9700 series

DZR Brass Pressure Independent Control Valve (PICV)







DIMENSIONS

DN	G	GB ¹	L ² [mm]	LB ¹ [mm]	HA [mm]	HP ² [mm]	HB [mm]	W [mm]	ØV [mm]	Weight ³ [g]	Flow [l/s]
L 015	3⁄4"	1⁄2"	78,6/76,6	131,6	38,9	60,9/54,0	62,1	43,0	40	380/420/410	0,008-0,039
015	³ ⁄4"		78,6/76,6	131,6	38,9	60,9/54,0	62,1	43,0	40	380/420/410	0,030-0,150
020	1"	3⁄4"	92,0/94,0	160,0	47,4	69,4/57,0	62,0	52,0	40	570/600/605	0,062-0,311
025	1¼"	1"	115,0/133,0	192,0	56,2	78,2/60,0	75,3	59,4	40	1100/1130/1059	0,120-0,600
032	1½"	1¼"	140,0/152,0	225,0	78,0	91,6/79,0	76,0	81,5	40	1960/2015/2125	0,200-1,000

¹With VIR optional M threaded (ISO 7/1 R) unions

²M-M version / F-F version

 $^3\ensuremath{\text{M-M}}$ without test points / $\ensuremath{\text{M-M}}$ with test points / $\ensuremath{\text{F-F}}$ version; unions not included



0,20

0,15

DN15

Min ∆P

[kPa]

36

PRESETTING

Presetting allows to define the maximum flow that will be kept constant (by means of dynamic balancing) while the valve is used in fully open condition in its working differential pressure range.

Presetting determines also the minimum working differential pressure of the valve.



The flow regulating group has the authority on all its full linear stroke. By using a modulating actuator, this allows to maintain proportionality between the control signal and the actual output flow.

In the example, for a maximum flow of 0,12l/s a presetting of 8 is determined on a DN15 valve. The valve will start to operate at a ΔP of 34kPa. This flow is then modulated with a 0-10V VIR modulating actuator set as "reverse acting". It's however possible to set the actuator as "direct acting", therefore inverting the correspondence between the flow and the signal (please refer to the technical sheet of the actuator).



It's possible to preset the valve by operating directly on the graduated scale, without the need for any additional tool:

- a) push down the graduated scale
- b) rotate the scale until the desired value aligns with the mark on the bonnet
- c) release the graduated scale, this will automatically lock in the preset position





L-DN15	Flo	$\Delta \mathbf{P}$ min.	
Preset.	[l/s]	[l/h]	[kPa]
2	0,008	28	20
3	0,012	42	21
4	0,016	56	22
5	0,019	70	23
6	0,023	84	24
7	0,027	98	25
8	0,031	112	26
9	0,035	126	27
10	0,039	140	28



Drawings, photos and data contained in this card are provided for information only. VIR reserves the right to change them without notice.



DN15	Flo	$\Delta \mathbf{P}$ min.	
Preset.	[l/s]	[l/h]	[kPa]
2	0,030	108	24
3	0,045	162	25
4	0,060	216	26
5	0,075	270	28
6	0,090	324	30
7	0,105	378	32
8	0,120	432	34
9	0,135	486	35
10	0,150	540	36



DN20	Flo	$\Delta \mathbf{P}$ min.	
Preset.	[l/s]	[l/h]	[kPa]
2	0,062	224	24
3	0,093	336	25
4	0,124	448	26
5	0,156	560	28
6	0,187	672	30
7	0,218	784	32
8	0,249	896	34
9	0,280	1008	35
10	0,311	1120	36





DN25	Flo	$\Delta \mathbf{P}$ min.	
Preset.	[l/s]	[l/h]	[kPa]
2	0,120	432	24
3	0,180	648	25
4	0,240	864	26
5	0,300	1080	28
6	0,360	1296	30
7	0,420	1512	32
8	0,480	1728	34
9	0,540	1944	35
10	0,600	2160	36

DN32	Flo	$\Delta \mathbf{P}$ min.	
Preset.	[l/s]	[l/h]	[kPa]
2	0,200	720	24
3	0,300	1080	25
4	0,400	1440	26
5	0,500	1800	28
6	0,600	2160	30
7	0,700	2520	32
8	0,800	2880	34
9	0,900	3240	35
10	1,000	3600	36

R Via Circonvallazione, 10 13018 Valduggia (VC), Italy Tel: +39 0163 47891 Fax: +39 0163 47895 www.vironline.com

Drawings, photos and data contained in this card are provided for information only. VIR reserves the right to change them without notice.