



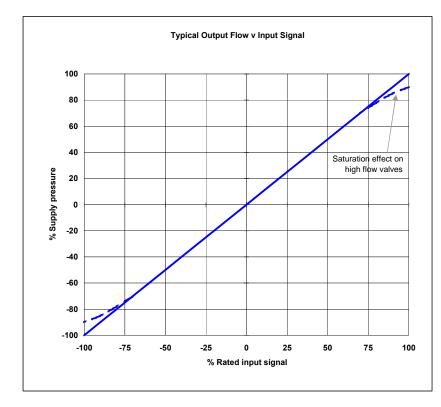


2-stage mechanical feedback (miniature) Low mass, high band-width torque motor High spool drive forces Long life "Sapphire Technology" design High resolution, low hysteresis Rated flows 2 to 7 l/min at 70 bar High Response Internal pilot supply (4 port)

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

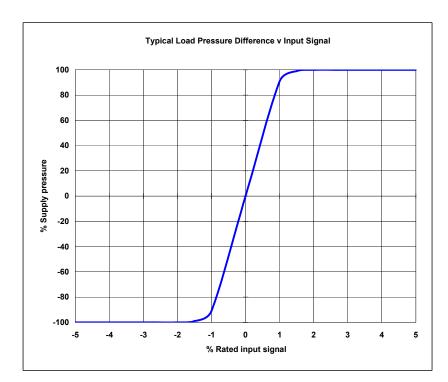
Technical Data

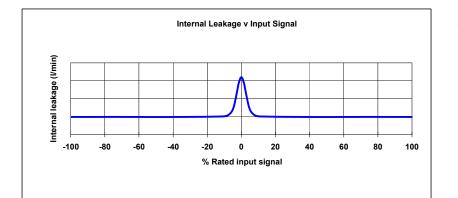
	2, 4 & 7 I/min For other flow ratings consult factory		
Hysteresis	< 3.0% without dither		
Threshold	< 0.5% without dither		
Null shift			
with 40 °C temp change	< 2%		
with 70 bar supply pressure change	< 2%		
with return pressure 0 to 35 bar	< 2%		
Load pressure difference at 1% input	> 60% of supply pressure		
Seal material options	FPM, NBR, EPDM		
Temperature range (ambient)	-29 to 135 °C		
	(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	230 g		
Vibration	30 g, 3 axes		
Mounting position	Any, fixed or movable		
Supply filtration			
non by-pass	Beta 10 = 200 (10 μm abs)		
cleanliness control filter	Beta 3 = 200 (3 μm abs)		
Fluid cleanliness level per ISO 4406: 1999			
minimum	16/ 14/ 12		
recommended	14/ 12/ 10		
Operating pressure (max)			
Operating pressure (max) EPDM	210 bar		
	210 bar 315 bar		
EPDM			
EPDM FPM, NBR	315 bar		
EPDM FPM, NBR Supply pressure	315 bar Constant		



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

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



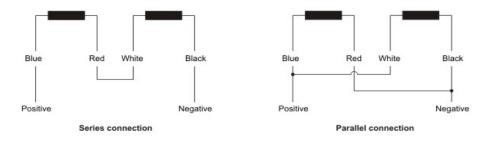


vary with positive and negative lap conditions.

Pressure gain characteristic will

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.



Output flow polarity

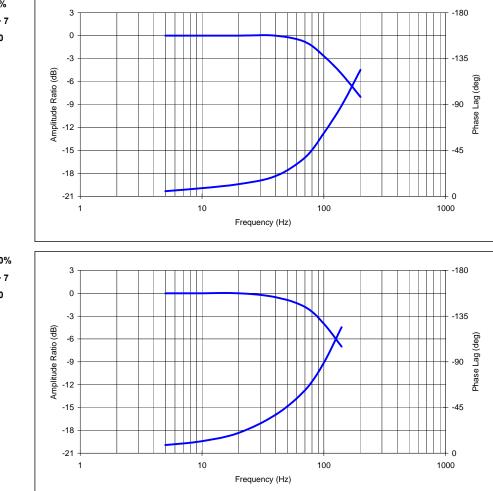
Coil options

		Series connection		Parallel connection	
Rated current	Resistance / coil	Input current	Effective resistance	Input current	Effective resistance
mA	Ω	mA	Ω	mA	Ω
10	1000	5	2000	10	500

Please contact factory for more options

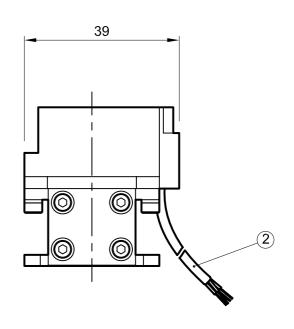
Frequency Response

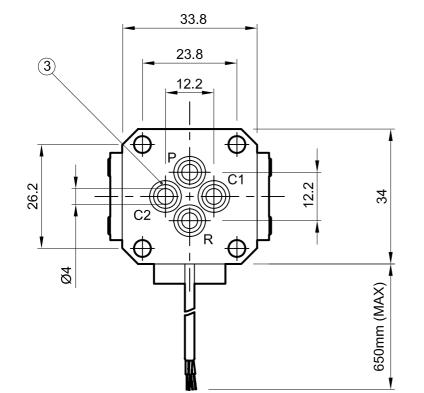
Rated Input	25%
Rated Flow (I/m)	2~7
Ps (bar) …	210
Viscosity (cSt)	32
Temp (°C)	40



Rated Input	100%
Rated Flow (I/m)	2~7
Ps (bar) …	210
Viscosity (cSt)	32
Temp (°C)	40

Typical performance curves optimised per 210 bar supply pressure, fluid viscosity 32 cSt at 40 °C





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40

(1)

1. Suggested mounting bolts M4 x 10 long high tensile steel socket head cap screws.

2. Colour coded flying lead available at 180° to position shown (advise desired position at time of order).

3. Base O-Rings: 6 I/D x 1 section (4 pcs).

Installation Details Model 200

Dimensions in millimeters 3rd angle projection

ID200-2Q09-En

