

Technical Description

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

Connected length in total:
TFF7510 + TFF7520 = 169 mm
TFF7510 + TFF7521 = 215 mm

Advantages

Dry break quick connect coupling. With minimum pressure drop. Single-handed operation. No oil loss during uncoupling. 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.

Available Valves



Working Pressure

See chart.

Working Temperature*

-30°C up to +100°C (NBR)
 -25°C up to +200°C (FKM)
 depending on the medium.

*At a temperature below -25°C and above +200°C special seals are available on request.



Material

Coupling

- Coupling Body
- Sleeve
- Locking Ring
- Valve
- Springs
- Locking Balls
- Seals
- Valve Holder
- Thread Body

Standard

- Steel, QPQ-treated
- Steel Hardened, Zinc Plated, Yellow passivated, sealed
- Brass, Zinc-iron coated, Black passivated, sealed
- Steel, Zinc Plated, Yellow passivated, sealed
- AISI 301
- AISI 420 C
- NBR/PUR
- Steel, Yellow Zinc Plated, sealed
- Steel, Zinc Plated, Yellow passivated, sealed

Plug

- Plug Body
- Valve
- Springs
- Seals
- Valve Holder
- Thread Body

- Steel Hardened, Zinc Plated, Yellow passivated, sealed
- Steel, QPQ-treated
- AISI 301
- NBR/PUR
- Brass, Hard-drawn
- Steel, Zinc Plated, Yellow passivated, sealed

Pressure (Coupling/Plug)

TFF7500

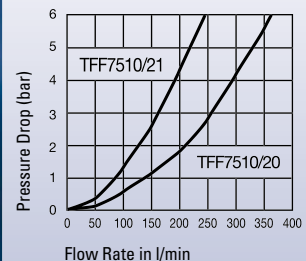
Bursting Pressure coupled

> 1500 bar/1500 bar

Working Pressure uncoupled

350 bar/350 bar

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



Couplings

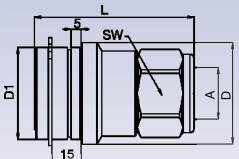
TEMA Serie TFF7500

| | Dimension | Connection A | SW mm | L mm | D mm | D1 mm | Working press. in bar | Version | Seal | Part Number | DS |
|-----------------------------|-----------|--------------|-------|------|------|-------|-----------------------|----------|---------|---------------|----|
| <p>Female Thread</p> | 3/4" | G 3/4 | 50 | 98 | 55 | | 400 | Standard | NBR/PUR | TFF7510 | ■ |
| | 3/4" | G 3/4 | 50 | 98 | 55 | | 400 | Standard | FKM | TFF7510 V | ■ |
| | 3/4" | G 1 | 50 | 106 | 55 | | 400 | Standard | NBR/PUR | TFF7510-100 | ■ |
| | 3/4" | G 1 | 50 | 106 | 55 | | 400 | Standard | FKM | TFF7510-100 V | ■ |
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DS = Delivery Status: ■ in stock ■ on short call ■ medium term delivery

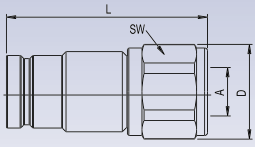
Couplings for Multiplate

TEMA Series TFF7500

| | Dimension | Connection A | Hex SW | L mm | D mm | D1 mm | Working press. in bar | Version | Seal | Part Number | DS |
|--|-----------|--------------|--------|------|------|-------|-----------------------|----------|---------|----------------|----|
|  <p>Female Thread</p> | 3/4" | G 3/4 | 50 | 98 | 66 | 60 | 400 | Standard | NBR/PUR | TFF7510 E | ■ |
| | 3/4" | G 3/4 | 50 | 98 | 66 | 60 | 400 | Standard | FKM | TFF7510 EV | ■ |
| | 3/4" | G 1 | 50 | 106 | 66 | 60 | 400 | Standard | NBR/PUR | TFF7510-100 E | ■ |
| | 3/4" | G 1 | 50 | 106 | 66 | 60 | 400 | Standard | FKM | TFF7510-100 EV | ■ |
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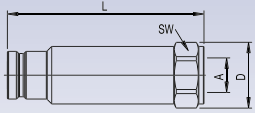
Plugs

TEMA Series TFF7500

| | Dimension | Connection A | Hex SW | L mm | D mm | D1 mm | Working press. in bar | Version | Seal | Part Number | DS |
|--|-----------|--------------|--------|------|------|-------|-----------------------|----------|---------|---------------|----|
|  <p>Female Thread</p> | 3/4" | G 3/4 | 41 | 101 | 45 | | 400 | Standard | NBR/PUR | TFF7520 | ■ |
| | 3/4" | G 3/4 | 41 | 101 | 45 | | 400 | Standard | FKM | TFF7520 V | ■ |
| | 3/4" | G 1 | 50 | 112 | 55 | | 400 | Standard | NBR/PUR | TFF7520-100 | ■ |
| | 3/4" | G 1 | 50 | 112 | 55 | | 400 | Standard | FKM | TFF7520-100 V | ■ |
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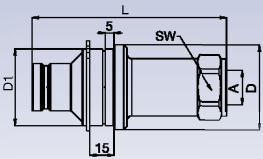
Plugs with Pressure Eliminator

TEMA Series TFF7500

| | Dimension | Connection A | Hex SW | L mm | D mm | D1 mm | Working press. in bar | Version | Seal | Part Number | DS |
|--|-----------|--------------|--------|------|------|-------|-----------------------|----------|---------|---------------|----|
|  <p>Female Thread</p> | 3/4" | G 3/4 | 50 | 146 | 56 | | 400 | Standard | NBR/PUR | TFF7521 | ■ |
| | 3/4" | G 3/4 | 50 | 146 | 56 | | 400 | Standard | FKM | TFF7521 V | ■ |
| | 3/4" | G 1/2 | 50 | 148 | 56 | | 400 | Standard | NBR/PUR | TFF7521-100 | ■ |
| | 3/4" | G 1/2 | 50 | 148 | 56 | | 400 | Standard | FKM | TFF7521-100 V | ■ |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Plugs with Pressure Eliminator for Multiplate

TEMA Series TFF7500

| | Dimension | Connection A | Hex SW | L mm | D mm | D1 mm | Working press. in bar | Version | Seal | Part Number | DS |
|--|-----------|--------------|--------|------|------|-------|-----------------------|----------|---------|----------------|----|
|  <p>Female Thread</p> | 3/4" | G 3/4 | 50 | 146 | 66 | 60 | 400 | Standard | NBR/PUR | TFF7521 E | ■ |
| | 3/4" | G 3/4 | 50 | 146 | 66 | 60 | 400 | Standard | FKM | TFF7521 EV | ■ |
| | 3/4" | G 1 | 50 | 148 | 66 | 60 | 400 | Standard | NBR/PUR | TFF7521-100 E | ■ |
| | 3/4" | G 1 | 50 | 148 | 66 | 60 | 400 | Standard | FKM | TFF7521-100 EV | ■ |
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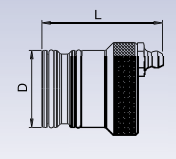
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■ medium term delivery


Lubrication Nipple **TEMA Series TFF7500**

| Dimension | Description | L | D | Part Number | DS |
|---|-------------|----|----|-------------|-----|
| | | mm | mm | | |
| 3/4" | Coupling | 52 | 38 | TGRF7 | ■ □ |
|  | | | | | |

Seal-Kit for Plugs **TEMA Series TFF7500**

| Dimension | Description | Material | Part Number | DS |
|---------------------------------------|-------------|----------|--------------|-----|
| 3/4" | Plug | NBR | TFF7500-PSN | ■ |
| 3/4" | Plug | FKM | TFF7500-PSV | ■ □ |
| 3/4" | Plug | PUR | TFF7500-PSPU | ■ |
| Further sealing materials on request. | | | | |

Dust Protection **TEMA Series TFF7500**

| Dimension | Description | L | D | Material | Color* | Part Number | DS |
|---|-------------|-----|----|----------|--------|-------------|-----|
| | | mm | mm | | | | |
| 3/4" | Coupling | 250 | 42 | PVC | Blue | TFF7516 | ■ □ |
| 3/4" | Plug | 250 | 42 | PVC | Blue | TFF7526 | ■ □ |
|  | | | | | | | |
| *) Further colors on request. | | | | | | | |

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