Rexroth
Bosch Group

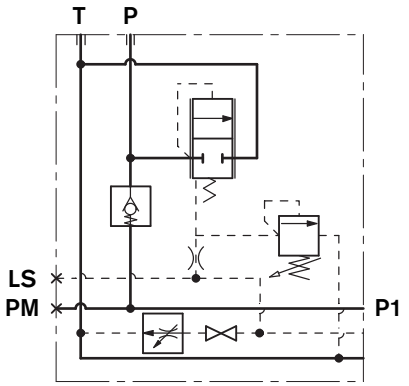
RE 18300-06/07.12 1/4
Replaces: 10.09

Inlet elements with limitation of primary pressure in the system and LS controlled unloading of the excess flow

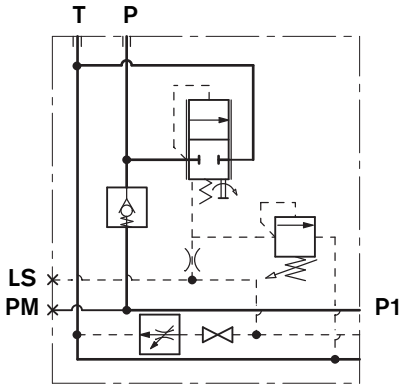
TE-06-__-

HYDRAULIC - SYMBOL

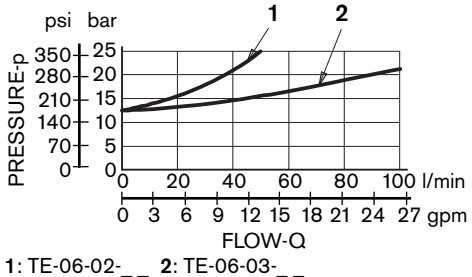
TE-06-__-__-AL-00 (Open center)



TE-06-__-__-AL-01 (Open/Closed center)



Pressure drop through compensator



1: TE-06-02-_ _ **2**: TE-06-03-_ _

Description

The inlet elements TE-06-__ are employed to connect the external P, T lines to the P, T channels inside the ED elements of the Directional Valve Assembly and to connect to the LS ports of the elements equipped with LS channels. An LS controlled 3-way compensator provides pressure compensated flow to the ED elements of the Directional Valve Assembly. The same 3-way compensator is also controlled by a pilot relief cartridge and unloads to tank any excess flow in order to limit the primary pressure in the system. In the inlet elements version TE-06-__-01, the 3 way compensator can be mechanically blocked and the relief cartridge only controls the LS line pressure. The TE-06-__ inlet elements are available with body made of Black Anodized Aluminium (Al).

Port sizes can be G 3/8, G 1/2, with test point PM and LS port G 1/4.

Technical Data (for applications outside these parameters, please consult us)

General

Inlet Element Type		Weight
TE-06-02-_ _-	kg *[lbs]*	1.15 *[2.53]*
TE-06-03-_ _-	kg *[lbs]*	1.42 *[3.13]*
Ambient Temperature	°C *[°F]*	–20....+50 *[–4....+120]*

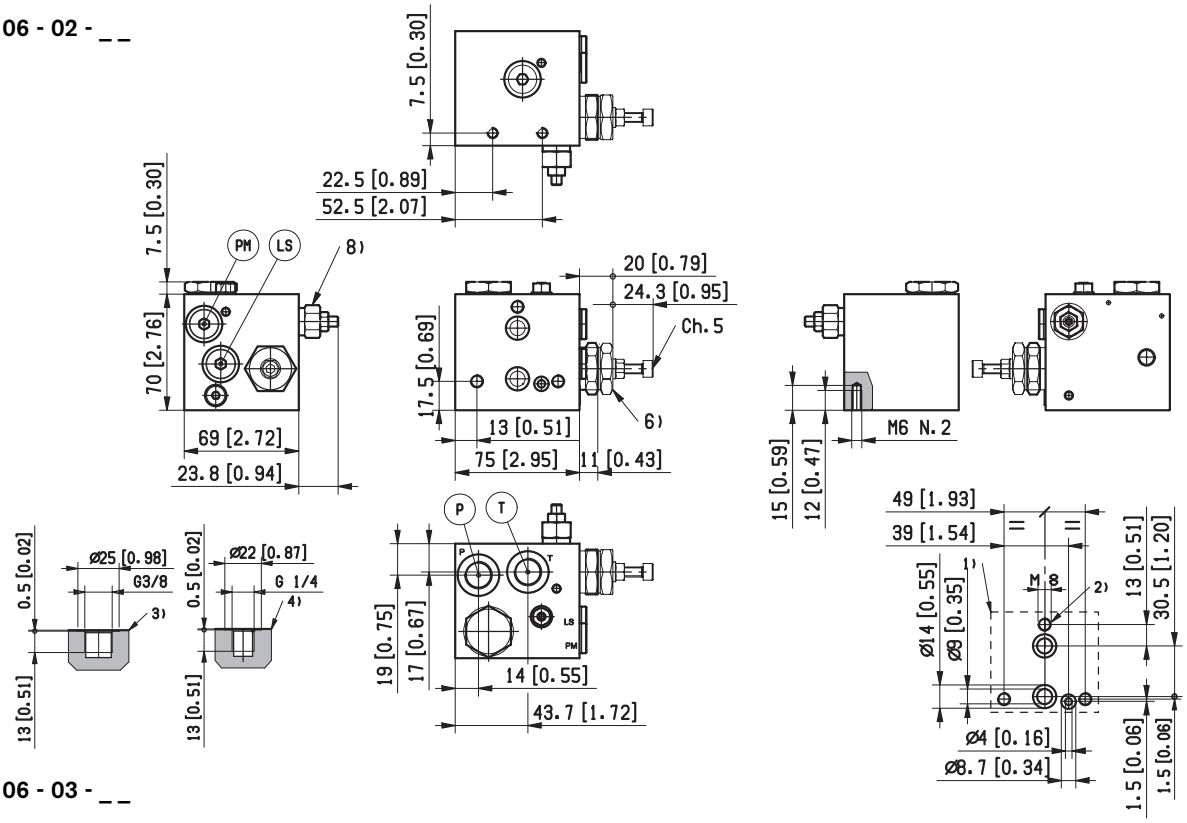
Hydraulic

Maximum pressure	bar *[psi]*	250 *[3625]*
Maximum inlet flow for TE-06-02-_ _ version	l/min *[gpm]*	40 *[10.6]*
Maximum inlet flow for TE-06-03-_ _ version	l/min *[gpm]*	90 *[23.8]*
Max. rated flow at P1	l/min *[gpm]*	40 *[10.57]**
Max. flow through LS drain	l/min *[gpm]*	0.7 *[0.185]*
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 *[°F]*	-20....+80 *[-4....+176]* (NBR)
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=10...12 ISO 4406: class 19/17/14 NAS 1638: class 8
Viscosity range	mm^2/s	5....420

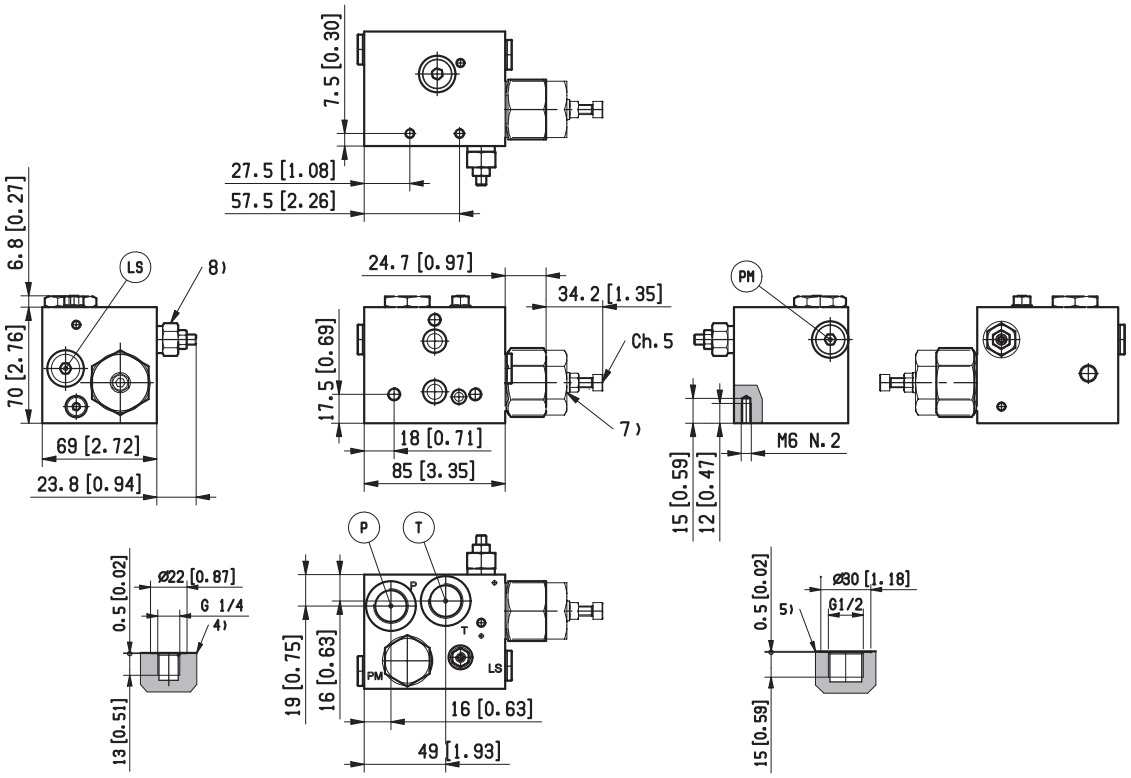
* The max. rated flow depends from the directional control element.

External Dimensions and Fittings

TE - 06 - 02 - _ _



TE - 06 - 03 - _ _



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-06-02…

4 Test Point ports PM and LS port G 1/4.

5 Hydraulic Ports P and T G 1/2, for Inlet Elements TE-06-03…

6 Overall dimensions, including compensator, for TE-06-02-__-01

7 Overall dimensions, including compensator, for TE-06-03-__-01

8 Pressure relief cartridge VS-5-C.

Ordering Details

TE	-	0 6	-	_ _	-	_ _	-	A L	-	_ _

Family
Inlet Elements

Configuration
With limitation of primary pressure in the system and LS controlled unloading of the excess flow

Ports
G 3/8 DIN 3852 **=02**
G 1/2 DIN 3852 **=03**

Pressure Relief range
50-210bar *[725-3046 psi]* **=01**
100-250bar *[1450-3626 psi]* **=02**

3-way compensator type
00 = Without mechanical blocking
01* = With mechanical blocking

Material
Aluminium

* Necessary for open/closed center configuration.

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