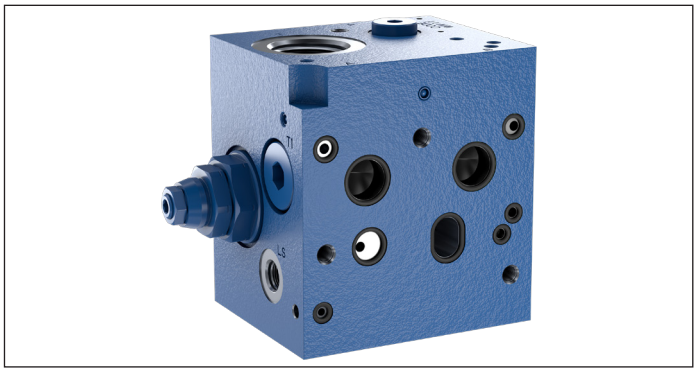
EDH Inlet Elements with LS connections and double pressure relief valve (P and LS line)

TEH-16

RE 18300-19
Edition: 06.2024



Description

The inlet elements TEH-16 are employed to connect the external P,T lines to the P,T channels inside the EDH elements of the Directional Valve Assembly and to connect the LS ports of the elements equipped with LS channels. They incorporate two pressure relief cartridge which limits the maximum primary pressure in the P line and the maximum load pressure in the LS line and unloads to tank any excess flow.
The TEH-16 inlet elements are available with body made of yellow zinc plated (Cr+3) cast iron (CI).

Technical data

General		
Weight	kg (lbs)	6.5 (14.3) With cartridges
Ambient Temperature	°C (°F)	–20....+90 (-4....+194) (NBR seals)
Hydraulic		
Maximum pressure	bar (psi)	350 (5000)
Maximum flow	l/min (gpm)	300 (79.2)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems.		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....+100 (-4....+212) (NBR)
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=12...15 ISO 4406: class 19/17/14 NAS 1638: class 8
Viscosity range	mm^2/s	5....420

Note
For applications with different specifications consult us.

Ordering details

00	01	02	03	04	05	06
TEH	**16**	**01**	**_ _**	**_ _**	**_ _**	**CI**

Family

00	Inlet Elements for EDH Family	**TEH**

Configuration

01	Closed center for variable displacement pump	**16**

Pilot oil supply option [1]

02	With pressure reducing and relieving MHDRDB, without external oil supply	**01**

Ports and connections

03	**P** G 3/4 DIN 3852; **T** G 1 DIN 3852; **T1** 1/2” BSPP; **LS** G 1/4 DIN 3852; **MP** G 1/4 DIN 3852	**01**
	P SAE10; **T** SAE12; **T1** SAE8; **LS** SAE6; **MP** SAE6	**57**

Primary pressure relief valve (P relief VMR2-22-16A)

04	100-420 bar (1450-6091 psi)	**10**
	Plugged	**99**

Secondary pressure relief valve (LS relief VMD1.020) [2]

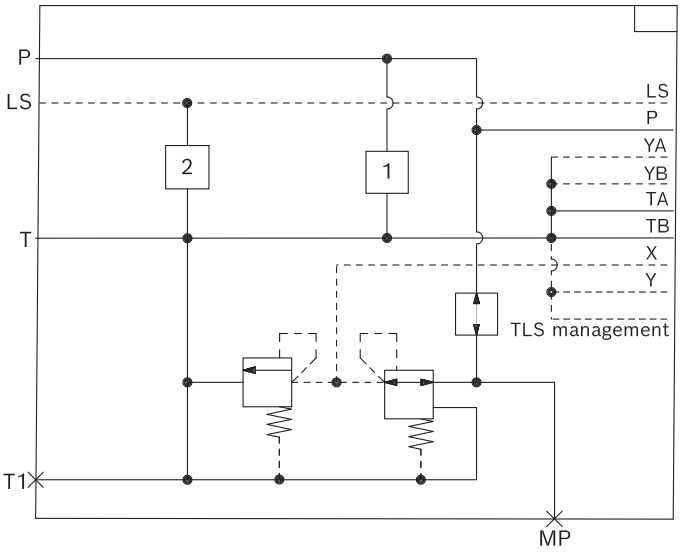
05	25-120 bar (362-1740 psi)	**10**
	40-200 bar (580-2900 psi)	**20**
	200-350 bar (2900-5000 psi)	**35**
	Drilled (not plugged)	**00**
	Plugged	**99**

Material

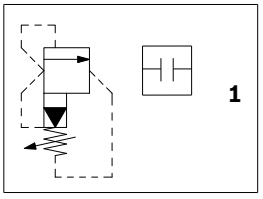
06	Cast Iron	**CI**

1) Pressure reducing valve MHDRDB setting: 35 bar (508 psi) - R900641606
2) With **00** option, also available the possibility to insert VEI cartridge cavity 08 (ordered separately), in place of LS relief valve

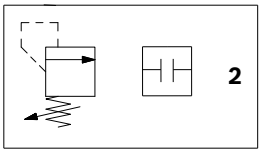
Hydraulic layouts



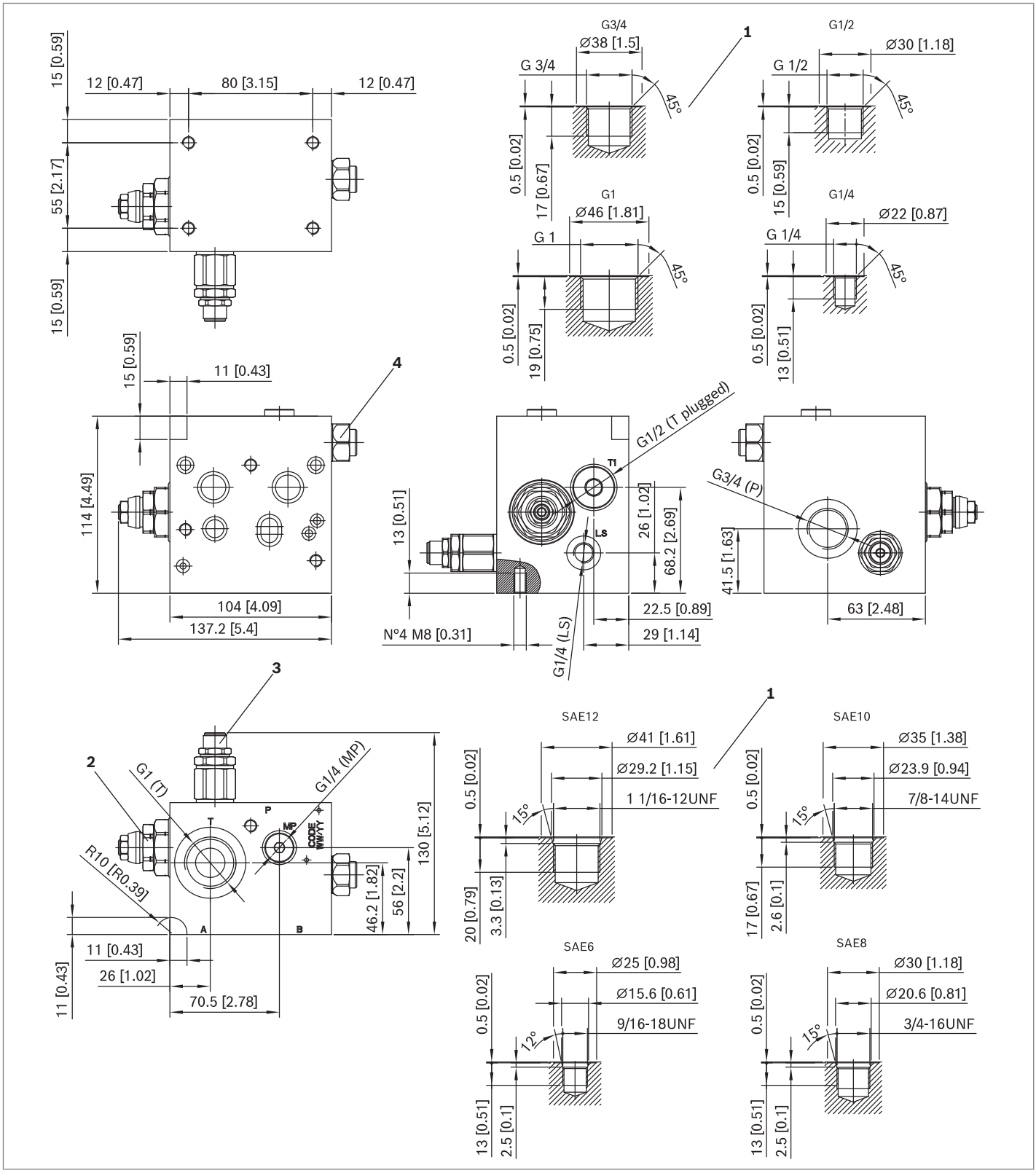
04 - Primary pressure relief valve (P relief)



05 - Secondary pressure relief valve (LS relief)



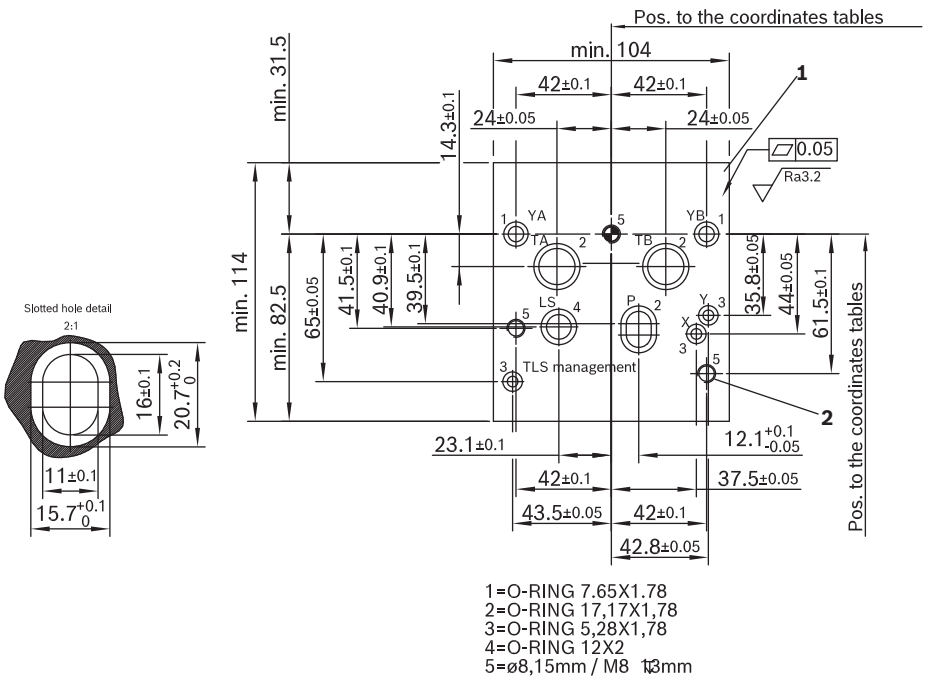
External dimensions and fittings



1 Hydraulic ports detail. For port configuration, please see pag. 2.
2 Primary pressure relief cartridge (P line) VMR2-22-16A (RE18318-41).
3 Secondary pressure relief cartridge (LS line) VMD1.020 with screw type sdjuster.
4 Pressure reducing and relieving valve MHDRDB, (refer to RE 18318-55).

Dimensions: mm [inches]

External dimensions and fittings - Flange



1 Flange specifications for coupling to the EDH Directional Valve Elements

2 Three threaded holes three M8 for coupling of the EDH Directional Valve Elements.

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