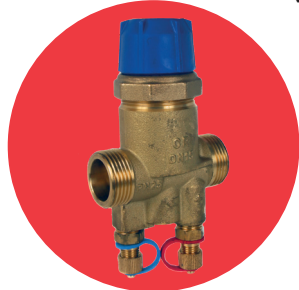


ART 20C (Compact) PN25 Pressure Independent Control Valve (PICV or PIBCV)



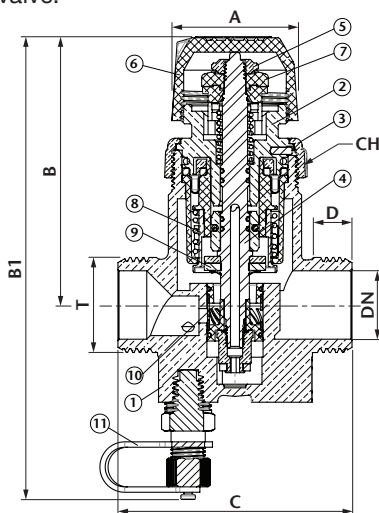
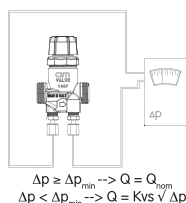
Features

- BSP Parallel (ISO 228/1)
- Easy flow rate selection using the pre-setting dial.
- Combines an externally adjustable automatic balancing valve with a differential pressure control valve providing 100% full authority regardless of fluctuating pressure conditions within the system.
- Capable of closing against a maximum differential pressure of 800kPa (8 bar)
- Automatic balancing eliminates overflows, regardless of fluctuating pressure conditions in the system.
- Compatible with actuators On/Off or 0-10V, (Linear or Logarithmic) or 3 point control.
- Valve is suitable for use with both ethylene or propylene based glycol mixture up to 50% dilution.
- No minimum straight motoric pipe lengths required before or after the valve.



Technical data

Max pressure: 25 Bar
Working temp: -10°C to +120°C
Max Differential Pressure: 8 Bar (800kPa)

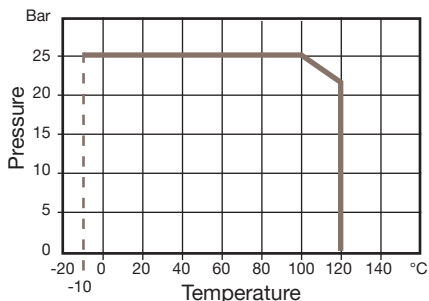


DN	10LF	10HF	15LF	15HF	20HF	25HF
A	35	35	35	35	35	35
B	75	75	75	75	85	83
B1	130	130	130	130	150	146
C	53	53	65	65	82	104
D	9	9	11	11	12	13
T	G.1/2"	G.1/2"	G.3/4"	G.3/4"	G.1"	G.1 1/4"
CH	39	39	39	39	39	39
Flow (l/s)	0.012-0.042	0.024-0.097	0.024-0.097	0.027-0.134	0.042-0.250	0.076-0.447
Min ΔP (kPa)	15-	13-	13-	12.5-19.5	18-	18-
Kvs	0.37	0.86	0.86	1.09	1.77	2.65
Kgs	0.45	0.45	0.49	0.49	0.79	0.96

ART 20C (Compact) PN25 Pressure Independent Control Valve (PICV or PIBCV)



N.	Part Name	Materials
1	Body	DZR Brass CW602N-M
2	Bonnet	DZR Brass CW602N-M
3	Fixing Ring	DZR Brass CW602N-M
4	Stem	Stainless Steel
5	Locking Nut	Brass
6	Plastic Cap	Plastic
7	Dial	Plastic
8	DPC Controller	DZR Brass CW602N-M
9	Gasket	EPDM
10	Regulator	DZR Brass CW602N-M
11	Binder	DZR Brass CW602N-M



DN	DN10 LF				DN10 HF			
	Flow Rate		Min.Δ kPa	Kvs	Flow Rate		Min.Δ kPa	Kvs
	Pre-Set	I/h			I/s	I/h		
1.0	43	0.012	15	0.11	86	0.024	13	0.24
1.2	47	0.013	15	0.12	102	0.028	13	0.28
1.4	55	0.015	15	0.14	122	0.034	13.5	0.33
1.6	63	0.018	15	0.16	143	0.040	13.5	0.39
1.8	72	0.020	15	0.18	172	0.048	14	0.46
2.0	79	0.022	15	0.20	194	0.054	14	0.52
2.2	85	0.024	15	0.22	217	0.060	14	0.58
2.4	90	0.025	15	0.23	232	0.064	14	0.62
2.6	93	0.026	15	0.24	238	0.066	14.5	0.62
2.8	96	0.027	15	0.24	254	0.071	14.5	0.67
3.0	99	0.027	16	0.25	259	0.072	14.5	0.68
3.2	101	0.028	16	0.25	266	0.074	14.5	0.70
3.4	104	0.029	16	0.26	280	0.078	15	0.72
3.6	108	0.030	16	0.27	281	0.078	15	0.73
3.8	113	0.031	16	0.28	288	0.080	15	0.74
4.0	119	0.033	16	0.30	294	0.082	15	0.76
4.2	126	0.035	16	0.31	298	0.083	15.5	0.76
4.4	133	0.037	16	0.33	300	0.083	15.5	0.76
4.6	140	0.039	16	0.35	304	0.084	15.5	0.77
4.8	146	0.040	16	0.36	314	0.087	16	0.78
5.0	150	0.042	16	0.37	347	0.097	16.5	0.86

ART 20C (Compact) PN25 Pressure Independent Control Valve (PICV or PIBCV)



DN	DN15 LF				DN15 HF			
	Flow Rate		Min.Δ kPa	Kvs	Flow Rate		Min.Δ kPa	Kvs
	Pre-Set	I/h			I/s	I/h		
1.0	86	0.024	13	0.24	96	0.027	12.5	0.27
1.2	102	0.028	13	0.28	112	0.031	12.5	0.32
1.4	122	0.034	13.5	0.33	135	0.037	12.5	0.38
1.6	143	0.040	13.5	0.39	155	0.043	13	0.43
1.8	172	0.048	14	0.46	179	0.050	13	0.50
2.0	194	0.054	14	0.52	192	0.053	13	0.53
2.2	217	0.060	14	0.58	210	0.058	13	0.58
2.4	232	0.064	14	0.62	234	0.065	13.5	0.64
2.6	238	0.066	14.5	0.62	235	0.065	13.5	0.64
2.8	254	0.071	14.5	0.67	260	0.072	14	0.69
3.0	259	0.072	14.5	0.68	261	0.072	14	0.70
3.2	266	0.074	14.5	0.70	262	0.073	14	0.70
3.4	280	0.078	15	0.72	271	0.075	15	0.70
3.6	281	0.078	15	0.73	284	0.079	16	0.71
3.8	288	0.080	15	0.74	318	0.088	17	0.77
4.0	294	0.082	15	0.76	343	0.095	17.5	0.82
4.2	298	0.083	115.5	0.76	409	0.114	18	0.96
4.4	300	0.083	15.5	0.76	440	0.122	18.5	1.02
4.6	304	0.084	15.5	0.77	456	0.127	19	1.05
4.8	314	0.087	16	0.78	476	0.132	19.5	1.08
5.0	347	0.097	16.5	0.86	483	0.134	19.5	1.09

DN	DN20 HF				DN25 HF			
	Flow Rate		Min.Δ kPa	Kvs	Flow Rate		Min.Δ kPa	Kvs
	Pre-Set	I/h			I/s	I/h		
1.0	150	0.042	18	0.35	272	0.076	18	0.64
1.2	200	0.056	18	0.47	352	0.098	18	0.83
1.4	244	0.068	18.5	0.57	400	0.111	19	0.92
1.6	259	0.072	18.5	0.60	428	0.119	19	0.98
1.8	273	0.076	19	0.63	490	0.136	20	1.10
2.0	315	0.088	19	0.72	592	0.164	20	1.32
2.2	350	0.097	19	0.80	645	0.179	21	1.41
2.4	370	0.103	19	0.85	700	0.194	22	1.49
2.6	380	0.106	19	0.87	740	0.206	23	1.54
2.8	390	0.108	19	0.89	770	0.214	24	1.57
3.0	425	0.118	19	0.98	882	0.245	25	1.76
3.2	456	0.127	20	1.02	920	0.256	25	1.84
3.4	475	0.132	20	1.06	950	0.264	26	1.86
3.6	502	0.139	21	1.10	1046	0.291	26	2.05
3.8	545	0.151	21	1.19	1160	0.322	27	2.23
4.0	590	0.164	23	1.23	1200	0.333	27	2.31
4.2	610	0.169	23	1.27	1260	0.350	28	2.38
4.4	690	0.192	24	1.41	1345	0.374	31	2.42
4.6	812	0.226	25	1.62	1400	0.389	32	2.47
4.8	885	0.246	26	1.74	1540	0.428	35	2.60
5.0	900	0.250	26	1.77	1610	0.447	37	2.65