POST COMPENSATED FLOW SHARING VALVE HIGH EFFICIENCY ENERGY SAVING

Connector to be ordered separately, see page 105.

High efficiency energy saving valve FLOW SHARING

- High efficiency energy saving valve
- Compact dimensions
- Venting valves can be adopted to de-pilot pressure compensators on port A and/or B
- Valve's body with the same interface of all bankable valves range, so can be assembled with all existings valves, precompensated (CXDH3) included
- Cast iron zinc plated body.

ORDERING CODE

CFS	FLOW SHARING valve
3	Size
*	Mounting (see table 1)
*	Body type: **A** = Ports G3/8" parallel **P** = Ports G1/2" parallel **Q** = Ports SAE8 3/4"-16UNF parallel **G**= Interface for modular valves
**	Spool type (*1*) **03** = 
N	Symmetrical flow path control
*	Nominal flow rating

*	Δp 14 bar from P to A,B
1	8 l/min
2	16 l/min
3	25 l/min
4	40 l/min
5 (*5*)	55 l/min

*	Max. current at solenoid (*2*): **E** = 2.35 A (9 Vdc) - Special coil **F** = 1.76 A (12 Vdc) **G** = 0.88 A (24 Vdc)
**	Variants (*3*): **S1** = No variant **LF/LV** = Emergency control lever (*4*) For body type G order LR variant (emergency lever 180° rotated) **SV** = Viton **ES** = Emergency button (*4*) **P2**= Rotary emergency (*4*) **R5** = Rotary emergency 180° (*4*) **AJ** = AMP Junior coil (see page 111) **CZ** = Deutsch DT04-2P coil (see page 111)
1	Serial No.

Calibrated diaphragms on P line, see page 104.

(*1*) Available spool 01  A and B ports are not sealed.
(*2*) Coils technical data, see page 111
Voltage codes are not stamped on the plate, their are readable on the coils
(*3*) Connector to be ordered separately, see page 105; Other variants available on request.
(*4*) Emergency see page77
(*5*) Only for emergency lever
(*6*) With FH35PQ you can set a Δp variable (from LS and P); with FEH30PQ the Δp is fixed at 13 bar

FEATURES

Max. operating pressure	310 bar
Max. operating pressure ports T (Pressure dynamic allowed for 2 millions of cycles)	250 bar
Regulated flow rate (A / B ports) (*6*)	up to 55 l/min (Δp 14 bar) up a 60 l/min (Δp 18 bar)
Relative duty cycle	Continuous 100% ED
Type of protection (Hirschmann coil)	IP 65
Fluid viscosity	10 ÷ 500 mm²/s
Fluid temperature	-20°C ÷ 75° C
Ambient temperature	-20°C ÷ 60°C
Max. contamination level (filter $ß_{10} \geq 75$)	ISO 4406:1999: class 19/17/14 NAS 1638: class 8
Weight with single solenoid Weight with double solenoid	3.70 kg 4.20 kg

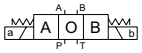
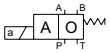
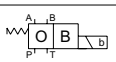
Solenoid	**@ 9Vdc**	**@ 12Vdc**	**@ 24Vdc**
Current supply	PWM (pulse width modulation)		
Max. current solenoid	2.35 A	1.76 A	0.88 A
Solenoid coil resistance at 25°C (77°F)	2.25 Ohm	4.0 Ohm	16.0 Ohm
PWM or superimposed dither frequency	100 ÷ 150 Hz		
Response time 0 ÷ 100% 100% ÷ 0	 32 ms 33 ms	 40 ms 33 ms	 85 ms 33 ms
Frequency response -3db (input signal 50% ±25% Vmax)	22 Hz	22 Hz	12 Hz

Operating specifications are valid for fluid with 46 mm²/s viscosity at 40°C, using the specified Dana Brevini electronic control units. (input voltage = 24V).

Accessories

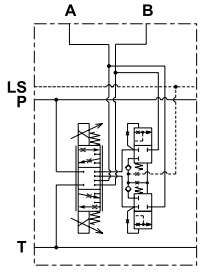
REM.S.RA.*.*. REM.D.RA.*.*.	Card type control for single and double solenoid
CEP.S...	Electronic amplifier plug version for signle solenoid
MAV	Electronic module for integrate control of proportional valves and ON/OFF
JMPEI0M700101	Joystick with standard handle
JMPIU0M700138	Joystick Person present handle
Modular valves	CM3P (page 95) and CM3M (page 97)

Tab.1 - Mounting

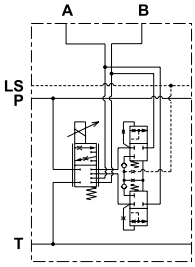
Code	Symbol
C	
A	
B	

HYDRAULIC SYMBOLS

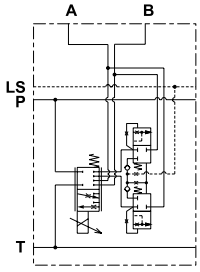
Spool 01 mounting C-A-B



CFS3C.01 ..

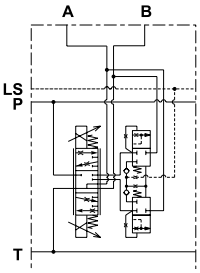


CFS3A.01 ..



CFS3B.01 ..

Spool 03 mounting C-A-B



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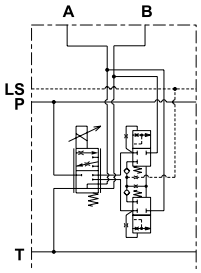

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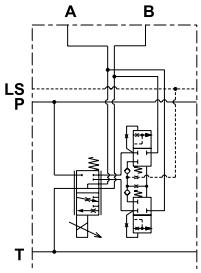
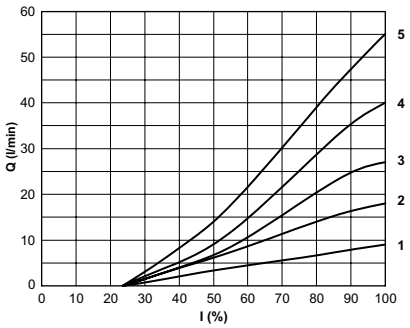


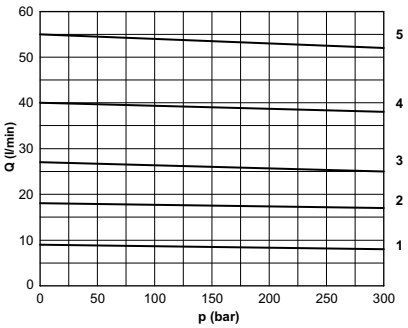
CFS3B.03 ..

CHARACTERISTIC CURVES

Q-I curves with Δp 14bar



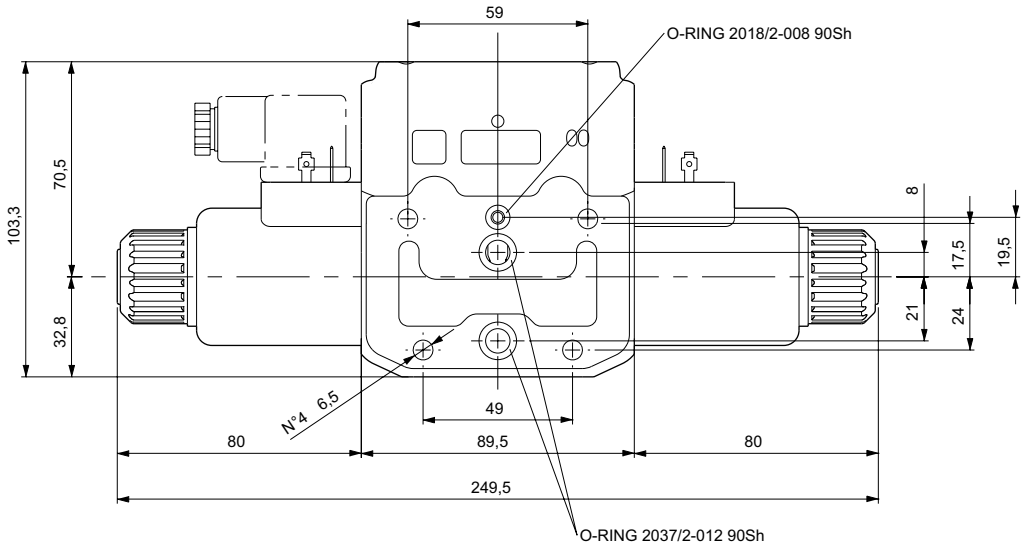
Compensation curves

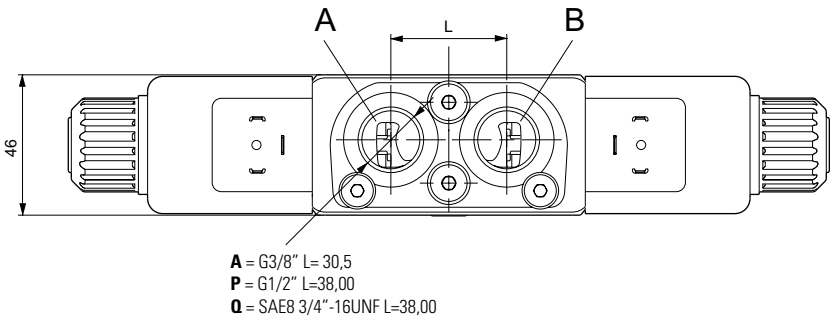


Curves	Flow
1	8 l/min
2	16 l/min
3	25 l/min
4	40 l/min
5	55 l/min

OVERALL DIMENSIONS

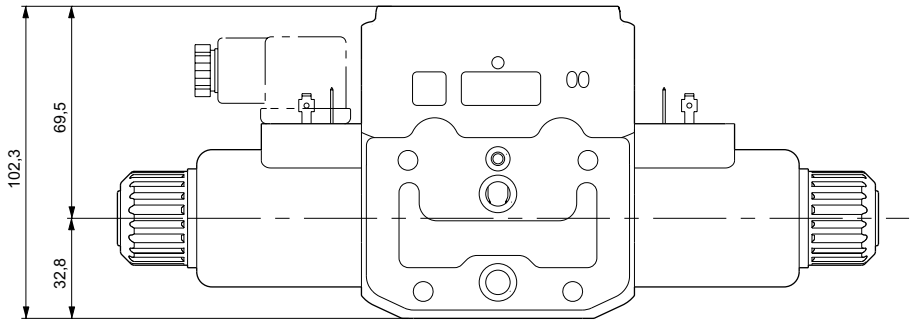
Body
A = Ports G3/8" parallel
P = Ports G1/2" parallel
Q = Ports SAE8 3/4"-16UNF parallel

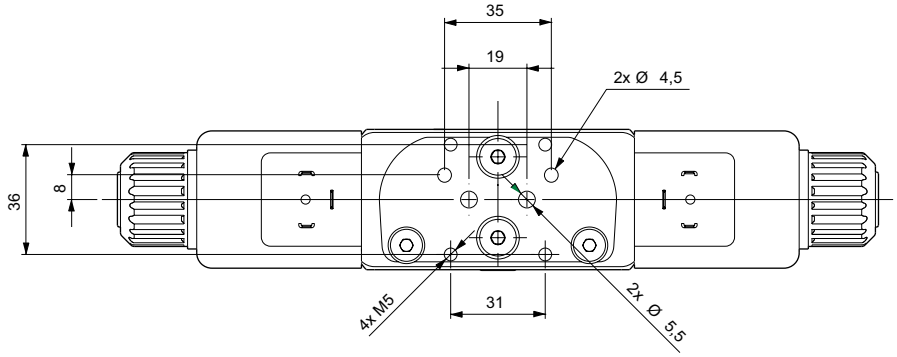




A = G3/8" L= 30,5
P = G1/2" L=38,00
Q = SAE8 3/4"-16UNF L=38,00

Body type G
Interface for modular valves





Fittings, max. tightening torque 60 Nm