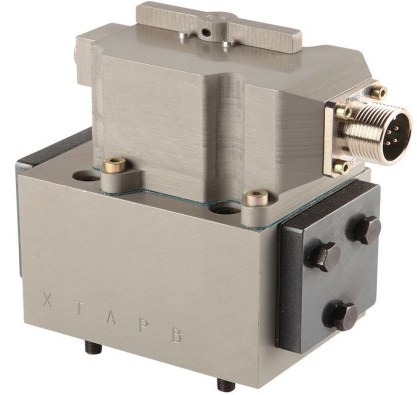


### Features

- High Static precision and dynamic response up to 35hz
- For high dynamic or high position accuracy applications.
- Standard NG10/D05 mounting pattern
- Reliable long life operation
- Manual override operation
- Mechanical null adjustment
- Flapper Nozzle design
- Easy to replace protection filter.
- Fifth supply port available to provide independent pressure to pilot stage.
- Maximum rated pressure to 280 bar (4000psi)
- Nominal flow rating of 10, 20, 40, 60 and 80lpm

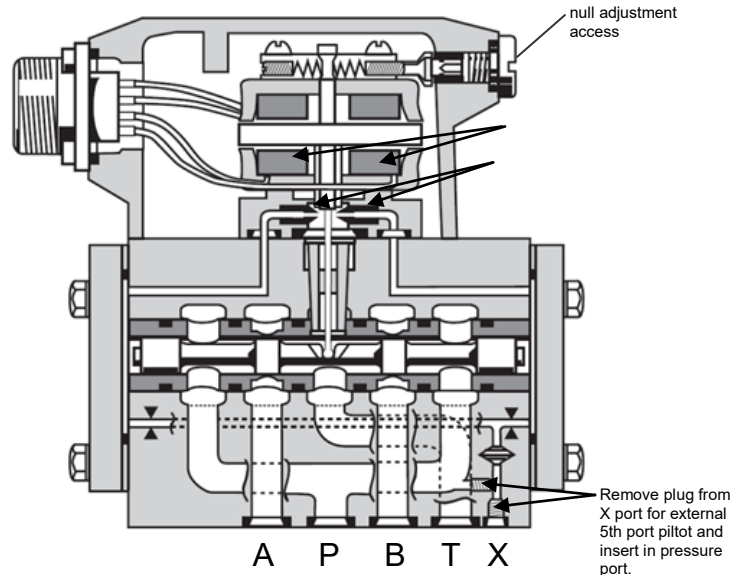
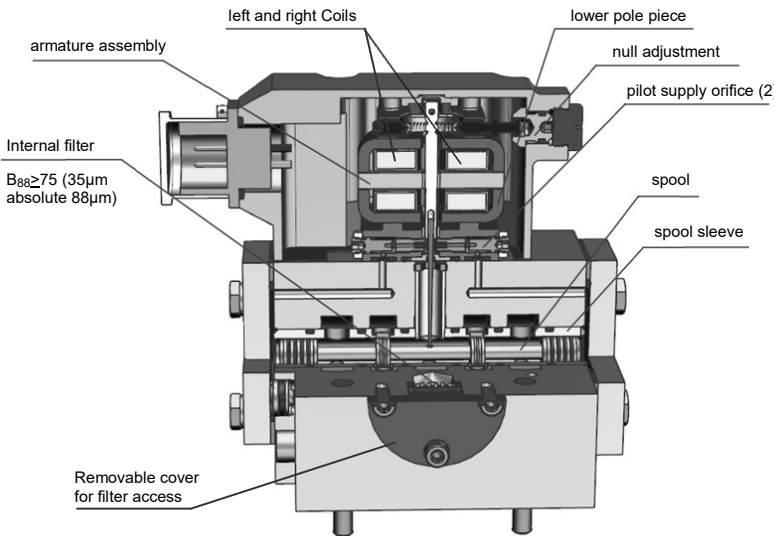


### Ordering Details

V	Valve						
S	Subplate Mount						
S	Valve Type: Servo						
10H-	Mounting Size: 10H = NG10 (D05) 2-stage						
C-	Spool Configuration:  C =						
40-	Spool Flow (at 210bar pressure drop) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <th>Code/Flow (lpm)</th> <td>10</td> <td>20</td> <td>40</td> <td>60</td> <td>80</td> </tr> </table>	Code/Flow (lpm)	10	20	40	60	80
Code/Flow (lpm)	10	20	40	60	80		
100	Command Signal: 100 = +/-100mA						
4P-	Electrical Connector = 4P = 4-Pin round connector according to 654-MS3106F14S-2S						
1	Series						

Example Part Number: VSS10H-C-40-1004P-1

### Construction



# Technical Data

## Mechanical Data

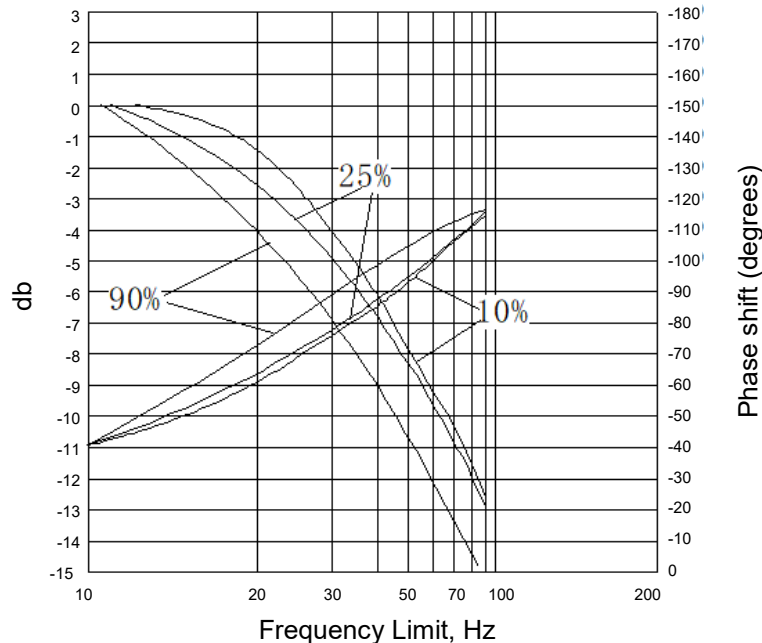
Description	Units	Valve Size (lpm)				
		10	20	40	60	80
Nominal Supply Pressure range	Bar	2-210 (280 Max.)				
Nominal Rated Supply Working Pressure, Ps	Bar	210 (280 Max.)				
Rated Flow at 70bar pressure drop, ( $Q=$ actual flow, $Q_N=$ rated flow, $P=$ actual pressure drop, $P_N=$ rated pressure drop) $Q = Q_N \sqrt{\frac{\Delta P}{\Delta P_N}}$	LPM	10	20	40	60	80
Filtration requirement		$\beta_{10} > 75$ (10 $\mu$ absolute)				
Mounting direction		Any				
Vibration, 3 Axis	g	30 (5Hz ~ 2KHz)				
Rated Current, In	mA	100				
Hysteresis	%	$\leq 5$				
Threshold	%	$\leq 1$				
Linearity	%	$\leq 7.5$				
Symmetry	%	$\leq 10$				
Pressure Gain, %Ps/1% In	%	$> 30$				
Internal Leakage, at 210bar	LPM	$\leq 3.5$				
Null Bias	%	$\leq +/-3$				
Center position spool overlap	%	$\leq +/-2.5$				
Null shift with supply pressure (80-110% Ps)	%	$\leq +/-4$				
Null shift with return pressure of (0-20% Ps)	%	$\leq +/-4$				
Frequency Response at amplitude ratio -3db, +/-10% opening	HZ	$\geq 17$				
Frequency Response at phase lag of -90°, +/-10% opening	HZ	$\geq 35$				
Working Temperature	°C	-30 to +95				
Net Weight	KG	$\leq 2.3$				

## Electrical Data

Description	Units	7	17	33	50	65
Resistance per coil at 20°C	Ohms	28				
Rated Current: parallel coils	mA	100				
Rated Current: series coils	mA	50				
Coil Inductance, series coils	H	0.8				
Coil Inductance, individual coil	H	0.2				
Coil Inductance, parallel coils	H	0.2				

## Frequency Response Limits, Bode plot

Frequency limit tested at  
+/-10%, +/-25% and +/-90%  
spool movement (Input Current)



Test condition:

- supply pressure 210bar (3045psi)
- fluid temperature 40°C (104°F)
- fluid viscosity 32mm<sup>2</sup>/s (1.26in<sup>2</sup>/s)

