

EasyLink80 PICV

H Block complete with PICV



Technical data

Max pressure: 25 Bar

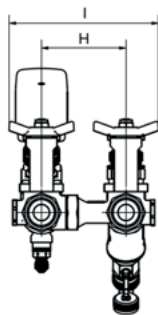
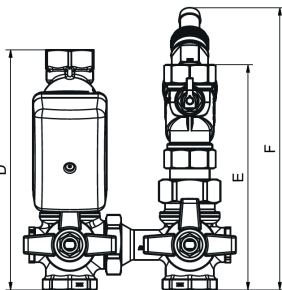
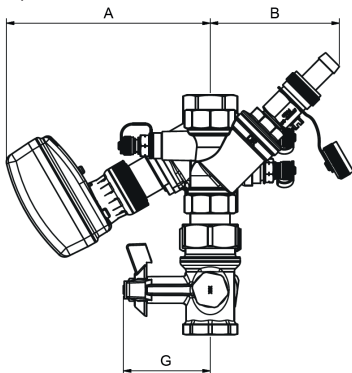
Max Differential pressure:
800kPa (8 Bar)

Working temp: 0°C to +120°C

When used at temperatures below 0°C, a stem heater must be used to prevent ice forming on the spindle (details on page 5).

Features

- Screwed BSP Parallel (ISO 228/1)
- Fitted with PICV and Strainer (mesh filter - hole size: 0.5mm)
- Suitable for heating and cooling applications at 80mm centres
- Integrated union joints for easy valve alignment
- Extended Tee handle isolation valves for flow, return and bypass
- PT plugs across the PICV to measure DP
- PT plug on the flow side for measuring the DP across the terminal unit
- BS EN 12266 for pressure and shell testing
- BSRIA BTS 1/2019 standard for PICV performance
- BS 7350: 2025 for flow measuring devices for heating and chilled water systems
- Standard right-hand configuration (left-hand versions available upon request)
- Valve is suitable for use with both ethylene or propylene based glycol mixture up to 50% dilution



DN	DN15	DN20	DN25L
A	136	136	154
B	66	78	84
D	180	185	206
E	161	170	184
F	186	195	209
G	88	88	88
H	80	80	80
I	141	141	144

Part Name	Material
Body	DZR Brass CW602N
O-Rings	EPDM
Filter Mesh	Stainless Steel

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Right hand version

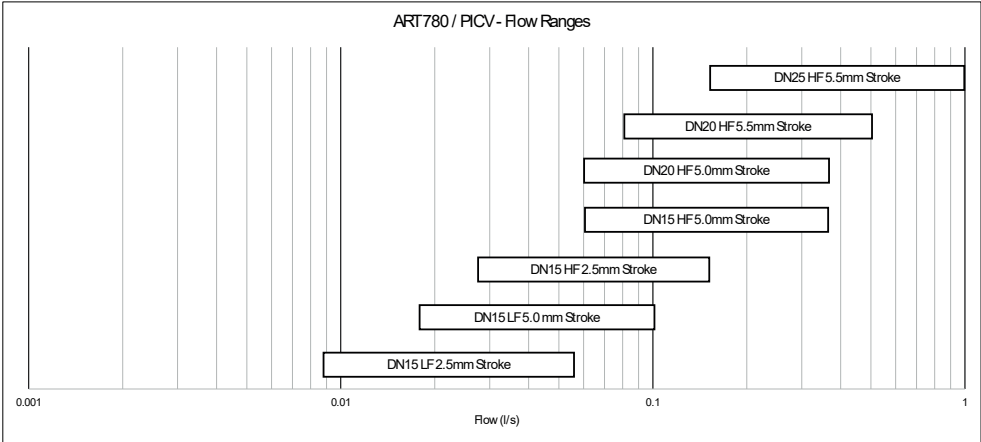


Left hand version

PICV's Available - Flow Data

		DN15		DN15	DN15/DN20	DN20	DN25L
Type		Low		High	High	High	High
Stroke	mm	2.5	5.0	2.5	5.0	5.5	5.5
Flow	l/h	30-200	65-370	100-575	220-1,330	300-1,800	600-3,609
	l/s	0.008-0.056	0.018-0.103	0.028-0.160	0.061-0.369	0.083-0.500	0.167-1.003*

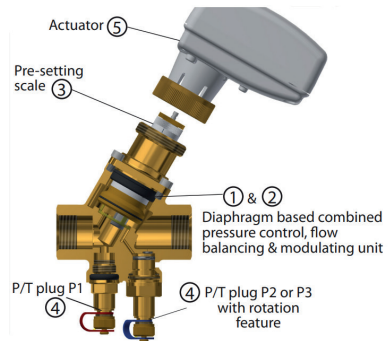
*Flows above 0.603l/s will generate a signal higher than 5kPa.



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1. Differential pressure control
2. Modulating control component
3. Presetting scale (not accessible when the actuator is mounted)
 - a. Flow range: Low-High
 - b. Stroke: 2.5 - 5.0 - 5.5mm
4. P/T Plugs
5. Actuator



Needles for DP measurement: Max diameter, Ø3.2mm
Length 25-40mm

Operating Pressure

The EasyLink80 PICV can operate to a maximum differential pressure of 800kPa (8 bar).

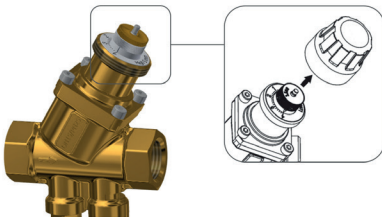
Close Off Pressure

The EasyLink is capable of closing against the following differential pressures to EN 1349 Class IV:

DN10 to DN25: 600kPa (6 Bar) - based on 100N actuator force
DN10 to DN25: 800kPa (8 Bar) - based on 160N actuator force
DN25L to DN32: 800kPa (8 Bar) - based on 100N actuator force

Isolation

When fitted with the isolation cap the EasyLink is capable of isolation to 10 bar.



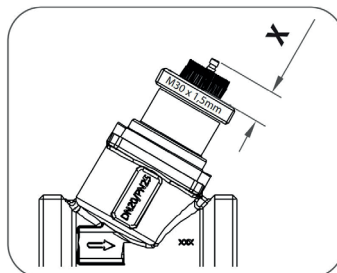
Actuator Requirements: DN10-DN32

Dimension 'X' in closed position:

- 2.5mm stroke = 11.4mm
- 5.0mm stroke = 9.3mm
- 5.5mm stroke = 8.8mm

Actuator minimum force: 100N

Actuator connection: M30 x 1.5mm

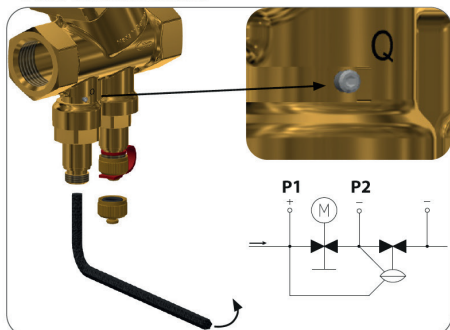


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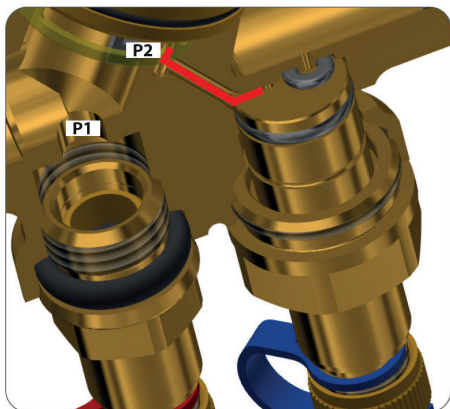


Flow measurement



To measure the flow, insert a 4mm hexagonal key in the blue P/T plug and turn clockwise until the indicator reaches the end stop marked **Q**.

Place the manometer connection needles in the red and blue P/T plugs.

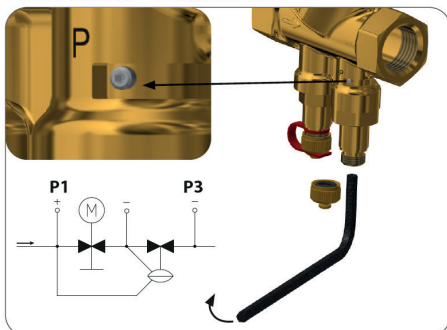


Now the manometer measures the differential pressure (P1-P2) across the KV presetting and the flow can be calculated by the formulas below.

Flow Calculation

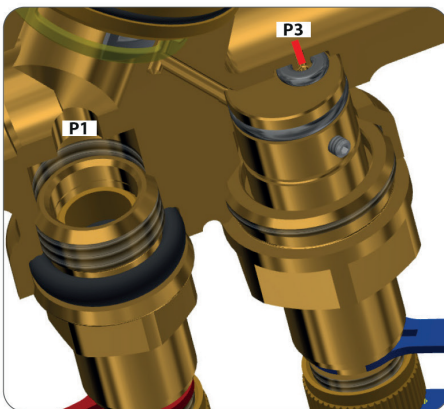
$Q = K_v \cdot \sqrt{\Delta p}$	$Q = \text{m}^3/\text{h}$ $\Delta p = \text{Bar}$
$Q = K_v \cdot 100 \cdot \sqrt{\Delta p}$	$Q = \text{l/h}$ $\Delta p = \text{kPa}$
$Q = \frac{K_v}{36} \cdot \sqrt{\Delta p}$	$Q = \text{l/s}$ $\Delta p = \text{kPa}$

Minimum ΔP measurement



To measure the minimum differential pressure, insert a 4mm hexagonal key in the blue P/T plug and turn anticlockwise until the indicator reaches the end stop marked **P**.

Place the manometer connection needles in the red and blue P/T plugs.



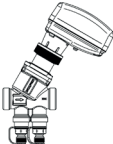
Now the manometer measures the differential pressure (P1-P2) across the total valve and the pump pressure can be optimised for pump energy saving.

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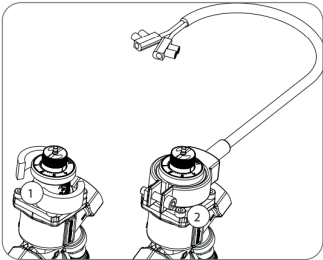
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Optional Extras

	Motoric actuator	See separate datasheet for further details	
	Thermic actuator	See separate datasheet for further details	
	Insulation Jacket	Type	Dimension
		Right	DN15 DN20
		Left	
		Right	DN25L
		Left	
	Stem Heater	Type	Suitable for actuators
		24 V AC/DC, 10W Directly mounted on to the valve neck before installing the actuator.	C21V, C23E, C22V

- Actuator Type C21V, C23E, C22V
- Place the two half arc spacers (1) around the valve neck
- Mount the stem heater (2) over the half arc spacers and tighten it securely
- The actuator can be mounted on the valve



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Valve Size	Low 2.5 - DN15			
Pre-set	Flow l/h	Flow l/s	Min.Δp kPa	KV-signal
0.5	30	0.008	14	0.121
0.6	35	0.010	14	0.124
0.8	45	0.012	14	0.136
1.0	54	0.015	14	0.153
1.2	64	0.018	15	0.174
1.4	74	0.020	15	0.198
1.6	83	0.023	15	0.224
1.8	93	0.026	15	0.250
2.0	103	0.029	15	0.277
2.2	113	0.031	15	0.303
2.4	122	0.034	15	0.328
2.6	132	0.037	15	0.352
2.8	142	0.039	15	0.375
3.0	151	0.042	15	0.397
3.2	161	0.045	15	0.418
3.4	171	0.047	16	0.439
3.6	181	0.050	16	0.460
3.8	190	0.053	16	0.482
4.0	200	0.056	16	0.506

Low 5.0 - DN15			
Flow l/h	Flow l/s	Min.Δp kPa	KV-signal
65	0.018	15	0.134
83	0.023	15	0.184
101	0.028	15	0.231
119	0.033	15	0.275
137	0.038	15	0.317
155	0.043	15	0.357
173	0.048	16	0.397
191	0.053	16	0.436
209	0.058	16	0.475
226	0.063	16	0.515
244	0.068	16	0.555
262	0.073	16	0.595
280	0.078	16	0.636
298	0.083	17	0.677
316	0.088	17	0.718
334	0.093	17	0.760
352	0.098	17	0.800
370	0.103	17	0.839

Valve size	High 2.5 - DN15			
Pre-set	Flow l/h	Flow l/s	Min.Δp kPa	KV-signal
0.6	100	0.028	15	0.250
0.8	128	0.036	15	0.314
1.0	156	0.043	15	0.378
1.2	184	0.051	16	0.442
1.4	212	0.059	16	0.507
1.6	240	0.067	16	0.574
1.8	268	0.074	16	0.642
2.0	296	0.082	17	0.713
2.2	324	0.090	17	0.786
2.4	351	0.098	17	0.860
2.6	379	0.105	17	0.936
2.8	407	0.113	17	1.01
3.0	435	0.121	18	1.09
3.2	463	0.129	18	1.17
3.4	491	0.136	18	1.24
3.6	519	0.144	18	1.31
3.8	547	0.152	18	1.38
4.0	575	0.160	19	1.44

High 5.0 - DN15/DN20			
Flow l/h	Flow l/s	Min.Δp kPa	KV-signal
220	0.061	16	0.595
285	0.079	17	0.755
351	0.097	17	0.913
416	0.116	17	1.07
481	0.134	18	1.23
546	0.152	18	1.39
612	0.170	19	1.55
677	0.188	19	1.71
742	0.206	20	1.88
808	0.224	20	2.04
873	0.242	20	2.21
938	0.261	20	2.38
1004	0.279	21	2.55
1069	0.297	21	2.72
1134	0.315	21	2.88
1199	0.333	21	3.03
1265	0.351	21	3.18
1330	0.369	22	3.31

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Valve size	High 5.5 - DN20			
Pre-set	Flow l/h	Flow l/s	Min.Δp kPa	KV-signal
0.6	300	0.083	18	0.675
0.8	395	0.110	21	0.849
1.0	480	0.133	22	1.03
1.2	558	0.155	23	1.22
1.4	632	0.176	23	1.41
1.6	704	0.196	23	1.61
1.8	776	0.216	23	1.81
2.0	850	0.236	23	2.01
2.2	927	0.258	23	2.21
2.4	1008	0.280	24	2.41
2.6	1094	0.304	26	2.61
2.8	1185	0.329	27	2.80
3.0	1280	0.356	29	2.99
3.2	1380	0.383	32	3.17
3.4	1483	0.412	34	3.34
3.6	1589	0.441	37	3.51
3.8	1695	0.471	39	3.66
4.0	1800	0.500	40	3.80

High 5.5 - DN25L			
Flow l/h	Flow l/s	Min.Δp kPa	KV-signal
600	0.167	17	1.28
777	0.216	17	1.68
954	0.265	17	2.09
1131	0.314	18	2.49
1308	0.363	18	2.89
1485	0.413	18	3.27
1662	0.462	18	3.65
1839	0.511	18	4.01
2016	0.560	18	4.37
2193	0.609	18	4.72
2370	0.658	19	5.07
2547	0.708	19	5.42
2724	0.757	20	5.78
2901	0.806	20	6.16
3078	0.855	21	6.56
3255	0.904	21	7.00
3432	0.953	22	7.49
3609	1.003	23	8.03