

Fig. KBP25

PICV – Pressure Independent Control Valve Supplied with Test Points PN25

Specification

- Forged Brass body
- Pressure Rating: PN25
- Medium Temperature -20 to 120°C
- EPDM O-Ring
- EPDM Diaphragm
- PPS Cone
- Stainless Steel metal components (internal)
- Female threaded ends connection to ISO
- Brass test points
- Available with On/Off or Modulating Actuator
- Standard Actuator details:
 - On/Off option with Thermal Actuator
 - Modulating Option with Motoric Actuator



Dimensions:

DN	H1 (mm)	H2 (On/Off) (mm)	H2 (Modulating) (mm)	L (mm)	Insert Size (mm)	Flow Rate Range (L/h)
15	31	116	124	81	20	Up to 1110
20	31	116	124	85	20	Up to 1110
25	31	116	124	102	20	Up to 2650

Notes:

- The valve needs to be installed so that the flow passes in the proper direction through the valve.
- The valve has to be installed upright.
- The insert of the PICV should only be installed with clean water in the system (i.e. after all the flushing).
- The diaphragm insert is sensitive and any impurities can damage it.
- Install the actuator after the pipeline pressure test.

Technical Notes:

- Maximum close-off pressure: 8 bar (800 kPa)
- Differential pressure range: 30-800 kPa for DN15-20
35-800 kPa for DN25
- Accuracy: Greatest of either +/-10% of controlled flow rate or +/-5% of maximum flow rate
- Shut-off Leakage: IEC 60534-4 Class IV
- Control characteristic: Valve alone is linear, however when used with the standard modulating actuator, the combination of the valve with modulating actuator can be set to equal percentage or kept linear.

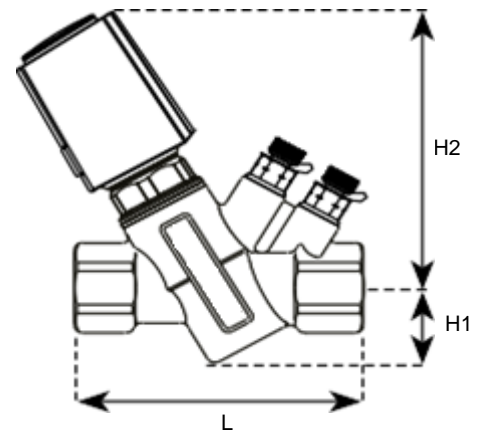


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Valve Pre-Setting Value – DN15 (30 – 800 kPa)				
S No.	Valve Opening	Flow Rate		
	Setting	(l/s)	(l/h)	(GPM)
1	1.0	0.0178	64	0.282
2	1.1	0.0393	142	0.624
3	1.2	0.0580	209	0.920
4	1.3	0.0743	268	1.180
5	1.4	0.0887	319	1.41
6	1.5	0.102	366	1.61
7	1.6	0.113	408	1.80
8	1.7	0.124	446	1.96
9	1.8	0.134	482	2.12
10	1.9	0.143	516	2.27
11	2.0	0.152	549	2.42
12	2.1	0.161	580	2.56
13	2.2	0.170	611	2.69
14	2.3	0.178	641	2.82
15	2.4	0.186	671	2.95
16	2.5	0.194	700	3.08
17	2.6	0.202	728	3.21
18	2.7	0.210	756	3.33
19	2.8	0.218	783	3.45
20	2.9	0.225	810	3.56
21	3.0	0.232	835	3.68
22	3.1	0.239	860	3.79
23	3.2	0.245	883	3.89
24	3.3	0.252	906	3.99
25	3.4	0.257	927	4.08
26	3.5	0.263	946	4.17
27	3.6	0.268	965	4.25
28	3.7	0.273	982	4.32
29	3.8	0.277	998	4.39
30	3.9	0.281	1010	4.46
31	4.0	0.285	1020	4.51
32	4.1	0.288	1040	4.57
33	4.2	0.291	1050	4.61
34	4.3	0.294	1060	4.66
35	4.4	0.296	1070	4.70
36	4.5	0.299	1080	4.73
37	4.6	0.301	1080	4.77
38	4.7	0.303	1090	4.80
39	4.8	0.305	1100	4.83
40	4.9	0.307	1100	4.86
41	5.0	0.308	1110	4.89

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Valve Pre-Setting Value – DN20 (30 – 800 kPa)				
S No.	Valve Opening	Flow Rate		
	Setting	(l/s)	(l/h)	(GPM)
1	1.0	0.0178	64	0.282
2	1.1	0.0393	142	0.624
3	1.2	0.0580	209	0.920
4	1.3	0.0743	268	1.180
5	1.4	0.0887	319	1.41
6	1.5	0.102	366	1.61
7	1.6	0.113	408	1.80
8	1.7	0.124	446	1.96
9	1.8	0.134	482	2.12
10	1.9	0.143	516	2.27
11	2.0	0.152	549	2.42
12	2.1	0.161	580	2.56
13	2.2	0.170	611	2.69
14	2.3	0.178	641	2.82
15	2.4	0.186	671	2.95
16	2.5	0.194	700	3.08
17	2.6	0.202	728	3.21
18	2.7	0.210	756	3.33
19	2.8	0.218	783	3.45
20	2.9	0.225	810	3.56
21	3.0	0.232	835	3.68
22	3.1	0.239	860	3.79
23	3.2	0.245	883	3.89
24	3.3	0.252	906	3.99
25	3.4	0.257	927	4.08
26	3.5	0.263	946	4.17
27	3.6	0.268	965	4.25
28	3.7	0.273	982	4.32
29	3.8	0.277	998	4.39
30	3.9	0.281	1010	4.46
31	4.0	0.285	1020	4.51
32	4.1	0.288	1040	4.57
33	4.2	0.291	1050	4.61
34	4.3	0.294	1060	4.66
35	4.4	0.296	1070	4.70
36	4.5	0.299	1080	4.73
37	4.6	0.301	1080	4.77
38	4.7	0.303	1090	4.80
39	4.8	0.305	1100	4.83
40	4.9	0.307	1100	4.86
41	5.0	0.308	1110	4.89

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Valve Pre-Setting Value – DN25 (35 – 800 kPa)				
S No.	Valve Opening	Flow Rate		
	Setting	(l/s)	(l/h)	(GPM)
1	1.0	-	-	-
2	1.1	-	-	-
3	1.2	-	-	-
4	1.3	-	-	-
5	1.4	-	-	-
6	1.5	0.172	620	2.73
7	1.6	0.200	720	3.17
8	1.7	0.228	820	3.61
9	1.8	0.258	930	4.10
10	1.9	0.294	1060	4.67
11	2.0	0.325	1170	5.15
12	2.1	0.350	1260	5.55
13	2.2	0.375	1350	5.95
14	2.3	0.396	1430	6.28
15	2.4	0.417	1500	6.61
16	2.5	0.439	1580	6.96
17	2.6	0.458	1650	7.27
18	2.7	0.481	1730	7.62
19	2.8	0.500	1800	7.93
20	2.9	0.522	1880	8.28
21	3.0	0.542	1950	8.59
22	3.1	0.550	1980	8.72
23	3.2	0.558	2010	8.85
24	3.3	0.567	2040	8.99
25	3.4	0.575	2070	9.12
26	3.5	0.583	2100	9.25
27	3.6	0.597	2150	9.47
28	3.7	0.611	2200	9.69
29	3.8	0.625	2250	9.91
30	3.9	0.639	2300	10.1
31	4.0	0.653	2350	10.4
32	4.1	0.661	2380	10.5
33	4.2	0.669	2410	10.6
34	4.3	0.678	2440	10.7
35	4.4	0.686	2470	10.9
36	4.5	0.694	2500	11.0
37	4.6	0.703	2530	11.1
38	4.7	0.711	2560	11.3
39	4.8	0.719	2590	11.4
40	4.9	0.728	2620	11.5
41	5.0	0.736	2650	11.7