

Features

- **Connection system:** screw-on
- **Disconnection system:** screw-on
- **Shut off system:** flat valve
- **Connectability:** both male and female couplings under residual pressure
- **Disconnection under pressure:** allowed
- **Interchangeability:** worldwide market
- Screw-on latching system
- Standard seals in Neoprene or HNBR (Hydrogenated NBR)
- Suitable for bulkhead mounting
- Wide range of brazed and threaded adaptors
- Other adaptors available on request
- Made in Brass
- Special versions available on request
- **UL Listed: File N° SA13163 (size 06 only)**
- UL marking on request



Technical data

Size ❖		DN Nominal diameter	
		mm	inc.
3/8"	06	7	0.28
1/2"	08	9	0.35
3/4"	12	16	0.63
1"	16	25	0.98

Minimum burst pressure							
Connected		Male		Female			
MPa	PSI	MPa	PSI	MPa	PSI		
40	5800	21	3045	19	2755		
25	3625	26	3770	8,3	1204		
19	2755	21	3045	10,5	1523		
15	2175	13	1885	7,5	1088		

Air inclusion and fluid loss	Maximum leakage rate * *	Vacuum rating		Connection sleeve torque
cc max.	g/year	mmHg	incHg	Nm
0,05	1,5	2	0,08	10 ⁺² ₋₀
0,1	1,5	2	0,08	30 ⁺⁵ ₋₀
0,1	1,5	2	0,08	60 ⁺⁵ ₋₀
0,2	1,5	2	0,08	80 ⁺⁵ ₋₀

Size ❖		DN Nominal diameter	
		mm	inc.
3/8"	06	7	0.28
1/2"	08	9	0.35
3/4"	12	16	0.63
1"	16	25	0.98

Maximum working pressure *							
Connected		Male		Female			
MPa	PSI	MPa	PSI	MPa	PSI		
13,3	1929	7	1015	6	870		
8	1160	8,5	1233	2,75	400		
6	870	7	1015	3,5	508		
5	725	4	580	2,5	363		

* Safety factor = 1:3 - For static pressure safety factor 1:2

** R22 equivalent refrigerant at operating range, both connected and disconnected.

Materials:

- Male and female in brass.
- Valves in zinc plated steel with Cr III passivation.
- Springs and guidevalves in stainless steel.

Seals: standard in Neoprene or HNBR.

On request: EPDM, Viton or other seals.

Working temperatures:

With Neoprene seals from -40°C (-40°F) to +120°C (+248°F).

With HNBR seals from -25°C (-13°F) to +140°C (+284°F).

Temperatures refer to theoretical working conditions in laboratory.

Pressure drop chart

See at page 21

Installation and Brazing instructions

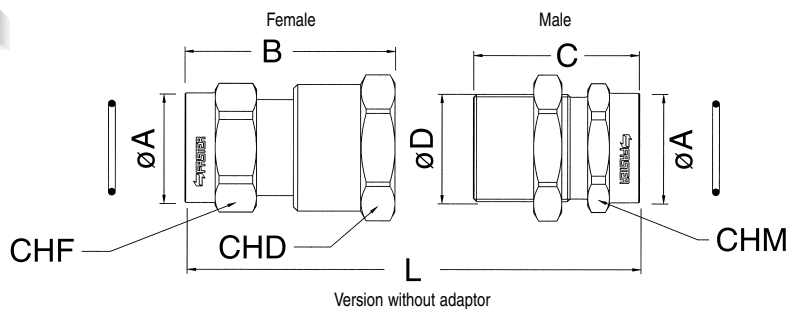
See at pages 22-23-24

Accessories - Spare part kit

See at pages 19-20

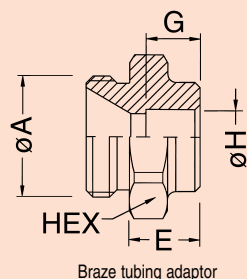
Seals compatibility

See at page 24

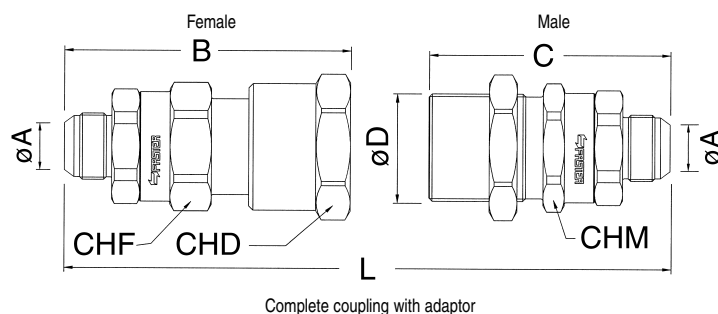


	❖	Female	Male	Ø A	Seals material	B mm	B inc.	C mm	C inc.	Ø D mm	CHD mm	CHD inc.	L mm	L inc.	CHF mm	CHF inc.	CHM mm	CHM inc.
Version without adaptor	06	RF 06 F5 N	RF 06 M5 N	M18x1,5	Neoprene	34,8	1,37	27	1,06	M20x1,5	24	0,94	53	2,09	22	0,87	22	0,87
		RF 06 F5 H	RF 06 M5 H	M18x1,5	HNBR	34,8	1,37	27	1,06	M20x1,5	24	0,94	53	2,09	22	0,87	22	0,87
		*RF 06 F5 E	*RF 06 M5 E	M18x1,5	EPDM	34,8	1,37	27	1,06	M20x1,5	24	0,94	53	2,09	22	0,87	22	0,87
		*RF 06 F5 V	*RF 06 M5 V	M18x1,5	Viton	34,8	1,37	27	1,06	M20x1,5	24	0,94	53	2,09	22	0,87	22	0,87
	08	RF 08 F5 N	RF 08 M5 N	7/8" - 20 UNEF	Neoprene	46,5	1,83	38,5	1,52	1" - 20 UN	30	1,18	76,5	3,01	27	1,06	27	1,06
		RF 08 F5 H	RF 08 M5 H	7/8" - 20 UNEF	HNBR	46,5	1,83	38,5	1,52	1" - 20 UN	30	1,18	76,5	3,01	27	1,06	27	1,06
		*RF 08 F5 E	*RF 08 M5 E	7/8" - 20 UNEF	EPDM	46,5	1,83	38,5	1,52	1" - 20 UN	30	1,18	76,5	3,01	27	1,06	27	1,06
		*RF 08 F5 V	*RF 08 M5 V	7/8" - 20 UNEF	Viton	46,5	1,83	38,5	1,52	1" - 20 UN	30	1,18	76,5	3,01	27	1,06	27	1,06
	12	RF 12 F5 N	RF 12 M5 N	1-1/4" - 18 UNEF	Neoprene	55,5	2,19	44	1,73	1-7/16" - 16 UN	41	1,61	85,5	3,37	36	1,42	41	1,61
		RF 12 F5 H	RF 12 M5 H	1-1/4" - 18 UNEF	HNBR	55,5	2,19	44	1,73	1-7/16" - 16 UN	41	1,61	85,5	3,37	36	1,42	41	1,61
		*RF 12 F5 E	*RF 12 M5 E	1-1/4" - 18 UNEF	EPDM	55,5	2,19	44	1,73	1-7/16" - 16 UN	41	1,61	85,5	3,37	36	1,42	41	1,61
		*RF 12 F5 V	*RF 12 M5 V	1-1/4" - 18 UNEF	Viton	55,5	2,19	44	1,73	1-7/16" - 16 UN	41	1,61	85,5	3,37	36	1,42	41	1,61
	16	RF 16 F5 N	RF 16 M5 N	1-19/32" - 20 UN	Neoprene	61,5	2,42	46,5	1,83	1-3/4" - 16 UN	50	1,97	92	3,62	46	1,81	50	1,97
		RF 16 F5 H	RF 16 M5 H	1-19/32" - 20 UN	HNBR	61,5	2,42	46,5	1,83	1-3/4" - 16 UN	50	1,97	92	3,62	46	1,81	50	1,97
		*RF 16 F5 E	*RF 16 M5 E	1-19/32" - 20 UN	EPDM	61,5	2,42	46,5	1,83	1-3/4" - 16 UN	50	1,97	92	3,62	46	1,81	50	1,97
		*RF 16 F5 V	*RF 16 M5 V	1-19/32" - 20 UN	Viton	61,5	2,42	46,5	1,83	1-3/4" - 16 UN	50	1,97	92	3,62	46	1,81	50	1,97

❖ Size *On request



► Braze tubing adaptor
See table at page 6



- All versions available with adaptors as shown in the table at page 7.
- Add to coupling code RF... the suffix "5".
- Dimensions can be obtained from table at page 7 considering the different length of the quick-release coupling without adaptor.