

Inlet Elements

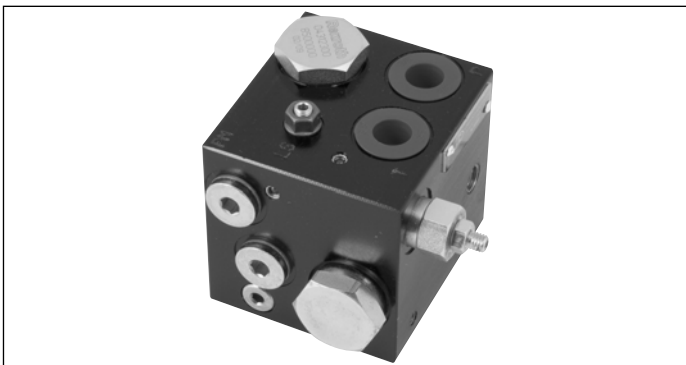
with limitation of primary pressure in the system
and LS controlled unloading of the excess flow

TE-06-__-

RE 18300-06

Edition: 02.2016

Replaces: 07.2012



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

General		
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....+122) (NBR seals)
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	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.	
General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		
Fluid Temperature	°C (°F)	-20....+80 (-4....+176) (NBR)
Permissible degree of fluid contamination	ISO 4572: $\beta_{x \geq 75} X = 10 \dots 12$ ISO 4406: class 19/17/14 NAS 1638: class 8	
Viscosity range	mm ² /s	5....420

1) The max. rated flow depends from the directional control element.

Note

For applications with different specifications consult us

Ordering details

01	02	03	04	05	06
TE	-	06	-	-	AL

Family

01	Inlet Elements	TE
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Configuration

02	With limitation of primary pressure in the system and LS controlled unloading of the excess flow	06
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Ports

03	G 3/8 DIN 3852	02
	G 1/2 DIN 3852	03

Pressure Relief range

04	50-210bar (725-3046 psi)	01
	100-250bar (1450-3626 psi)	02

Material

05	Aluminium	AL
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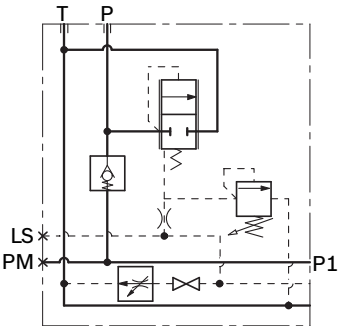
3-way compensator type

05	Without mechanical blocking	00
	With mechanical blocking ¹⁾	01

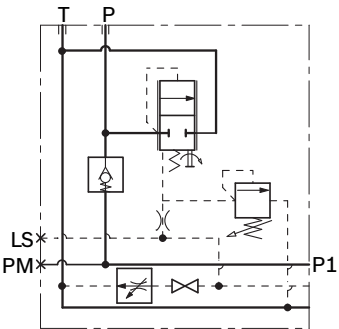
1) Necessary for open/closed center configuration.

Symbol

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

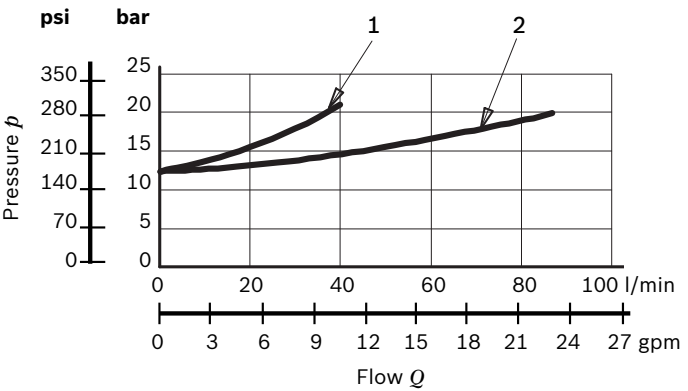


TE-06-_-AL-01 (Open/Closed center)

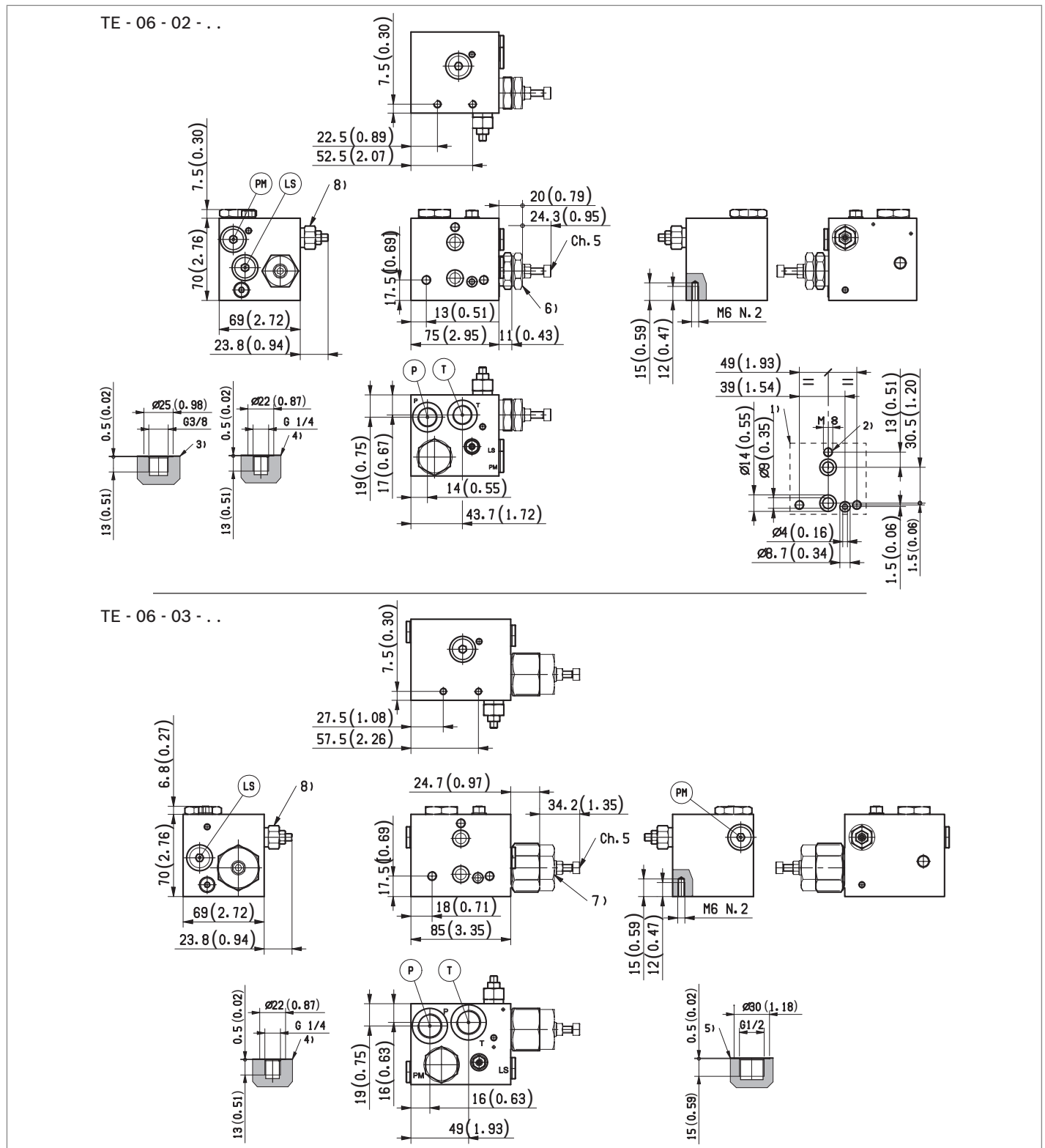


Characteristic curves

Pressure drop through compensator



Model	Curve no.
TE-06-02-_-	1
TE-06-03-_-	2

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-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.

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-hydraulics-cdv@boschrexroth.com
www.boschrexroth.com/compacthydraulics

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Subject to change.