

Intermediate Elements with 2 way compensator, and with LS connections

TI-C2-__-__

RE 18301-28

Edition: 02.2016

Replaces: 07.2012



Description

The sandwich plate design directional valve elements TI-C2-__-... basically consist of a stackable housing with a 2 way compensator controlled by the LS pressure signal. The normally open compensator maintains a constant pressure difference between the P1 (outlet) line and the LS pressure; the result is a constant oil flow to the P1 port for the downstream operators, independently from the working pressure.

The excess oil must be unloaded to tank through a relief valve.

The stackable housing is made of Yellow Zinc plated (Cr+3) Cast Iron.

Technical data

General		
Valve element TI-C2-__-	kg (lbs)	1.7 (3.75)
Ambient Temperature	°C (°F)	-20....+50 (-4....+122) (NBR seals)
Hydraulic		
Maximum pressure	bar (psi)	310 (4500)
Maximum inlet flow	l/min (gpm)	30 (7.9)
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: $\beta_{x \geq 75} X = 12 \dots 15$ ISO 4406: class 20/18/15 NAS 1638: class 9	
Viscosity range	mm ² /s	5....420

Note

For applications with different specifications consult us

Ordering details

01	02	03	04
Tl	-	C2	-
		M0	-
			00

Family

01

Intermediate Elements

Tl

Configuration

02

with 2 way compensator, and with LS connections

C2

Compensator spring

03

Setting 6 bar (87 psi)

M0

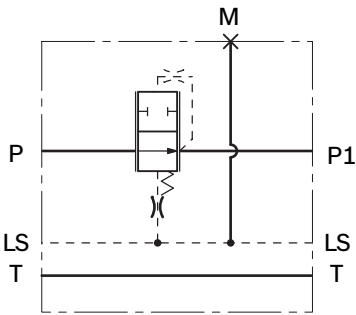
Version

04

Standard

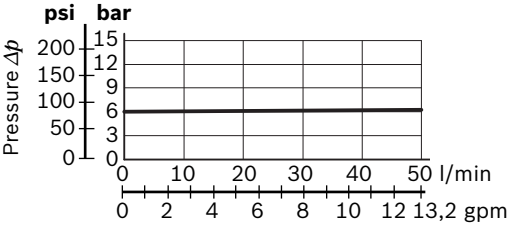
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Symbol

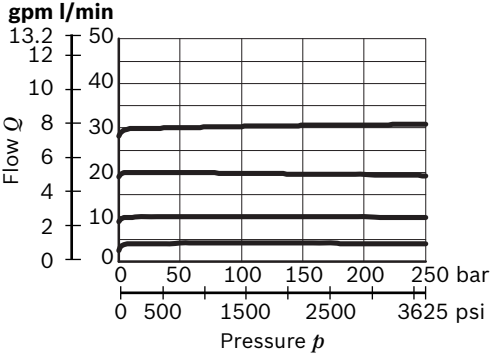


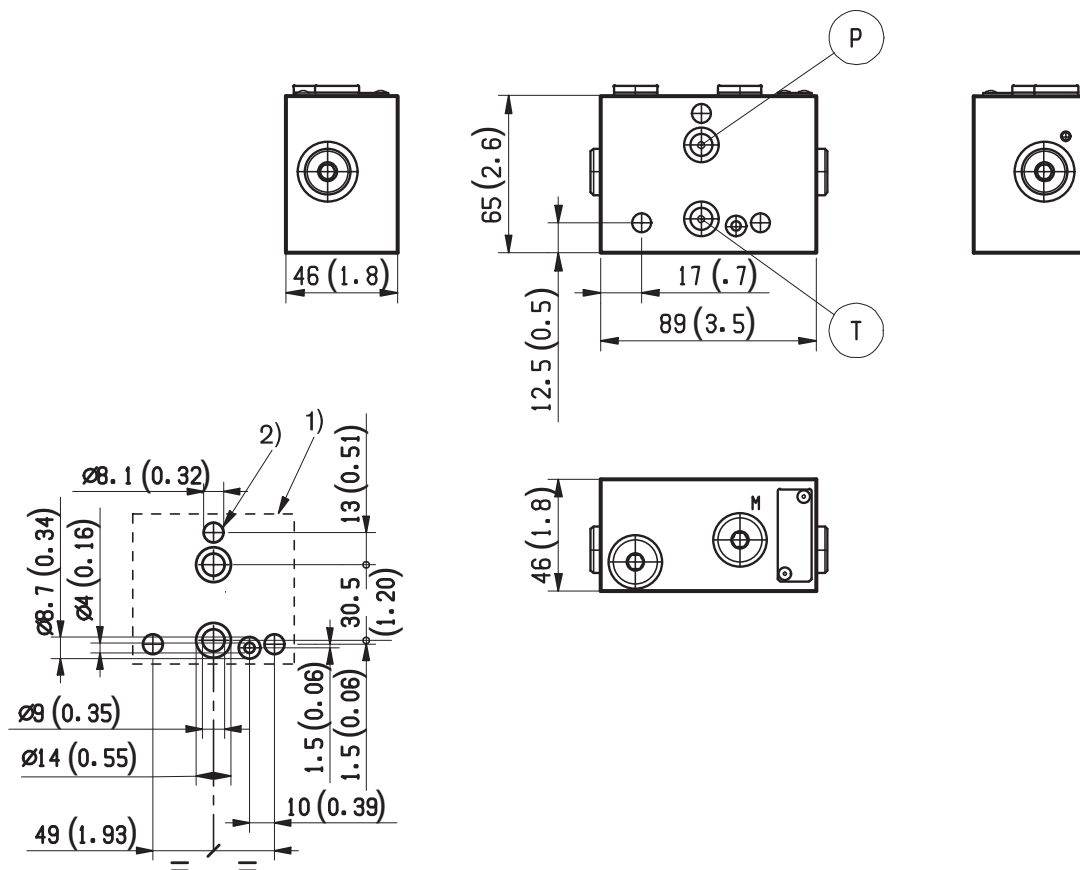
Characteristic curves

Pressure function



Compensated flow curves



External dimensions and fittings

- 1 Flange specifications for coupling to ED intermediate elements.
- 2 For tie rod and tightening torque information see data sheet RE 18301-90.

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