

# EasyLogic™ VP227R

## Pressure Independent Balance & Control Valve (PIBCV)

The EasyLogic VP227R is an internally threaded pressure independent valve (PIBCV).

### Regulatory Compliance and Safety Information

All pressurized equipment and electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

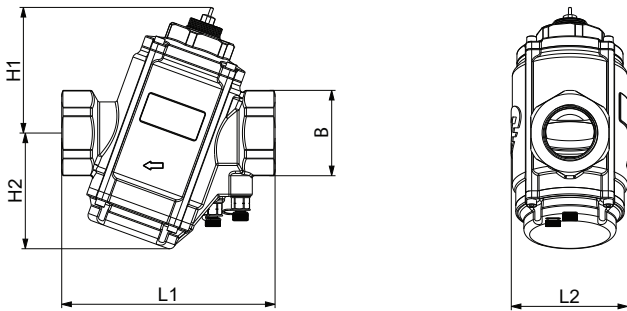
Carefully read these instructions and all information relevant to this product before trying to install it.

The technical literature and declarations of conformity can be accessed by searching for the part number on the Schneider Electric website, [www.se.com](http://www.se.com). Contact your local Schneider Electric sales office for a hard copy of the documentation or for additional information.

### Part Numbers

Product	Part Number	Actuator
DN40 (1 1/2")	VP227R40CQS	MP525E24MP
DN50 (2")	VP227R50CQS	MP525EER24MP

### Dimensions



Type	Size	L1	L2	B	H1	H2	H3	Valve weight (kg)
VP227R40CQS	DN40	185	104	74	109	100	-	3.960
VP227R50CQS	DN50	185	104	74	109	100	-	3.585

### Mounting position and Flow Direction

Prior to installing the VP227R, the system should be properly flushed.

The desired flow rate is hereafter set by turning the valve flow setting knob clockwise down to the desired setting scale.

### NOTICE

#### RISK OF EQUIPMENT DAMAGE

Tighten the actuator by hand only. Do not apply excessive torque to the flow setting knob, as this may cause damage.

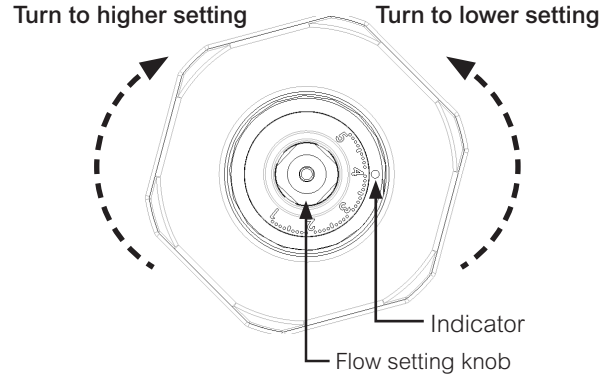
Failure to follow these instructions can result in equipment damage.

### Range is between 1.0 and 5.0. Do not overturn!

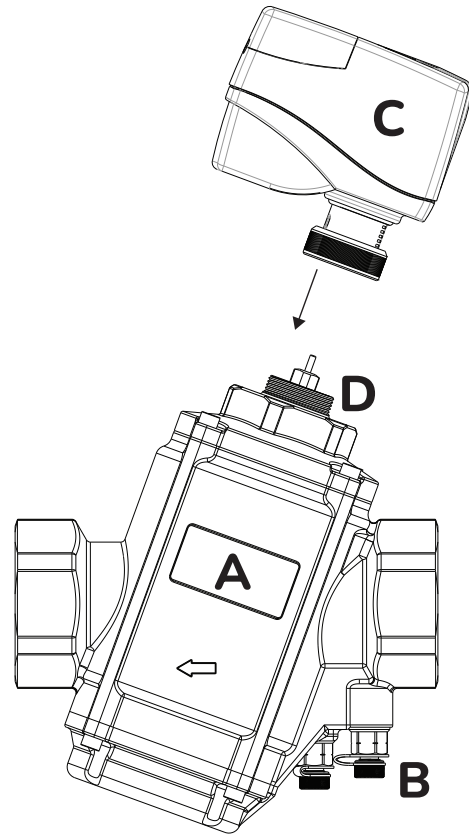
The scale setting is located on top of the valve, and the position is defined by an indication mark on top of the housing. Once the flow is set using the knob, the required actuator may be mounted and commissioned. If the hydronic system requires the valve to be open for filling and dosing, draining, etc., then the actuator should be driven, manually or electronically, to

open the valve fully. Refer to specific installation instructions for the selected actuator.

Note: The valve is fully open when its stem is extended. Pushing down on the stem closes the valve.



### General Assembly Drawing



- A: VP227R40CQS or VP227R50CQS valve
- B: T/P plugs (2 pcs.)
- C: Actuator (version shown MP525E24MP)
- D: Flow setting knob

### NOTICE

#### RISK OF IMPAIRED PERFORMANCE

- The flow must be set on PIBCV valves before the actuator is mounted.
- Do not power up the actuator before it is mounted on the valve.
- Ensure the valve is installed in the correct direction of the medium flow.

Failure to follow these instructions can result in impaired device performance.

## Flow Rates



A setting of 3.4 corresponds to a maximum flow rate of:  
 VP227R40CQS/VP227R50CQS: 2.8636 l/sec

	Flow Setting	VP227R40CQS – DN40 (1 ½") 28-600 kPaD 4.06-87 psid psid		VP227R50CQS – DN50 (2") 28-600 kPaD 4.06-87 psid psid	
		l/sec	l/hr	l/sec	l/hr
		Nominal Flow Rate	1	0.5556	2000
1.1	0.6592		2373	0.6592	2373
1.2	0.7628		2746	0.7628	2746
1.3	0.8664		3119	0.8664	3119
1.4	0.9697		3491	0.9697	3491
1.5	1.0731		3863	1.0731	3863
1.6	1.1764		4235	1.1764	4235
1.7	1.2789		4604	1.2789	4604
1.8	1.3808		4971	1.3808	4971
1.9	1.4825		5337	1.4825	5337
2	1.5831		5699	1.5831	5699
2.1	1.6833		6060	1.6833	6060
2.2	1.7822		6416	1.7822	6416
2.3	1.8806		6770	1.8806	6770
2.4	1.9772		7118	1.9772	7118
2.5	2.0731		7463	2.0731	7463
2.6	2.1672		7802	2.1672	7802
2.7	2.2603		8137	2.2603	8137
2.8	2.3519		8467	2.3519	8467
2.9	2.4419		8791	2.4419	8791
3	2.5300		9108	2.5300	9108
3.1	2.6164		9419	2.6164	9419
3.2	2.7008		9723	2.7008	9723
3.3	2.7831		10019	2.7831	10019
3.4	2.8636		10309	2.8636	10309
3.5	2.9417		10590	2.9417	10590
3.6	3.0175		10863	3.0175	10863
3.7	3.0906		11126	3.0906	11126
3.8	3.1614		11381	3.1614	11381
3.9	3.2297		11627	3.2297	11627
4	3.2953	11863	3.2953	11863	
4.1	3.3578	12088	3.3578	12088	
4.2	3.4175	12303	3.4175	12303	
4.3	3.4742	12507	3.4742	12507	
4.4	3.5275	12699	3.5275	12699	
4.5	3.5781	12881	3.5781	12881	
4.6	3.6250	13050	3.6250	13050	
4.7	3.6686	13207	3.6686	13207	
4.8	3.7086	13351	3.7086	13351	
4.9	3.7450	13482	3.7450	13482	
5	3.7778	13600	3.7778	13600	

Accuracy: Greatest of either  $\pm 10\%$  of controlled flow rate or  $\pm 5\%$  of maximum flow rate.

**Note:** If used in a pressure range  $>400$  kPaD (58 psid), the accuracy will be 'Greatest of either  $-20\%$  to  $0\%$  of controlled flow rate or  $\pm 5\%$  of maximum flow rate'.