

# TNV

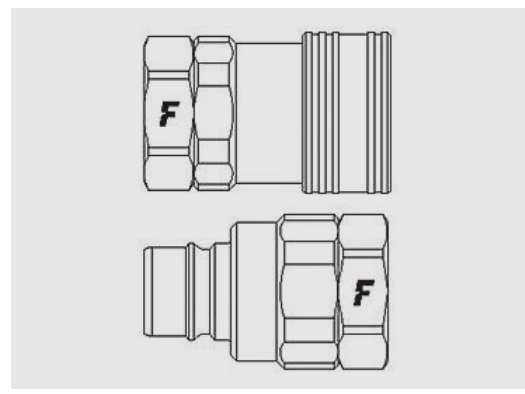


## Standard couplings, US interchange.

TNV series couplings are commonly used in US market as an alternative to standard series. Their valves have been designed to help flow and to allow connection with TNL parts (free flow) same series.



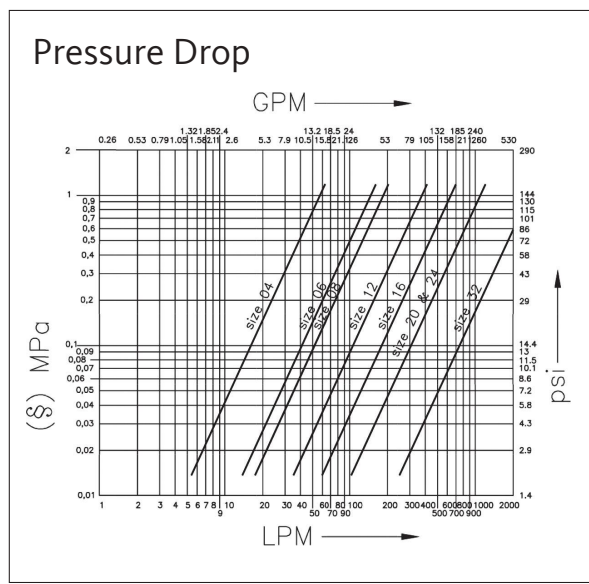
## Applications



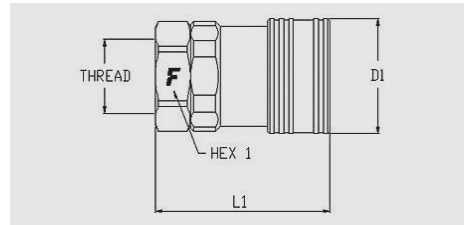
## Technical Specifications

| dash | Size |        | Working Pressure (MPa) | Flow Rate (l/min) | Spillage (ml) | Force to Connect (N) | Burst pressure (MPa) |        |               |
|------|------|--------|------------------------|-------------------|---------------|----------------------|----------------------|--------|---------------|
|      | mm   | inch   |                        |                   |               |                      | Male                 | Female | Male + Female |
| 04   | 6,3  | 1/4"   | 27                     | 22                | 2             | 60                   | 160                  | 110    | 110           |
| 06   | 10   | 3/8"   | 30                     | 65                | 3             | 60                   | 180                  | 120    | 160           |
| 08   | 12,5 | 1/2"   | 22                     | 75                | 4             | 92                   | 90                   | 88     | 88            |
| 12   | 20   | 3/4"   | 19                     | 170               | 14            | 110                  | 76                   | 76     | 76            |
| 16   | 25   | 1"     | 15                     | 280               | 20            | 100                  | 60                   | 60     | 60            |
| 20   | 31,5 | 1-1/4" | 10                     | 450               | 45            | 110                  | 50                   | 50     | 40            |
| 24   | 37,5 | 1-1/2" | 11                     | 450               | 80            | 150                  | 45                   | 45     | 45            |

|                           |                            |
|---------------------------|----------------------------|
| Material                  | <b>Steel</b>               |
| Seals                     | <b>NBR</b>                 |
| Working temperatures      | <b>- 25 °C to + 125 °C</b> |
| Surface treatment         | <b>MATE 500 (CrIII)</b>    |
| Series Interchange        | <b>MARKET</b>              |
| Valve Type                | <b>Poppet</b>              |
| Connection                | <b>Sleeve Retraction</b>   |
| Disconnection             | <b>Sleeve Retraction</b>   |
| Connection Under Pressure | <b>Not Allowed</b>         |

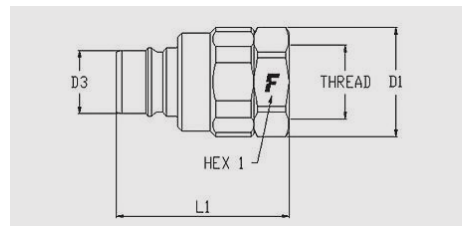


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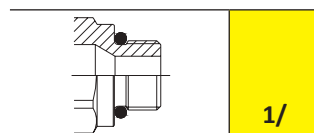
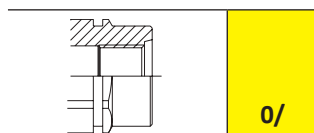
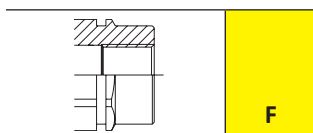


| Size   |      | Thread details |              |                          | FEMALE          |                 |      |      |      |      |      |
|--------|------|----------------|--------------|--------------------------|-----------------|-----------------|------|------|------|------|------|
| inch   | mm   | Thread Type    | Standard     | Thread                   | Part Number     | L (L1 + Thread) |      | D1   |      | HEX1 |      |
|        |      |                |              |                          |                 | mm              | inch | mm   | inch | mm   | inch |
| 1/4"   | 6,3  | F NPTF         | ANSI B1.20.3 | NPTF 1/4 FEMALE          | TNV 04 NPT F    | 50              | 1,97 | 24   | 0,94 | 22   | 0,87 |
| 3/8"   | 10   | F NPTF         | ANSI B1.20.3 | NPTF 3/8 FEMALE          | TNV 06 NPT F    | 57              | 2,24 | 27   | 1,06 | 24   | 0,94 |
| 1/2"   | 12,5 | F NPTF         | ANSI B1.20.3 | NPTF 1/2 FEMALE          | TNV 08 NPT F    | 65              | 2,56 | 34   | 1,34 | 30   | 1,18 |
| 3/4"   | 20   | O/ BSPP        | BS 5380      | BSPP 3/4 FEMALE ORB      | TNV120/34GAS F  | 64              | 2,52 | 42   | 1,65 | 36   | 1,42 |
| 3/4"   | 20   | O/ SAE         | ISO 11926-1  | 1-1/16"-12 UN FEMALE ORB | TNV120/1116UN F | 64              | 2,52 | 42   | 1,65 | 36   | 1,42 |
| 3/4"   | 20   | F NPTF         | ANSI B1.20.3 | NPTF 3/4 FEMALE          | TNV 12 NPT F    | 64              | 2,52 | 42   | 1,65 | 36   | 1,42 |
| 1"     | 25   | O/ BSPP        | BS 5380      | BSPP 1 FEMALE ORB        | TNV160/1GAS F   | 71              | 2,8  | 50,5 | 1,99 | 46   | 1,81 |
| 1"     | 25   | F NPTF         | ANSI B1.20.3 | NPTF 1 FEMALE            | TNV 16 NPT F    | 71              | 2,8  | 50,5 | 1,99 | 46   | 1,81 |
| 1-1/4" | 31,5 | F NPTF         | ANSI B1.20.3 | NPTF 1-1/4 FEMALE        | TNV 20 NPT F    | 97              | 3,82 | 56   | 2,2  | 50   | 1,97 |
| 1-1/2" | 37,5 | F NPTF         | ANSI B1.20.3 | NPTF 1-1/2 FEMALE        | TNV 24 NPT F    | 91              | 3,58 | 70   | 2,76 | 65   | 2,56 |

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| Size   |      | Thread details |              |                          | MALE            |                 |      |      |      |      |      |      |      |
|--------|------|----------------|--------------|--------------------------|-----------------|-----------------|------|------|------|------|------|------|------|
| inch   | mm   | Thread Type    | Standard     | Thread                   | Part Number     | L (L1 + Thread) |      | D1   |      | D3   |      | HEX1 |      |
|        |      |                |              |                          |                 | mm              | inch | mm   | inch | mm   | inch | mm   | inch |
| 1/4"   | 6,3  | F NPTF         | ANSI B1.20.3 | NPTF 1/4 FEMALE          | TNV 04 NPT M    | 49              | 1,93 | 24   | 0,94 | 10,8 | 0,43 | 22   | 0,87 |
| 3/8"   | 10   | F NPTF         | ANSI B1.20.3 | NPTF 3/8 FEMALE          | TNV 06 NPT M    | 57              | 2,24 | 27   | 1,06 | 12,9 | 0,51 | 30   | 1,18 |
| 1/2"   | 12,5 | F NPTF         | ANSI B1.20.3 | NPTF 1/2 FEMALE          | TNV 08 NPT M    | 63              | 2,48 | 34   | 1,34 | 16   | 0,63 | 30   | 1,18 |
| 3/4"   | 20   | O/ BSPP        | BS 5380      | BSPP 3/4 FEMALE ORB      | TNV120/34GAS M  | 64              | 2,52 | 42   | 1,65 | 23,3 | 0,92 | 36   | 1,42 |
| 3/4"   | 20   | O/ SAE         | ISO 11926-1  | 1-1/16"-12 UN FEMALE ORB | TNV120/1116UN M | 64              | 2,52 | 42   | 1,65 | 23,3 | 0,92 | 36   | 1,42 |
| 3/4"   | 20   | O1/ SAE        | ISO 6149-2   | 1-1/16"-12 UN MALE JIC   | TNV121/1116UN M | 64              | 2,52 | 42   | 1,65 | 23,3 | 0,92 | 36   | 1,42 |
| 3/4"   | 20   | F NPTF         | ANSI B1.20.3 | NPTF 3/4 FEMALE          | TNV 12 NPT M    | 64              | 2,52 | 42   | 1,65 | 23,3 | 0,92 | 36   | 1,42 |
| 1"     | 25   | O/ BSPP        | BS 5380      | BSPP 1 FEMALE ORB        | TNV160/1GAS M   | 68              | 2,68 | 50,5 | 1,99 | 29,7 | 1,17 | 46   | 1,81 |
| 1"     | 25   | F NPTF         | ANSI B1.20.3 | NPTF 1 FEMALE            | TNV 16 NPT M    | 68              | 2,68 | 50,5 | 1,99 | 29,7 | 1,17 | 46   | 1,81 |
| 1-1/4" | 31,5 | F NPTF         | ANSI B1.20.3 | NPTF 1-1/4 FEMALE        | TNV 20 NPT M    | 91              | 3,58 | 56   | 2,2  | 36,1 | 1,42 | 50   | 1,97 |
| 1-1/2" | 37,5 | F NPTF         | ANSI B1.20.3 | NPTF 1-1/2 FEMALE        | TNV 24 NPT M    | 85              | 3,35 | 70   | 2,76 | 43,5 | 1,71 | 65   | 2,56 |



# TNV accessories

## PVC dust caps



Plugs suitable for FEMALE



Caps suitable for MALE

| Size |      |      | Plug Details |        | Size |      |      | Cap Details |        |
|------|------|------|--------------|--------|------|------|------|-------------|--------|
| inch | mm   | dash | Part number  | Colour | inch | mm   | dash | Part number | Colour |
| 1/4" | 6,3  | 04   | TMH 14       | red    | 1/4" | 6,3  | 04   | TFH 14 N    | black  |
| 1/4" | 6,3  | 04   | TMH 14 N     | black  | 1/4" | 6,3  | 04   | TFH 14      | red    |
| 3/8" | 10   | 06   | TMA 38       | yellow | 3/8" | 10   | 06   | TFA 38 N    | black  |
| 3/8" | 10   | 06   | TMA 38 A     | orange | 3/8" | 10   | 06   | TFH 38 N    | black  |
| 3/8" | 10   | 06   | TMA 38 B     | blue   | 3/8" | 10   | 06   | TFA 38 B    | blue   |
| 3/8" | 10   | 06   | TMA 38 N     | black  | 3/8" | 10   | 06   | TFH 38 B    | blue   |
| 3/8" | 10   | 06   | TMA 38 R     | red    | 3/8" | 10   | 06   | TFA 38 V    | green  |
| 3/8" | 10   | 06   | TMA 38 V     | green  | 3/8" | 10   | 06   | TFA 38 A    | orange |
| 1/2" | 12,5 | 08   | TMH 12       | red    | 3/8" | 10   | 06   | TFH 38 A    | orange |
| 3/4" | 20   | 12   | TMH 34       | red    | 3/8" | 10   | 06   | TFA 38 R    | red    |
| 3/4" | 20   | 12   | TMH 34 N     | black  | 3/8" | 10   | 06   | TFH 38      | red    |
| 1"   | 25   | 16   | TMH 1        | red    | 3/8" | 10   | 06   | TFA 38      | yellow |
|      |      |      |              |        | 3/8" | 10   | 06   | TFH 38 G    | yellow |
|      |      |      |              |        | 1/2" | 12,5 | 08   | TFH 12      | red    |
|      |      |      |              |        | 3/4" | 20   | 12   | TFH 34 N    | black  |
|      |      |      |              |        | 3/4" | 20   | 12   | TFH 34      | red    |

## Seal Kits



### For Female

| Size   |      |      | Seal Details |             |
|--------|------|------|--------------|-------------|
| inch   | mm   | dash | Material     | Part Number |
| 1/4"   | 6,3  | 04   | NBR; PTFE    | SK TNV 04   |
| 3/8"   | 10   | 06   | NBR; PTFE    | SK TNV 06   |
| 1/2"   | 12,5 | 08   | NBR; PTFE    | SK TNV 08   |
| 1/2"   | 12,5 | 08   | NBR; PTFE    | SK TNV 12   |
| 1"     | 25   | 16   | NBR; PTFE    | SK TNV 16   |
| 1-1/4" | 31,5 | 20   | NBR; PTFE    | SK TNV 20   |
| 1-1/2" | 37,5 | 24   | NBR; PTFE    | SK TNV 24   |
| 2"     | 50   | 32   | NBR          | SK TNV 32   |

Every seals kit is composed of 5 or 10 pcs.