





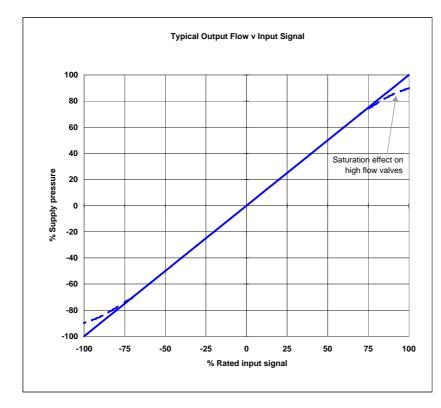
2-stage electric feedback, on board electronics Low mass, high band-width torque motor High spool drive forces Long life "Sapphire Technology" design Higher resolution, lower hysteresis Rated flows 4 to 75 l/min at 70 bar Higher frequency & step response Internal pilot supply (4 port) ISO 10372 size 4

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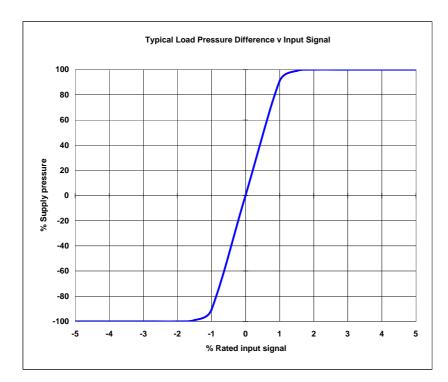
### **Technical Data**

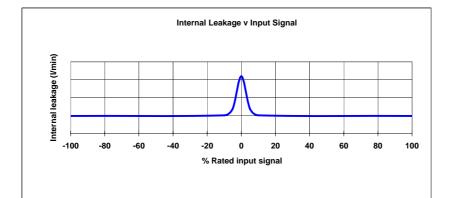
Hysteresis       < 0.5%         Threshold       < 0.1%         Null shift          with 40 °C temp change       < 2%         with 70 bar supply pressure change       < 2%         with 70 bar supply pressure ot 0.35 bar       < 2%         Load pressure difference at 1% input       > 60% of supply         Seal material options       FPM, NBR, EPD         Temperature range (ambient)       -15 to 80 °C         Proof pressure       at pressure port         at pressure       250% max supply         External leakage       zero         Degree of protection EN 50529P       IP 65         Weight       1.4 kg         Vibration       30 g. 3 axes         Mounting position       Any, fixed or modeling         Supply filtration       non by-pass         non by-pass       Beta 10 = 200 (18)         Cleanliness level per ISO 4406: 1999       16/14/12         minimum       16/14/12         recommended       210 bar         Supply pressure (max)       EPDM         EPDM       210 bar         FPM, NBR       315 bar	& 75 I/min atings consult factory
Null shift       vith 70 bar supply pressure change       < 2%	
with 40 °C temp change with 70 bar supply pressure change with return pressure 0 to 35 bar<2% <2% 	
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Load pressure difference at 1% input > 60% of supply   Seal material options FPM, NBR, EPD   Temperature range (ambient) -15 to 80 °C   Proof pressure at pressure port   at return port 150% operating   Burst pressure 250% max supply   External leakage zero   Degree of protection EN 50529P IP 65   Weight 1.4 kg   Vibration any, fixed or max   Supply filtration Any, fixed or max   non by-pass Eeta 10 = 200 (1   cleanliness level per ISO 4406: 1999 16/ 14/ 12   minimum 16/ 14/ 12   inimum 16/ 14/ 12   inimum 210 bar   Supply pressure (max) 210 bar   EPDM 210 bar   FPM, NBR 315 bar	
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EPDM210 barFPM, NBR315 barSupply pressureConstant	
FPM, NBR315 barSupply pressureConstant	
Supply pressure Constant	
Fluid viscosity 10 to 100 cSt	
Fluid type Petroleum base	d mineral oil
For operation w	vith other media consult factory



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  $\Delta p$ , 100% rated input signal.





conditions.

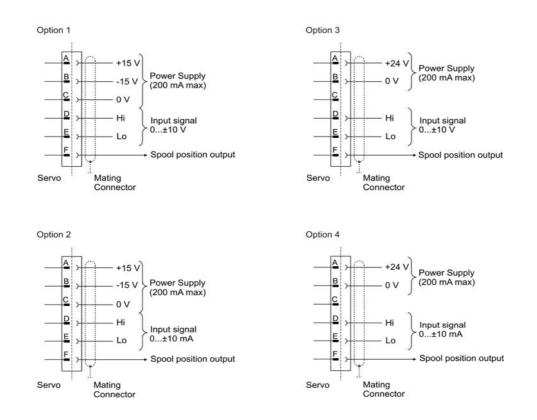
Pressure gain characteristic will

vary with positive and negative lap

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**



#### Notes

Above options are factory set

Power supply voltage ±3% of rated figure, ripple < 50 mV p-p

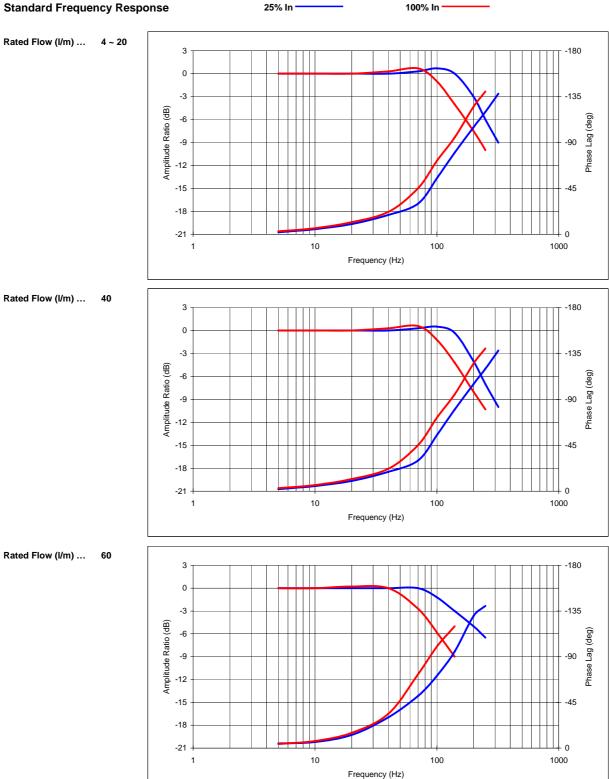
Connection cable to be DEF STAN 61-12, part 4 screened, 7-2-C type, 8 core (7/0.2 mm)

+ve input to pin D causes flow in the direction of P » C2, C1 » R

Pin F must be referenced to 0 V

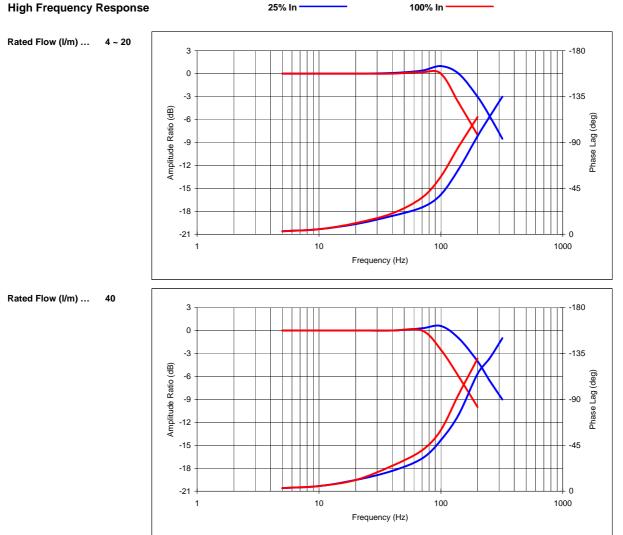
# CE

### Standard Frequency Response

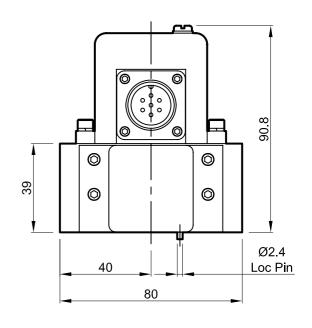


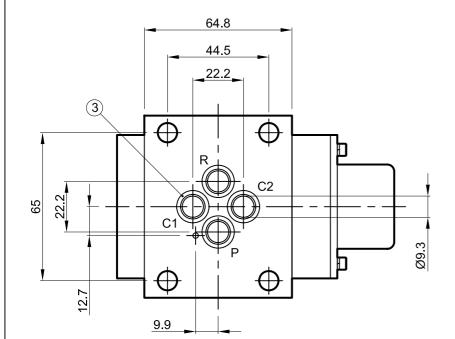
Typical performance curves optimised per 210 bar supply pressure, fluid viscosity 32 cSt at 40 °C

### **High Frequency Response**



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





1. Suggested mounting bolts M8 x 60 long high tensile steel socket head cap screws.

2. 7-way electrical connector mates with MS3106E-14S-A7SN 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).

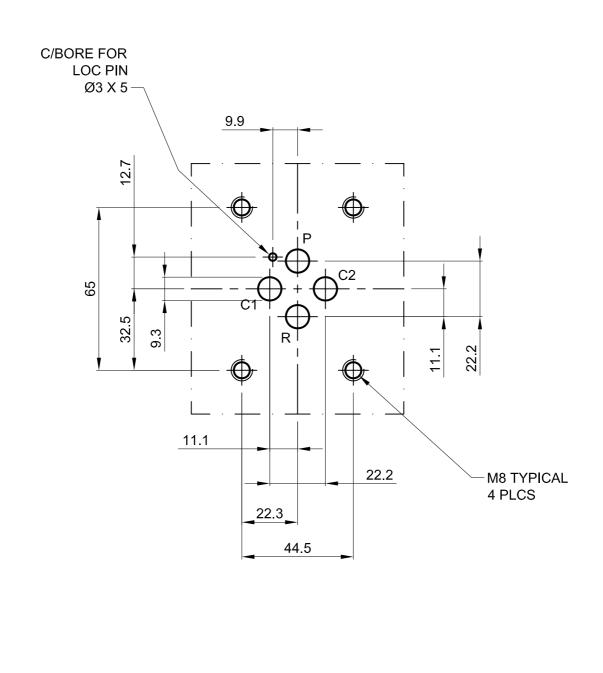
4. Null adjustment potentiometer.

## Installation Details Model 550E

Dimensions in millimeters 3rd angle projection

ID550E-2Q10-En

0.8 0.02 Surface to which valve is mounted



# Manifold Dimensions Model 550E

Dimensions in millimeters 3rd angle projection Filename

