

Intermediate Elements for interfacing ED with M4-12

TI-M412-__-__

RE 18301-29

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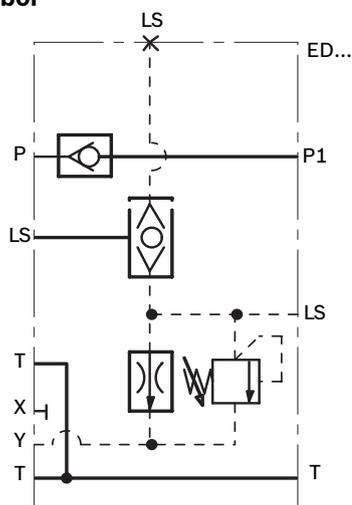
Description

The adaptor elements TI-M412 __ are employed to connect an ED directional valve assembly to a main control valve Rexroth M4-12.

These elements basically consist of body made of Yellow Zinc plated (Cr+3) steel which incorporates the following items:

- ▶ a check valve on the P – P1 line.
- ▶ a shuttle valve on the LS lines.
- ▶ a relief valve on the un the LS line which controls the maximum pressure output from the pump.
- ▶ a pressure compensated orifice which drains to tank the LS pressure by unloading a small regulated flow.

Hydraulic Symbol



Technical data

General		
Weight	kg (lbs)	6 (13.2)
Ambient Temperature	°C (°F)	-20....+50 (-4....+122)
Hydraulic		
Maximum pressure	bar (psi)	310 (4500)
Max. flow at P1		The max. rated flow depends from the directional control element.
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: $\beta_x \geq 75$ $X=10...12$ 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

01	02	03	04	05
TI	-	M412	00	-
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				ST

Family

01	Intermediate Elements	TI
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Configuration

02	Adaptor plate for interfacing ED with Rexroth M4-12	M4-12
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LS port (external)

03	G 1/4	00
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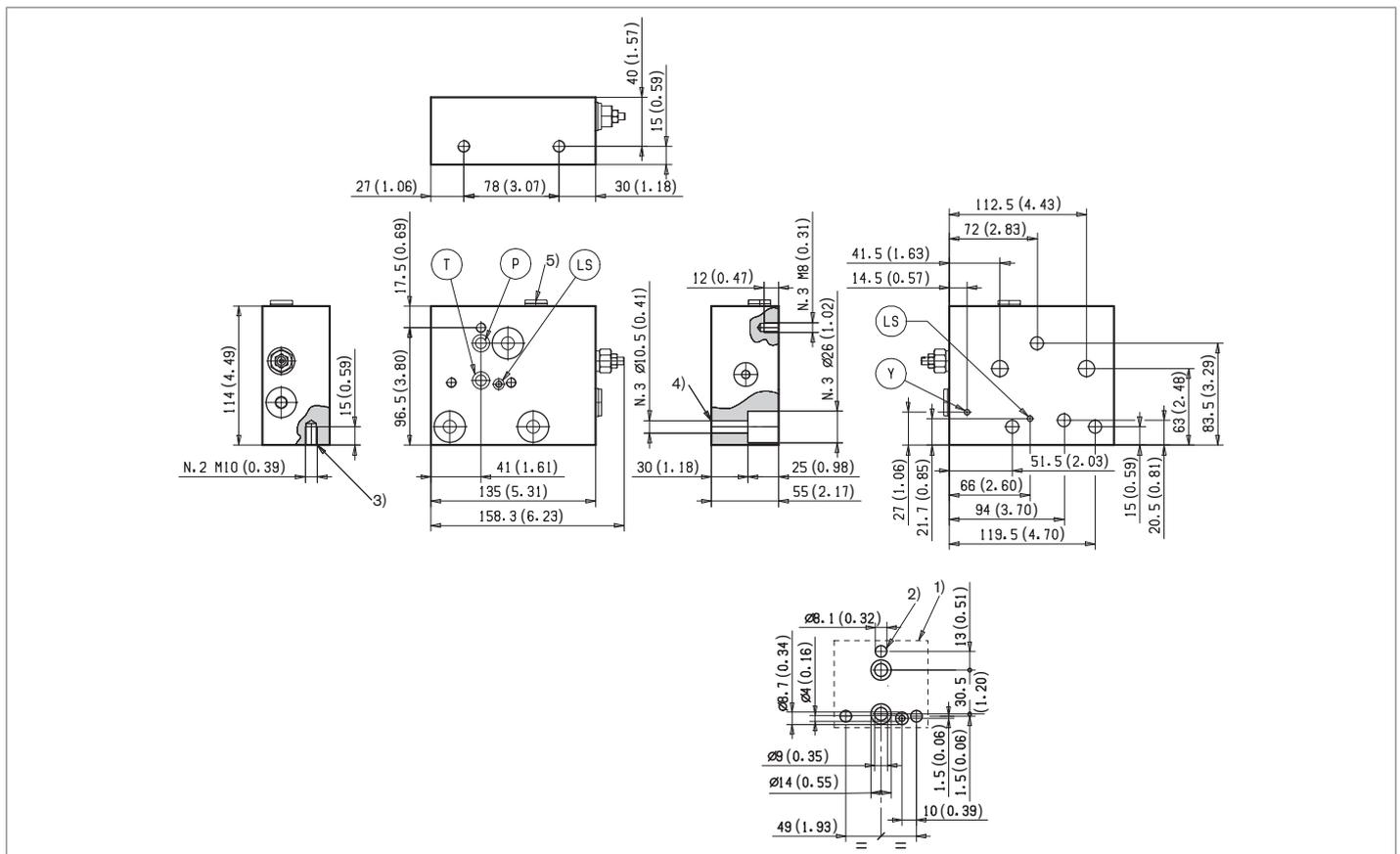
P1 pressure range

04	50-210bar (725-3045 psi)	01
	100-310bar (1450-4500 psi)	02
	25-50bar (362-725 psi)	03

Material

05	Zinc plated steel	ST
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External dimensions and fittings



- 1 Flange specifications for coupling to ED directional valve elements.
- 2 For tie rod and tightening torque information see data sheet RE 18301-90.
- 3 No. 2 threaded holes M10 for fixation.

- 4 No. 3 holes 10.5 mm dia. for assembling M4-12 directional valve elements.
- 5 LS port (locked by a G 1/4 plug).

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Subject to change.