FASTER® LEHENGOAK, S.A.

NEW SERIES RFL STEEL

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

- **Hand connection under residual pressure**
- Interchangeable with standard RF series couplings.
- Latching system by low friction threaded sleeve
- Wear reduction
- Uses standard RF series adaptors

Patent Applications Pending

Technical data

Size ❖		DN Nominal diameter		Minimum burst pressure					
				Connected		Male		Female	
		mm	inc.	MPa	PSI	MPa	PSI	MPa	PSI
1/4"	04	5	0.20	100	14500	53	7685	10,5	1523
3/8"	06	7	0.28	70	10150	24	3480	19	2755
1/2"	08	9	0.35	55	7975	55	7975	8,3	1204
3/4"	12	16	0.63	43	6325	43	6325	10,5	1523
1"	16	25	0.98	37	5365	12	1740	7,5	1088
1-1/2"	24	35	1.38	30	4350	16	2320	11,5	1668

Air inclusion and fluid loss	Maximum leakage rate **	Vacuum rating		Connection sleeve torque
cc max.	g/year	mmHg	incHg	Nm
0.02	1,5	2	0,08	8^{+2}_{-0}
0,05	1,5	2	0,08	20^{+2}_{-0}
0,1	1,5	2	0,08	20^{+2}_{-0}
0,1	1,5	2	0,08	50^{+5}_{-0}
0,2	1,5	2	0,08	60^{+5}_{-0}
0,2	1,5	2*	0,08*	80^{+10}_{-0}

*Connected

Size ❖		DN Nominal diameter		Maximum working pressure *					
				Connected		Male		Female	
		mm	inc.	MPa	PSI	MPa	PSI	MPa	PSI
1/4"	04	5	0.20	33	4785	17,5	2538	3,5	508
3/8"	06	7	0.28	23,3	3379	8	1160	6	870
1/2"	08	9	0.35	18,3	2654	18,3	2654	2,75	400
3/4"	12	16	0.63	14,3	2074	14,3	2074	3,5	508
1"	16	25	0.98	12,3	1784	4	580	2,5	363
1-1/2	24	35	1.38	10	1450	5,3	769	3,8	551

Max pressure allowing connection by hand (M+F)	
MPa	PSI
3,5	508
3	435
2,2	319
0,8	116
0,7	102
0,6	87

* Safety factor = 1:3 - For static pressure safety factor 1:2
** R22 equivalent refrigerant at operating range, both connected and disconnected.

Materials:
- Female in steel.
- Surface treatment: zinc plating with Cr III passivation.
- Springs 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 theorical 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

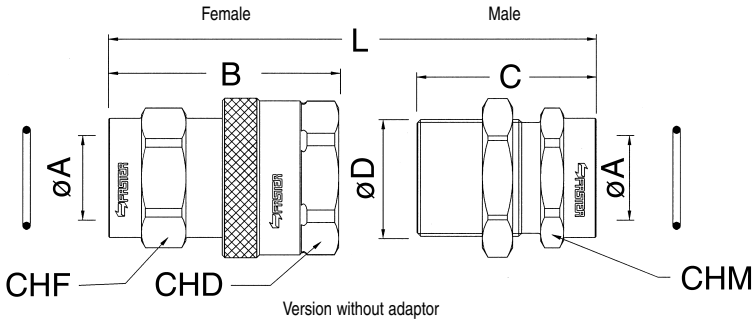
See at pages 19-20

▶ Seals compatibility

See at page 24

▶ Available items

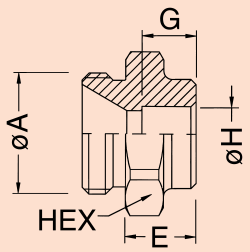
SERIES RFL STEEL



Version without adaptor

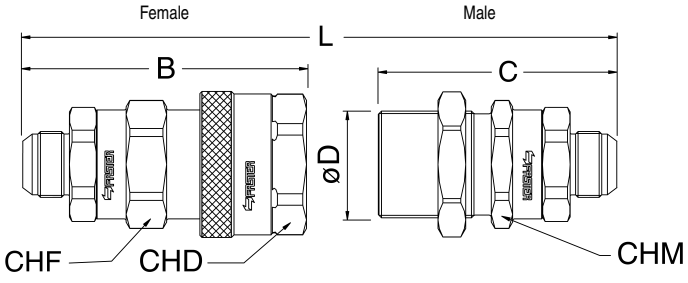
	❖	Female	Male (see RF series)	Ø A	Seals material	B mm	B inc.	C mm	C inc.	Ø D mm	CHD mm	CHD inc.	L mm	L inc.	CHF mm	CHF inc.	CHM mm	CHM inc.
Version without adaptor	**04**	RFL 04 F N	RF 04 ... N	1/2" - 20 UNF	Neoprene	29,5	1,16	-	-	5/8" - 18 UNF	19	0,75	-	-	16	0,63	19	0,75
		*RFL 04 F H	RF 04 ... H	1/2" - 20 UNF	HNBR	29,5	1,16	-	-	5/8" - 18 UNF	19	0,75	-	-	16	0,63	19	0,75
		*RFL 04 F E	RF 04 ... E	1/2" - 20 UNF	EPDM	29,5	1,16	-	-	5/8" - 18 UNF	19	0,75	-	-	16	0,63	19	0,75
		RFL 04 F V	RF 04 ... V	1/2" - 20 UNF	Viton	29,5	1,16	-	-	5/8" - 18 UNF	19	0,75	-	-	16	0,63	19	0,75
	06	*RFL 06 F N	RF 06 ... N	M18x1.5	Neoprene	35	1,38	-	-	M20x1.5	24	0,94	-	-	22	0,87	22	0,87
		*RFL 06 F H	RF 06 ... H	M18x1.5	HNBR	35	1,38	-	-	M20x1.5	24	0,94	-	-	22	0,87	22	0,87
		*RFL 06 F E	RF 06 ... E	M18x1.5	EPDM	35	1,38	-	-	M20x1.5	24	0,94	-	-	22	0,87	22	0,87
		RFL 06 F V	RF 06 ... V	M18x1.5	Viton	35	1,38	-	-	M20x1.5	24	0,94	-	-	22	0,87	22	0,87
	08	RFL 08 F N	RF 08 ... N	7/8" - 20 UNEF	Neoprene	50	1,97	-	-	1" - 20 UNEF	30	1,18	-	-	27	1,06	27	1,06
		*RFL 08 F H	RF 08 ... H	7/8" - 20 UNEF	HNBR	50	1,97	-	-	1" - 20 UNEF	30	1,18	-	-	27	1,06	27	1,06
		*RFL 08 F E	RF 08 ... E	7/8" - 20 UNEF	EPDM	50	1,97	-	-	1" - 20 UNEF	30	1,18	-	-	27	1,06	27	1,06
		RFL 08 F V	RF 08 ... V	7/8" - 20 UNEF	Viton	50	1,97	-	-	1" - 20 UNEF	30	1,18	-	-	27	1,06	27	1,06
	12	RFL 12 F N	RF 12 ... N	1-1/4" - 18 UNEF	Neoprene	57,5	2,26	-	-	1-7/16" - 16 UN	41	1,61	-	-	36	1,42	41	1,61
		*RFL 12 F H	RF 12 ... H	1-1/4" - 18 UNEF	HNBR	57,5	2,26	-	-	1-7/16" - 16 UN	41	1,61	-	-	36	1,42	41	1,61
		*RFL 12 F E	RF 12 ... E	1-1/4" - 18 UNEF	EPDM	57,5	2,26	-	-	1-7/16" - 16 UN	41	1,61	-	-	36	1,42	41	1,61
		*RFL 12 F V	RF 12 ... V	1-1/4" - 18 UNEF	Viton	57,5	2,26	-	-	1-7/16" - 16 UN	41	1,61	-	-	36	1,42	41	1,61
	16	*RFL 16 F N	RF 16 ... N	1-19/32" - 20 UN	Neoprene	65	2,56	-	-	1-3/4" - 16 UN	50	1,97	-	-	46	1,81	50	1,97
		*RFL 16 F H	RF 16 ... H	1-19/32" - 20 UN	HNBR	65	2,56	-	-	1-3/4" - 16 UN	50	1,97	-	-	46	1,81	50	1,97
		*RFL 16 F E	RF 16 ... E	1-19/32" - 20 UN	EPDM	65	2,56	-	-	1-3/4" - 16 UN	50	1,97	-	-	46	1,81	50	1,97
		RFL 16 F V	RF 16 ... V	1-19/32" - 20 UN	Viton	65	2,56	-	-	1-3/4" - 16 UN	50	1,97	-	-	46	1,81	50	1,97
	24	RFL 24 F N	RF 24 M N	M61x1.5	Neoprene	96	3,78	70	2,76	M68x2	80	3,15	150	5,91	70	2,76	70	2,76
		RFL 24 F H	RF 24 M H	M61x1.5	HNBR	96	3,78	70	2,76	M68x2	80	3,15	150	5,91	70	2,76	70	2,76
		*RFL 24 F E	*RF 24 M E	M61x1.5	EPDM	96	3,78	70	2,76	M68x2	80	3,15	150	5,91	70	2,76	70	2,76
		*RFL 24 F V	*RF 24 M V	M61x1.5	Viton	96	3,78	70	2,76	M68x2	80	3,15	150	5,91	70	2,76	70	2,76

❖ Size *On request



Braze tubing adaptor

▶ Braze tubing adaptor
See table at page 6



Complete coupling with adaptor

- **All versions available with adaptors as shown in the table at page 7.**
- **Female coupling code from RF …. to RFL…**
- **Dimensions can be obtained from table at page 7 considering the different lenght of the quick-release coupling without adaptor.**