Inlet Elements with limitation of primary pressure, LS compensated flow control and solenoid operated unloading

TE-07-__-



Q							
General							
TE-07	kg (lbs)	1.80 (3.98)					
Ambient Temperature	°C (°F)	-20+50 (-4+122)					
		(NBR seals)					
Hydraulic							
Maximum pressure	bar (psi)	250 (3625)					
Maximum inlet flow	l/min (gpm)	90 (23.8)					
Rated flow at P1	l/min (gpm)	0-30 (0-7.9)					
Hydraulic fluid	Mineral oil based hydraulic						
General properties: it mu	fluids HL (DIN 51524 part 1).						
physical lubricating and c	Mineral oil based hydraulic						
properties suitable for us	fluids HLP (DIN 51524 part 2).						
hydraulic systems such as	For use of environmentally						
example:	acceptable fluids						
		(vegetable or polyglycol					
		base) please consult us.					
Fluid Temperature	°C (°F)	-20+80 (-4+176) (NBR)					
Permissible degree of		ISO 4572: β _x ≥75 X=1012					
fluid contamination		ISO 4406: class 19/17/14					
		NAS 1638: class 8					
Viscosity range	mm²/s	5420					

Note

For applications with different specifications consult us

Description

The inlet elements TE-07-__ 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. The main functions are: to provide LS controlled pressure compensated flow to the Directional Valve Elements, to limit the primary pressure in the P channels and to unload to Tank the inlet flow when all hydraulic operations must be inhibited, by de-energizing the VEI solenoid operated cartridge. They are available in two versions: TE-07-01-03-... suitable for fixed displacement pumps, and TE-07-02-03-... for variable displacement pumps. The TE-07-__ inlet elements are manufactured with body made of Black Anodized Aluminium (AL). Port sizes are G 1/2, with LS and M test points G1/4. NOTE: the mechanical locking of the 3-way pressure compensator can be supplied upon request.



RE 18300-07 Edition: 02.2016

Replaces: 07.2012

Ordering details

0.1		00		0.4		05		00		07		~~		~~		10
01 TE	02 - 07 -	03	.	04		05	<u> </u>	06		07		08 	1	09		10
TE	- 07 -		•	03	•		•		•		•		•		•	
Fami	ly															
01	Inlet Elements						Т	Е								
Conf	iguration	1														
02	with lim												atec	I	6	7
	flow co	ntrol	and	l sole	end	oid (ope	rate	d ur	nloa	ding	3			Ľ	
	ication S															
03	For open center or open/closed center						0	1								
	For closed center						0	2								
Ports	5															
04	G 1/2 DIN 3852							0	3							
Press	sure Reli	ef ra	nge													
05	50-210bar (725-3046 psi)							0	1							
	100-250						si)								0	2
Rest	1					·	-									
06	rictor adjustment Flow restrictor with screw type adjustment							s								
	Flow restrictor with hand-knob adjustment															
2	l															
3-wa 07	y comper Without		-		bla	ocki	ng									0
07	With me						<u> </u>									1
Carte	ridge volt				CK	ng	-									1
08	No cart	-		ріу												0
08	NO Cart	nuge	-													de
	Cartrid	ge w	itho	ut co	oil										0	0
	12V DC														0	в
	24V DC														0	с
	26V DC														A	С
Elect	ric conn	ectio	ons													
09	No cart	ridge	9												N	o
															co	de
	Without	t coil	S												0	0
	With co					ing	con	nec	tor						0	1
	DIN EN															
With coils, with bi-directional diode connector vertical Amp-Junior			e, v	vith	out	mat	ting		0	3						
	With coils, with bi-directional diode, without mating							-								
	connect				ec		ial C	noue	, w	TUTC	ut	ndl	шg		0	7
Optio	1	_													L	
10	No cart	ridge	9												N	o
-•																de
	Standar	d													0	0
	Duch-h	Push-button type manual override											р			

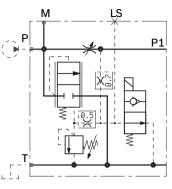
10	No cartridge	No
		code
	Standard	00
	Push-button type manual override	OP
	Push and twist type manual override	SG

1) Necessary for open/closed center configuration.

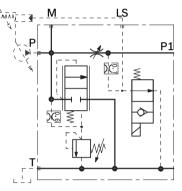
2) For connectors ordering code see data sheet RE 18325-90.

Symbol

TE-07-01-03 Open center, Open/Closed center



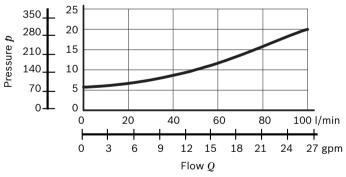
TE-07-02-03 Closed center



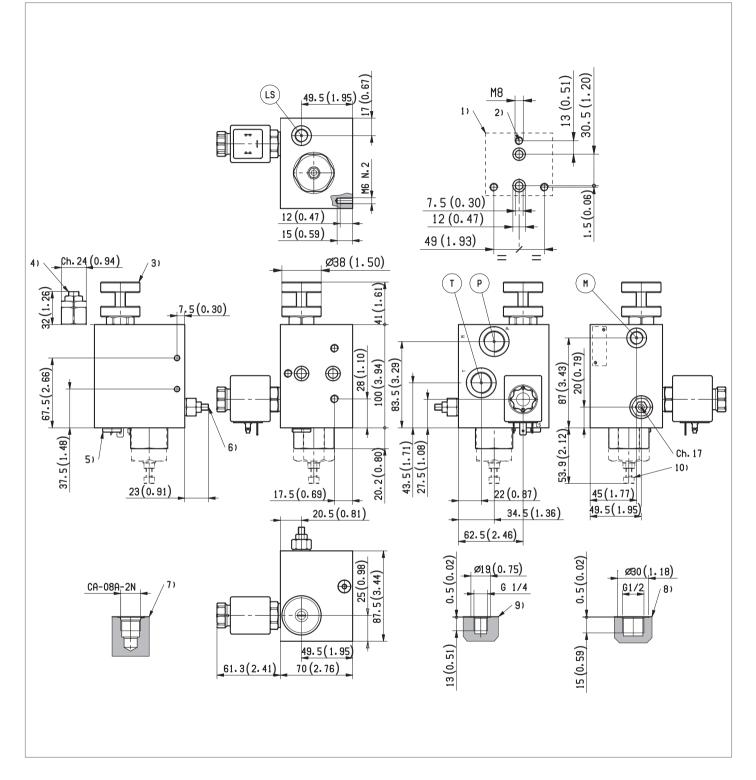
Characteristic curves

Pressure drop through compensator

psi bar



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** Flow restrictor with hand-knob adjustment.
- 4 Flow restrictor with screw type adjustment.
- **5** Plug G 1/4 for version TE-07-01-03-...

- 6 Pressure relief cartridge VS-5-C.
- 7 Cavity for Solenoid Cartridge, VEI type.
- 8 Hydraulic Ports P-T G 1/2.
- ${\bf 9}~~$ G 1/4 ports for pressure gauge connection and LS signal.
- **10** Overall dimension, including compensator,

for TE-07-__-03-__-_01.

4 TE-07-_- | Inlet Elements

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Subject to change.