Nominal flow ratings 60, 80 l/min at 70 bar p

Hysteresis < 4% without dither

Threshold < 1% without dither

Null bias < 2%

Null shift

with 40°C temp change < 2% with 70 bar supply pressure change with return pressure 0 to 35 bar < 2%

Pressure gain < 1% rated input signal for 60% of supply pressure

Seal materials available FPM, NBR, EPDM

Operating temperature range -30 °C to 130 °C

Proof pressure

at pressure port 150% max supply pressure at return port 100% max supply pressure

Burst pressure

return port open 250% max supply pressure

External leakage zero

Degree of protection IP 65 (BS EN 60529: 1992)

Weight 0.8 kg

Mounting position Any, fixed or movable

Supply filtration

minimum $_{10}$ 75 (10 micron abs) recommended $_{5}$ = 200 (5 micron abs)

Fluid cleanliness level

minimum ISO 4406 - 16/13 NAS 1638 - class 7 recommended ISO 4406 - 13/10 NAS 1638 - class 4

Supply pressure

min. to effect spool movement 3.5 bar minimum recommended 15 bar

maximum continuous 210 bar (FPM) 315 bar (NBR)

Viscocity VG 10 to 100 ISO 3448

Fluid type Petroleum based mineral oils

For operation with other media contact factory

Calculating output flow

The output flow for a given pressure drop can be calculated using the following:

$$q = q_N \sqrt{\frac{p_N}{p_V}}$$

Where:

q = Output flow [I/min]

 q_{N} = Rated flow [l/min]

 p_N = Valve pressure drop [bar]

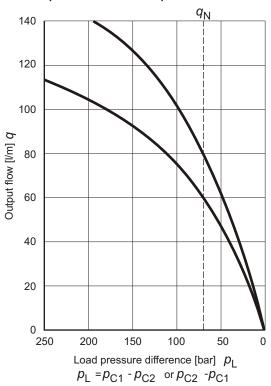
 p_V = Rated valve pressure drop [bar]

Internal leakage

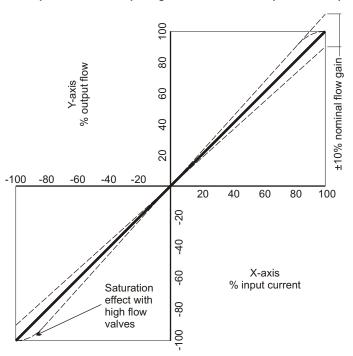
This comprises of both pilot stage flow (tare leakage) and the second stage null leakage, typical values for this size of valve would be:

Rated flow	Internal leakage at 140 bar	
60 l/min	< 2 l/min	
80 l/min	< 2 l/min	

Output flow versus load pressure difference



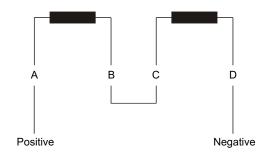
Output flow versus input signal at constant valve pressure drop

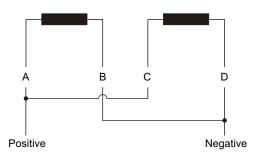


The flow tolerance for standard servovalves is ±10% of the nominal rated flow at ±100% input signal.

The rated flow is quoted at 70 bar p and 100% rated input signal.

Coil schematics





Series connection

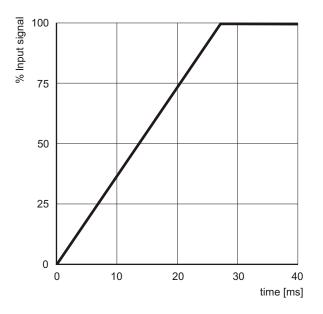
Parallel connection

Output flow polarity
Flow in the direction of P→C2, C1→R will occur with the pilot stage coils configured as above.

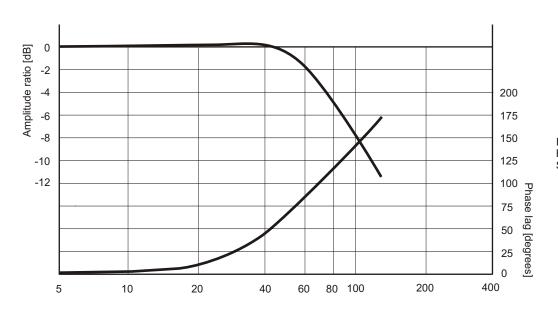
Coil options

Coil specification		Series connection		Parallel connection	
Rated signal [mA]	Resistance per coil []	Input current [mA]	Effective resistance []	Input current [mA]	Effective resistance []
10	1000	5	2000	10	500
15	200	7.5	400	15	100
20	1200	10	2400	20	600
30	300	15	600	30	150
30	800	15	1600	30	400
40	80	20	160	40	40
60	40	30	80	60	20
80	22	40	44	80	11
100	27	50	54	100	13.5
200	22	100	44	200	11

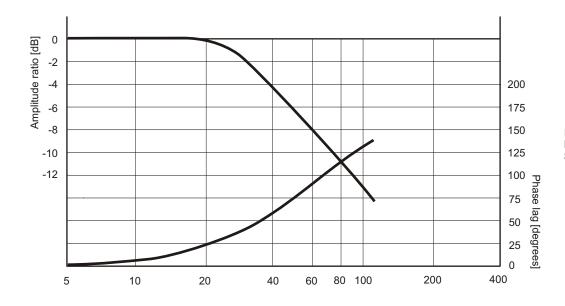
Electrical connectionStandard connector is MS3102E-14S-2P (MIL-C-5015). Please contact factory for more options.



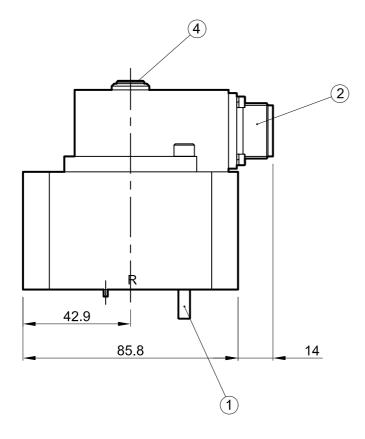
Rated flow = 80 l/min Supply pressure = 210 bar

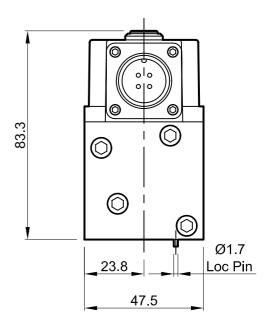


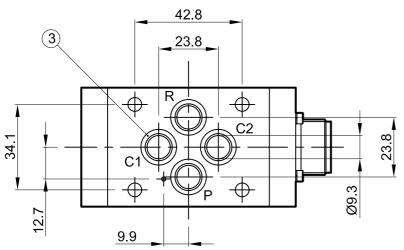
Input signal = 25% Rated flow = 80 l/min Supply pressure = 210 bar



Input signal = 100% Rated flow = 80 l/min Supply pressure = 210 bar





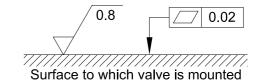


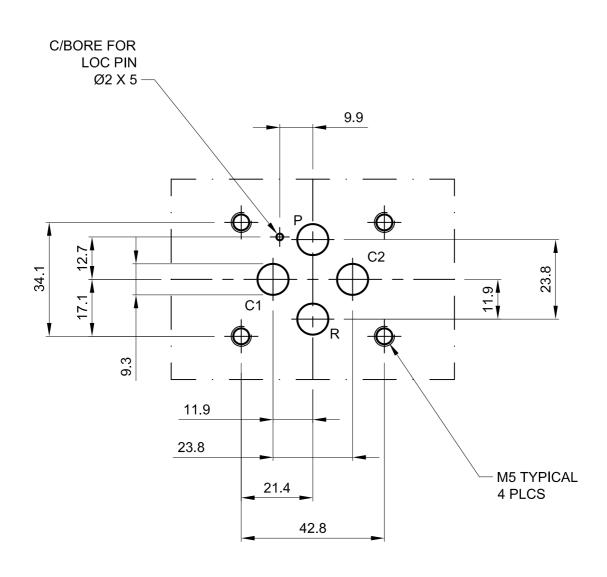
- 1. Suggested mounting bolts M5 x 65 long high tensile steel socket head cap screws.
- 2. 4-way electrical connector mates with MS3106-14S-2S or equivalent. Is available at 180° to position shown (advise desired position at time of order).
- 3. Base O-Rings: 10.82 I/D x 1.78 section (4 pcs).
- 4. Null adjust requires 2.5 hexagon key. Flow out of C2 will increase with clockwise rotation of key.

Installation	Detaile		457
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Dimensions in millimeters 3rd angle projection

Filename





Dimensions in millimeters 3rd angle projection

Filename

