

## D991

ProBalance

DN40 & DN50

PN16

### Features & Benefits

- Maintains equal percentage control characteristic at all flow rate settings
- Pressure independent control of flow
- Simple flow rate setting
- Adjustable over wide range of flow rates
- Activation DP 20-35kPa (DN40) and 25-35kPa (DN50) dependent on setting
- Integral test points for Dp verification

### Materials

PART	MATERIAL	SPECIFICATION
Body	Bronze	BS EN 1982 (CC491K)
Regulating Bonnet	Bronze	BS EN 1982 (CC491K)
DP Bonnet	Bronze	BS EN 1982 (CC491K)
DP Chamber	Bronze	BS EN 1982 (CC491K)
P84 Pressure Test Points	DZR Brass	BS EN 12164 (CW602N)
Stem Spacer(Removable)	Acetal Copolymer	-
Diaphragm DP Chamber	Rubber EPDM	-
All O-Ring Seals	Rubber EPDM	-

### Actuator

FUNCTION	VOLTAGE	CONTROL INPUT	STEM FORCE	IP RATING
Equal Percentage Modulating (Settable to Linear response if required)	24VAC	0 to 10V 0 to 5V 5 to 10V 0 to 20mA 4 to 20mA	500N	IP54

### Dimensions & Weights

FIG. NO SIZE (DN)		D991 DN40	D991 DN50
A	mm	137.1	161.4
B	mm	136.7	141.8
C	mm	134.9	143.5
D	mm	80.5	86.5
E	mm	100.5	100.5
Valve weight	kg	4.5	5.3
Actuator weight	kg	0.9	0.9
Flow Range	(l/s)	0.30 - 2.40	0.55 - 3.20

**PRESSURE RATING:** PN16

**OPERATING PRESSURE RANGE ACROSS VALVE (KPA):** 35 - 400 (DN40 & DN50)

**END CONNECTIONS:** BSP Female Taper to BS EN 10226

**OPERATOR:** Actuator

**MEDIUM:** Group 2 Liquids

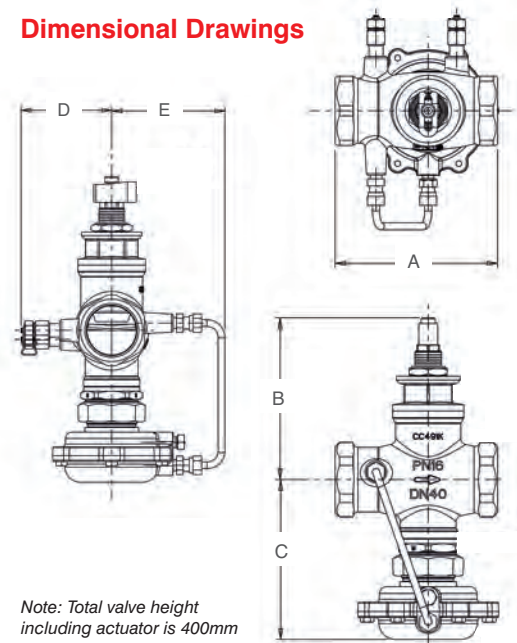
**SPARES:** Locking cap (for commissioning)



D991

BALANCING VALVES

### Dimensional Drawings



Note: Total valve height including actuator is 400mm

### Pressure/Temperature Ratings

TEMPERATURE (°C)	-10 to 100°C
PRESSURE (BAR)	16

**SPECIFICATION:** The PICV shall have a constant control characteristic at all flow settings and control flow rates at differential pressures up to 400 kPa. Flow rates will be externally adjustable, and set point recordable. Integral test points will be fitted to verify setting pressure allowing pumps to be set at optimum speed to maximise energy savings. Shall be manufactured from Bronze, with Stainless Steel springs, and an EPDM diaphragm. Shall be rated to PN16 and operate at temperatures to 100°C. As Crane Fig. D991.