

# EasyLogic™ VP225R

## Pressure Independent Balance & Control Valve (PIBCV)

The EasyLogic VP225R is an internally threaded pressure independent valve (PIBCV).

### Regulatory Compliance and Safety Information

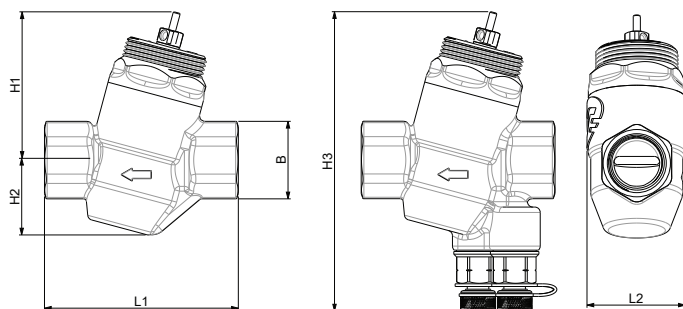
All pressurized equipment and electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

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	Without T/P Plugs	With T/P Plugs	Actuators
DN15 (½")	VP225R15BQSNT	VP225R15BQS	
DN20 (¾")	VP225R20BQSNT	VP225R20BQS	MP121E24M
DN20 (¾")	VP225R20BQHNT		MP150E24MP
DN25 (1")		VP225R25BQS	

### Dimensions



Type	Size	L1	L2	B	H1	H2	H3	Valve weight (kg)
VP225R15BQSNT	DN15	72	37	29	55	28	-	0.295
VP225R15BQS	DN15	72	41	29	55	-	111	0.42
VP225R20BQSNT	DN20	76	37	36	55	28	-	0.34
VP225R20BQHNT	DN20	76	37	36	55	28	-	0.34
VP225R20BQS	DN20	76	41	36	55	-	112	0.465
VP225R25BQS	DN25	85	44	46	55	-	114	0.595

### Setting and Installation

Prior to installing the VP225R, 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

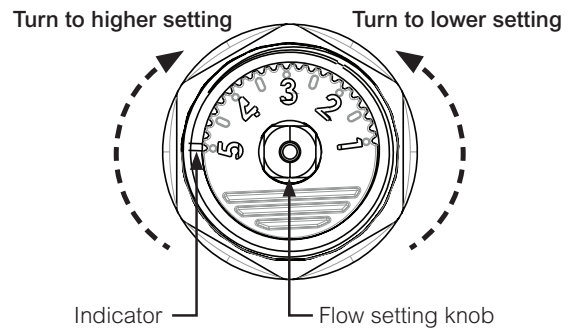
Tighten the actuator by hand only. Do not apply excessive torque to the flow setting knob, as this may cause damage.

**Failure to follow these instructions can result in equipment damage.**

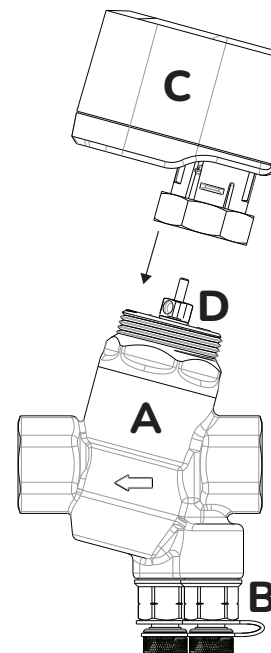
### Range is between 1.0 and 5.0. Do not overturn!

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.



### Installing the Actuator



- A: VP225R15BQS valve
- B: T/P plugs (2 pcs., factory fitted)
- C: Actuator (version shown MP121E24M)
- D: Flow setting knob

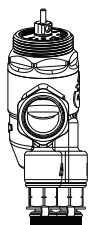
#### NOTICE

##### 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:

- VP225R15BQSNT/VP225R15BQS: 0.0764 l/sec
- VP225R20BQSNT/VP225R20BQS: 0.1939 l/sec
- VP225R20BQHNT/VP225R25BQS: 0.3211 l/sec

Flow Setting	VP225R15BQSNT – DN15 (1/2") 14-600 kPaD 2.03-87 psid		VP225R20BQSNT – DN20 (3/4") 20-600 kPaD 2.9-87 psid		VP225R25BQS – DN25 (1") / VP225R20BQHNT – DN20 (3/4") 42-600 kPaD 6.09-87 psid	
	l/sec	l/hr	l/sec	l/hr	l/sec	l/hr
1	0.0097	35	0.0306	110	0.0431	155
1.1	0.0106	38	0.0461	166	0.0678	244
1.2	0.0114	41	0.0600	216	0.0903	325
1.3	0.0122	44	0.0722	260	0.1106	398
1.4	0.0133	48	0.0836	301	0.1292	465
1.5	0.0144	52	0.0933	336	0.1458	525
1.6	0.0158	57	0.1025	369	0.1611	580
1.7	0.0172	62	0.1108	399	0.1753	631
1.8	0.0192	69	0.1183	426	0.1878	676
1.9	0.0211	76	0.1250	450	0.1997	719
2	0.0233	84	0.1314	473	0.2103	757
2.1	0.0258	93	0.1369	493	0.2203	793
2.2	0.0283	102	0.1419	511	0.2294	826
2.3	0.0311	112	0.1469	529	0.2381	857
2.4	0.0344	124	0.1517	546	0.2461	886
2.5	0.0378	136	0.1561	562	0.2542	915
2.6	0.0414	149	0.1606	578	0.2619	943
2.7	0.0453	163	0.1647	593	0.2689	968
2.8	0.0492	177	0.1683	606	0.2764	995
2.9	0.0533	192	0.1725	621	0.2836	1021
3	0.0578	208	0.1767	636	0.2908	1047
3.1	0.0622	224	0.1808	651	0.2983	1074
3.2	0.0669	241	0.1853	667	0.3058	1101
3.3	0.0717	258	0.1897	683	0.3131	1127
3.4	0.0764	275	0.1939	698	0.3211	1156
3.5	0.0817	294	0.1986	715	0.3292	1185
3.6	0.0867	312	0.2033	732	0.3372	1214
3.7	0.0919	331	0.2083	750	0.3458	1245
3.8	0.0972	350	0.2133	768	0.3544	1276
3.9	0.1022	368	0.2183	786	0.3633	1308
4	0.1072	386	0.2239	806	0.3725	1341
4.1	0.1119	403	0.2292	825	0.3819	1375
4.2	0.1169	421	0.2347	845	0.3914	1409
4.3	0.1214	437	0.2400	864	0.4011	1444
4.4	0.1258	453	0.2456	884	0.4108	1479
4.5	0.1303	469	0.2511	904	0.4203	1513
4.6	0.1342	483	0.2567	924	0.4303	1549
4.7	0.1375	495	0.2619	943	0.4397	1583
4.8	0.1408	507	0.2667	960	0.4492	1617
4.9	0.1436	517	0.2717	978	0.4583	1650
5	0.1458	525	0.2764	995	0.4681	1685

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'.