

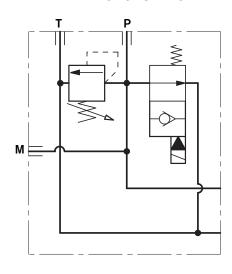
RE 18300-05/07.12

Replaces: 10.09

Inlet elements with Primary Pressure Relief Valve and with Solenoid **Unloading Cartridge**

TE-05-__-

HYDRAULIC - SYMBOL



Description

The inlet elements TE-05-__ 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 primary pressure in the P line. The relief setting can be checked through the Test Point port M. When fitted, the Normally Open Solenoid Unloading VEI Cartridge unloads to Tank all the P line flow; unloading stops when the cartridge coil is energized.

The TE-05-__ inlet elements are available in two versions:

- Body made of Black Anodized Aluminium (AI), 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 (for applications outside these parameters, please consult us)

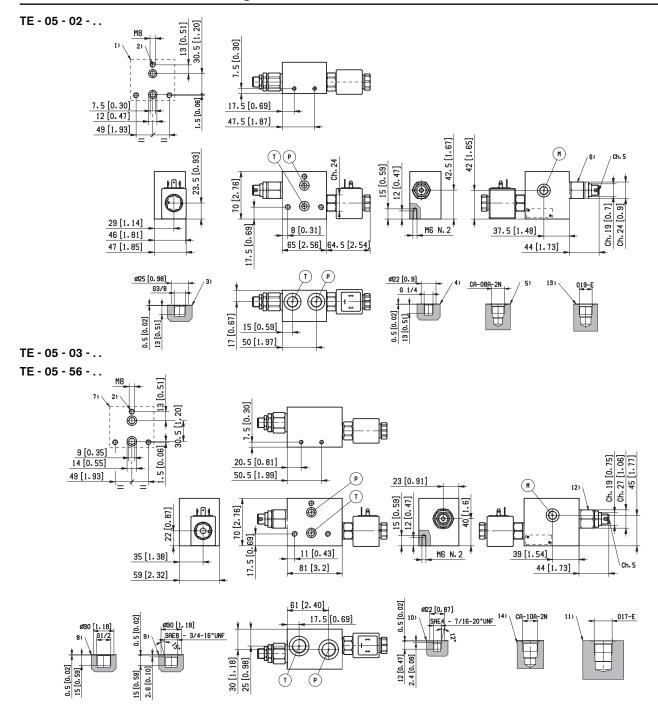
General AL Version CI Version Inlet Element Type Weight (Aluminium) (Cast Iron) TE-05-02-00kg [lbs] 0.50 [1.10] 1.26 [2.78] TE-05-03-00kg [lbs] 0.74 [1.68] 1.92 [4.20] TE-05-56-00kg [lbs] 0.74 [1.68] Not available TE-05-02-S kg [lbs] 0.60 [1.39] 1.40 [3.10] TE-05-03-S kg [lbs] 0.94 [2.06] 2.10 [4.60] TE-05-56-S kg [lbs] 0.94 [2.06] Not available **Ambient Temperature** °C [°F] -20....+50 [-4....+120]

Hydraulic

Maximum pressure for aluminium version	bar <i>[psi]</i>	250 <i>[3625]</i>
Maximum pressure for Cast Iron version	bar <i>[psi]</i>	310 <i>[4500]</i>
Maximum inlet flow	l/min [gpm]	50 <i>[13.2]</i>
Hydraulic fluid 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 HL (DIN 51524 part 1). 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 <i>[°F]</i>	-20+80 <i>[-4+176]</i> (NBR)
Permissible degree of fluid contamination		ISO 4572: β _x ≥75 X=1012 ISO 4406: class 19/17/14 NAS 1638: class 8
Viscosity range	mm²/s	5420

1/4

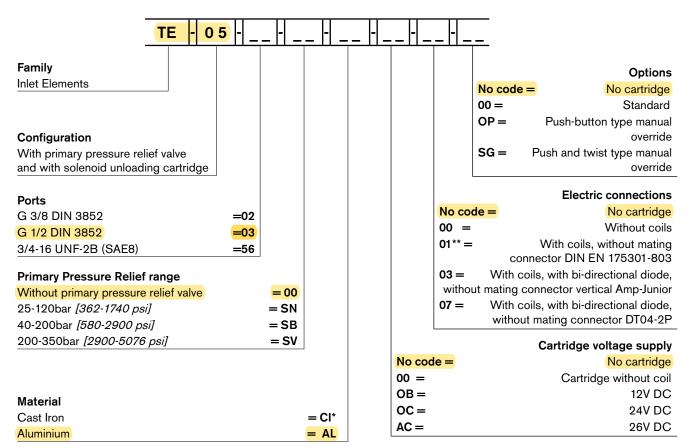
External Dimensions and Fittings



- 1 Flange specifications for coupling to the ED Directional Valve Elements:
- 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-05-02...
- 4 Test Point port M G 1/4, for Inlet Elements TE-05-02... and TE-05-03...
- 5 Cavity for Solenoid Unloading Cartridge, VEI type, for versions TE-05-02-...
- 6 Primary Pressure Relief Cartridge VMD1025, with screw type adjuster (refer to RE 18301-91) for TE-05-02... inlet elements.

- 7 Flange specifications for coupling to the ED Directional Valve Elements (versions TE-05-03-.., TE-05-56-...).
- 8 Hydraulic Ports P-T G 1/2, for versions TE-05-03-...
- 9 Hydraulic Ports P-T SAE 8, for versions TE-05-56...
- 10 Test Point port SAE 4, for versions TE-05-56-...
- 11 Cavity for Solenoid Unloading Cartridge, VEI type, for versions TE-05-03-... and TE-05-56...
- 12 Primary Pressure Relief Cartridge VMD1040, with screw type adjuster for versions TE-05-03-... and TE-05-56... (refer to RE 18301-91).
- 13 Cavity for Primary Pressure Relief Cartridge VMD1025.
- 14 Cavity for Primary Pressure Relief Cartridge VMD1040.

Ordering Details



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

^{**} For connectors ordering code see data sheet RE 18325-90.

Bosch Rexroth Oil Control S.p.A.
Oleodinamica LC Division
Via Artigianale Sedrio, 12
42030 Vezzano sul Crostolo
Reggio Emilia - Italy
Tel. +39 0522 601 801
Fax +39 0522 606 226 / 601 802
compact-directional-valves@oilcontrol.com
www.boschrexroth.com

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent.

The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging. Subject to change.