

SFL212A Electro-hydraulic Flow Control Servo Valve



7.1 Performance indices

Item	Unit	Index
Supply pressure P_s	MPa	2~28
Rated supply pressure P_n	MPa	21
Rated flow Q_n ($\Delta P = 7\text{MPa}$)	L/min	2,5,10
Rated current I_n	mA	10
Hysteresis	%	≤ 3
Threshold	%	≤ 0.5
Nonlinearity	%	$\leq \pm 5$
Unsymmetry	%	$\leq \pm 5$

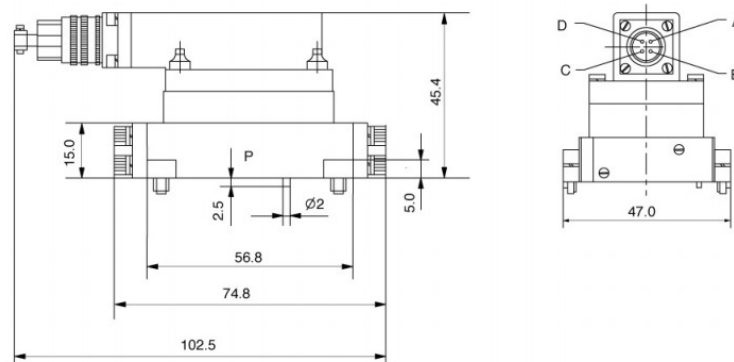
Item		Unit	Index
Pressure gain		%	>30
Internal leakage		L/min	≤0.5,0.6,1
Null bias		%	≤±2
Null shift with temperature ($\Delta T=56^{\circ}\text{C}$)		%	≤±2
Null shift with supply pressure of (80~110%) Pn		%	≤±2
Null shift with return pressure of (0~20%) Pn		%	≤±2
Frequency Response	Amplitude ratio with (-3dB)	≥100	≥100
	Phase lag with (-90°)	≥100	≥100
Working temperature		°C	-15~100
Weight		kg	≈0.45

7.2 Electrical interface

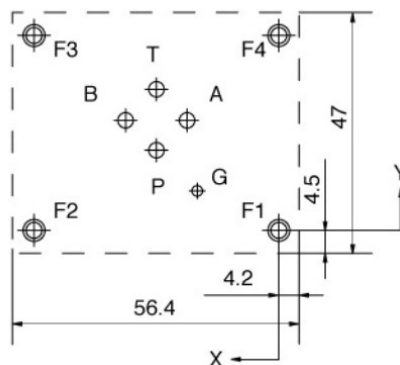
Item	U	Single	Parallel	Series coil
Coil resistance	Ω	800	400	1600
Rated current	m	10	10	5
Coil inductance	H	1	0.5	2

7.3 Overall and installation dimensions

Overall dimensions



Installation dimensions



*Requirement: Flatness less than 0.01mm, roughness below $\sqrt{0.6}$.

	P	A	B	T	G	F1	F2	F3	F4
	φ3	φ3	φ3	φ3	Φ2.5	M4	M4	M4	M4
X	24	18	30	24	14	0	48	48	0
Y	15.5	21.5	21.5	27.5	7	0	0	38	38