





2-stage mechanical feedback Low mass, high band-width torque motor High spool drive forces Long life "Sapphire Technology" design High resolution, low hysteresis Rated flows 95 to 125 l/min at 70 bar Internal pilot supply (4 port) ISO 10372 size 4

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Technical Data

Fluid viscosity

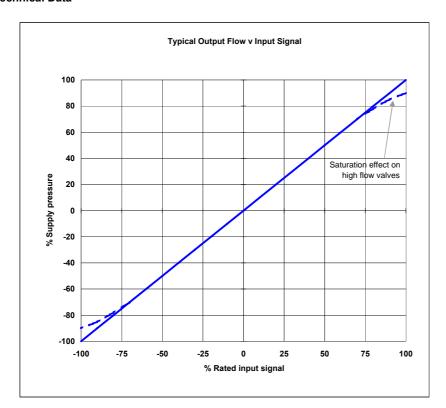
Fluid type

Nominal flow ratings at 70 bar Dp 95 & 125 l/min For other flow ratings consult factory Hysteresis < 4.0% without dither Threshold < 1.5% without dither Null shift with 40 °C temp change < 2% with 70 bar supply pressure change < 2% with return pressure 0 to 35 bar < 2% Load pressure difference at 1% input > 60% of supply pressure Seal material options FPM, NBR -29 to 135 °C Temperature range (ambient) (subject to seal material) **Proof pressure** at pressure port 150% operating pressure at return port 100% operating pressure Burst pressure 250% max supply pressure External leakage zero Degree of protection EN 50529P IP 65 Weight 1.4 kg 30 g, 3 axes Vibration Mounting position Any, fixed or movable Supply filtration non by-pass Beta 10 = 200 (10 μm abs) Beta 3 = 200 (3 μm abs) cleanliness control filter Fluid cleanliness level per ISO 4406: 1999 16/ 14/ 12 minimum recommended 14/ 12/ 10 Operating pressure (max) FPM, NBR 280 bar Supply pressure Constant

10 to 100 cSt

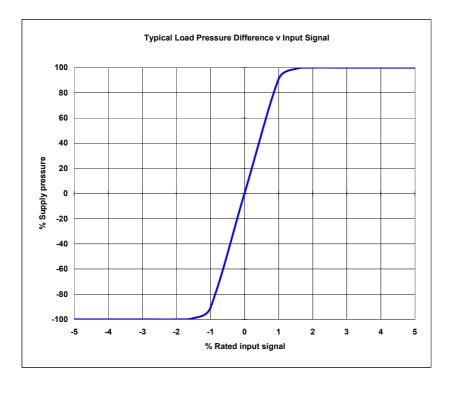
Petroleum based mineral oil

For operation with other media consult factory

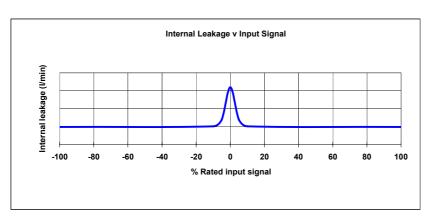


The flow tolerance for standard servovalves is ±10% of the rated flow at 100% rated input signal.

The rated flow is quoted at 70 bar Δp , 100% rated input signal.



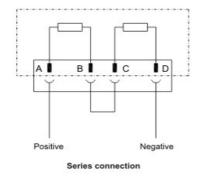
Pressure gain characteristic will vary with positive and negative lap conditions.

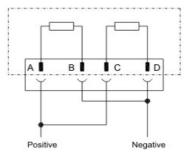


This comprises of both 1st stage flow (tare leakge) and the second stage null leakage.

Figures vary in accordance with rated flow, spool lap and performance characteristics.

Electrical Details





Parallel connection

Output flow polarity

Flow in the direction of P » C2, C1 » R when coils connected as shown

Coil options

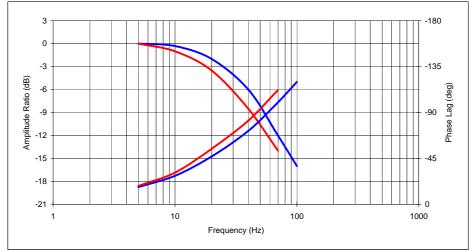
		Series connection		Parallel connection	
Rated current	Resistance / coil	Input current	Effective resistance	Input current	Effective resistance
mA	Ω	mA	Ω	mA	Ω
8	1000	4	2000	8	500
10	1000	5	2000	10	500
15	200	7.5	400	15	100
15	350	7.5	700	15	175
15	600	7.5	1200	15	300
20	1200	10	2400	20	600
30	300	15	600	30	150
30	800	15	1600	30	400
40	80	20	160	40	40
50	80	25	160	50	40
60	40	30	80	60	20
60	320	30	640	60	160
80	22	40	44	80	11
100	27	50	54	100	13.5
200	22	100	44	200	11

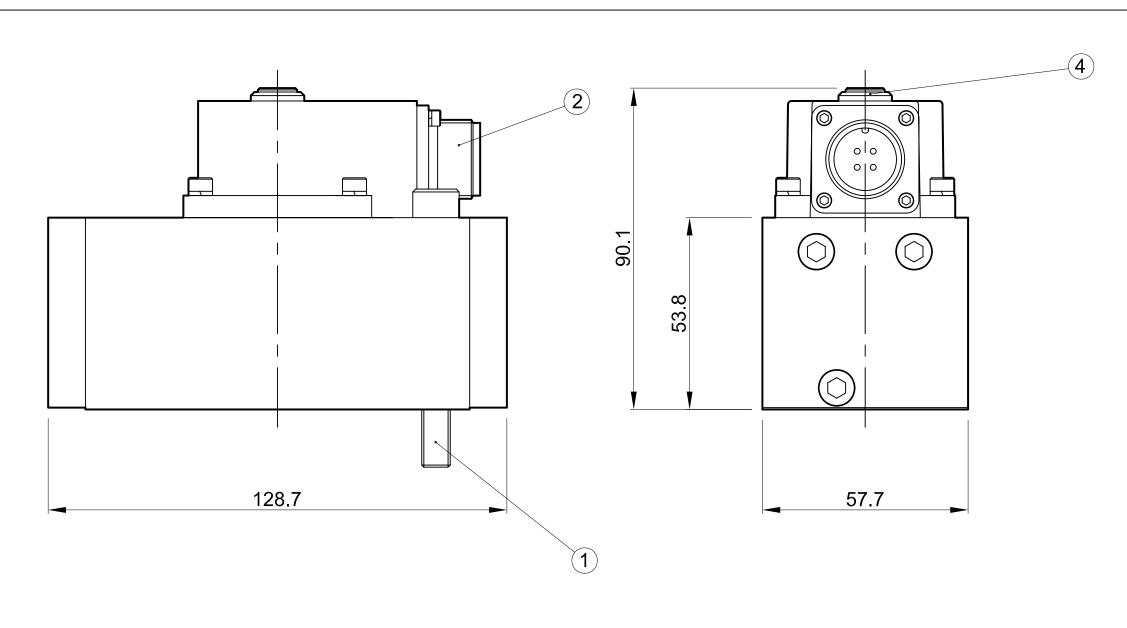
Electrical connector

Standard connector is MS3102E-14S-2P (MIL-5015)

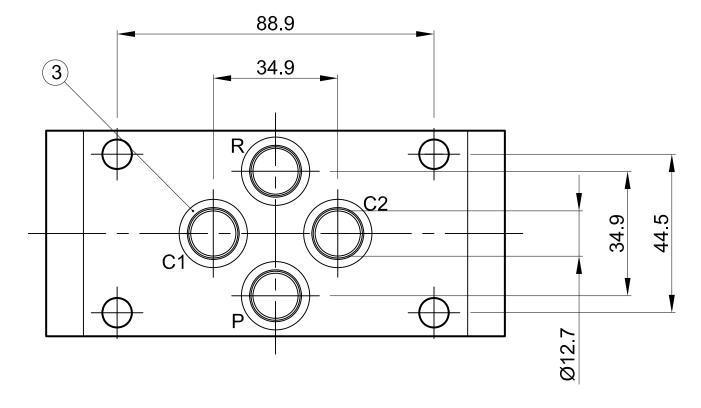
Please contact factory for more options

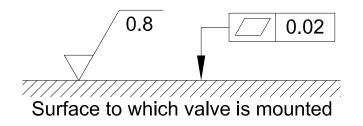
Rated Flow (I/m) ... 95 & 125





- 1. Suggested mounting bolts M8 x 70 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: 14.60 I/D x 2.40 section (4 pcs).
- 4. Null adjust requires 2.5 hexagon key. Flow out of C2 will increase with clockwise rotation of key.

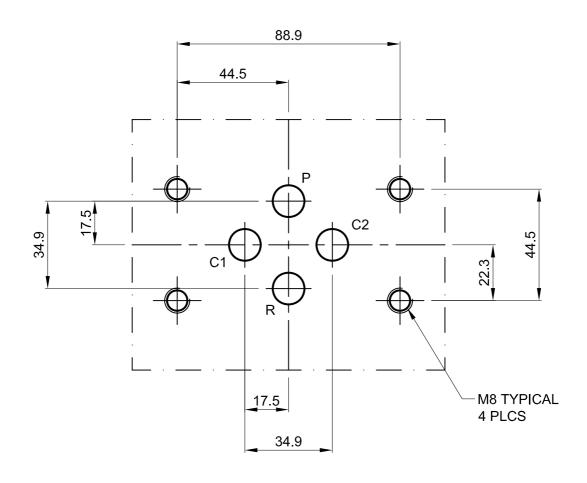




Installation Details Model 750

Dimensions in millimeters 3rd angle projection

ID750-2Q10-En



Manifold Dimensions Model 750

Dimensions in millimeters 3rd angle projection

Filename

