E SERIES

Shockless Type Proportional Electro-Hydraulic Directional and Flow Control Valves

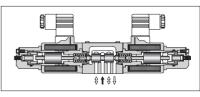
These valves are well accepted by industrial users as shifting time adjustable type shockless valves. By employing the basic design concept of the "G series solenoid operated directional valves", we have been successful developing the shifting time adjustable shockless valves with high performance which makes the speed setting possible at any high speed operation.

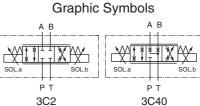
In combination with the newly developed digital amplifiers, the further enhancement of maneuverability and repeatability of the valves can be realized.

Specifications

Description	Model No.	EDFG-01		
Max. Operating Pressure MPa (PSI)		25 (3630)		
Max. Flow L/min (U.S.GPM)		30 (7.9)		
Max. Tank Line Back Pressure MPa (PSI)		14 (2030)		
Rated Current		1100 mA		
Coil Resistance		10.8 Ω		
Hysteresis		5% or less		
Repeatability		1% or less		
Step Response (Typical Rating) $(0 \leftrightarrow 100\%)$		100 ms or less		
Frequency Response (50% ±25%)	Phase	20 Hz (-90 degree)		
	Gain	25 Hz (-3 dB)		
Approx. Mass kg (lbs.)		2.4 (5.3)		







Model Number Designation

F-	EDF	G	-01	-30	-3C2	-XY	-50	*
Special Seals	Series Number	Type of Mounting	Valve Size	Rated Flow L/min (U.S.GPM)	Spool Type	Direction of Flow	Design Number	Design Standards
F: Special Seals for Phosphate Ester Type Fluid (Omit if not required)	EDF : Shockless Type Proportional Directional and Flow Control Valve	G : Sub-plate Mounting	01	30 (7.9)	3C2 3C40 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	XY: Metre - In ∙ Metre - Out	50	Refer to ★ 1

Attachment

Mounting Bolts

Descriptions	Soc. Hd. Cap Screw	Qty.
Japanese Standard "JIS" European Design Standard	M5 × 45 Lg.	4
N. American Design Standard	No.10 - 24 UNC × 1-3/4 Lg.	4

Applicable Power Amplifier

For stable performance, it is recommended that Yuken's applicable power amplifiers be used (for details see page 782). Model Numbers: AMN-G/W-10

Sub-plate

Piping Size	Japanese Standard "JIS"		European Design Standard		N. American Design Standard		Approx.
	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	Mass kg (lbs.)
1/8	DSGM-01-31	Rc 1/8	DSGM-01-3180	1/8 BSP.F	DSGM-01-3190	1/8 NPT	0.8 (1.8)
1/4	DSGM-01X-31	Rc 1/4	DSGM-01X-3180	1/4 BSP.F	DSGM-01X-3190	1/4 NPT	0.8 (1.8)
3/8	DSGM-01Y-31	Rc 3/8			DSGM-01Y-3190	3/8 NPT	0.8 (1.8)

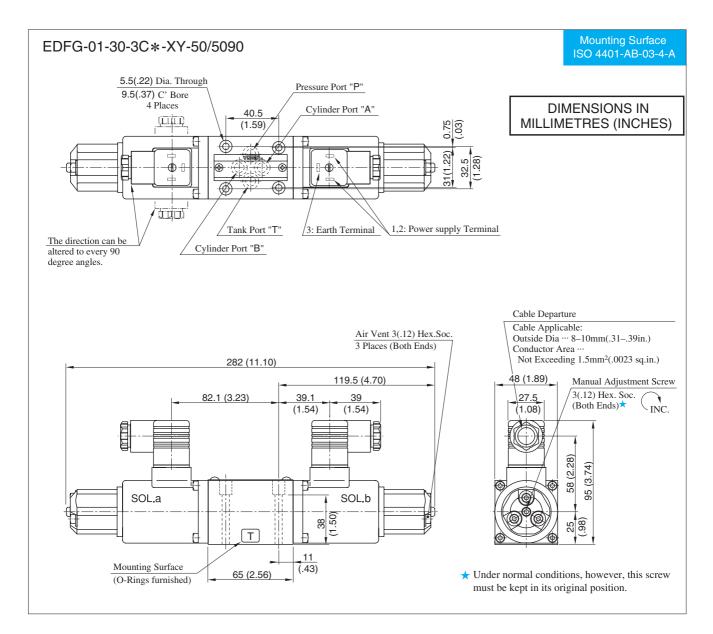
• Sub-plates are available. Specify the sub-plate model number from the table above. When sub-plates are not used, the mounting surface should have a good machined finish.

• Sub-plates are those for 1/8 solenoid operated directional valves. For dimensions, see page 356.

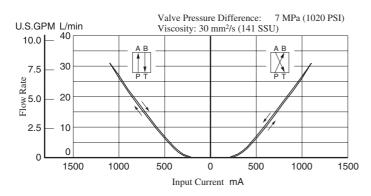
Shockless Type Directional and Flow Control Valves

E Series

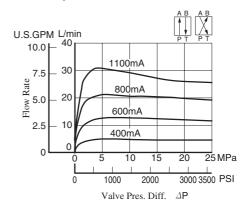
YUKEN



Input Current vs. Flow



Valve pressure Difference vs. Flow



List of Seals and Solenoid Ass'y

