

Ball Locking
Tema Profile



Body Size
1/4" up to 1"

Tema Profile
FF-Series

Medium Pressure



Technical Description

The coupling system of the FF series has double shut-off, dry break and single-handed operation. During disconnection there is no oil loss, and during coupling there is no inclusion of air into the system.

Advantages

- Dry break quick connect coupling.
- With minimum pressure drop.
- Single-handed operation.
- No oil loss during disconnection.
- A safety closing ring prevents unintentional disconnection.
- Twice as safe through double sealing.
- Also available with pressure eliminator, i.e. connection is possible under static/residual pressure up to working pressure.

Working Pressure

See charts.

Working Temperature

-30°C up to +100°C (NBR)
-25°C up to +200°C (FKM)
depending on the medium.
Special seals are available on request (see page 6).

Available Valves



Connected length in total

FF2510 + FF2520 = 122 mm

FF2510 + FF2521 = 147 mm

FF3810 + FF3820 = 125 mm

FF3810 + FF3821 = 154 mm

FF5010 + FF5020 = 145 mm

FF5010 + FF5021 = 177 mm

FF7510 + FF7520 = 169 mm

FF7510 + FF7521 = 215 mm

FF10010 + FF10020 = 230 mm

FF10010 + FF10021 = 269 mm

Body Size | **Bursting Pressure connected**

1/4" | > 3200 bar

3/8" | > 2000 bar

1/2" | > 1500 bar

3/4" | > 1500 bar

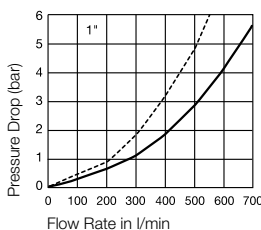
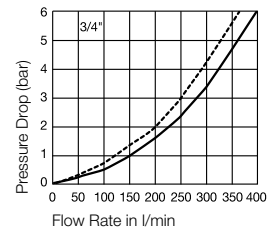
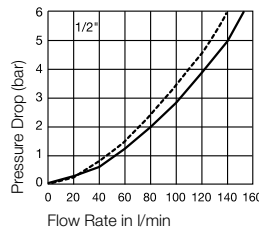
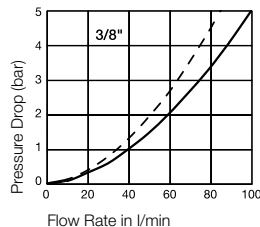
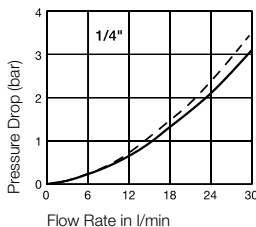
1" | > 1100 bar

Material Coupling	Standard / Pressure Eliminator
Coupling Body	Steel, nitrocarburizing
Sleeve	Steel hardened, zinc plated, passivated, sealed
Locking Ring	Brass, zinc-iron coated, black passivated, sealed
Valve	Steel, zinc plated, passivated, sealed
Springs	AISI 301
Locking Balls	AISI 420 C
Seals	NBR
Valve Holder	Steel, yellow zinc plated, sealed
Thread Body	Steel, zinc plated, passivated, sealed
Plug	Standard / Pressure Eliminator
Plug Body	Steel hardened, zinc plated, passivated, sealed
Valve	Steel, nitrocarburizing
Springs	AISI 301
Seals	NBR/PUR
Valve Holder	Brass, hard-drawn
Thread Body	Steel, zinc plated, passivated, sealed

Applications Area



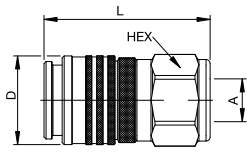
Flow Capacity with Oil with Viscosity of 32cSt at 40°C as per ISO 7241/2-2000



— Standard FF
- - - Plug side pressure eliminator

Couplings**FF-Series**

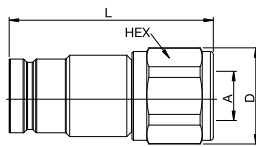
Body Size	Connection A	Hex mm	L mm	D mm	Working Press. connect. in bar	Version	Seal	Part Number
1/4"	G 1/4	27	65	30	800	Standard	NBR/PUR	FF2510
3/8"	G 3/8	36	76,5	40	500	Standard	NBR/PUR	FF3810
1/2"	G 1/2	40	82	44	450	Standard	NBR/PUR	FF5010 C
1/2"	G 1/2	40	82	44	450	Standard	FKM	FF5010 CV
1/2"	G 3/4	40	85	44	450	Standard	NBR/PUR	FF5010-75 C
1/2"	G 3/4	40	85	44	450	Standard	FKM	FF5010-75 CV
3/4"	G 3/4	50	98	55	400	Standard	NBR	FF7510 C
3/4"	G 3/4	50	98	55	400	Standard	FKM	FF7510 CV
3/4"	G 1	50	106	55	400	Standard	NBR	FF7510-100 C
3/4"	G 1	50	106	55	400	Standard	FKM	FF7510-100 CV
1"	G 1	65	129	70	350	Standard	NBR	FF10010 C
1"	G 1	65	129	70	350	Standard	FKM	FF10010 CV
1"	G 1 1/4	65	129	70	350	Standard	NBR	FF10010-125 C
1"	G 1 1/4	65	129	70	350	Standard	FKM	FF10010-125 CV
1"	G 1 1/2	65	129	70	350	Standard	NBR	FF10010-150 C
1"	G 1 1/2	65	129	70	350	Standard	FKM	FF10010-150 CV



Female Thread

Plugs**FF-Series**

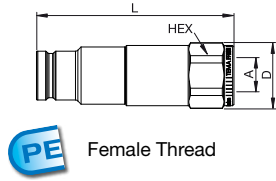
Body Size	Connection A	Hex mm	L mm	D mm	Working Press. connect. in bar	Version	Seal	Part Number
1/4"	G 1/4	25	74	28	800	Standard	NBR/PUR	FF2520
3/8"	G 3/8	32	69	35	500	Standard	NBR/PUR	FF3820
1/2"	G 1/2	36	86	39	450	Standard	NBR/PUR	FF5020 C
1/2"	G 1/2	36	86	39	450	Standard	FKM	FF5020 CV
1/2"	G 3/4	36	90	39	450	Standard	NBR/PUR	FF5020-75 C
1/2"	G 3/4	36	90	39	450	Standard	FKM	FF5020-75 CV
3/4"	G 3/4	46	101	50	400	Standard	NBR/PUR	FF7520 C
3/4"	G 3/4	46	101	50	400	Standard	FKM	FF7520 CV
3/4"	G 1	46	106	50	400	Standard	NBR/PUR	FF7520-100 C
3/4"	G 1	46	106	50	400	Standard	FKM	FF7520-100 CV
1"	G 1	60	140	65	350	Standard	NBR/PUR	FF10020 C
1"	G 1	60	140	65	350	Standard	FKM	FF10020 CV
1"	G 1 1/4	60	140	65	350	Standard	NBR/PUR	FF10020-125 C
1"	G 1 1/4	60	140	65	350	Standard	FKM	FF10020-125 CV
1"	G 1 1/2	60	140	65	350	Standard	NBR/PUR	FF10020-150 C
1"	G 1 1/2	60	140	65	350	Standard	FKM	FF10020-150 CV



Female Thread

Plugs

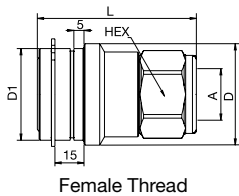
FF-Series



Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Working Press. connect. in bar	Version	Seal	Part Number
1/4"	G 1/4	25	99	28		800	Press. Eliminator	NBR/PUR	FF2521
3/8"	G 3/8	32	98	35		500	Press. Eliminator	NBR/PUR	FF3821
1/2"	G 1/2	36	117	39		450	Press. Eliminator	NBR/PUR	FF5021 C
1/2"	G 1/2	36	117	39		450	Press. Eliminator	FKM	FF5021 CV
3/4"	G 3/4	46	139	50		400	Press. Eliminator	NBR/PUR	FF7521 C
1"	G 1	55	175	60		350	Press. Eliminator	NBR/PUR	FF10021 C

Couplings

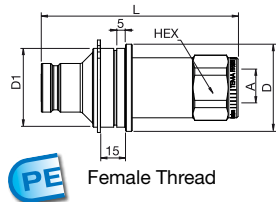
FF-Series



Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Working Press. connect. in bar	Version	Seal	Part Number
1/2"	G 1/2	40	82	52	47	450	for Multiplate	NBR	FF5010 CE
1/2"	G 1/2	40	82	52	47	450	for Multiplate	FKM	FF5010 CEV
3/4"	G 3/4	50	98	66	60	400	for Multiplate	NBR	FF7510 CE
3/4"	G 3/4	50	98	66	60	400	for Multiplate	FKM	FF7510 CEV

Plugs

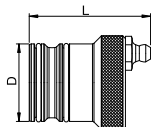
FF-Series



Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Working Press. connect. in bar	Version	Seal	Part Number
1/2"	G 1/2	36	117	52	47	450	Press. El. f. Multiplate	NBR/PUR	FF5021 CE
3/4"	G 3/4	46	139	66	60	400	Press. El. f. Multiplate	NBR/PUR	FF7521 CE

Lubrication Nipples

FF-Series



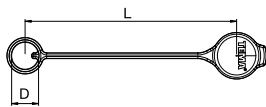
Body Size	Version	L mm	D mm	Part Number
1/2"	for coupling	48	29	GRF5
3/4"	for coupling	52	38	GRF7
1"	for coupling	52	50	GRF10

Seal-Kit**FF-Series**

Body Size	Version	Material	Part Number
1/4"	for plugs	NBR/PUR	FF2500-PSNPU
3/8"	for plugs	NBR/PUR	FF3800-PSNPU
1/2"	for plugs	NBR/PUR	FF5000-PSNPU
1/2"	for plugs	FKM	FF5000-PSV
3/4"	for plugs	NBR/PUR	FF7500-PSNPU
3/4"	for plugs	FKM	FF7500-PSV
1"	for plugs	NBR/PUR	FF10000-PSNPU
1"	for plugs	FKM	FF10000-PSV

Dust Protection**FF-Series**

Body Size	Version	L mm	D mm	Material	Color	Part Number
1/4"	for coupling	190	24	PVC	Blue	FF2516
1/4"	for plug	190	24	PVC	Blue	FF2526
3/8"	for coupling	190	28	PVC	Blue	FF3816
3/8"	for plug	190	28	PVC	Blue	FF3826
1/2"	for coupling	220	28	PVC	Blue	FF5016
1/2"	for plug	220	28	PVC	Blue	FF5026
3/4"	for coupling	250	42	PVC	Blue	FF7516
3/4"	for plug	250	42	PVC	Blue	FF7526
1"	for coupling	290	51	PVC	Blue	FF10016
1"	for plug	290	51	PVC	Blue	FF10026



Further colors on request.