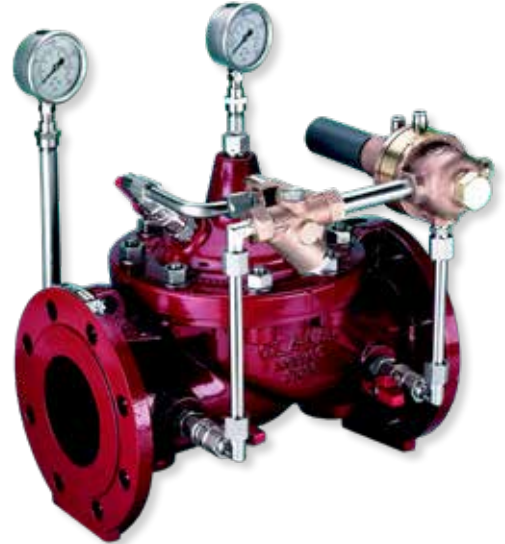


## FlowCon DPCV (by Cla-Val)

*Differential Pressure Control Valve  
DN150-600 / 6"-24"*



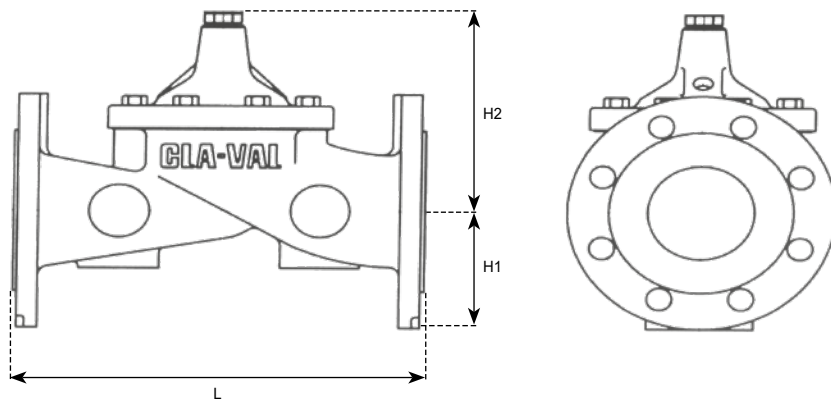
### SPECIFICATIONS

Static pressure:	1600 kPa / 230 psi
Media temperature:	-40°C to +121°C / -40°F to +250°C
Materials:	
- Housing:	Ductile Iron ASTM A536
- Stem, nut and spring:	Stainless steel
- Disc:	EPDM
- Diaphragm:	Nylon-reinforced EPDM
Maximum close off pressure:	800 kPa / 120 psi
Maximum operational $\Delta P$ :	400 kPaD / 58 psid
Controlled $\Delta P$ :	20-100 kPaD / 2.9-14.5 psid
End connections:	Double flange connection

## DIMENSIONS AND WEIGHT (NOMINAL) (measured in mm unless noted)

Model no.	Valve size	Valve size (")	L	H1	H2	Weight (kgs.)	Kv <sup>1</sup> (m <sup>3</sup> /hr)
<b>F40-111.xxx</b>	150	6	480	143	410	70	209
	200	8	600	170	490	120	479
	250	10	730	200	590	190	799
	300	12	850	2228	730	350	1290
	350	14	980	260	850	540	1640
	400	16	1100	290	850	620	1790
	450	18	1200	325	850	650	2070
	500	20	1250	370	1030	980	3050
	600	24	1450	430	1030	1080	3220

Note 1: The flow coefficient (Kv) expressed as m<sup>3</sup>/hr is the flow (water temp: at 20°C) which produces 1 bar pressure drop across the wide open valve.



## MODEL NUMBER SELECTION

**F40-111.** \_\_\_\_\_

Insert valve size  
**150**=DN150, 6"    **200**=DN200, 8"    **250**=DN250, 10"    **300**=DN300, 12"  
**350**=DN350, 14"    **400**=DN400, 16"    **450**=DN450, 18"    **500**=DN500, 20"  
**600**=DN600, 24"

Example: F40-111.200=FlowCon DPCV (by Cla-Val), PN16, DN200 (8").

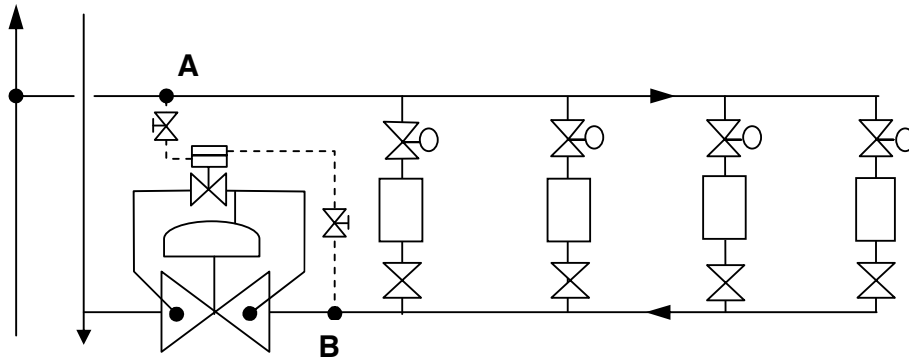
## GENERAL DESCRIPTION

The differential pressure across the sub-circuit is maintained essentially constant irrespective of changes in flow rate or mains pressure.

This ensures that :

- The required flow rate though the sub-circuit cannot be exceeded despite mains pressure changes.
- The sub-circuit TRVs or fan coil controls are protected from excess mains pressure, against which they may not be capable of closing-off. Noise generation across the controls will also be reduced.
- Provided the radiator lock-shield valves or fan-coil regulating valves are adjusted so that the headloss for each individual circuit from A to B (see application next page) is the same i.e the value being controlled by the DP controller, the flow rate for each individual radiator or fan-coil cannot be exceeded. Each individual unit is therefore automatically balanced.

## APPLICATION AND SCHEMATIC EXAMPLE



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