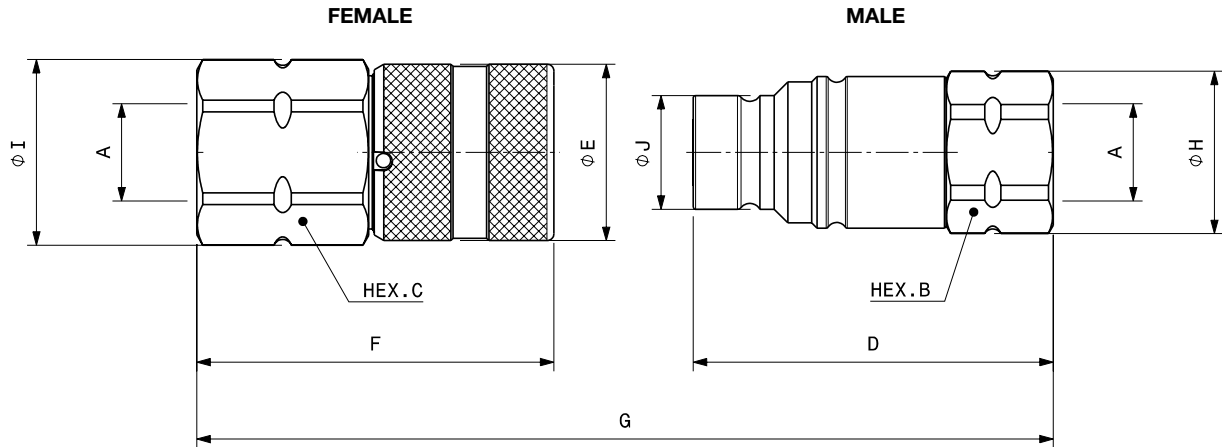
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For specific, product-related, instructions, please contact Stucchi technical service.

OVERALL DIMENSIONS



Port description: FEMALE THREAD SAE (SAE J1926-1 or ISO 11926-1)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
3/8"	F AX9 3/8 SAE	Female 808504104 *	10	9/16-18UNF	G	118,8	4,68	F	69,4	2,73	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,30	0,66
	M AX9 3/8 SAE	Male 808504105 *						D	65,4	2,57	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,16	0,34
3/8"	F AX9 1/2 SAE	Female 808504106	10	3/4-16UNF	G	125,8	4,95	F	74,4	2,93	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,33	0,72
	M AX9 1/2 SAE	Male 808504107						D	67,4	2,65	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,16	0,35
3/4"	F AX17 3/4 SAE	Female 808504114	18	1-1/16-12UN	G	167,3	6,59	F	103,8	4,09	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	1,08	2,37
	M AX17 3/4 SAE	Male 808504115						D	85,7	3,37	B	46,0	1,81	H	49,5	1,95	J	30,0	1,18	0,54	1,18
3/4"	F AX17 1" SAE	Female 808504120 *	19	1-5/16-12UN	G	170,3	6,70	F	103,8	4,09	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	-	-
	M AX17 1" SAE	Male 808504121 *						D	88,7	3,49	B	46,0	1,81	H	49,5	1,95	J	30,0	1,18	-	-
1"	F AX21 114 SAE	Female 808504122 *	25	1-5/8-12UN	G	185,8	7,31	F	108,3	4,26	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,42	3,13
	M AX21 114 SAE	Male 808504123 *						D	100,2	3,94	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,82	1,80

* Available upon request.

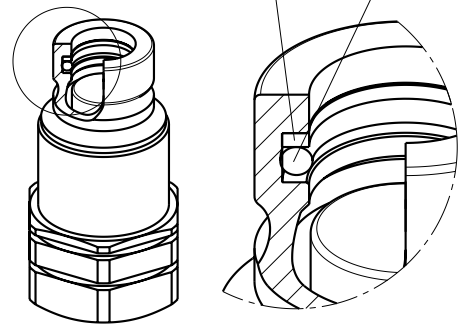
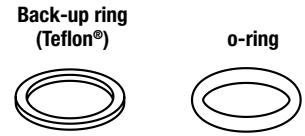
Port description: FEMALE THREAD BSPP (ISO 1179-1)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
3/8"	F AX9 3/8 BSP	Female 808500104	10	3/8"	G	118,8	4,67	F	69,4	2,73	C	30,0	1,18	I	32,0	1,26	E	32,0	1,26	0,30	0,66
	M AX9 3/8 BSP	Male 808500105						D	65,4	2,57	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,16	0,34
1/2"	F AX13 1/2 BSP	Female 808500108	12,5	1/2"	G	137,1	5,40	F	76,9	3,03	C	36,0	1,42	I	40,0	1,57	E	38,0	1,50	0,48	1,05
	M AX13 1/2 BSP	Male 808500109						D	77,5	3,05	B	32,0	1,26	H	35,0	1,38	J	24,5	0,96	0,30	0,66
3/4"	F AX17 3/4 BSP	Female 808500114	19	3/4"	G	167,5	6,59	F	103,8	4,09	C	46,0	1,81	I	49,8	1,96	E	48,0	1,89	1,06	2,33
	M AX17 3/4 BSP	Male 808500115						D	85,7	3,37	B	46,0	1,81	H	49,5	1,95	J	30,0	1,18	0,53	1,16



SPARE KIT SEAL FOR MALE

Repair kit / OR+BK		
Body Size	Description	Part Number
3/8"	M AX9	815700247
1/2"	M AX13	815700249
3/4"	M AX17	815700253
1"	M AX21	815700255



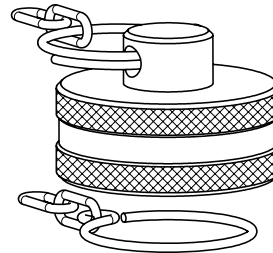
O-Ring in FKM (VITON®)
BackUp in Teflon®

PROTECTIVE CAPS FOR AX SERIES

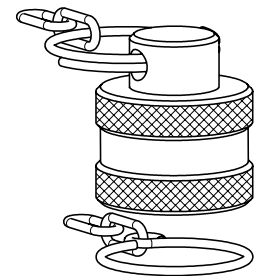
Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life. This is particularly important in mobile applications where exposure to weather and aggregate materials are common.

The protective caps for AX couplings are manufactured in aluminum with lanyard (colors: natural aluminum).

Cap for FEMALE coupling
Aluminum



Cap for MALE coupling
Aluminum



Body Size/Description	Protective Cap		Material/Color
	Part Number	Part Number	
	Cap for Female	Cap for Male	
3/8" AX9	816005004	816005005	Aluminum/Natural
1/2" AX13	816005006	816005007	Aluminum/Natural
3/4" AX17	816005010	816005011	Aluminum/Natural
1" AX21	816005012	816005013	Aluminum/Natural

The protective caps for AX couplings are also available in plastic (see A series caps at page 39).



FIRG-QSERIES

INTERCHANGE > ISO 16028 - NFPA T3.20.15 - HTMA (size 3/8")



Stucchi®

FLAT FACE



TECHNICAL FEATURES AND OPTIONS

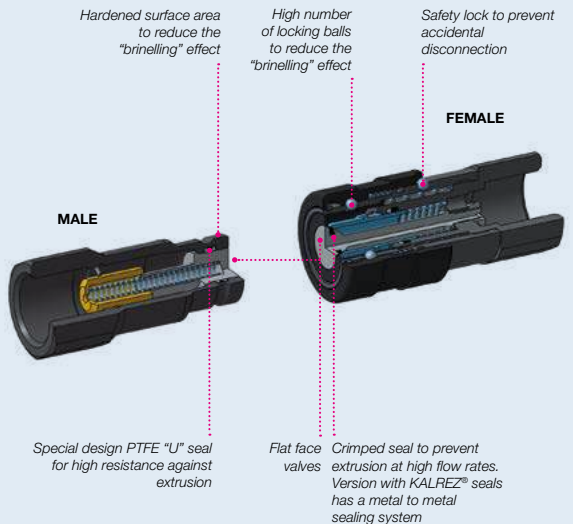
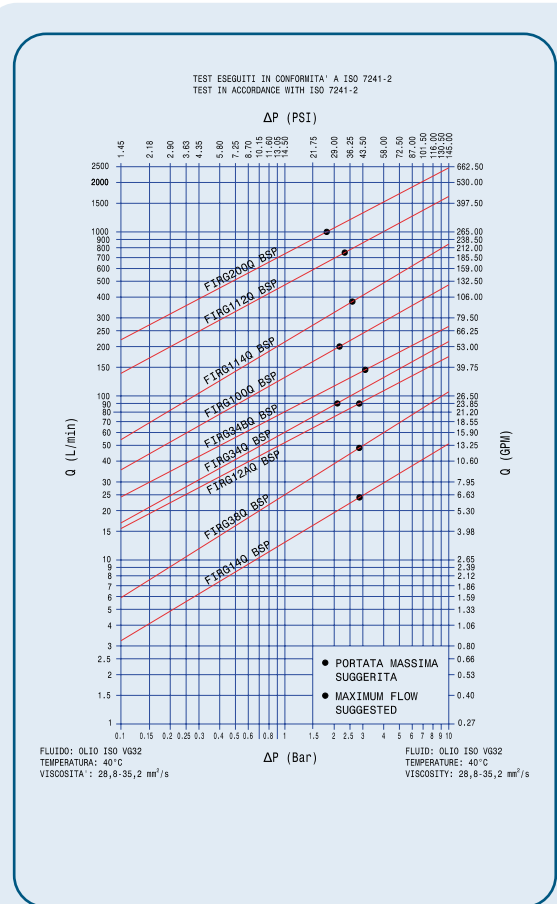
Interchange ISO 16028 NFPA T3.20.15 HTMA (size 3/8")	Sealing description Nitrile NBR-FKM (VITON®)-EPDM-KALREZ®	Connection system Push
Available sizes from 1/4" to 2"	Material/treatment Carbon steel+Stainless steel/QPQ	Available threads BSP - NPT
Operating pressure Up to 300 bar	Locking mechanism Locking ball + Safety Lock	Flow rate Up to 1000 l/min
Temperature (°C) different seals with a range of -40°C / +300°C	Valving style Flat face	Connection under pressure Connection: not allowed Disconnection: not allowed

BENEFITS

- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection.
- Superior corrosion resistance compared to zinc plating in specific corrosive environments.
- External parts in carbon steel with QPQ, valving in AISI303.
- Good resistance to pressure impulses.
- 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 push the male half towards the female half or vice versa.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect turn the external sleeve until the sleeve lock notch match the safety lock ball and push back the sleeve.
- Provide an adequate maintenance of the parts (washing with clear water, lubricating and greasing the QPQ surface) to prolongue the life in corrosive environment.



MAIN APPLICATIONS





Size Series/Size Max. flow suggested Connect force Disconnect force Spillage*

PERFORMANCES

Size		Series/Size		Max. flow suggested		Connect force		Disconnect force		Spillage*
in	mm (ISO)	OLD	NEW	l/min	gpm	N	lbf	N	lbf	ml
1/4	6,3	FIRG14Q	FIRG7Q	24	6,36	130	29,25	45	10,13	0,01
3/8	10,0	FIRG38Q-12Q	FIRG9Q	46	12,19	160	36,00	35	7,88	0,01
1/2	12,5	FIRG12AQ-34Q	FIRG13Q	90	23,85	240	54,00	65	14,63	0,02
5/8	16,0	FIRG34BQ	FIRG15Q	148	39,22	190	42,75	60	13,50	0,02
3/4	19,0	FIRG100Q	FIRG17Q	200	53,00	220	49,50	70	15,75	0,03
1	25,0	FIRG114Q	FIRG21Q	378	100,17	310	69,75	100	22,50	0,03
1-1/2	-	FIRG112Q	FIRG30Q	750	198,75	400	90,00	100	22,50	0,05
2	-	FIRG200Q	FIRG45Q	1000	265,00	370	83,25	70	15,75	0,1

Data valid for couplings with NBR, FKM (VITON®), EPDM seals

Size	Series/Size		Max. operating pressure						Burst pressure					
			Coupled		Male		Female		Coupled		Male		Female	
in	OLD	NEW	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
1/4	FIRG14Q	FIRG7Q	30	4350	30	4350	12	1740	120	17400	120	17400	48	6960
3/8	FIRG38Q-12Q	FIRG9Q	30	4350	30	4350	15	2175	120	17400	120	17400	60	8700
1/2	FIRG12AQ-34Q	FIRG13Q	25	3625	25	3625	12	1740	100	14500	100	14500	48	6960
5/8	FIRG34BQ	FIRG15Q	25	3625	25	3625	12	1740	100	14500	100	14500	48	6960
3/4	FIRG100Q	FIRG17Q	25	3625	25	3625	10	1450	100	14500	90	13050	40	5800
1	FIRG114Q	FIRG21Q	25	3625	25	3625	10	1450	100	14500	90	13050	40	5800
1-1/2	FIRG112Q	FIRG30Q	20	2900	20	2900	8	1160	60	8700	60	8700	32	4640
2	FIRG200Q	FIRG45Q	20	2900	20	2900	8	1160	60	8700	60	8700	32	4640

Data valid for couplings with KALREZ® - SEALS FOR HIGH TEMPERATURE

Size	Series/Size		Max. operating pressure						Burst pressure					
			Coupled		Male		Female		Coupled		Male		Female	
in	OLD	NEW	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
1/4	FIRG14QK	FIRG7QK	5	725	5	725	5	725	120	17400	120	17400	40	5800
3/8	FIRG38Q-12QK	FIRG9QK	5	725	5	725	5	725	120	17400	120	17400	48	6960
1/2	FIRG12AQ-34QK	FIRG13QK	5	725	5	725	5	725	100	14500	100	14500	48	6960
5/8	FIRG34BQK	FIRG15QK	5	725	5	725	5	725	100	14500	100	14500	40	5800
3/4	FIRG100QK	FIRG17QK	5	725	5	725	5	725	100	14500	90	13050	60	8700
1	FIRG114QK	FIRG21QK	5	725	5	725	5	725	100	14500	90	13050	60	8700
1-1/2	FIRG112QK	FIRG30QK	5	725	5	725	5	725	40	5800	40	5800	32	4640
2	FIRG200QK	FIRG45QK	5	725	5	725	5	725	40	5800	40	5800	32	4640

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

Temperature range:

FIRG QN - NBR (Nitrile) seals: from -20 °C to +100 °C (from -4 °F to +212 °F).
 Seals in NBR (Nitrile) with water: from +5°C to +60°C (from +41°F to +140°F).
 FIRG QV - FKM (VITON®) seals: from -15°C to +180°C (from +5 °F to +356 °F).
 FIRG QE - EPDM (Ethylene Propylene) seals: from -40°C to +150°C (from -40 °F to +302 °F).
 FIRG QK - KALREZ® seals: from -25°C to +300°C (from -13 °F to +572 °F).

The couplings with KALREZ® seals for high temperature use can be used at max. operating pressure of 5 Mpa (725 psi).

Please read carefully Instructions and warnings for proper selection of the products.

Tests:

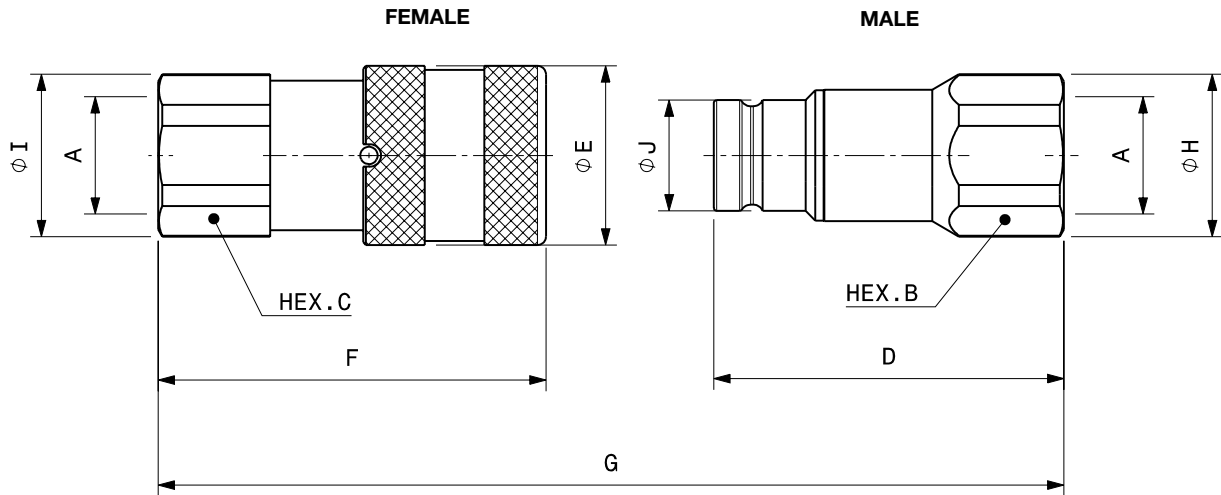
The couplings have been tested at max. operating pressure for 100.000 impulses according to ISO norm test method.

! WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.
 Never connect or disconnect with dynamic pressure (e.g. pump on).
 Do not use the female coupling disconnected with high impulse pressure.
 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).
 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.

OVERALL DIMENSIONS

FLAT FACE

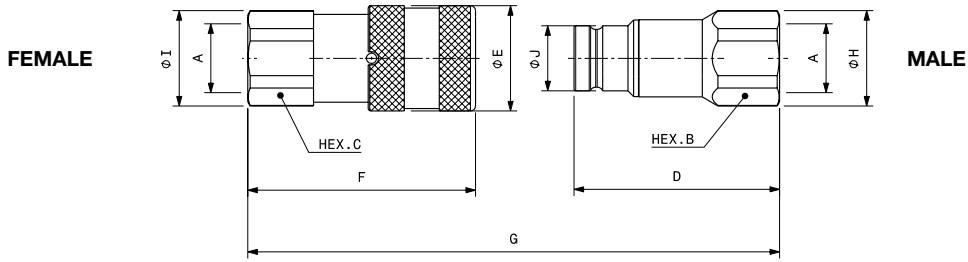


Port description: FEMALE THREAD BSPP (ISO 1179-1)

BODY SIZE	Descriptive Code		Item Code*	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight						
	OLD	NEW				mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
1/4"	F FIRG14Q BSP	F FIRG7Q BSP	Female	6,3	1/4"	G	85,2	3,35	F	48,1	1,89	C	22,0	0,87	I	24,0	0,94	E	28,0	1,10	0,14	0,31
	M FIRG14Q BSP	M FIRG7Q BSP	Male						D	47,9	1,89	B	22,0	0,87	H	23,8	0,94	J	16,0	0,63	0,09	0,19
3/8"	F FIRG38Q BSP	F FIRG9Q BSP	Female	10	3/8"	G	108,7	4,28	F	64,2	2,53	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,23	0,51
	M FIRG38Q BSP	M FIRG9Q BSP	Male						D	60,0	2,36	B	24,0	0,94	H	26,0	1,02	J	19,8	0,78	0,12	0,27
3/8"	F FIRG12Q BSP	F FIRG9Q BSP	Female	10	1/2"	G	116,2	4,57	F	69,2	2,72	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,23	0,51
	M FIRG12Q BSP	M FIRG9Q BSP	Male						D	62,5	2,46	B	27,0	1,06	H	29,0	1,14	J	19,8	0,78	0,12	0,26
1/2"	F FIRG12AQ BSP	F FIRG13Q BSP	Female	12,5	1/2"	G	124,5	4,90	F	73,8	2,91	C	32,0	1,26	I	33,8	1,33	E	38,0	1,50	0,37	0,82
	M FIRG12AQ BSP	M FIRG13Q BSP	Male						D	68,0	2,68	B	32,0	1,26	H	33,8	1,33	J	24,4	0,96	0,23	0,51
1/2"	F FIRG34Q BSP	F FIRG13Q BSP	Female	12,5	3/4"	G	134,0	5,28	F	80,8	3,18	C	36,0	1,42	I	38,5	1,52	E	38,0	1,50	0,37	0,82
	M FIRG34Q BSP	M FIRG13Q BSP	Male						D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,23	0,51
5/8"	F FIRG34BQ BSP	F FIRG15Q BSP	Female	16	3/4"	G	131,4	5,17	F	78,5	3,09	C	36,0	1,42	I	38,5	1,52	E	42,0	1,65	0,47	1,04
	M FIRG34BQ BSP	M FIRG15Q BSP	Male						D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,27	0,59
3/4"	F FIRG100Q BSP	F FIRG17Q BSP	Female	19	1"	G	153,5	6,04	F	93,2	3,67	C	45,0	1,77	I	47,8	1,88	E	48,0	1,89	0,77	1,69
	M FIRG100Q BSP	M FIRG17Q BSP	Male						D	82,3	3,24	B	45,0	1,77	H	47,8	1,88	J	30,0	1,18	0,40	0,87
1"	F FIRG114Q BSP	F FIRG21Q BSP	Female	25	1 1/4"	G	172,8	6,80	F	106,0	4,17	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,20	2,65
	M FIRG114Q BSP	M FIRG21Q BSP	Male						D	89,8	3,54	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,64	1,42
1-1/2"	F FIRG112Q BSP	F FIRG30Q BSP	Female	-	1 1/2"	G	214,8	8,46	F	132,4	5,21	C	65,0	2,56	I	72,0	2,83	E	80,0	3,15	2,82	6,22
	M FIRG112Q BSP	M FIRG30Q BSP	Male						D	111,0	4,37	B	70,0	2,76	H	76,0	2,99	J	57,0	2,24	1,86	4,10
2"	F FIRG200Q BSP	F FIRG45Q BSP	Female	-	2"	G	241,5	9,51	F	156,6	6,17	C	80,0	3,15	I	88,5	3,48	E	100,0	3,94	-	-
	M FIRG200Q BSP	M FIRG45Q BSP	Male						D	123,8	4,87	B	75,0	2,95	H	83,5	3,29	J	73,0	2,87	-	-

* For specific item code see "different seals configurations" page at the end of this section.

Size 1/8" available upon request.



Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

BODY SIZE	Descriptive Code		Item Code*	ISO DN	PORT (A)	Overall Length	Length		Hex		Diameter		Diameter		Weight							
	OLD	NEW					mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb		
1/4"	F FIRG14Q NPT	F FIRG7Q NPT	Female	6,3	1/4"	G	85,2	3,35	F	48,1	1,89	C	22,0	0,87	I	24,0	0,94	E	28,0	1,10	0,14	0,30
	M FIRG14Q NPT	M FIRG7Q NPT	Male						D	47,9	1,89	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63	0,09	0,19
3/8"	F FIRG38Q NPT	F FIRG9Q NPT	Female	10	3/8"	G	108,7	4,28	F	64,2	2,53	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,24	0,53
	M FIRG38Q NPT	M FIRG9Q NPT	Male						D	60,0	2,36	B	24,0	0,94	H	26,0	1,02	J	19,7	0,78	0,12	0,26
3/8"	F FIRG12Q NPT	F FIRG9Q NPT	Female	10	1/2"	G	116,2	4,57	F	69,2	2,72	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,24	0,52
	M FIRG12Q NPT	M FIRG9Q NPT	Male						D	62,5	2,46	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,13	0,29
1/2"	F FIRG12AQ NPT	F FIRG13Q NPT	Female	12,5	1/2"	G	124,5	4,90	F	73,8	2,91	C	32,0	1,26	I	33,8	1,33	E	38,0	1,50	0,38	0,85
	M FIRG12AQ NPT	M FIRG13Q NPT	Male						D	68,0	2,68	B	32,0	1,26	H	33,8	1,33	J	24,5	0,96	0,24	0,53
1/2"	F FIRG34Q NPT	F FIRG13Q NPT	Female	12,5	3/4"	G	134,0	5,28	F	80,8	3,18	C	36,0	1,42	I	38,5	1,52	E	38,0	1,50	0,43	0,95
	M FIRG34Q NPT	M FIRG13Q NPT	Male						D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,23	0,50
5/8"	F FIRG34BQ NPT	F FIRG15Q NPT	Female	16	3/4"	G	131,4	5,17	F	78,5	3,09	C	36,0	1,42	I	38,5	1,52	E	42,0	1,65	0,47	1,04
	M FIRG34BQ NPT	M FIRG15Q NPT	Male						D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,27	0,59
3/4"	F FIRG100Q NPT	F FIRG17Q NPT	Female	19	1"	G	153,5	6,04	F	93,2	3,67	C	45,0	1,77	I	47,8	1,88	E	48,0	1,89	0,77	1,69
	M FIRG100Q NPT	M FIRG17Q NPT	Male						D	82,3	3,24	B	45,0	1,77	H	47,8	1,88	J	30,0	1,18	0,41	0,90
1"	F FIRG114Q NPT	F FIRG21Q NPT	Female	25	1 1/4"	G	172,8	6,80	F	106,0	4,17	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,24	2,73
	M FIRG114Q NPT	M FIRG21Q NPT	Male						D	89,8	3,54	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,65	1,42
1-1/2"	F FIRG112Q NPT	F FIRG30Q NPT	Female	-	1 1/2"	G	214,8	8,46	F	132,4	5,21	C	65,0	2,56	I	72,0	2,83	E	80,0	3,15	2,82	6,22
	M FIRG112Q NPT	M FIRG30Q NPT	Male						D	111,0	4,37	B	70,0	2,76	H	76,0	2,99	J	57,0	2,24	1,87	4,11
2"	F FIRG200Q NPT	F FIRG45Q NPT	Female	-	2"	G	241,5	9,51	F	156,6	6,17	C	80,0	3,15	I	88,5	3,48	E	100,0	3,94	-	-
	M FIRG200Q NPT	M FIRG45Q NPT	Male						D	123,8	4,87	B	75,0	2,95	H	83,5	3,29	J	73,0	2,87	-	-

* For specific item code see "different seals configurations" page at the end of this section.

Size 1/8" available upon request.

Panel mounting

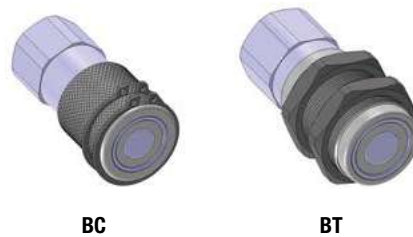
FIRG-Q Series is available upon request also as panel mounting version:

BC: Snap Ring Solution
Grooves on the male body and on the female sleeve.

BT: Lock Ring Solution
Thread on the male body and female body.

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

Using the BC and BT versions mounted on the panel, you obtain the breakaway function, avoiding damages of the hydraulic connections in case of strong axial force during unintended disconnection.



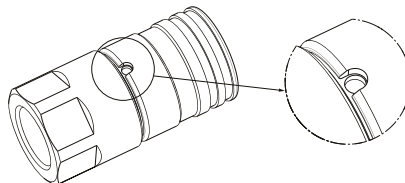
BC

BT

SS version

For specific cases, FIRG-Q Series is available upon request without the safety lock ball.

For additional information, please contact Stucchi Technical Support.



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

BODY	ISO	PORT (A)	NITRIL SEALS				FKM (VITON®) SEALS				EPDM SEALS				KALREZ® SEALS			
			Descriptive Code		Item Code	Descriptive Code		Item Code	Descriptive Code		Item Code	Descriptive Code		Item Code	Descriptive Code			
			OLD	NEW		OLD	NEW		OLD	NEW		OLD	NEW					
1/4"	6,3	1/4"	800900000	F FIRG14QN BSP	F FIRG7QN 1/4 BSP	800900100	F FIRG14QV BSP	F FIRG7QV 1/4 BSP	800900200	F FIRG14QE BSP	F FIRG7QE 1/4 BSP	800900704	F FIRG14QK BSP	F FIRG7QK 1/4 BSP				
			800900001	M FIRG14QN BSP	M FIRG7QN 1/4 BSP	800900101	M FIRG14QV BSP	M FIRG7QV 1/4 BSP	800900201	M FIRG14QE BSP	M FIRG7QE 1/4 BSP	800900705	M FIRG14QK BSP	M FIRG7QK 1/4 BSP				
3/8"	10	3/8"	800900002	F FIRG38QN BSP	F FIRG9QN 3/8 BSP	800900102	F FIRG38QV BSP	F FIRG9QV 3/8 BSP	800900202	F FIRG38QE BSP	F FIRG9QE 3/8 BSP	800900708	F FIRG38QK BSP	F FIRG9QK 3/8 BSP				
			800900003	M FIRG38QN BSP	M FIRG9QN 3/8 BSP	800900103	M FIRG38QV BSP	M FIRG9QV 3/8 BSP	800900203	M FIRG38QE BSP	M FIRG9QE 3/8 BSP	800900709	M FIRG38QK BSP	M FIRG9QK 3/8 BSP				
3/8"	10	1/2"	800900004	F FIRG12QN BSP	F FIRG9QN 1/2 BSP	800900104	F FIRG12QV BSP	F FIRG9QV 1/2 BSP	800900204	F FIRG12QE BSP	F FIRG9QE 1/2 BSP	800900710	F FIRG12QK BSP	F FIRG9QK 1/2 BSP				
			800900005	M FIRG12QN BSP	M FIRG9QN 1/2 BSP	800900105	M FIRG12QV BSP	M FIRG9QV 1/2 BSP	800900205	M FIRG12QE BSP	M FIRG9QE 1/2 BSP	800900711	M FIRG12QK BSP	M FIRG9QK 1/2 BSP				
1/2"	12,5	1/2"	800900006	F FIRG12AQN BSP	F FIRG13QN 1/2 BSP	800900106	F FIRG12AQV BSP	F FIRG13QV 1/2 BSP	800900206	F FIRG12AQE BSP	F FIRG13QE 1/2 BSP	800900700	F FIRG12AQK BSP	F FIRG13QK 1/2 BSP				
			800900007	M FIRG12AQN BSP	M FIRG13QN 1/2 BSP	800900107	M FIRG12AQV BSP	M FIRG13QV 1/2 BSP	800900207	M FIRG12AQE BSP	M FIRG13QE 1/2 BSP	800900701	M FIRG12AQK BSP	M FIRG13QK 1/2 BSP				
1/2"	12,5	3/4"	800900008	F FIRG34QN BSP	F FIRG13QN 3/4 BSP	800900108	F FIRG34QV BSP	F FIRG13QV 3/4 BSP	800900208	F FIRG34QE BSP	F FIRG13QE 3/4 BSP	800900712	F FIRG34QK BSP	F FIRG13QK 3/4 BSP				
			800900009	M FIRG34QN BSP	M FIRG13QN 3/4 BSP	800900109	M FIRG34QV BSP	M FIRG13QV 3/4 BSP	800900209	M FIRG34QE BSP	M FIRG13QE 3/4 BSP	800900713	M FIRG34QK BSP	M FIRG13QK 3/4 BSP				
5/8"	16	3/4"	800900010	F FIRG34BQN BSP	F FIRG15QN 3/4 BSP	800900110	F FIRG34BQV BSP	F FIRG15QV 3/4 BSP	800900210	F FIRG34BQE BSP	F FIRG15QE 3/4 BSP	800900716	F FIRG34BQK BSP	F FIRG15QK 3/4 BSP				
			800900011	M FIRG34BQN BSP	M FIRG15QN 3/4 BSP	800900111	M FIRG34BQV BSP	M FIRG15QV 3/4 BSP	800900211	M FIRG34BQE BSP	M FIRG15QE 3/4 BSP	800900717	M FIRG34BQK BSP	M FIRG15QK 3/4 BSP				
3/4"	19	1"	800900012	F FIRG100QN BSP	F FIRG17QN 1 BSP	800900112	F FIRG100QV BSP	F FIRG17QV 1 BSP	800900212	F FIRG100QE BSP	F FIRG17QE 1 BSP	800900702	F FIRG100QK BSP	F FIRG17QK 1 BSP				
			800900013	M FIRG100QN BSP	M FIRG17QN 1 BSP	800900113	M FIRG100QV BSP	M FIRG17QV 1 BSP	800900213	M FIRG100QE BSP	M FIRG17QE 1 BSP	800900703	M FIRG100QK BSP	M FIRG17QK 1 BSP				
1"	25	1-1/4"	800900014	F FIRG114QN BSP	F FIRG21QN 1-1/4 BSP	800900114	F FIRG114QV BSP	F FIRG21QV 1-1/4 BSP	800900214	F FIRG114QE BSP	F FIRG21QE 1-1/4 BSP	800900706	F FIRG114QK BSP	F FIRG21QK 1-1/4 BSP				
			800900015	M FIRG114QN BSP	M FIRG21QN 1-1/4 BSP	800900115	M FIRG114QV BSP	M FIRG21QV 1-1/4 BSP	800900215	M FIRG114QE BSP	M FIRG21QE 1-1/4 BSP	800900707	M FIRG114QK BSP	M FIRG21QK 1-1/4 BSP				
1-1/2"	-	1-1/2"	800900016	F FIRG112QN BSP	F FIRG30QN 1-1/2 BSP	800900116	F FIRG112QV BSP	F FIRG30QV 1-1/2 BSP	800900216	F FIRG112QE BSP	F FIRG30QE 1-1/2 BSP	800900718	F FIRG112QK BSP	F FIRG30QK 1-1/2 BSP				
			800900017	M FIRG112QN BSP	M FIRG30QN 1-1/2 BSP	800900117	M FIRG112QV BSP	M FIRG30QV 1-1/2 BSP	800900217	M FIRG112QE BSP	M FIRG30QE 1-1/2 BSP	800900719	M FIRG112QK BSP	M FIRG30QK 1-1/2 BSP				
2"	-	2"	800900022	F FIRG200QN BSP	F FIRG45QN 2 BSP	800900120	F FIRG200QV BSP	F FIRG45QV 2 BSP	800900218	F FIRG200QE BSP	F FIRG45QE 2 BSP	800900722	F FIRG200QK BSP	F FIRG45QK 2 BSP				
			800900023	M FIRG200QN BSP	M FIRG45QN 2 BSP	800900121	M FIRG200QV BSP	M FIRG45QV 2 BSP	800900219	M FIRG200QE BSP	M FIRG45QE 2 BSP	800900723	M FIRG200QK BSP	M FIRG45QK 2 BSP				

* Available upon request.

Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

BODY	ISO	PORT (A)	FKM (VITON®) SEALS				FKM (VITON®) SEALS				EPDM SEALS			
			Descriptive Code		Item Code	Descriptive Code		Item Code	Descriptive Code		Item Code	Descriptive Code		
			OLD	NEW		OLD	NEW		OLD	NEW				
1/4"	6,3	1/4"	800901000	F FIRG14QN NPT	F FIRG7QN 1/4 NPT	800901100	F FIRG14QV NPT	F FIRG7QV 1/4 NPT	800901200	F FIRG14QE NPT	F FIRG7QE 1/4 NPT	800901200	F FIRG14QK NPT	F FIRG7QK 1/4 NPT
			800901001	M FIRG14QN NPT	M FIRG7QN 1/4 NPT	800901101	M FIRG14QV NPT	M FIRG7QV 1/4 NPT	800901201	M FIRG14QE NPT	M FIRG7QE 1/4 NPT	800901201	M FIRG14QK NPT	M FIRG7QK 1/4 NPT
3/8"	10	3/8"	800901002	F FIRG38QN NPT	F FIRG9QN 3/8 NPT	800901102	F FIRG38QV NPT	F FIRG9QV 3/8 NPT	800901202	F FIRG38QE NPT	F FIRG9QE 3/8 NPT	800901202	F FIRG38QK NPT	F FIRG9QK 3/8 NPT
			800901003	M FIRG38QN NPT	M FIRG9QN 3/8 NPT	800901103	M FIRG38QV NPT	M FIRG9QV 3/8 NPT	800901203	M FIRG38QE NPT	M FIRG9QE 3/8 NPT	800901203	M FIRG38QK NPT	M FIRG9QK 3/8 NPT
3/8"	10	1/2"	800901004	F FIRG12QN NPT	F FIRG9QN 1/2 NPT	800901104	F FIRG12QV NPT	F FIRG9QV 1/2 NPT	800901204	F FIRG12QE NPT	F FIRG9QE 1/2 NPT	800901204	F FIRG12QK NPT	F FIRG9QK 1/2 NPT
			800901005	M FIRG12QN NPT	M FIRG9QN 1/2 NPT	800901105	M FIRG12QV NPT	M FIRG9QV 1/2 NPT	800901205	M FIRG12QE NPT	M FIRG9QE 1/2 NPT	800901205	M FIRG12QK NPT	M FIRG9QK 1/2 NPT
1/2"	12,5	1/2"	800901006	F FIRG12AQN NPT	F FIRG13QN 1/2 NPT	800901106	F FIRG12AQV NPT	F FIRG13QV 1/2 NPT	800901206	F FIRG12AQE NPT	F FIRG13QE 1/2 NPT	800901206	F FIRG12AQK NPT	F FIRG13QK 1/2 NPT
			800901007	M FIRG12AQN NPT	M FIRG13QN 1/2 NPT	800901107	M FIRG12AQV NPT	M FIRG13QV 1/2 NPT	800901207	M FIRG12AQE NPT	M FIRG13QE 1/2 NPT	800901207	M FIRG12AQK NPT	M FIRG13QK 1/2 NPT
1/2"	12,5	3/4"	800901008	F FIRG34QN NPT	F FIRG13QN 3/4 NPT	800901108	F FIRG34QV NPT	F FIRG13QV 3/4 NPT	800901208	F FIRG34QE NPT	F FIRG13QE 3/4 NPT	800901208	F FIRG34QK NPT	F FIRG13QK 3/4 NPT
			800901009	M FIRG34QN NPT	M FIRG13QN 3/4 NPT	800901109	M FIRG34QV NPT	M FIRG13QV 3/4 NPT	800901209	M FIRG34QE NPT	M FIRG13QE 3/4 NPT	800901209	M FIRG34QK NPT	M FIRG13QK 3/4 NPT
5/8"	16	3/4"	800901010	F FIRG34BQN NPT	F FIRG15QN 3/4 NPT	800901110	F FIRG34BQV NPT	F FIRG15QV 3/4 NPT	800901210	F FIRG34BQE NPT	F FIRG15QE 3/4 NPT	800901210	F FIRG34BQK NPT	F FIRG15QK 3/4 NPT
			800901011	M FIRG34BQN NPT	M FIRG15QN 3/4 NPT	800901111	M FIRG34BQV NPT	M FIRG15QV 3/4 NPT	800901211	M FIRG34BQE NPT	M FIRG15QE 3/4 NPT	800901211	M FIRG34BQK NPT	M FIRG15QK 3/4 NPT
3/4"	19	1"	800901012	F FIRG100QN NPT	F FIRG17QN 1 NPT	800901112	F FIRG100QV NPT	F FIRG17QV 1 NPT	800901212	F FIRG100QE NPT	F FIRG17QE 1 NPT	800901212	F FIRG100QK NPT	F FIRG17QK 1 NPT
			800901013	M FIRG100QN NPT	M FIRG17QN 1 NPT	800901113	M FIRG100QV NPT	M FIRG17QV 1 NPT	800901213	M FIRG100QE NPT	M FIRG17QE 1 NPT	800901213	M FIRG100QK NPT	M FIRG17QK 1 NPT
1"	25	1-1/4"	800901014	F FIRG114QN NPT	F FIRG21QN 1-1/4 NPT	800901114	F FIRG114QV NPT	F FIRG21QV 1-1/4 NPT	800901214	F FIRG114QE NPT	F FIRG21QE 1-1/4 NPT	800901214	F FIRG114QK NPT	F FIRG21QK 1-1/4 NPT
			800901015	M FIRG114QN NPT	M FIRG21QN 1-1/4 NPT	800901115	M FIRG114QV NPT	M FIRG21QV 1-1/4 NPT	800901215	M FIRG114QE NPT	M FIRG21QE 1-1/4 NPT	800901215	M FIRG114QK NPT	M FIRG21QK 1-1/4 NPT
1-1/2"	-	1-1/2"	800901016	F FIRG112QN NPT	F FIRG30QN 1-1/2 NPT	800901116	F FIRG112QV NPT	F FIRG30QV 1-1/2 NPT	800901216	F FIRG112QE NPT	F FIRG30QE 1-1/2 NPT	800901216	F FIRG112QK NPT	F FIRG30QK 1-1/2 NPT
			800901017	M FIRG112QN NPT	M FIRG30QN 1-1/2 NPT	800901117	M FIRG112QV NPT	M FIRG30QV 1-1/2 NPT	800901217	M FIRG112QE NPT	M FIRG30QE 1-1/2 NPT	800901217	M FIRG112QK NPT	M FIRG30QK 1-1/2 NPT
2"	-	2"	800901018	F FIRG200QN NPT	F FIRG45QN 2 NPT	800901118	F FIRG200QV NPT	F FIRG45QV 2 NPT						
			800901019	M FIRG200QN NPT	M FIRG45QN 2 NPT	800901119	M FIRG200QV NPT	M FIRG45QV 2 NPT						

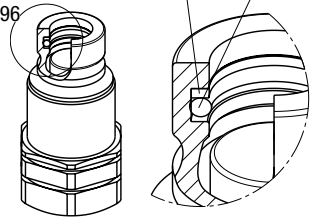
* Available upon request.



SPARE KIT SEAL FOR MALE

Body Size	Repair kit / OR+BK		Part Number
	Description		
	OLD	NEW	
1/4"	M FIRG14Q	M FIRG7Q	815700519
3/8"	M FIRG38Q-12Q	M FIRG9Q	815700337
1/2"	M FIRG12AQ-34Q	M FIRG13Q	815700339
5/8"	M FIRG34BQ	M FIRG15Q	815700341
3/4"	M FIRG100Q	M FIRG17Q	815700343
1"	M FIRG114Q	M FIRG21Q	815700345
1 1/2"	M FIRG112Q	M FIRG30Q	815700521
2"	M FIRG200Q	M FIRG45Q	815700796

Backup ring (Teflon®) O-ring



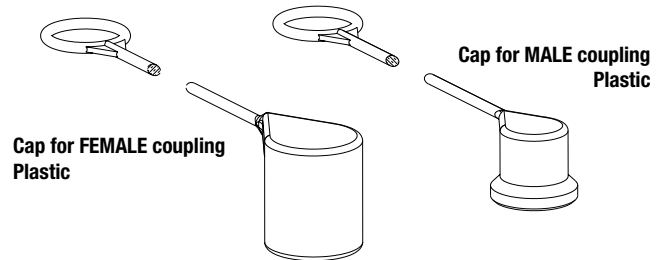
O-Ring in Nitrile
BackUp in Teflon®

PROTECTIVE CAPS FOR FIRG-Q SERIES

Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life.

For the FIRG-Q series are available two kind of materials:

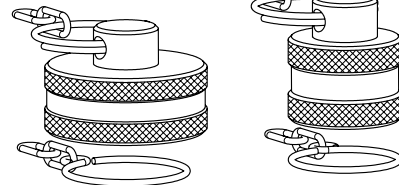
- Plastic caps with lanyard (standard color: red, other colors available upon request)
- aluminum caps with lanyard (standard colors: natural aluminum, other colors available upon request)



Body Size	Description		Part Number		Material/Color
	OLD	NEW	Cap for Female	Cap for Male	
	1/4"	FIRG14Q	FIRG7Q	815100000	
3/8"	FIRG38Q-12Q	FIRG9Q	815100002	815100027	Plastic/Red
1/2"	FIRG12AQ-34Q	FIRG13Q	815100006	815100031	Plastic/Red
5/8"	FIRG34BQ	FIRG15Q	815100008	815100011	Plastic/Red
3/4"	FIRG100Q	FIRG17Q	815100010	815100013	Plastic/Red
1"	FIRG114Q	FIRG21Q	815100012	815100015	Plastic/Red

Cap for FEMALE coupling Aluminum

Cap for MALE coupling Aluminum



Body Size	Description		Part Number		Material/Color
	OLD	NEW	Cap for Female	Cap for Male	
	1/4"	FIRG14Q	FIRG7Q	816005002	
3/8"	FIRG38Q-12Q	FIRG9Q	816005004	816005005	Aluminum/Natural
1/2"	FIRG12AQ-34Q	FIRG13Q	816005006	816005007	Aluminum/Natural
5/8"	FIRG34BQ	FIRG15Q	816005008	816005009	Aluminum/Natural
3/4"	FIRG100Q	FIRG17Q	816005010	816005011	Aluminum/Natural
1"	FIRG114Q	FIRG21Q	816005012	816005013	Aluminum/Natural



FL SERIES

INTERCHANGE > ISO 16028 - NFPA T3.20.15 - HTMA (size 3/8")



Stucchi®

FLAT FACE



TECHNICAL FEATURES AND OPTIONS

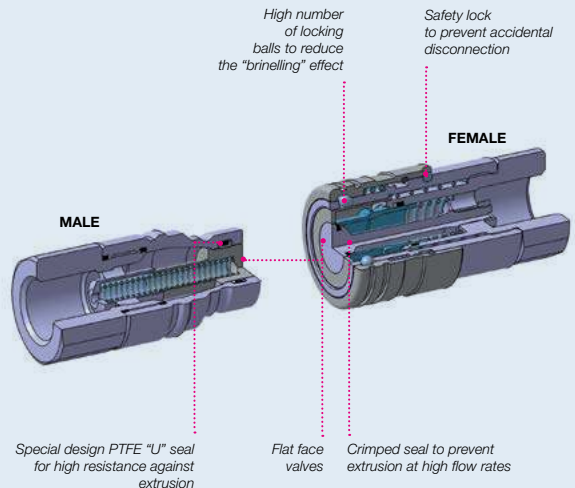
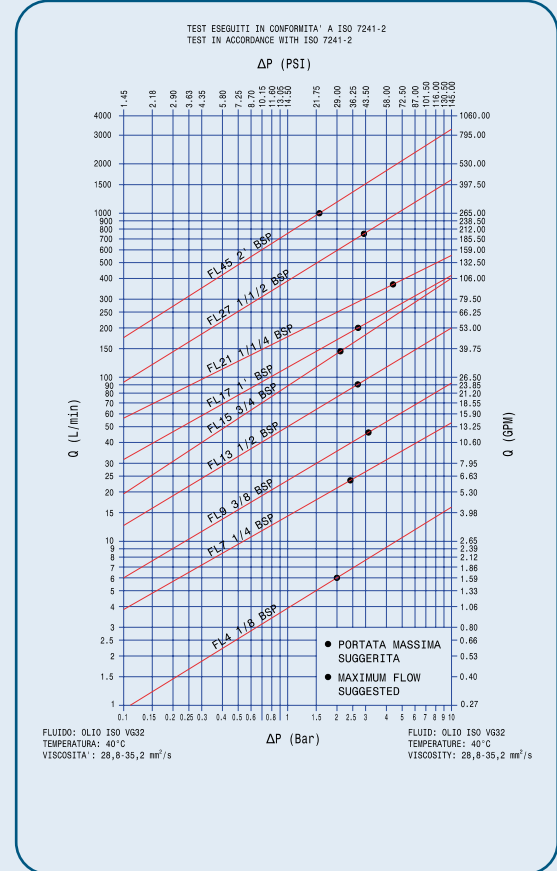
Interchange ISO 16028 NFPA T3.20.15 HTMA (size 3/8")	Sealing description FKM (VITON®)	Connection system Push
Available sizes from 1/8" to 2"	Material Stainless steel (AISI 316L)	Available threads BSP - NPT - SAE
Operating pressure Up to 350 bar	Locking mechanism Locking ball + Safety Lock	Flow rate Up to 1000 l/min
Temperature (°C) -15° C / +180°C	Valving style Flat face	Connection under pressure Connection: not allowed Disconnection: not allowed

BENEFITS

- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection.
- Optimal resistance to the corrosion for long life of couplings.
- 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 push the male half towards the female half or vice versa.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect turn the external sleeve until the sleeve lock notch match the safety lock ball and push back the sleeve.



MAIN APPLICATIONS





PERFORMANCES

Size		Series/Size	Max. flow suggested		Connect force		Disconnect force		Spillage*
in	mm (ISO)		l/min	gpm	N	lbf	N	lbf	ml
1/8		FL4	6	1,59	140	31,50	30	6,75	0,01
1/4	6,3	FL7	24	6,36	160	36,00	45	10,13	0,01
3/8	10,0	FL9	46	12,19	160	36,00	45	10,13	0,01
1/2	12,5	FL13	90	23,85	200	45,00	60	13,50	0,02
5/8	16,0	FL15	148	39,22	200	45,00	60	13,50	0,03
3/4	19,0	FL17	200	53,00	200	45,00	60	13,50	0,03
1	25,0	FL21	378	100,17	280	63,00	90	20,25	0,04
1-1/2		FL30	750	198,75	580	130,50	160	36,00	0,05
2		FL45	1000	265,00	490	110,25	70	15,75	0,10

Size	Series/Size	Max. operating pressure						Burst pressure						
		Coupled		Male		Female		Coupled		Male		Female		
in	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
1/8	FL4	35	5075	35	5075	33	4785	140	20300	140	20300	120	17400	
1/4	FL7	35	5075	35	5075	12	1740	140	20300	120	17400	48	6960	
3/8	FL9	35	5075	35	5075	15	2175	140	20300	120	17400	60	8700	
1/2	FL13	35	5075	35	5075	15	2175	120	17400	110	15950	60	8700	
5/8	FL15	35	5075	30	4350	12	1740	120	17400	100	14500	48	6960	
3/4	FL17	33	4785	28	4060	12	1740	100	14500	80	11600	48	6960	
1	FL21	28	4060	28	4060	12	1740	90	13050	80	11600	48	6960	
1-1/2	FL30	23	3335	23	3335	8	1160	80	11600	70	10150	32	4640	
2	FL45	15	2175	15	2175	7	1015	60	8700	60	8700	28	4060	

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

Material:

- Construction: Stainless steel AISI 316L
- Springs: AISI 302
- Locking ball: AISI 316

Different possible configurations:

SAE thread available upon request.
Male PL version, free flow.

Temperature range:

Standard seals in FKM (VITON®): from -15°C to +180°C (from +5 °F to +356 °F).
Upon request seals in NBR (Nitrile): with oil from -20°C to +100°C (from -4°F to +212°F), with water from +5°C to +60°C (from +41°F to +140°F).

Upon request seals in EPDM (Ethylene Propylene) seals: from -40 °C to +150 °C (from -40 °F to +302 °F).

Upon request seals in KALREZ® seals: from -25 °C to +300 °C (from -13 °F to +572 °F).

The couplings with KALREZ® seals for high temperature use can be used at max. operating pressure of 5 Mpa (725 psi).

Please read carefully Instructions and warnings for proper selection of the products.

Tests performed:

The couplings have been tested at max. operating pressure for 100.000 impulses 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.

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

Do not use the female coupling disconnected with high impulse pressure.

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).

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.

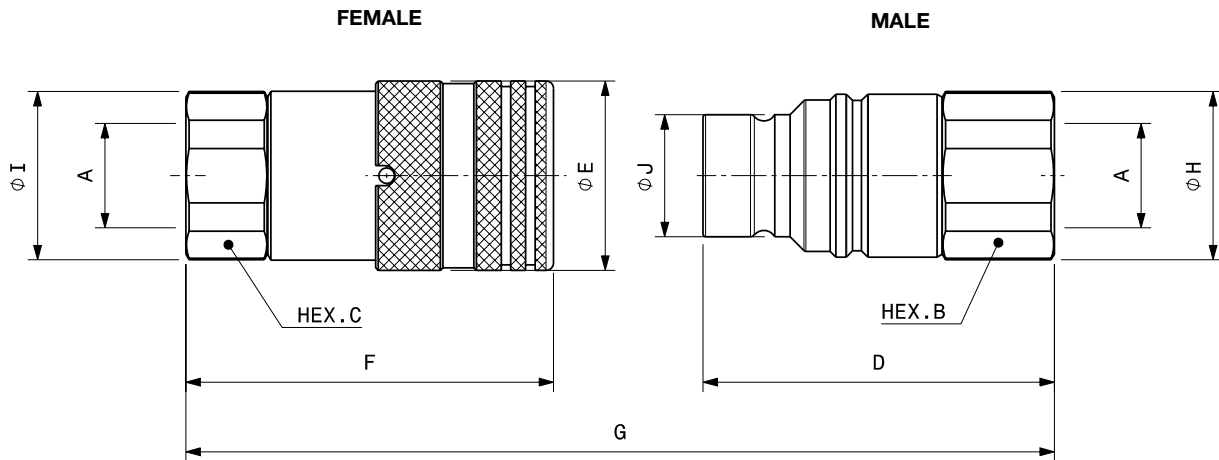
It is mandatory to carefully read and closely follow the instructions before selecting or using any Stucchi products.

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.

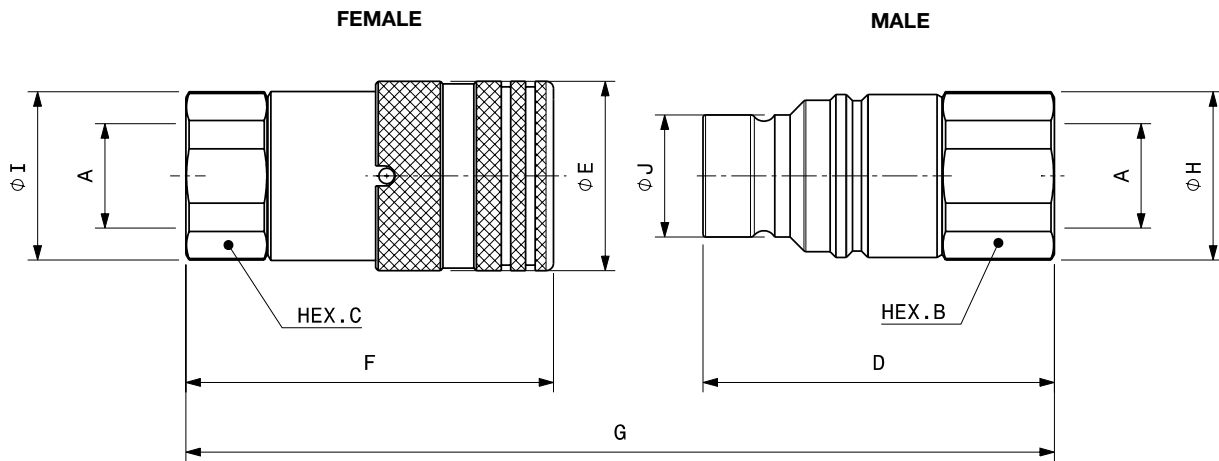
OVERALL DIMENSIONS

FLAT FACE



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

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
1/8"	F FL4 1/8 BSP	Female 802400122	-	1/8"	G	68,4	2,69	F	40,0	1,57	C	19,0	0,75	I	20,5	0,81	E	20,0	0,79	0,07	0,16
	M FL4 1/8 BSP	Male 802400123						D	36,3	1,43	B	17,0	0,67	H	18,5	0,73	J	11,6	0,46	0,04	0,08
1/4"	F FL7 1/4 BSP	Female 802400100	6,3	1/4"	G	86,7	3,41	F	48,3	1,90	C	22,0	0,87	I	23,8	0,94	E	28,0	1,10	0,14	0,31
	M FL7 1/4 BSP	Male 802400101						D	49,4	1,94	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63	0,10	0,22
3/8"	F FL9 3/8 BSP	Female 802400102	10	3/8"	G	108,6	4,28	F	64,2	2,53	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,25	0,54
	M FL9 3/8 BSP	Male 802400103						D	59,9	2,36	B	24,0	0,94	H	26,0	1,02	J	19,7	0,78	0,12	0,27
3/8"	F FL9 1/2 BSP	Female 802400104	10	1/2"	G	116,1	4,57	F	69,2	2,72	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,24	0,53
	M FL9 1/2 BSP	Male 802400105						D	62,4	2,46	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,12	0,26
1/2"	F FL13 1/2 BSP	Female 802400106	12,5	1/2"	G	127,0	5,00	F	73,8	2,91	C	32,0	1,26	I	33,8	1,33	E	38,0	1,50	0,38	0,83
	M FL13 1/2 BSP	Male 802400107						D	70,5	2,78	B	32,0	1,26	H	33,8	1,33	J	24,5	0,96	0,26	0,57
1/2"	F FL13 3/4 BSP	Female 802400108	12,5	3/4"	G	134,0	5,28	F	80,8	3,18	C	36,0	1,42	I	38,5	1,52	E	38,0	1,50	0,38	0,83
	M FL13 3/4 BSP	Male 802400109						D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,26	0,56
5/8"	F FL15 3/4 BSP	Female 802400110	16	3/4"	G	133,8	5,27	F	80,9	3,19	C	36,0	1,42	I	38,5	1,52	E	42,0	1,65	0,49	1,08
	M FL15 3/4 BSP	Male 802400111						D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,28	0,62
3/4"	F FL17 1 BSP	Female 802400112	19	1"	G	153,3	6,04	F	92,9	3,66	C	46,0	1,81	I	49,5	1,95	E	48,0	1,89	0,80	1,75
	M FL17 1 BSP	Male 802400113						D	82,2	3,24	B	46,0	1,81	H	49,5	1,95	J	30,0	1,18	0,43	0,95
1"	F FL21 1-1/4 BSP	Female 802400114	25	1 1/4"	G	173,0	6,81	F	106,2	4,18	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,23	2,70
	M FL21 1-1/4 BSP	Male 802400115						D	90,0	3,54	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,67	1,48
1-1/2"	F FL30 1-1/2 BSP	Female 802400116	-	1 1/2"	G	214,8	8,46	F	132,4	5,21	C	65,0	2,56	I	72,0	2,83	E	80,0	3,15	2,91	6,41
	M FL30 1-1/2 BSP	Male 802400117						D	111,0	4,37	B	70,0	2,76	H	76,0	2,99	J	57,0	2,24	1,89	4,17
2"	F FL45 2 BSP	Female 802400118	-	2"	G	241,5	9,51	F	156,6	6,17	C	80,0	3,15	I	88,5	3,48	E	100,0	3,94	5,23	11,53
	M FL45 2 BSP	Male 802400119						D	123,8	4,87	B	75,0	2,95	H	83,5	3,29	J	73,0	2,87	2,29	5,05



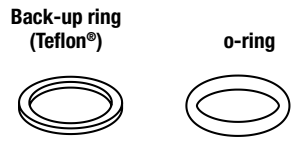
Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

BODY SIZE	Descriptive Code	Item Code	ISO DN	PORT (A)	Overall Length	Length		Hex		Diameter		Diameter		Weight						
						mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb			
1/8	F FL4 1/8 NPT	Female 802401118	-	1/8"	G 68,4	2,69	F	40,0	1,57	C	19,0	0,75	I	20,5	0,81	E	20,0	0,79	0,08	0,17
	M FL4 1/8 NPT	Male 802401119					D	36,3	1,43	B	17,0	0,67	H	18,5	0,73	J	11,6	0,46	0,04	0,09
1/4	F FL7 1/4 NPT	Female 802401100	6,3	1/4"	G 85,2	3,35	F	48,3	1,90	C	22,0	0,87	I	23,8	0,94	E	28,0	1,10	0,14	0,32
	M FL7 1/4 NPT	Male 802401101					D	47,9	1,89	B	22,0	0,87	H	23,8	0,94	J	16,1	0,63	0,09	0,21
3/8	F FL9 3/8 NPT	Female 802401102	10	3/8"	G 108,6	4,27	F	64,2	2,53	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,25	0,54
	M FL9 3/8 NPT	Male 802401103					D	59,9	2,36	B	24,0	0,94	H	26,0	1,02	J	19,7	0,78	0,14	0,30
3/8	F FL9 1/2 NPT	Female 802401104	10	1/2"	G 116,1	4,57	F	69,2	2,72	C	27,0	1,06	I	29,0	1,14	E	32,0	1,26	0,24	0,53
	M FL9 1/2 NPT	Male 802401105					D	62,4	2,46	B	27,0	1,06	H	29,0	1,14	J	19,7	0,78	0,14	0,30
1/2	F FL13 1/2 NPT	Female 802401106	12,5	1/2"	G 124,5	4,90	F	73,8	2,91	C	32,0	1,26	I	33,8	1,33	E	38,0	1,50	0,38	0,83
	M FL13 1/2 NPT	Male 802401107					D	68,0	2,68	B	32,0	1,26	H	33,8	1,33	J	24,5	0,96	0,26	0,57
1/2	F FL13 3/4 NPT	Female 802401108	12,5	3/4"	G 134	5,27	F	80,8	3,18	C	36,0	1,42	I	38,5	1,52	E	38,0	1,50	0,42	0,92
	M FL13 3/4 NPT	Male 802401109					D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	24,5	0,96	0,27	0,59
5/8	F FL15 3/4 NPT	Female 802401110	16	3/4"	G 133,8	5,26	F	80,9	3,19	C	36,0	1,42	I	38,5	1,52	E	42,0	1,65	0,50	1,09
	M FL15 3/4 NPT	Male 802401111					D	70,5	2,78	B	36,0	1,42	H	38,5	1,52	J	27,0	1,06	0,28	0,62
3/4	F FL17 1 NPT	Female 802401112	19	1"	G 153,3	6,03	F	92,9	3,66	C	46,0	1,81	I	49,5	1,95	E	48,0	1,89	0,81	1,79
	M FL17 1 NPT	Male 802401113					D	82,2	3,24	B	46,0	1,81	H	49,5	1,95	J	30,0	1,18	0,43	0,95
1	F FL21 1-1/4 NPT	Female 802401114	25	1 1/4"	G 173	6,81	F	106,2	4,18	C	55,0	2,17	I	59,8	2,35	E	55,0	2,17	1,27	2,80
	M FL21 1-1/4 NPT	Male 802401115					D	90,0	3,54	B	55,0	2,17	H	59,8	2,35	J	36,0	1,42	0,78	1,72
1-1/2	F FL30 1-1/2 NPT	Female 802401116	-	1 1/2"	G 214,8	8,45	F	132,4	5,21	C	65,0	2,56	I	72,0	2,83	E	80,0	3,15	2,91	6,41
	M FL30 1-1/2 NPT	Male 802401117					D	111,0	4,37	B	70,0	2,76	H	76,0	2,99	J	57,0	2,24	1,90	4,18
2	F FL45 2 NPT	Female 802401120	-	2"	G 241,5	9,50	F	156,6	6,17	C	80,0	3,15	I	88,5	3,48	E	100,0	3,94	-	-
	M FL45 2 NPT	Male 802401121					D	123,8	4,87	B	75,0	2,95	H	83,5	3,29	J	73,0	2,87	-	-

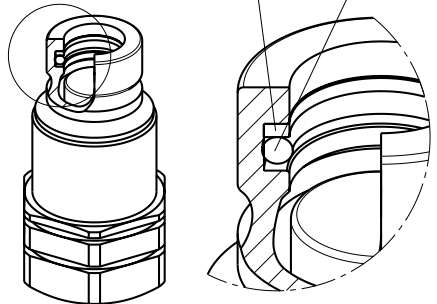


SPARE KIT SEAL FOR MALE

Repair kit / OR+BK		
Body Size	Description	Part Number
3/8"	M FL9	815700247
1/2"	M FL13	815700249
5/8"	M FL15	815700251
3/4"	M FL17	815700253
1"	M FL21	815700255
1-1/2"	M FL30	815700525
2"	M FL45	815700798



O-Ring in FKM (VITON®)
BackUp in Teflon®

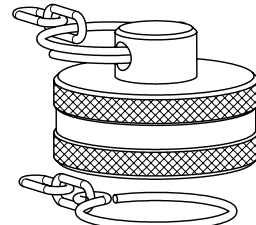


PROTECTIVE CAPS FOR FL SERIES

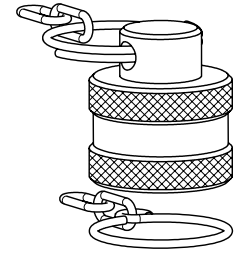
Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life. This is particularly important in mobile applications where exposure to weather and aggregate materials are common.

The protective caps for FL couplings are manufactured in aluminum with lanyard (colors: natural aluminum).

Cap for FEMALE coupling
Aluminum



Cap for MALE coupling
Aluminum



Body Size/Description	Protective Cap		Material/Color
	Part Number	Part Number	
	Cap for Female	Cap for Male	
1/4" FL7	816005002	816005003	Aluminum/Natural
3/8" FL9	816005004	816005005	Aluminum/Natural
1/2" FL13	816005006	816005007	Aluminum/Natural
5/8" FL15	816005008	816005009	Aluminum/Natural
3/4" FL17	816005010	816005011	Aluminum/Natural
1" FL21	816005012	816005013	Aluminum/Natural
1-1/2" FL30	815105014	815105017	Aluminum/Natural
2" FL45	815105016	815105019	Aluminum/Natural

The protective caps for FL couplings are also available in plastic (see A series caps at page 39).

LubeTeam Hydraulic S.r.l.

Administration and Headquarter:

Via Tufara Scautieri, 6

83018 - San Martino Valle Caudina (AV)

Office and Warehouse:

S.S. 7 Appia, Km. 237,00

82011 - Airola BN

ITALY

Tel. +39 0823 950 994

Fax +39 0823 412 546

www.lubeteam.it info@lubeteam.it

Italian VAT / C.F. e P.IVA: 01251720627

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