Fig. 1936F DN65-DN150 / PN16 Electronic Pressure Independent Control valve

DESCRIPTION

E-PICV uses pressure transducers combined with a high-speed actuator to automatically regulate flow, regardless of pressure fluctuations in the system.

FEATURES & BENEFITS

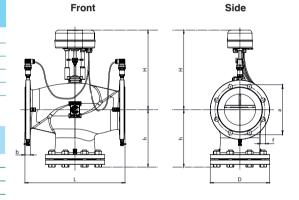
- Reduced commissioning time and costs due to the preconfigured actuator settings, via the BMS or Hattersley configurator tool
- Stable head output by maintaining a flow rate regardless of ΔP via pressure sensors
- System optimisation using the indicated flow rate and position feedback via Modbus
- Reduced installation labour and cabling costs due to daisy chaining between Modbus actuators
- Reduced downtime due to error feedback via the BMS
- Optimised system efficiency and user comfort due to fast responding actuator
- Isolation function with Class IV leakage up to 800kPa



MATERIAL SPECIFICATION

Description	Material	Specification			
Body	Grey Iron	EN GJL-250			
End Cap	Grey Iron	EN GJL-250			
Plug	Brass	CB 491K			
Seat	Grey Iron	EN GJL-250			
Stem	Stainless Steel	AISI-303			

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATION

Char	actersitic	Description				
Fluid temperature		-10°C - 110°C				
Storage temperatu	re	-10°C - 50°C				
Protection	Actuator	IP54				
FIOLECTION	Pressure Sensors	IP65				
Valve connections		Flanged PN16				
Max close off press	sure	800kPa				
Operational ΔP rar	nge	35kPa – 800kPa				
Supply voltage		24Vac/dc / 230Vac variants available				
Control signal		0-10Vdc, 2-10Vdc, 0-5/2-6Vdc and 4-20mA or 0-100% Modbus control signal				
Output signal		2-10Vdc (0-100%); max load 2mA or 0-100% Modbus signal				
	Pressure range	0 - 16 bar				
Pressure sensors	Temperature range	-15°C - 125°C				
	Output signal	0-10 Vdc				
	Power supply	16Vdc (supplied from actuator)				
	Valve connection	1/8"				

DIMENSIONS & WEIGHTS

SIZE (DN)	L (mm)	H (mm)	h (mm)	D (mm)	b (mm)	a (mm)	f (mm)	HOLES	WGT (kg)	Qmin (l/s)	Qmax (l/s)
65	290	320	175	185	20	145	18	4	18	3.3	10.3
80	310	330	186	200	22	160	18	8	28	6.9	16.4
100	350	341	206	220	24	180	18	8	32	12.5	21.4
125	400	364	255	250	26	210	22	8	45	16.9	32.8
150	480	382	275	285	26	240	25	8	60	22.2	49.2

PRESSURE RATING PN16

MEDIUM

Group 2 Liquids

END CONNECTIONS:

Flanges to BS EN 1092-2 PN16

SPECIFICATION

The E-PICV shall consist of a two-port characterised control valve with equal percentage control set through the actuator. Shall maintain flow rates, through integral pressure sensors, at differential pressures up to 800kPa. Flow rate adjustable through 0-10V or 0-100% Modbus signal, with feedback of % position, through 0-10V signal, and indicated flow rate based on valve position to be made available. Shall be manufactured from Grey Iron, with Brass plug and Stainless-Steel springs. Shall be rated to PN16 and operate at temperatures to 110°C. As per Hattersley Fig. 1936F.