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Inlet Elements with by-pass compensator, LS relief for open/closed center control block and solenoid operated unloading RE 18300-16

TEG-13- -



Description

The inlet elements TEG-13 are employed to connect the external P, T lines to the P, T channels inside the EDG elements of the Directional Valve Assembly and to connect the LS line for inlet flow control. For Open Center configurations, an LS controlled 3-way compensator provides pressure compensated flow to the EDG elements of the Directional Valve Assembly, any excess flow is bypassed to tank at LS pressure plus compensator spring bias. For Closed Center configurations, the inlet compensator is used as piloting stage for main relief valve. When the EDG elements are in neutral position, the compensator bypasses the entire flow to tank at a bypass pressure equal to the compensator spring bias (Open Center configuration). The TEG-13 can be equipped with a NO or NC Solenoid Unloading VEI Cartridge, which can be employed to unloads to tank the LS signal. When activated the entire flow is bypassed to tank at compensator bias spring pressure.

The TEG-13... is made of zinc plated cast iron. The D36 coil must be ordered separately (refer to RE18325-90).

Technical data

General		
	l (II)	2.0 (7.0)
TEG13	kg (lbs)	3.6 (7.9)
Ambient Temperature	°C (°F)	-20+90 (-4+194)
		(NBR seals)
Hydraulic		
Maximum pressure	bar (psi)	350 (5076)
Maximum inlet flow for	l/min (gpm)	33 (8.7)
TEG-133 version		
Maximum inlet flow for	l/min (gpm)	50 (13.2)
TEG-135 version		
Maximum inlet flow for	l/min (gpm)	80 (21.1)
TEG-138 version		
Maximum inlet flow for	l/min (gpm)	120 (31.7)
TEG-130 version		
Hydraulic fluid		Mineral oil based hydraulic
General properties: it mu	ıst have	fluids HL (DIN 51524 part 1).
physical lubricating and o	chemical	Mineral oil based hydraulic
properties suitable for us	se in	fluids HLP (DIN 51524 part 2).
hydraulic.		For use of environmentally
		acceptable fluids
		(vegetable or polyglycol
		base) please consult us.
Fluid Temperature	°C (°F)	-20+100 (-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

Ordering details

г	TEG	02	1	03	04	05	06	07	08	09	10		12		'	15
- 1	TEG	- 12	l /	1 2	l n	1-1	1-1	1-1	1-1	1-1 12	l <u>-</u> l	1-1	1 1	- I		I-I CI

Fami	v	
01	Inlet Elements	TEG
Conf	iguration	
02	Function for fixed or variable displacement pump	
	(open/closed centre)	13
Flang	ge configuration option	
03	EDG flange 2	2
Pilot	oil supply option	
04	No pilot oil supply option	0
Ports		
05	P 1/2" BSPP; T 3/4" BSPP; LS 1/4/" BSPP	01
	P 1/2" BSPP; T 1/2" BSPP; LS 1/4/" BSPP	02
	P 3/8" BSPP; T 3/8" BSPP; Ls 1/4/" BSPP	03
	P (SAE10), T(SAE12), LS (SAE6)	04
Syste	em configuration option	
06	Open Center	ос
	Closed Center	СС
Dual	Stage Compensator Option	
07	Plugged, no option	99
Spoo	compensator size	
08	Maximum inlet flow 33 l/min	3
	Maximum inlet flow 50 l/min	5
	Maximum inlet flow 80 l/min	8
	Maximum inlet flow 120 l/min	0
Com	pensator cracking pressure	
09	12 bar (174 psi)	12
LS re	lief valve pressure setting	
10	35-140 bar (500-2000 psi)	1
	105-210 bar (1500-3000 psi)	2
	175-350 bar (2500-5000 psi)	3
<u> </u>	Plugged	P
	e unloading valve option	
11	Without valve (ordered separately)	00
	Standard VEI normally open, single check*	A_
	Standard VEI normally open, double check*	B_
	Standard VEI normally closed, single check*	
	Standard VEI normally closed, without override, double check*	D_
	Plugged	PP
* for A	-B-C-D selection, please select also Override Option (12).	
I C lir	o unloading valve ention - Override Ontion	

Unloading valve coil electric connector type

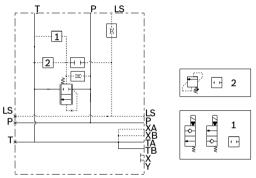
.4	Without coil	00
	With coil, without mating connector DIN EN 175301-803	01
	With coil, with bi-directional diode, without mating connector vertical Amp-Junior	03
	With coils, with bi-directional diode, without mating connector DT04-2P	07

Material

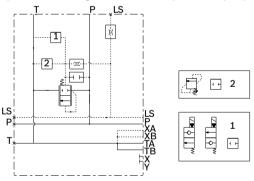
15 Cast Iron	CI
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Symbol

Closed Center Configuration (Varible displacement pump)



Open Center Configuration (Fixed displacement pump)



S line unloading valve option - Override Option

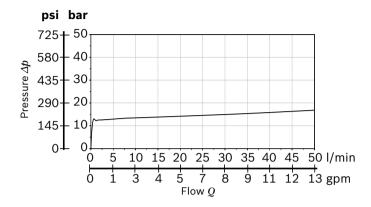
	c unicuaning tarte option	
12	Standard	_A
	Push style manual override	_B
	Push and twist style manual override	С

Unloading valve coil voltage option

13	Without coil	00
	12 Vdc	ОВ
	24 Vdc	ос

Characteristic curves

DeltaP main compensator

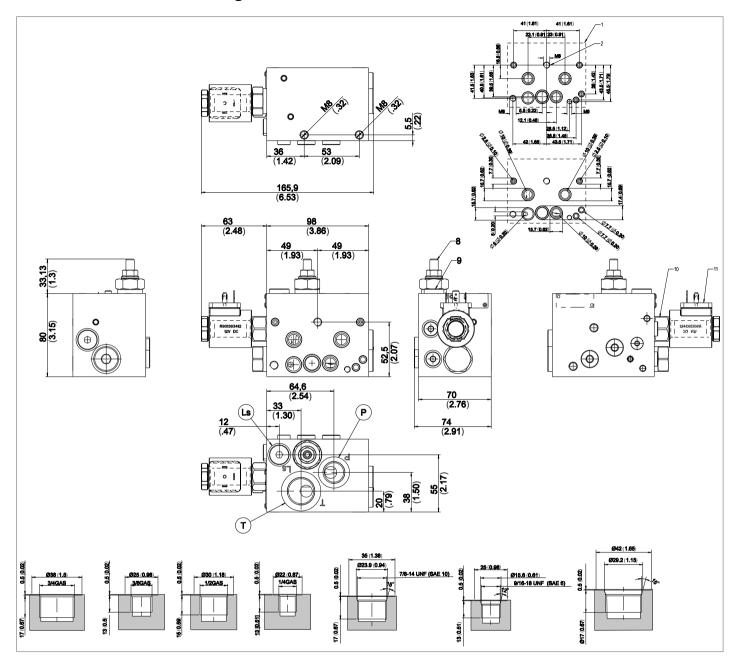


Model	Curve no.
TEG-13/50 l/min@12bar compensator version	*

^{*} for other inlet compensator spool sizes diagrams, please contact factory

Measured with hydraulic fluid ISO-VG32 at 45° ±5 °C (113° ±9 °F); ambient temperature 20 °C (68 °F).

External dimensions and fittings



- 1 Flange specifications for coupling to the EDG Directional Valve Elements.
- 2 Tie rod holes.
- **3** For P,T and LS port size and configuration, please see page 2.
- 4 Pressure relief cartridge VSBN-08A datasheet RE18318-04.
- **5** Solenoid Unloading cartridge VEI-16-08A-NA or VEI-16-08A-NC type datasheet 18323-26 or 18323-25.
- 6 Solenoid Unloading cartridge coil D36 RE18325-90.

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Subject to change.