





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 230 l/min at 70 bar External pilot supply (5 port) ISO 10372 size 6

Star Hydraulics Limited
8 Beta Close
Tewkesbury Business Centre
Tewkesbury
Gloucestershire
GL20 8SR
England (UK)

Technical Data

Nominal flow ratings at 70 bar Dp 95, 150 & 230 I/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 FPM, NBR, EPDM Seal material options -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 3.4 kg (w/ field filter 4.4 kg) Vibration 30 g, 3 axes Mounting position Any, fixed or movable (consult factory for critical startup applications) Supply filtration Beta 10 = 200 (10 µm abs) non by-pass 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) **EPDM** 210 bar

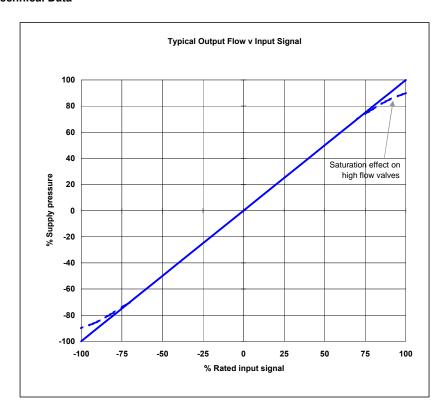
FPM, NBR 300 bar

Supply pressure Constant

Fluid viscosity 10 to 100 cSt

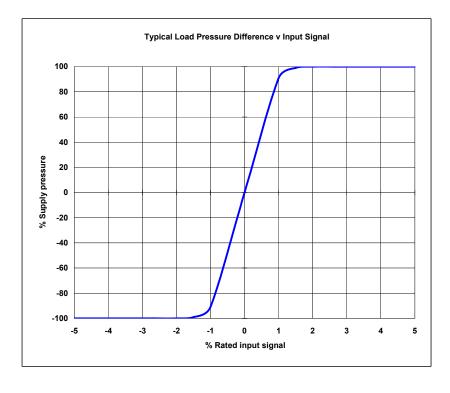
Petroleum based mineral oil Fluid type

For operation with other media consult factory

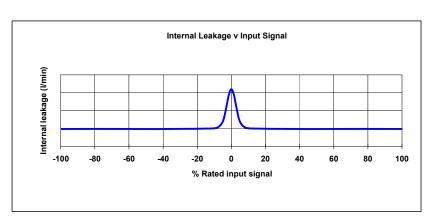


The flow tolerance for standard servovalves is ±10% of the rated flow at 100% rated input signal.

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

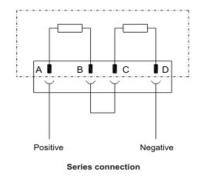


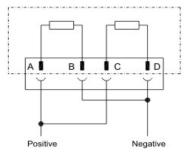
Pressure gain characteristic will vary with positive and negative lap conditions.



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.





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

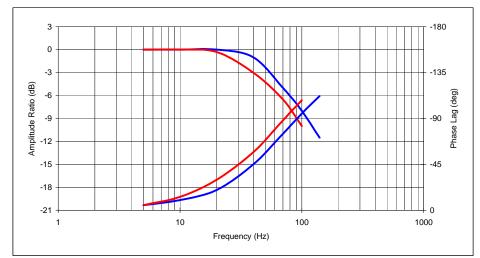
Electrical connector

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

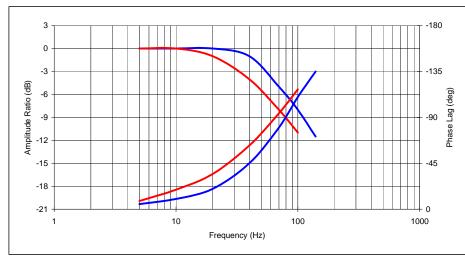
Please contact factory for more options

^{*} Not available on 230 l/m versions

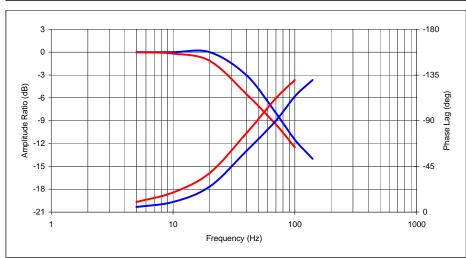
Rated Flow (I/m) ... 95



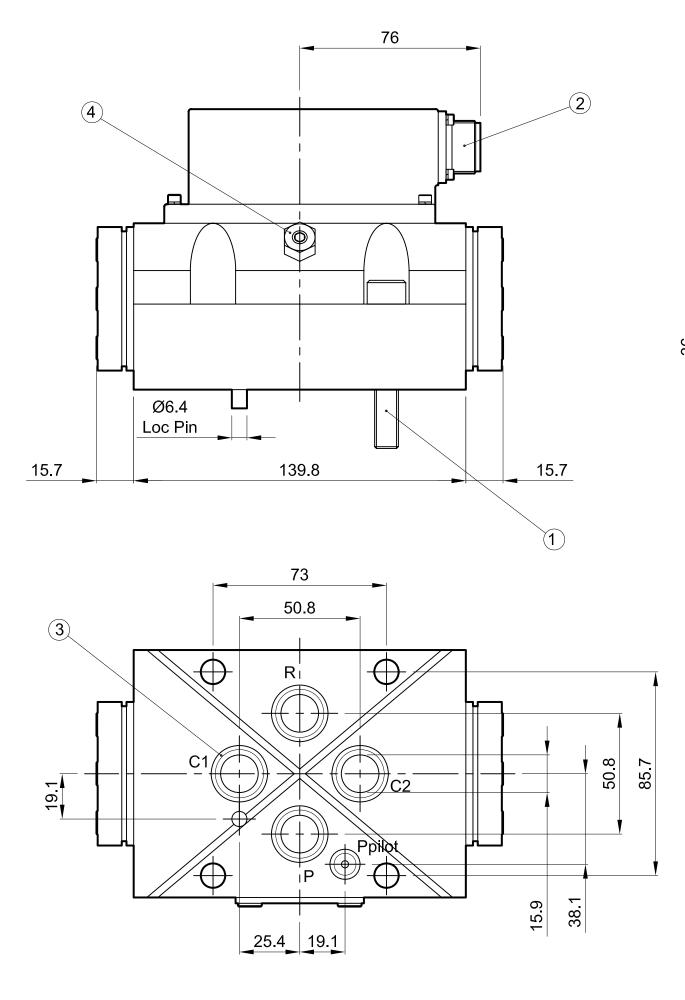
Rated Flow (I/m) ... 150

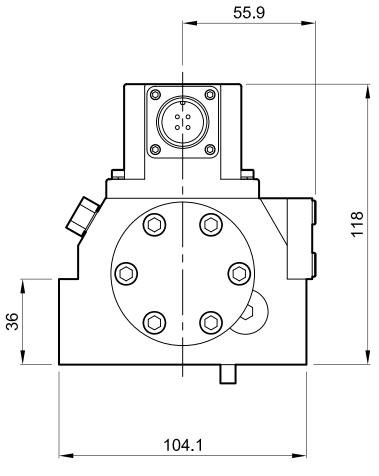


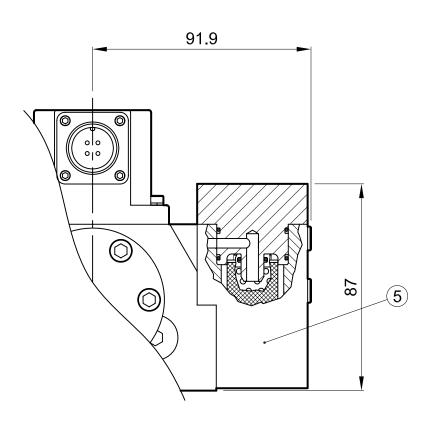
Rated Flow (I/m) ... 230



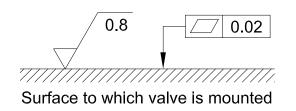
Typical performance curves optimised per 210 bar supply pressure, fluid viscosity 32 cSt at 40 $^{\circ}$ C







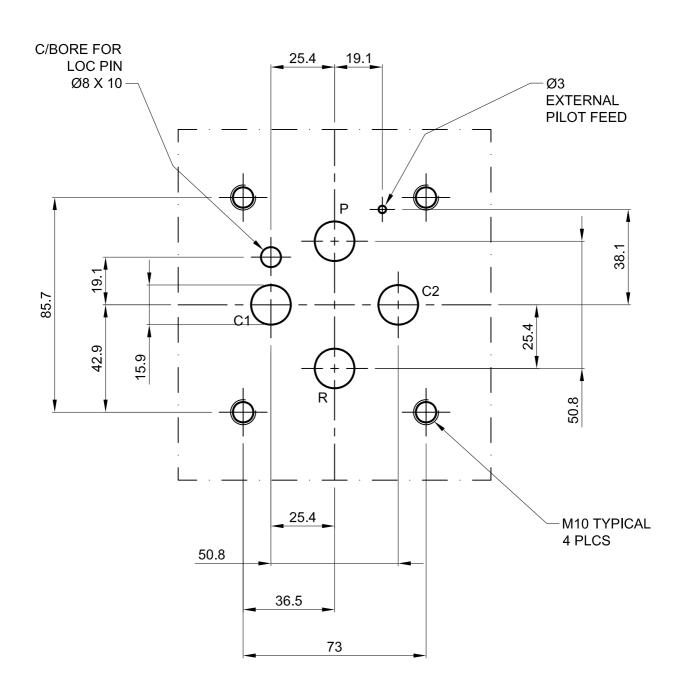
- 1. Suggested mounting bolts M10 x 60 long high tensile steel socket head cap screws.
- 2. 4-way electrical connector mates with MS3106-14S-2S or equivalent. Is available at 180° to position shown (advise desired position at time of order).
- 3. Base O-Rings: 20.35 I/D x 1.78 section (4 pcs). 9.25 I/D x 1.78 section (1 pc).
- 4. Null adjust requires 12 A/F ring spanner and 3.0 hexagon key. Flow out of C2 will increase with clockwise rotation of key.
- 5. Optional field replaceable filter housing, additional cost applies. Element P/No. SRS1479.



Installation Details Model 892

Dimensions in millimeters 3rd angle projection

ID892-2Q10-En





Dimensions in millimeters 3rd angle projection

Filename

