YUKEN

Specifications

Min. Required Pilot Pres.

Min. Required Pilot Flow

L/min (U.S.GPM)

Max. Drain Line Back Pres.

Description Max. Operating Pres

Rated Flow

Hysteresis

Repeatability

Coil Resistance

Input Signal

Input Impedance

Power Input (Max.)

Ambient Temperature

Alarm Signal Output (Open Collector)

ditions similar to its original testing.

LVDT Output (Sensor Monitor)

Frequency Response

Supply Electric Power

High Response Type Proportional Electro-Hydraulic Directional and Flow Control Valves

EHDFG-06

15.7 (2280)

280 (73.9)

1.5 (215)

2 (.53)

10 (2.64)

0.1 (15)

45 Hz (-90 deg.)

30 Ω

 $10 \, k \, \Omega$

20 W

These valves pursue the ultimate performance of proportional electrohydraulic directional & flow control valves and make themselves to have high response features.

The closed-loop is composed in the valve inside by combination of a differential transformer (LVDT) and a power amplifier. Thus, high accuracy and reliability are provided.

In addition to control in the open-loop, these can be used for the closed-loop system as simplified servo valves.

EHDFG-04

15.7 (2280)

130 (34.3)

1.5 (215)

2 (.53)

6 (1.59)

0.1 (15)

55 Hz (-90 deg.)

30 Ω

 $10\,k\,\Omega$

20 W

The repeatability of the valves is obtained by having it tested independently on the con-

1% or less

1% ***** or less

 $\pm 24 \text{ V} \overline{\text{DC}}$

 $(\pm 21 \text{ to } \pm 28 \text{ V DC Included Ripple})$

Rated Flow / ±5 V DC

Voltage: Max. 30 V DC

Current: Max. 30 mA

±5 V DC / Rated Travel of Spool

0 - 50°C (32 - 122°F)

(With Circulated Air)

Model Numbers

L/min (U.S.GPM)

at Normal

at Transition

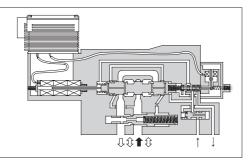
MPa (PSI)

Valve Pres. Difference: 1.5 MPa (215 PSI)

MPa (PSI)

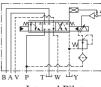
MPa (PSI)



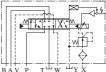


Graphic Symbols

 Models without Pressure Compensator Valve

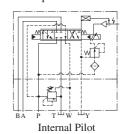


Internal Pilot



External Pilot

 Models with Pressure Compensator Valve



Model Number Designation

F-	EHDF	G	-04	-130	-2	-E	-CB	-10
Special Seals	Series Number	Type of Mounting	Valve Size	Rated Flow L/min (U.S.GPM)	Spool Type*	Pilot Connection	Relief Type Pres. Compensator	Design Number
F: Special Seals for Phosphate Ester Type Fluid (Omit if not required)	EHDF: Proportional Electro-Hydraulic Directional and Flow Control Valve	G : Sub-plate Mounting	04	130 : 130 (34.3)	2	None : Internal Pilot	None : Not Provided	10
				280 : 280 (73.9)	40	E : External Pilot	CB : Provided	10

 \star Spool type shown in the column is for the centre position.