



Body Size

**1/4" to 1"**

Tema Profile

**FF-Series****Connected length in total**

FF2510 + FF2520 = 122 mm

FF2510 + FF2521 = 147 mm

FF3810 + FF3820 = 125 mm

FF3810 + FF3821 = 154 mm

FF5010 + FF5020 = 144 mm

FF5010 + FF5021 = 179 mm

FF7510 + FF7520 = 169 mm

FF7510 + FF7521 = 215 mm

FF10010 + FF10020 = 230 mm

FF10010 + FF10021 = 269 mm

**Body Size      Bursting Pressure connected**

1/4"      &gt; 3200 bar

3/8"      &gt; 2000 bar

1/2"      &gt; 1500 bar

3/4"      &gt; 1500 bar

1"      &gt; 1100 bar

**Applications Area****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**

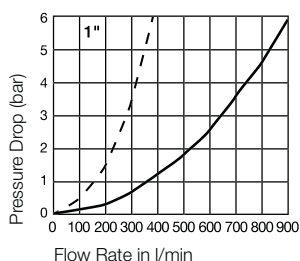
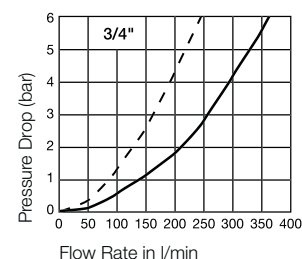
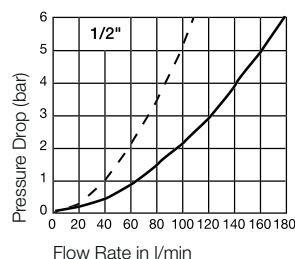
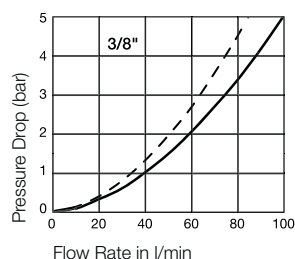
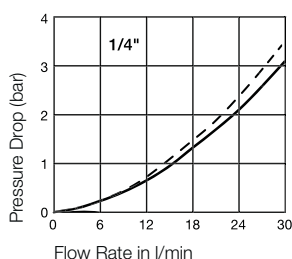
See charts.

**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**

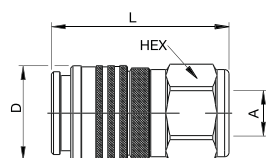
| Material Coupling | Standard / Pressure Eliminator                    |
|-------------------|---------------------------------------------------|
| Coupling Body     | Steel, nitrocarburizing                           |
| Sleeve            | Steel hardened, zinc plated, passivated, sealed   |
| Looking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

**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 Standard

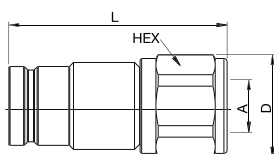


Female Thread

| 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   | 400                            | Standard | NBR/PUR | FF5010 C       |
| 1/2"      | G 1/2        | 40     | 82   | 44   | 400                            | Standard | FKM     | FF5010 CV      |
| 1/2"      | G 3/4        | 40     | 82   | 44   | 400                            | Standard | NBR/PUR | FF5010-75 C    |
| 1/2"      | G 3/4        | 40     | 82   | 44   | 400                            | Standard | FKM     | FF5010-75 CV   |
| 3/4"      | G 3/4        | 50     | 98   | 55   | 400                            | Standard | NBR/PUR | 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/PUR | FF7510-100 C   |
| 3/4"      | G 1          | 50     | 106  | 55   | 400                            | Standard | FKM     | FF7510-100 CV  |
| 1"        | G 1          | 65     | 120  | 70   | 300                            | Standard | NBR/PUR | FF10010 C      |
| 1"        | G 1          | 65     | 120  | 70   | 300                            | Standard | FKM     | FF10010 CV     |
| 1"        | G 1 1/4      | 65     | 120  | 70   | 300                            | Standard | NBR/PUR | FF10010-125 C  |
| 1"        | G 1 1/4      | 65     | 120  | 70   | 300                            | Standard | FKM     | FF10010-125 CV |
| 1"        | G 1 1/2      | 65     | 120  | 70   | 300                            | Standard | NBR/PUR | FF10010-150 C  |
| 1"        | G 1 1/2      | 65     | 120  | 70   | 300                            | Standard | FKM     | FF10010-150 CV |

## Plugs

## FF-Series Standard

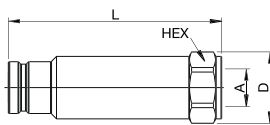


Female Thread

| Body Size | Connection A | Hex mm | L mm | D mm | Working Press. connect. in bar | Version  | Seal    | Part Number    |
|-----------|--------------|--------|------|------|--------------------------------|----------|---------|----------------|
| 1/4"      | G 1/4        | 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     | 84   | 35   | 400                            | Standard | NBR/PUR | FF5020 C       |
| 1/2"      | G 1/2        | 36     | 84   | 35   | 400                            | Standard | FKM     | FF5020 CV      |
| 1/2"      | G 3/4        | 36     | 90   | 40   | 400                            | Standard | NBR/PUR | FF5020-75 C    |
| 1/2"      | G 3/4        | 36     | 90   | 40   | 400                            | Standard | FKM     | FF5020-75 CV   |
| 3/4"      | G 3/4        | 41     | 101  | 45   | 400                            | Standard | NBR/PUR | FF7520 C       |
| 3/4"      | G 3/4        | 41     | 101  | 45   | 400                            | Standard | FKM     | FF7520 CV      |
| 3/4"      | G 1          | 50     | 112  | 55   | 400                            | Standard | NBR/PUR | FF7520-100 C   |
| 3/4"      | G 1          | 50     | 112  | 55   | 400                            | Standard | FKM     | FF7520-100 CV  |
| 1"        | G 1          | 60     | 138  | 65   | 300                            | Standard | NBR/PUR | FF10020 C      |
| 1"        | G 1          | 60     | 138  | 65   | 300                            | Standard | FKM     | FF10020 CV     |
| 1"        | G 1 1/4      | 60     | 138  | 70   | 300                            | Standard | NBR/PUR | FF10020-125 C  |
| 1"        | G 1 1/4      | 60     | 138  | 70   | 300                            | Standard | FKM     | FF10020-125 CV |
| 1"        | G 1 1/2      | 60     | 138  | 70   | 300                            | Standard | NBR/PUR | FF10020-150 C  |
| 1"        | G 1 1/2      | 60     | 138  | 70   | 300                            | Standard | FKM     | FF10020-150 CV |

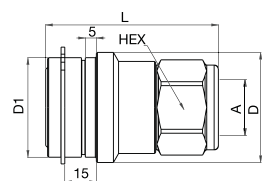
## Plugs

## FF-Series Pressure Eliminator

|                                                                                                        | Body Size | Connection A | Hex mm | L mm | D mm | D1 mm | Working Press. connect. in bar | Version           | Seal    | Part Number |
|--------------------------------------------------------------------------------------------------------|-----------|--------------|--------|------|------|-------|--------------------------------|-------------------|---------|-------------|
|  <p>Female Thread</p> | 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     | 120  | 40   |       | 400                            | Press. Eliminator | NBR/PUR | FF5021 C    |
|                                                                                                        | 1/2"      | G 1/2        | 36     | 120  | 40   |       | 400                            | Press. Eliminator | FKM     | FF5021 CV   |
|                                                                                                        | 3/4"      | G 3/4        | 50     | 146  | 56   |       | 400                            | Press. Eliminator | NBR/PUR | FF7521 C    |
|                                                                                                        | 1"        | G 1          | 55     | 178  | 60   |       | 300                            | Press. Eliminator | NBR/PUR | FF10021 C   |

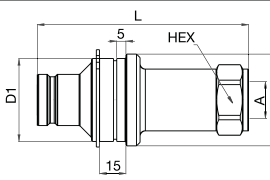
## Couplings

## FF-Series for Multiplate

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

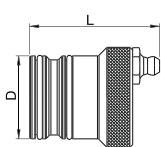
## Plugs

## FF-Series Pressure Eliminator for Multiplate

|                                                                                                          | Body Size | Connection A | Hex mm | L mm | D mm | D1 mm | Working Press. connect. in bar | Version                  | Seal    | Part Number |
|----------------------------------------------------------------------------------------------------------|-----------|--------------|--------|------|------|-------|--------------------------------|--------------------------|---------|-------------|
|  <p>Female Thread</p> | 1/2"      | G 1/2        | 36     | 120  | 52   | 47    | 400                            | Press. El. f. Multiplate | NBR/PUR | FF5021 CE   |
|                                                                                                          | 3/4"      | G 3/4        | 50     | 146  | 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      | FF2500-PSNPU  |
| 3/8"      | for plugs | NBR      | FF3800-PSNPU  |
| 1/2"      | for plugs | NBR      | FF5000-PSNPU  |
| 1/2"      | for plugs | FKM      | FF5000-PSV    |
| 3/4"      | for plugs | NBR      | FF7500-PSNPU  |
| 3/4"      | for plugs | FKM      | FF7500-PSV    |
| 1"        | for plugs | NBR      | 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.



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