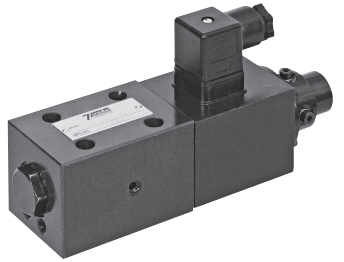
PROPORTIONAL CONTROL PILOT RELIEF VALVES
(DIR. OPERATED TYPE)

FEATURES :

- Control the system pressure proportionally through a control input current from the amplifier.
- Accurate working circulation extend machine and parts endurance.
- Simplify the system design also eliminate any shocks in the hydraulic system.



Model: EDG-02-B-10

SPECIFICATION :

Max Operating Pressure	250 Bar (3571 PSI)
Max. Flow Rate	2 L/Min
Min. Flow Rate	0.3 L/Min
Rated Current	B: 800 mA
	C: 900 mA
	H: 950 mA
Coil Resistance	10 Ω
Hysteresis	Below 3 %
Repeatability	Below 1 %
Mounting Pattern	ISO 4401-01-AB-03-4-A
Mounting Bolts	M5 x 45L x 4 pcs
Approx. Weight	2.6 kg

ORDERING CODE :

ED G – 02 – C – S – 10
1 2 3 4 5 6

1 PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVE

2 SUB-PLATE MOUNTING

3 NOMINAL VALVE SIZE:
ISO 4401 / CETOP 3 (NFPA-D03 / DIN 24340 NG6)

4 PRESSURE ADJ. RANGE
B : 5~70 Bar
C : 10~160 Bar
H : 12~250 Bar

5 SAFETY VALVE
NONE: WITHOUT SAFETY VALVE S: WITH SAFETY VALVE

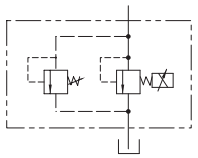
6 DESIGN NUMBER

GRAPHIC SYMBOLS :

WITHOUT SAFETY VALVE
- EDG-02-*-10



WITH SAFETY VALVE
- EDG-02-*-S-10



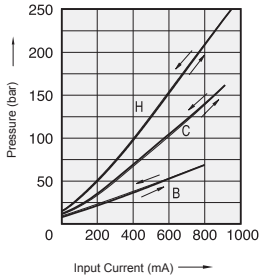
PROPORTIONAL CONTROL PILOT RELIEF VALVES
(DIR. OPERATED TYPE)

PERFORMANCE CURVES:

Viscosity of Hydraulic Fluid: 32 mm²/s

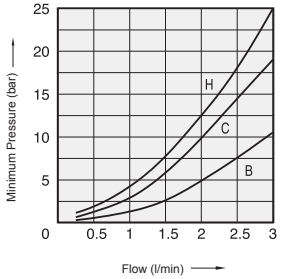
Input Current vs. Pressure

■ EDG-02



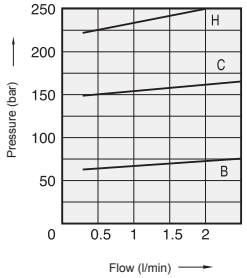
Minimum Pressure vs.Flow

■ EDG-02



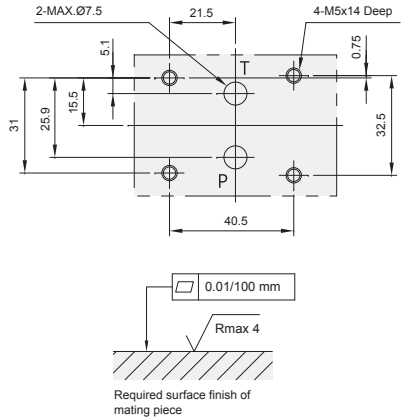
Regulated Pressure vs.Flow

■ EDG-02



INSTALLATION DIMENSIONS:

(Mounting Pattern ISO 4401-AB-03-4-A)



INSTRUCTION :

1. MOUNTING: BE SURE THE AIR VENT FACE UP TO KEEP THE ACTION PROPERLY.
2. TANK & DRAIN PIPING: THE TANK-LINE BACK PRESSURE AND DRAIN BACK PRESSURE DIRECTLY AFFECT THE MIN. ADJUSTMENT PRESSURE. THEREFORE, DO NOT CONNECT THE TANK OR DRAIN PIPES TO OTHER LINES, BUT CONNECT THEM DIRECTLY TO THE RESERVOIR MAINTAININ G THE BACK PRESSUE AS LOW AS POSSIBLE. BE SURE THAT THE TANK AND DRAIN PIPE ENDS ARE IMMERSED IN FLUID.
3. WHEN INITIAL ADJUSTMENTS ARE TO BE MADE OR WHEN NO CURRETN IS SUPPLIED TO THE VALVE DUE TO ELECTRICAL FALUIRE OR OTHER PROBLEMS, TURN THE MANUAL PRESSURE ADJUSTMENT SCREW TO TEMPO-RARILY SET THE VALVE PRESSURE. IN THAT SITUATION, TUREN THE MANUAL PRESSURE ADJUSTMENT SCREW CLOCKWISE, THE VLAVE PRESSURE GOES UP. UNDER NORMAL CONDITION, THEIS SCREW MUST BE KEPT IN ITS ORIGINAL POSITION.
4. AIR BLEEDING:TO ENSURE STABLE CONTROL, BLEED THE AIR FROM SOLENOID COMPLETELY, SET THE PRESSURE TO 20~40 BARS. BLEEDING CAN BE DONE BY SLOWLY LOOSENING ONE OF THE AIR VENTS AT THE END OF THE SOLENOID.
5. SAFETY VALVE: SAFETY VALVE PRESSURE = MAX. WORKING PRESSURE + 20BAR

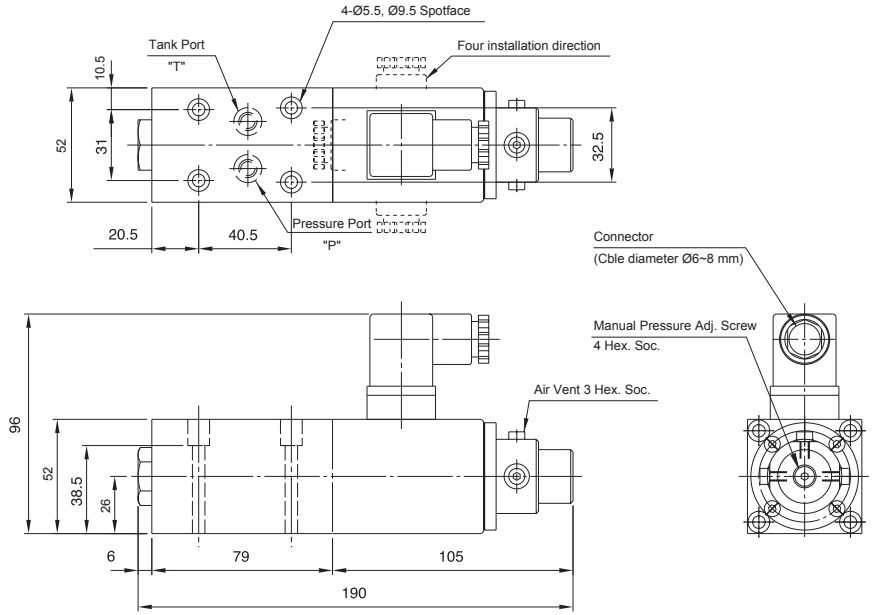
PROPORTIONAL CONTROL PILOT RELIEF VALVES
(DIR. OPERATED TYPE)

DIMENSIONS :

3rd angle projection

Without Safety Valve

■ EDG-02-*-10



With Safety Valve

■ EDG-02-*-S-10

