rexroth
A Bosch Company

Intermediate elements with flow regulator on P line

TI-04-__-

RE 18301-27
Edition: 02.2016
Replaces: 06.2015

Description

The intermediate elements TI-04-__- are designed to be fitted between two directional valve elements. Different hydraulic layout can be choice with different ordering codes.
Material: the body is made of black anodized Aluminium (AL), or of yellow Zinc plated (Cr+3) Cast Iron (CI).

Technical data

General			
Weight TI-04-00-AL		kg (lbs)	0.74 (1.63)
Weight TI-04-01-AL		kg (lbs)	0.84 (1.85)
Weight TI-04-02-AL-..-..		kg (lbs)	1.08 (2.38)
Weight TI-04-00-CI		kg (lbs)	1.10 (2.42)
Weight TI-04-03-CI		kg (lbs)	1.33 (2.93)
Ambient Temperature	°C (°F)	–20....+50 (-4....+122) (NBR seals)	
Hydraulic			
Maximum inlet flow	l/min (gpm)	50 (13.2)	
Maximum pressure TI-Aluminium	bar (psi)	250 (3625)	
Maximum pressure TI-Cast Iron	bar (psi)	310 (4495)	
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	

Note
For applications with different specifications consult us

Ordering details

▼ **TI0401AL (with mechanical cartrige valve, not pressure compensated)**

01				02		03
TI	**-**	**04**	**-**		**-**	**AL**

Family

01	Intermediate Elements	**TI**

Configuration

02	without cartridge valve	**00**
	with mechanical cartridge valve, not pressure compensated 0-40l/min (0-10.57gpm)	**01**

Material and Cavity

03	Alluminium CA08A2N	**AL**

▼

▼ **TI0402AL (with on off electrical cartridge valve, normally closed)**

01				02		03		04		05
TI	**-**	**04**	**-**		**-**	**AL**	**-**		**-**	

Family

01	Intermediate Elements	**TI**

Configuration

02	without cartridge valve	**00**
	with electrical cartridge valve, normally closed 0-40l/min (0-10.57gpm)	**A2**

Material and Cavity

03	Alluminium CA08A2N	**AL**

Cartridge voltage supply

04	No cartdrige (omit)	**_ _**
	12V DC	**OB**
	24V DC	**OC**

Electric connections

05	No cartdrige (omit)	**_ _**
	With coils, without mating connector DIN EN 175301-803	**01**
	With coils, with bi-directional diode, without mating connector vertical Amp-Junior	**03**
	With coils, without mating mating connector DT04-2P	**07**

▼

▼ **TI0403CI (with mechanical cartrige valve, pressure compensater)**

01				02		03
TI	**-**	**04**	**-**		**-**	**CI**

Family

01	Intermediate Elements	**TI**

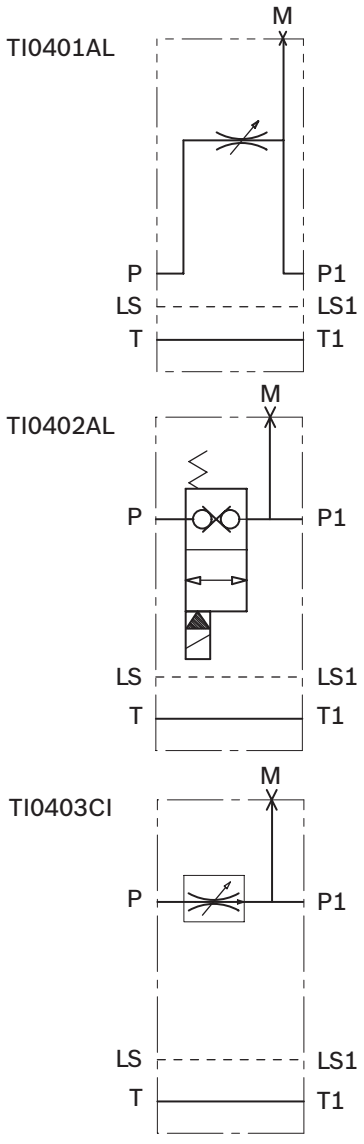
Configuration

02	without cartridge valve	**00**
	with mechanical cartrige valve, pressure compensated 0.2-30l/min (0.05-7.92gpm)	**03**

Material and Cavity

03	Cast Iron CA08A2N	**CI**

▼ **Symbols**



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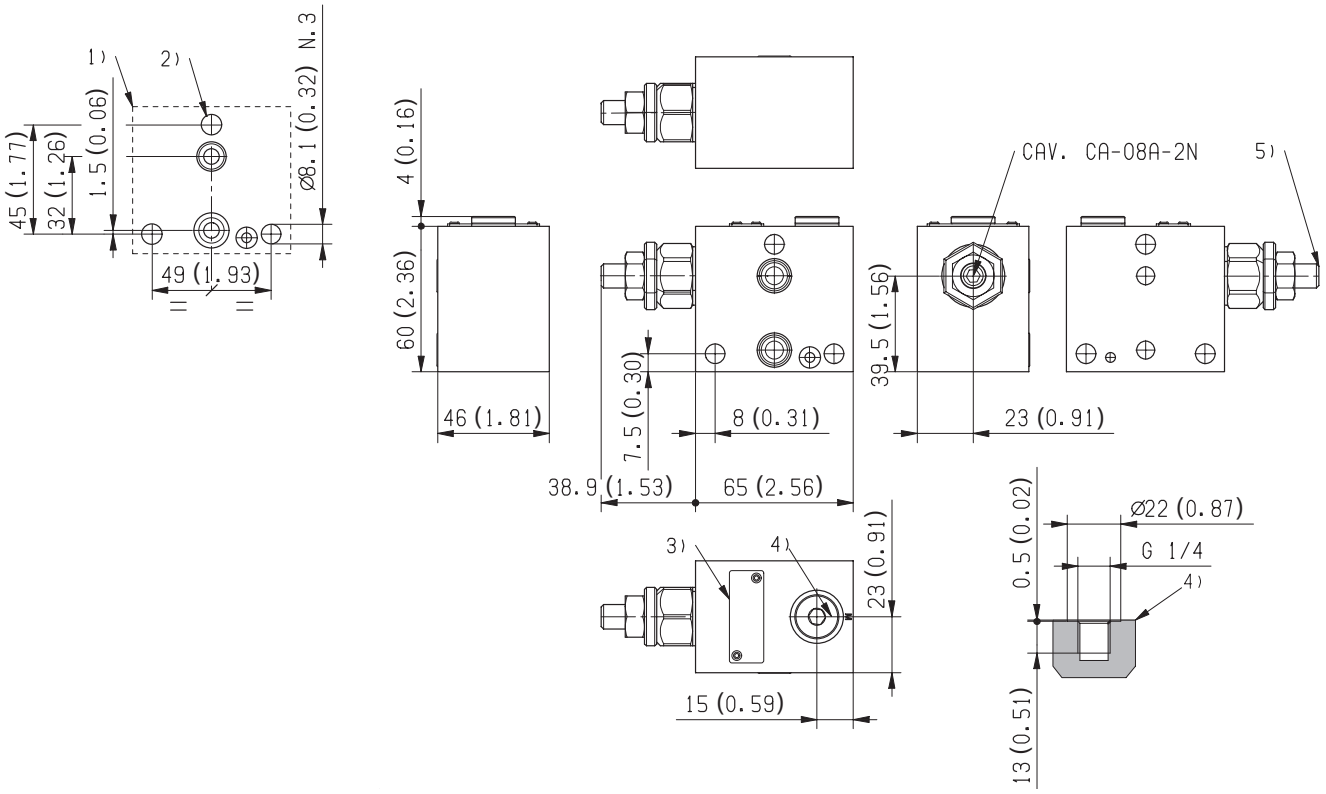
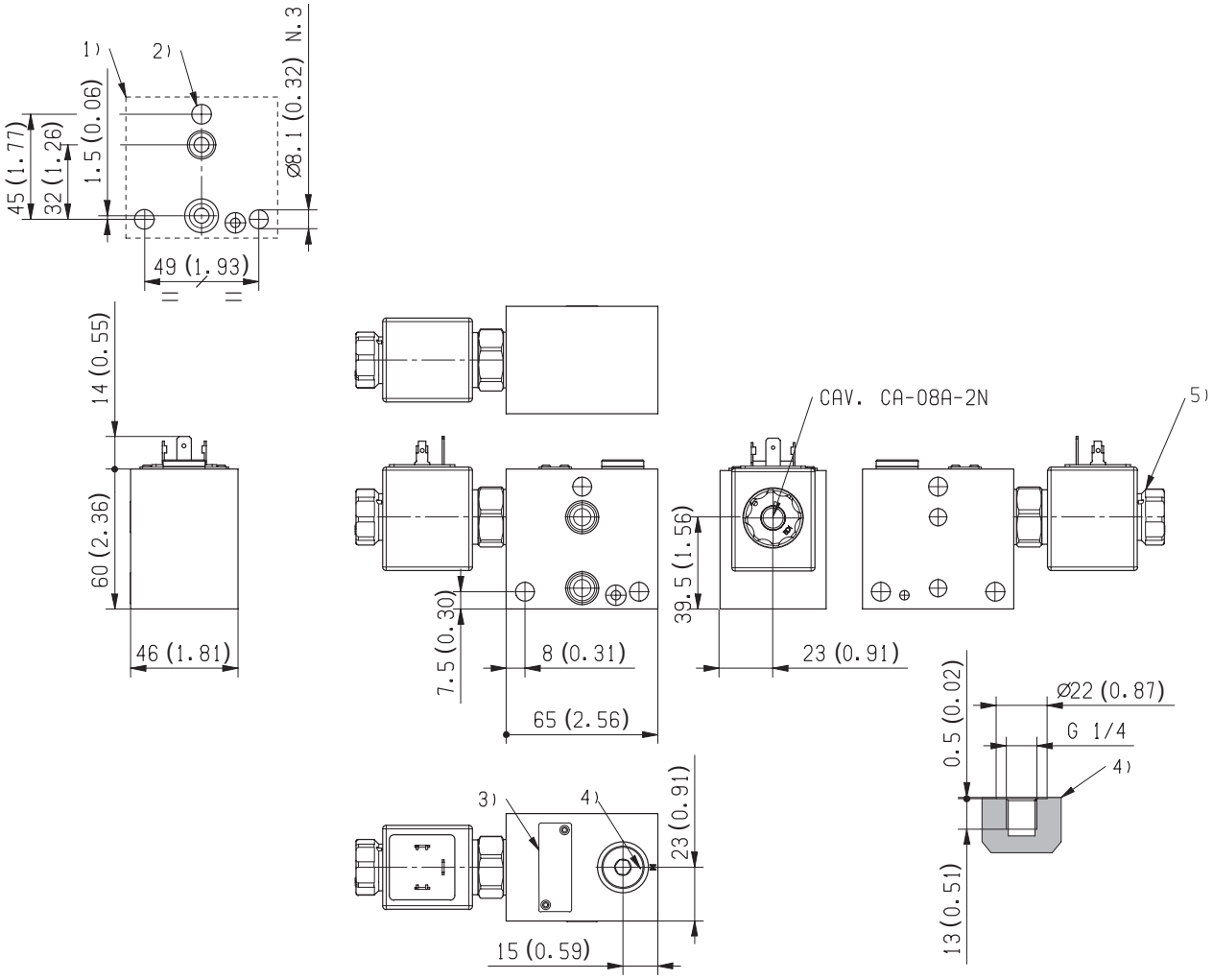
External dimensions and fittings

▼ **TI0401AL (with mechanical cartrige valve, not pressure compensated)**



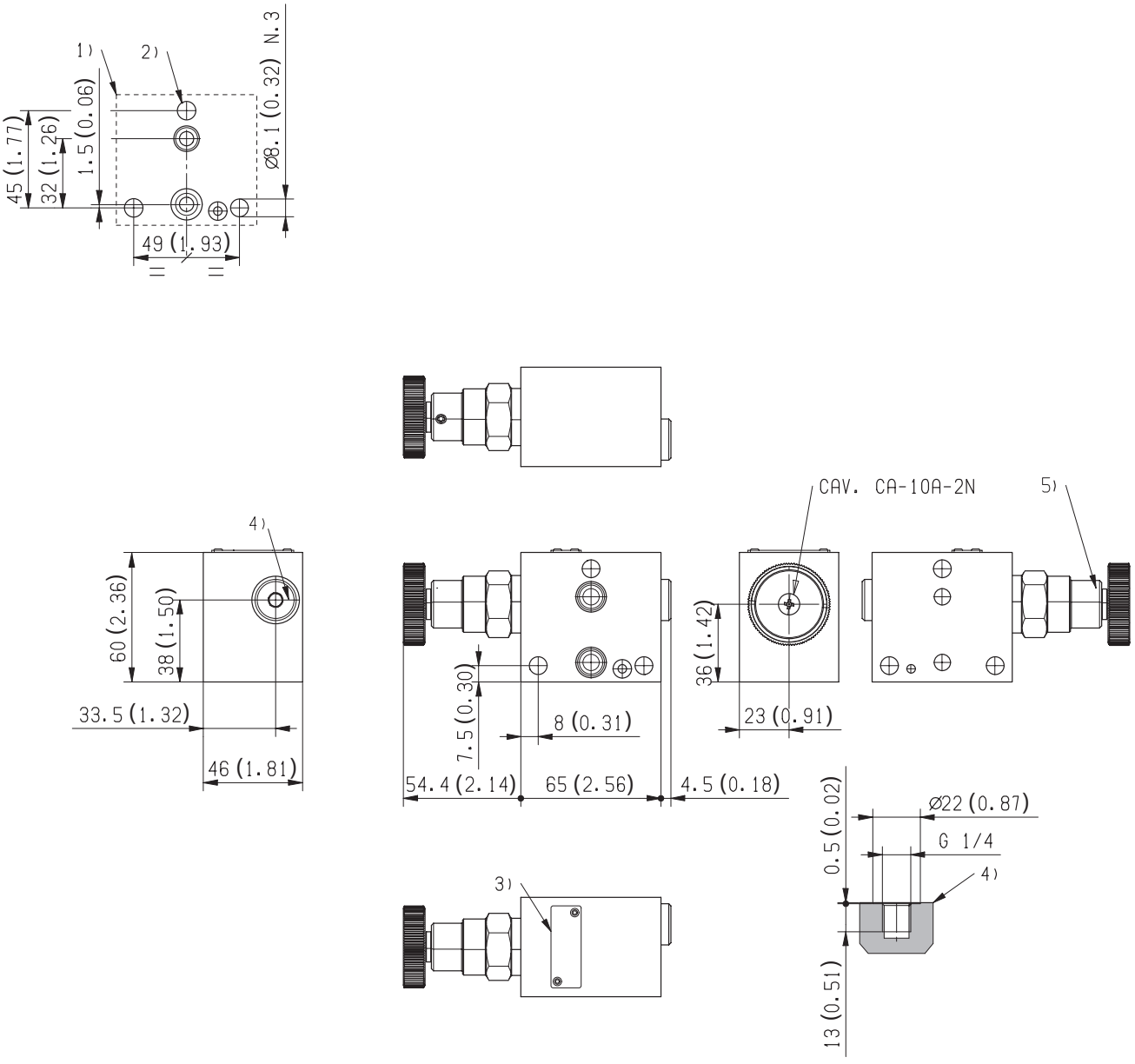
1 Flange specifications for coupling to ED intermediate elements.
2 For tie rod and tightening torque information see data sheet RE 18301-90.
3 Identification label.
4 Test point M(G 1/4) for pressure gauge connection.
5 Flow regulator cartridge ST-C-06.

▼ **TI0402AL (with on off eletrical cartridge valve, normally closed)**



1 Flange specifications for coupling to ED intermediate elements.
2 For tie rod and tightening torque information see data sheet RE 18301-90.
3 Identification label.
4 Test point M(G 1/4) for pressure gauge connection.
5 Electrical valve 40 l/min (10,57 gpm).

▼ **TI0403CI (with mechanical cartrige valve, pressure compensater)**



1 Flange specifications for coupling to ED intermediate elements.
2 For tie rod and tightening torque information see data sheet RE 18301-90.
3 Identification label.
4 Test point M(G 1/4) for pressure gauge connection.
5 Regulated flow range 0.2÷30 l/min (0.05÷7,92 gpm).

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