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PRESSURE INDEPENDENT CONTROL VALVE

PICV 1141

ISO 9001
BUREAU VERITAS
Certification



EAC

Tecofi
VALVE DESIGNER - FRANCE



APPLICATION

- General use : HVAC system, air conditioning, and refrigeration system.

GENERAL CHARACTERISTICS

From DN 1" to DN 2".
Small size convenient to install. High close off pressure, low leakage. Flow rate range : 2...8m3/h. Forged brass body. Threaded connection; Leakage rate : 0.02% of Kvs.
Operating by proportional control actuator with standard features with manual function. Regulating range: 30% - 100%. Input/Output signal: 0(2) - 10VDC, 0(4) - 20mA. Power supply: 24VAC 50/60Hz. Protection level: IP54.

CONSTRUCTION

Actuator bracket	Cast aluminium
Actuator cover	PC
Membrane	EPDM
Sealing ring	PTFE
Valve stem	Stainless steel
Valve core	Stainless steel
Valve body	Forged brass
Description	Material

DIMENSIONS

DN		H1	H2	A	B	C	D	E	Flow rate (M3/h)	Weight* (kg)
mm	inch									
25	1"	43	53	130	80	60°	210	105	2	3.8
32	1" 1/4	53	58	146	90	60°	210	105	3.5	4.4
40	1" 1/2	50	62	165	100	60°	210	105	6	5.1
50	2"	65	74	190	120	60°	210	105	8	7.0

* Weight of valve + actuator

WORKING CONDITIONS

Maximum working pressure : 16 bar
Maximum working temperature : - 10°C / +120 °C
Ambient temperature: -20°C / +50°C

STANDARDS

Threaded connection according to standard ISO 7/1.

FLOW CHARACTERISTICS

DN		Opening percentage (%) - Flow factor - Kvs (m3/h)														
mm	inch	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
25	1"	0.38	0.44	0.49	0.55	0.6	0.67	0.73	0.85	0.97	1.10	1.20	1.41	1.62	1.86	2.00
32	1" 1/4	1.25	1.63	1.71	1.85	2.10	2.21	2.35	2.50	2.66	2.79	2.90	3.04	3.20	3.36	3.50
40	1" 1/2	1.29	1.74	1.83	2.24	3.04	3.61	3.85	4.16	4.41	4.66	4.90	5.16	5.40	5.75	6.00
50	2"	1.36	1.81	1.92	2.45	3.12	3.77	4.07	4.42	5.03	5.40	6.10	6.50	7.20	7.50	8.00

