

## Inlet Elements with Primary Pressure Relief Valve

TE-01-\_\_-

**RE 18300-02**

Edition: 02.2016

Replaces: 07.2012



### Description

The inlet elements TE-01-\_\_ are employed to connect the external P and T lines to the P and T channels inside the ED elements of the Directional Valve Assembly. They incorporate a pressure relief cartridge which limits the maximum primary pressure in the P line and unloads to Tank any excess flow. The relief setting can be checked through the Test Point port M.

The TE-01-\_\_ inlet elements are available in two versions:  
-Body made of Black Anodized Aluminium (Al), or  
-Body made of Yellow Zinc plated (Cr+3) Cast Iron (CI).  
Port sizes can be G 3/8, G 1/2 or SAE 8 (3/4" 16 UNF).

### Technical data

| General                                                                                                                                   |                                                                                                                                                           |                                        |               |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------|
| Inlet Element Type                                                                                                                        |                                                                                                                                                           | AL Version                             | CI Version    |
| TE-01-02-00-                                                                                                                              | kg (lbs)                                                                                                                                                  | 0.31 (0.67)                            | Not Available |
| TE-01-03-00-                                                                                                                              | kg (lbs)                                                                                                                                                  | 0.49 (1.08)                            | 1.23 (2.72)   |
| TE-01-56-00-                                                                                                                              | kg (lbs)                                                                                                                                                  | 0.49 (1.08)                            | Not Available |
| TE-01-02-S_-                                                                                                                              | kg (lbs)                                                                                                                                                  | 0.44 (0.96)                            | Not Available |
| TE-01-03-S_-                                                                                                                              | kg (lbs)                                                                                                                                                  | 0.66 (1.45)                            | 1.36 (3.00)   |
| TE-01-56-S_-                                                                                                                              | kg (lbs)                                                                                                                                                  | 0.66 (1.45)                            | Not Available |
| Ambient Temperature                                                                                                                       | °C (°F)                                                                                                                                                   | -20....+50 (-4....+122)<br>(NBR seals) |               |
| Hydraulic                                                                                                                                 |                                                                                                                                                           |                                        |               |
| Maximum pressure for aluminium version (AL)                                                                                               | bar (psi)                                                                                                                                                 | 250 (3625)                             |               |
| Maximum pressure for Cast Iron version (CI)                                                                                               | bar (psi)                                                                                                                                                 | 310 (4500)                             |               |
| Maximum inlet flow                                                                                                                        | l/min (gpm)                                                                                                                                               | 50 (13.2)                              |               |
| Hydraulic fluid                                                                                                                           | Mineral oil based hydraulic fluids HL (DIN 51524 part 1).                                                                                                 |                                        |               |
| General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example: | Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us. |                                        |               |
| Fluid Temperature                                                                                                                         | °C (°F)                                                                                                                                                   | -20....+80 (-4....+176) (NBR)          |               |
| Permissible degree of fluid contamination                                                                                                 | ISO 4572: $\beta_x \geq 75$ X=10...12<br>ISO 4406: class 19/17/14<br>NAS 1638: class 8                                                                    |                                        |               |
| Viscosity range                                                                                                                           | mm²/s                                                                                                                                                     | 5....420                               |               |

### Note

For applications with different specifications consult us

Ordering details

|    |    |    |    |    |
|----|----|----|----|----|
| 01 | 02 | 03 | 04 | 05 |
| TE | -  | 01 | -  |    |

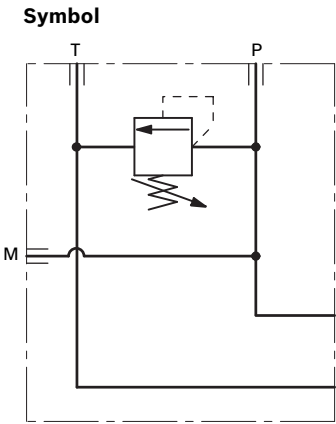
|        |                |  |  |    |
|--------|----------------|--|--|----|
| Family |                |  |  |    |
| 01     | Inlet Elements |  |  | TE |

|               |                                    |  |  |    |
|---------------|------------------------------------|--|--|----|
| Configuration |                                    |  |  |    |
| 02            | With Primary Pressure Relief Valve |  |  | 01 |

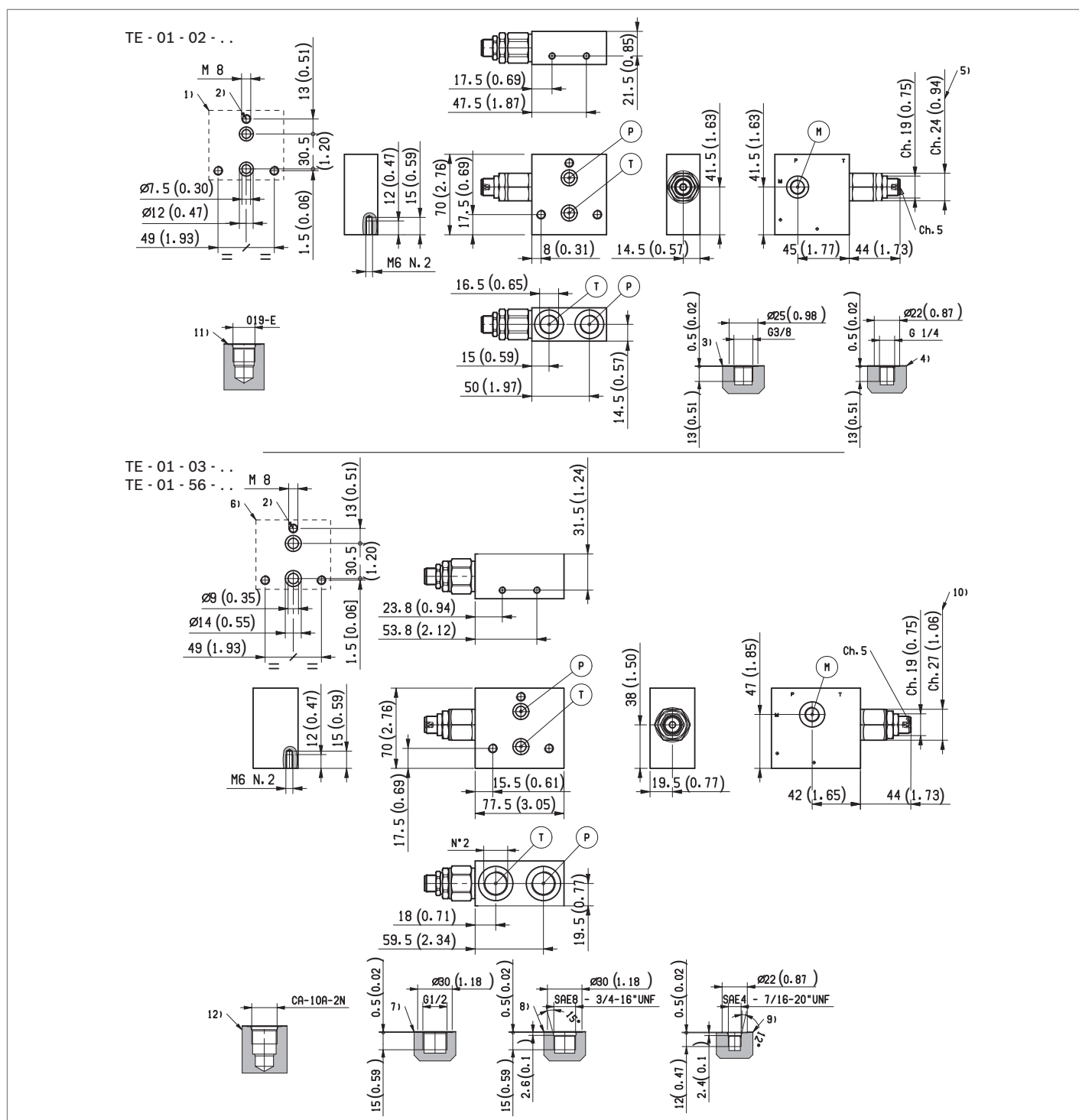
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|-------|----------------------|--|--|----|
| Ports |                      |  |  |    |
| 03    | G 3/8 DIN 3852       |  |  | 02 |
|       | G 1/2 DIN 3852       |  |  | 03 |
|       | 3/4-16 UNF-2B (SAE8) |  |  | 56 |

|                               |                                                                         |  |  |    |
|-------------------------------|-------------------------------------------------------------------------|--|--|----|
| Primary Pressure Relief range |                                                                         |  |  |    |
| 04                            | Cavity without primary pressure relief valve (to be ordered separately) |  |  | 00 |
|                               | Pressure range 25-120bar (362-1740 psi)                                 |  |  | SN |
|                               | Pressure range 40-200bar (580-2900 psi)                                 |  |  | SB |
|                               | Pressure range 200-350bar (2900-5076 psi)                               |  |  | SV |

|          |                         |  |  |    |
|----------|-------------------------|--|--|----|
| Material |                         |  |  |    |
| 05       | Cast Iron <sup>1)</sup> |  |  | CI |
|          | Aluminium               |  |  | AL |



1) Only available for versions with G 1/2 ports (TE-01-03-...)

**External dimensions and fittings**

- 1 Flange specifications for coupling to the ED Directional Valve Elements (for Version TE-01-02...).
- 2 For tie rod and tightening torque information see data sheet RE 18301-90.
- 3 Hydraulic Ports P-T G 3/8, for Inlet Elements TE-01-02...
- 4 Test Point port (M) G 1/4, for Inlet Elements TE-01-02... and TE-01-03...
- 5 Primary Pressure Relief Cartridge VMD1025, with screw type adjuster (refer to RE 18301-91).

- 6 Flange specifications for fitting of the ED Directional Valve Elements. (Versions TE-01-03... and TE-01-56...).
- 7 Hydraulic Ports P-T G 1/2, for versions TE-01-03...
- 8 Hydraulic Ports P-T SAE 8, for versions TE-01-56...
- 9 Test Point port SAE 4, for versions TE-01-56...
- 10 Primary Pressure Relief Cartridge VMD1040, with screw type adjuster (refer to RE 18301-91).
- 11 Cavity for Primary Pressure Relief VMD1025.
- 12 Cavity for Primary Pressure Relief VMD1040.

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Subject to change.