



Body Size

1/4" up to 1"

Tema Profile

FF-Series

Medium Pressure



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

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

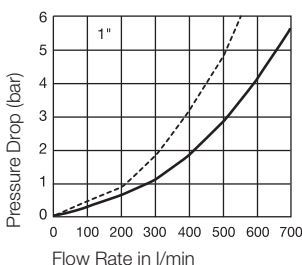
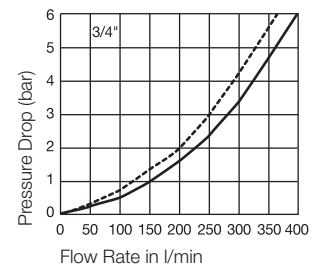
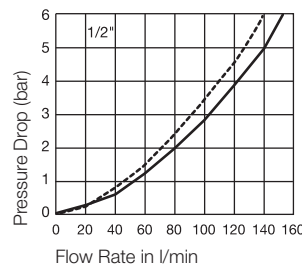
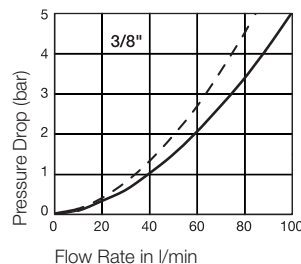
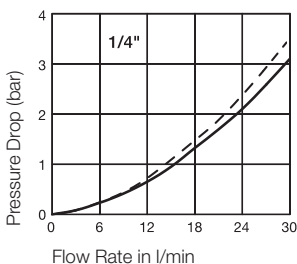


| Material Coupling | Standard / Pressure Eliminator |
|-------------------|---|
| Coupling Body | Steel, nitrocarburizing |
| Sleeve | Steel hardened, zinc plated, passivated, sealed |
| Locking Ring | Brass, zinc-iron coated, black passivated, sealed |
| Valve | Steel, zinc plated, passivated, sealed |
| 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 |

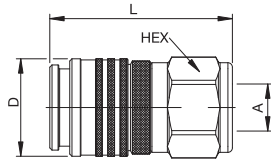
Applications Area



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



— Standard FF
- - - Plug side pressure eliminator

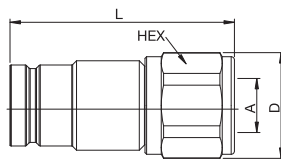


Female Thread

| 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 |

Plugs

FF-Series

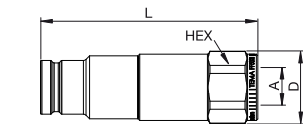


Female Thread

| 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 | 74 | 30 | 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 | 142 | 65 | 350 | Standard | NBR/PUR | FF10020-150 C |
| 1" | G 1 1/2 | 60 | 142 | 65 | 350 | Standard | FKM | FF10020-150 CV |

Plugs

FF-Series

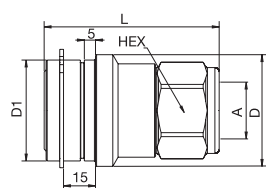


Female Thread

| 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 | 27 | 99 | 30 | | 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

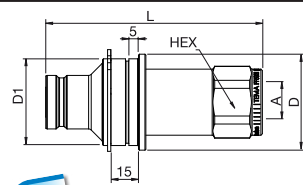


Female Thread

| 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

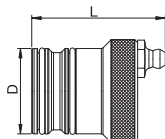


Female Thread

| 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 | 65 | 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

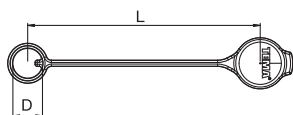
FF-Series

| 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.