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SpaceLogic PIBCV DN10...DN250

Pressure Independent Balancing and Control Valves







Product Description

The **SpaceLogic** PIBCV range is a comprehensive selection of automatic balancing and control valves that provide flow limitation with full control authority over hydronic regulation.

Automatic balancing within PIBCV valves provide stable flow regulation regardless of pressure fluctuations in the system and all valves have an adjustable flow limitation set point. The control valve portion of the PIBCV further regulates the media flow from close-off up to the maximum flow limit setting.

Typical applications are temperature control of chillers, airhandling units, heat exchanges and terminal units such as fan coils, induction units and radiant panels.

Features

- Reduced Energy Consumption
 - Pressure independence ensures no overflow of water/glycol through the valve. Limiting media flow to the design load of the coil has a significant effect on energy efficiency since systems operate for the majority of the time on a partial load where overflow occurs.
 - Overflow of media causes a degradation in ΔT at the heat exchanger. Uncontrolled overflow of media is an extremely wasteful and inefficient use of heat.

- The correct and maximum design flow ensures a high differential in supply and return temperatures to provide high operational efficiency of the chiller or boiler.
- Improved Comfort
 - The PIBCV valves are not affected by other valves in the system that may be opening and closing throughout the day or other piping system disturbances providing more constant and comfortable room temperature.
- · Reduced Pumping Costs
 - A reduction in overflows through the network reduces pumping costs. A smaller pump head and equipment is required compared to traditional configurations.
- · Reduced Installation Costs
 - Only one valve needs to be installed rather than two or three since the PIBCV covers the pressure balancing, flow limitation and control modulation.
- Easy and quick Commissioning
 - SpaceLogic PIBCV setup time is significantly reduced with a simple and accurate flow setting procedure without the need for flow charts, calculations or measuring equipment.
- Improved Reliability
 - Improved mechanical equipment reliability from reduced actuator movements.

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Product Selection: Threaded and Flanged Valves

Table 1. Threaded Valves

		_	Q			Connection	Part No.			
Image	DN	Q min (I/s)	nom 100% (I/s)	Q min (I/h)	Q nom (I/h)	Ext. Thread (ISO 228/1)	Without T/P Plugs	With T/P Plugs	Suitable	Actuator
	DN10	0.008	0.042	30	150	G 1/2A	VP228E-10BQLNT	VP228E-10BQL		
	DIVIO	0.015	0.076	55	275	G 1/2A	VP228E-10BQSNT	VP228E-10BQS		
	DN15	0.015	0.076	55	275		VP228E-15BQLNT	VP228E-15BQL		
		0.025	0.125	90	450	G 3/4A	VP228E-15BQSNT	VP228E-15BQS	SP90 MP120 (thermal) MP130 (Motoric)	
without plugs		0.063	0.315	227	1 135		VP229E-15BQHNT			
- without plags	DN20	0.050	0.250	180	900	G 1A	VP228E-20BQSNT	VP228E-20BQS		
		0.094	0.472	340	1 700	GIA	VP229E-20BQHNT			otoric) 00-SR
	DN25	0.09	0.472	340	1 700	G 1 1/4A	VP229E-25BQSNT	VP229E-25BQS	(Spring	g Return)
	DINZS	0.15	0.75	545	2 724	G 1 1/4A	VP229E-25BQHNT			
	DN32	0.18	0.89	640	3 200	G 1 1/2A	VP229E-32BQSNT	VP229E-32BQS		
with plugs	DINSZ	0.22	1.11	795	4 000	G I I/ZA	VP229E-32BQHNT			
A	DN40	0.8	2.1	3 000	7 500	G 2A		VP220E-40CQS		
	DN50	1.4	3.5	5 000	12 500	G 2 1/2A		VP220E-50CQS	MP500C	MP500C-SR (Spring Return)

Table 2. Flanged Valves

	DN	Q min (I/s)	Q nom (I/s)	Q min (I/h)	Q nom (I/h)	Part No. With T/P Plugs	Suitable	e Actuator
	DN50	1.4	3.5	5 000	12 500	VP220F-50CQS		
	DN65	2.2	5.6	8 000	20 000	VP220F-65CQS		
ā	DINOS	2.8	6.9	10 000	25 000	VP220F-65CQH		MP500C-SR
	DALOG	3.1	7.8	11 200	28 000	VP220F-80CQS	MP500C	(Spring
	DN80	4.4	11.1	16 000	40 000	VP220F-80CQH		Return)
	DN100	4.2	10.6	15 200	38 000	VP220F-100CQS		ı
		6.6	16.4	23 600	59 000	VP220F-100CQH		
_	D11405	10	25	36 000	90 000	VP221F-125CQS		
	DN125	12	31	44 000	110 000	VP221F-125CQH	MP2000	MP2000-SR
	DNI1EO	16	40	58 000	145 000	VP221F-150CQS	MP2000	(Spring Return)
	DN150	21	53	76 000	190 000	VP221F-150CQH		
	DN200	21	56	76 000	190 000	VP222F-200CQS		
	DINZUU	28	75	100 000	250 000	VP222F-200CQH		14000
	DNIGEO	31	83	112 000	280 000	VP222F-250CQS	IVIF	24000
	DN250	41	103	148 000	370 000	VP222F-250CQH		

Note: A Higher flow, (Q max) is achievable on some sizes by increasing the pressure drop through the valve, please see technical data starting on page 9.

Accessories

The commissioning label set is a plasticized tag that allows the set flow rate to be recorded and attached to the valve via a cable tie. The handles allow the PIBCV to be used without an actuator as an automatic flow regulation valve, which could be very beneficial in certain networks, especially those closest to the pump that are subject high pressure drops.

Part Number	Description
911 4060 000	Commissioning Label Set / Flow Tag Hanger ID
911 4070 000	DN40-DN100 Handle
911 4071 000	DN125-150 Handle
911 4072 000	DN200-250 Handle

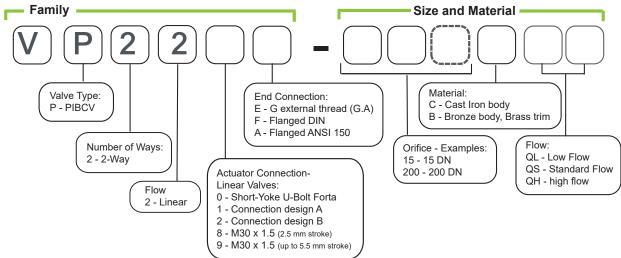
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Table 3. Tail Pieces/Pipe Connections for threaded valves (2 pieces per pack)

Valve DNSize	Pipe Connection type	Part No.	Valve Connection	End Fitting Connection
DN10		911 2113 010*	G 1/2	15 mm*
DN15		911 2113 015	G 3/4	15 mm
DN15		911 2113 115*	G 3/4	22 mm*
DN20		911 2113 020	G 1	15 mm
DN20		911 2113 120	G 1	22 mm
DN25		911 2113 025	G 1.1/4	28 mm
DN32	Solder	911 2113 032	G 1.1/2	35 mm
DN40	Joidel	911 2113 040	G 2	42 mm
DN50		911 2113 050	G 2.1/2	54 mm
DN10		911 2112 010	G 1/2	R 3/8
DN15		911 2112 015	G 3/4	R 1/2
DN20		911 2112 020	G 1	R 3/4
DN25		911 2112 025	G 1.1/4	R1
DN32	Canana	911 2112 032	G 1.1/2	R 1.1/4
DN40	R taper External thread	911 2112 040	G 2	R 1.1/2
DN50		911 2112 050	G 2.1/2	R2
DN10		911 2111 010*	G 1/2	Rp 1/2*
DN15		911 2111 015*	G 3/4	Rp 1/2*
DN20		911 2111 020	G 1	Rp 1/2
DN25		911 2111 025	G 1.1/4	Rp 3/4
DN32		911 2111 032	G 1.1/2	Rp 1
DN40	Internal thread	911 2111 040	G 2	Rp 1.1/4
DN50	internal tirread	911 2111 050	G 2.1/2	Rp 1.1/2
DN20		911 2115 020	G 1	26.9 mm
DN25		911 2115 025	G 1.1/4	33.7 mm
DN32		911 2115 032	G 1.1/2	42.4 mm
DN40		911 2115 040	G 2	48.3 mm
DN50	Weld	911 2115 050	G 2.1/2	60.3 mm

^{*} one piece compact design, additional coupler either side of the valve may be needed to ease assembly / dissasembly

Type Designation Explanation



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Implementation Benefits of PIBCV

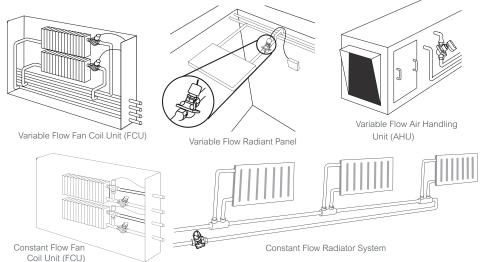
- No Kv or authority calculations needed. Flow is the only parameter to be considered when designing or selecting the SpaceLogic PIBCV.
 - The PIBCV always works reliably within the flow range.
 The maximum setting of the PIBCV corresponds with international standards for flow velocity in pipes.
 - The PIBCV can be used for all HVAC applications and the flow control can be modified from linear to logarithmic when combined with thermal electric or proportional actuators.
- Compact design, essential when only limited space is available, for example in fan-coil units.
- Easy commissioning. No specialized staff or measuring equipment needed.
- Fast start-up. PIBCV valves don't need to be flushed or de-aired before use.
- Trouble-free segmentation of the building project.
 The PIBCV will automatically control the flow, even when sections of the installation are still unfinished.
 It's not needed to re-adjust the PIBCV flow setting after finalization of the building project.

Applications

Variable flow systems: The focus application area of the PIBCV is for variable flow systems which includes terminal unit equipment like fan coils (FCU's) and radiation panels as well as larger plant equipment with air handling units (AHU's).

Constant flow systems: The PIBCV can work in numerous constant flow systems, In these applications the PIBCV is installed as an automatic flow limitation valve which may or may not be fitted with an actuator, ensuring the system is automatically balanced with energy efficient control.

Equipment area's for constant flow systems include radiant panels, fan coils (FCU's) and floor heating.



Control Performance

The **SpaceLogic** PIBCV has a linear control characteristic and is pressure independent which means the control characteristic is independent from the available pressure and is not influenced by a low authority.

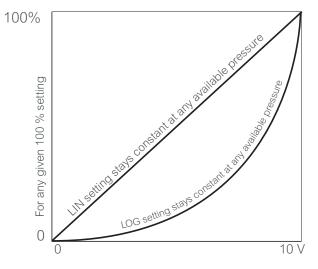
The flow limitation on the PIBCV is achieved by limiting the valve stroke. Schneider Electric motoric actuators calibrate to the varying stroke of the valves. This means the PIBCV keeps a predictable linear characteristic independent of the flow setting or differential pressure.

PIBCV actuators electronically adjust the control characteristic from linear to logarithmic (equal percentage) always providing a perfect adaptation regardless of the flow setting. This makes PIBCV suitable for all applications, including AHUs, where the equal percentage characteristic is needed to get a stable control loop. All modulating actuators can be switched from linear to logarithmic by changing a dipswitch setting on Modulating actuators.

The integrated differential pressure controller enables the control valve to have 100 % authority and will always provide stable control. At partial system load there is no resulting

overflow downstream to the PIBCV, because the valve will always limit the flow to exactly what it is set to.

By installing the PIBCV the whole system is divided in completely independent control loops. There is a full range of Schneider Electric actuators suitable for every control strategy, including On/Off, 0...10 Volt or 4...20 mA modulating and 3-point floating.



Function

The SpaceLogic PIBCV valve consists of two parts:

- 1. Differential pressure controller
- 2. Control valve

1. Differential Pressure Controller (DPC)

The differential pressure controller maintains a constant differential pressure across the control valve. The pressure difference Δp_{cv} (P2-P3) on the membrane is balanced with the force of the spring. Whenever the differential pressure across the control valve changes (due to a change in available pressure, or movement of the control valve) the hollow cone is displaced to a new position which brings a new equilibrium and therefore keeps the differential pressure at a constant level.

2. Control Valve (CV)

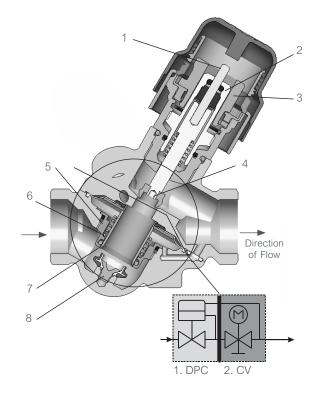
SX PIBCV DN10-32

The control valve has a linear characteristic. It features a stroke limitation function that allows adjustment of the Kv value. The percentage marked on the scale equals the percentage of 100 % flow marked on the pointer. Changing the stroke limitation is done by lifting the blocking mechanism and turning the top of the valve to the desired position, showed on the scale as a percentage. A blocking mechanism automatically prevents unwanted changing of the setting.

Design

DN10-32

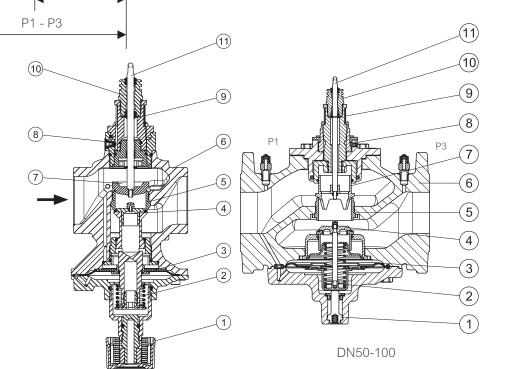
- 1 Spindle
- 2 Stuffing box
- 3 Pointer
- 4 Control valve's cone
- 5 Membrane
- 6 Main spring
- 7 Hollow cone (pressure controller)
- 8 Vulcanized seat (pressure controller)





DN40, 50, 100

- 1. Shut off screw
- 2. Main spring
- 3. Membrane
- 4. DP cone
- 5. Seat
- 6. Valve body
- 7. Control valves cone
- 8. Locking screw
- 9. Scale
- 10. Stuffing box
- 11. Spindle



P2 - P3

PIBCV Flow Presetting

DN10-32

The max flow setting can be adjusted easily without using special tools. To change the presetting of the max flow (factory setting is 100 %) follow the four steps below:

- ① Remove the grey protective pointer of the mounted actuator.
- (2) Raise the green pointer dial.
- ③ Turn (clockwise to decrease) to the new max flow presetting value.
- ④ Press the dial back into the lock position. After the dial is clicked back into place the max flow presetting value is locked.

The presetting scale indicates values from 100 % flow to 0 %. Clockwise turning would decrease the flow value while counter-clockwise would increase it.

Example:

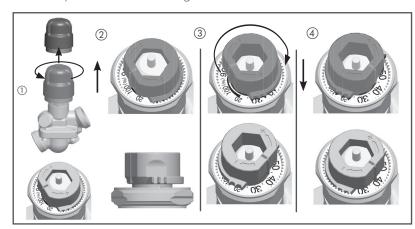
If the valve is a DN15 then the nom flow = 450 l/h = 100 % presetting.

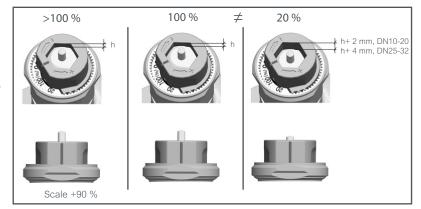
To set a flow of 270 l/h you have to set: 270/450 = 60 %.

Schneider Electric recommends a presetting/flow from 20 % to 100 %. Factory presetting is 100 %. The DN10-32 valves can be set to a Qmax flow which is a setting above the Qnom setting of 100%. Table 4 details the Qmax setting which is either limited to 110% or 120%.

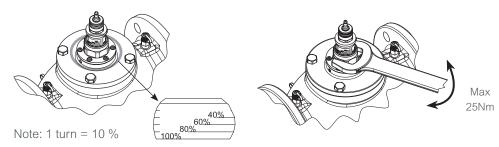
The maximum reading on the scale is 100%; to adjust the flow setting beyond 100% the pointer will be adjusted counter-clockwise past the max scale setting.

The flow setting above the Qnom is the readable value + 90%. Thus in this zone the pointer at 20% position will be a flow setting of 110% and at the 30% position the flow setting will be 120%.

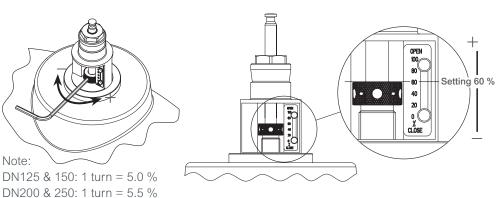




DN40-100



DN125-250



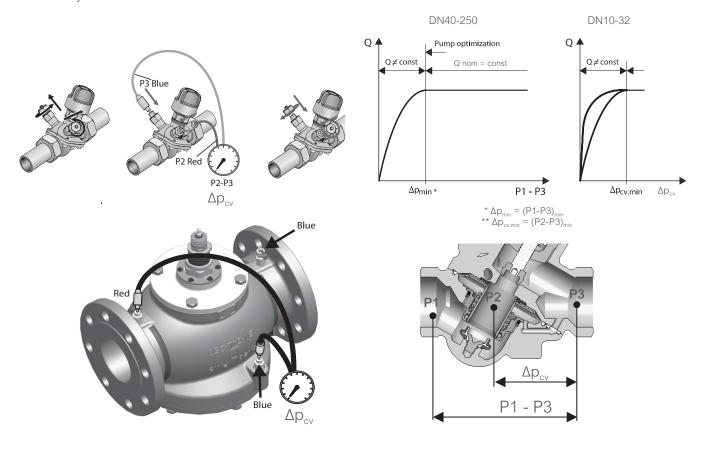
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Pump Optimizing / Troubleshooting

The DN10-100 PIBCV valves feature test plugs that allow measuring of the pressure difference Δpcv (P2 to P3) across the control valve. With the DN40-250 PIBCV valves the measuring can also be done between P1 to P3. If the operating pressure differential exceeds the minimum required pressure differential as detailed in the technical tables, flow limitation to the set point will be achieved. The measuring function of the test ports can be used to verify if enough operating pressure differential is available and thus verify the flow or measure the flow directly.

The P1 test plug can also be used to optimize the pump head. The pump head can be decreased until no more than the minimal required pressure is available on the most critical valve (in terms of hydronic). As the P1 test plug is not possible on the DN10-32 valves, a separate pressure taping for the critical index circuit should be made available for this measurement.

Verifying the pressure can be done by using traditional or electronic manometers.



Service Shut Off

DN10-32

For the service shut off function, it is recommended to install the valve in the supply water pipe. Valves are equipped with plastic shut-off mechanism that is to be used for isolating function up to 1 bar differential pressure.

DN40-100

For the service shut off function, the valve can be installed in either supply or return pipe. Valves are equipped with manual shut-off for isolating function up to 16 bar.

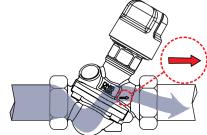
Flow Direction

PIBCV valves are mono-directional, meaning the valve operates when the arrow on the valve body is aligned with the flow direction. When this rule is ignored the valve acts like a variable orifice that causes water hammer at sudden closing when available pressure has increased or the valve has been

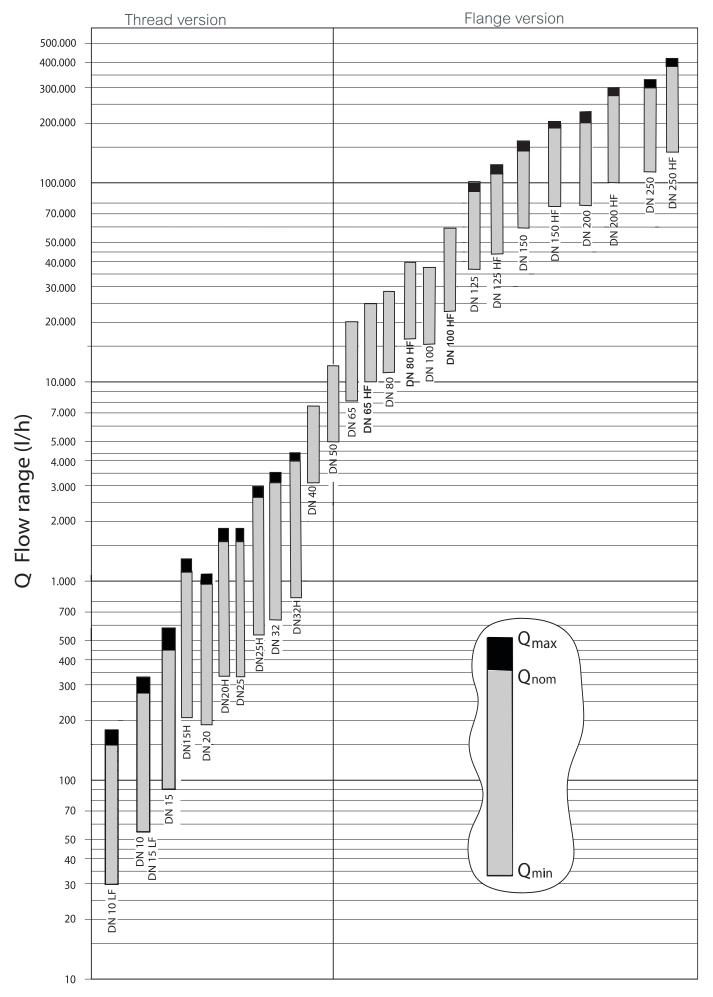
set to a lower value. In the case when a system condition allows backflows, it is strongly recommended to use a backflow preventer in order to avoid possible water hammer that can damage to the valve as well as other elements in the system.

It is recommended to fit a strainer upstream of the valve to increase reliability and to follow water treatment guidelines as detailed in VDI 2035.

The pipework system should be flushed prior to the operation.



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Technical Data

Table 4. Threaded version, DN15-50

Nomir	nal diameter	DN	10L	10S	15L	15S	15H	20S	20H	25S	25H	32S	32H	40	50		
	No/Optional / tandard			Op	ot.		No	Opt.	No	Opt.	No	Opt.	No	Std.	Std.		
Flow	Q _{nom} (100%) ¹⁾	1.0	150	275	275	450	1135	900	1700	1700	2700	3200	4000	7500	12500		
range	Q _{max} ⁴⁾	l/h	180	330	330	540	1250	1080	1870	1870	2970	3520	4400	7500	12500		
Setti	ng range 2)	%		20-12	20%		20-110%	20-120%		20-110%				40-100%			
Diff. pres- sure 3), 4), 5)		kPa		16-6 (18-6			35-600 (40-600)	16-600 (18-600)	35-600 (40-600)	20-600 (25-600)	35-600 (40-600)	25-600 (30-600)	35-600 (40-600)	30-	-600		
	ssure class	PN							16								
	Max. Close Off Pressure (Δpc) Bar 16																
(Control range				Acco	rding to	standard II	EC 60534 co	ntrol range	is high as f	low charact	teristic is lin	ear (1:1000))			
Control	valve's character	istic					Linear (could be co	nverted by	actuator to	equal perce	entage)		-			
	kage to IEC 60534	4				No visi	ole leakage					max. 0.05 %	6 of Q _{nom}				
For	shut off function						Ac	cording to Is	SO 5208 cla	ıss A - no vi	sible leaka	ge		-			
	Flow medium			Wate			ed in plant 1	sed heating Type II for DII equirements	N EN 14868	appropriate	protective i	measures ai		14868.			
	n temperature	°C							-10	+120							
	Stroke	mm		2.2	25		4.0	2.25	4.0		4	.5		10			
Connec-	ext. threa (ISO 228/	1)	G ½	⁄2 A		G ¾		G 1			1⁄4 A	G 1	½ A	G2A	G 2½ A		
tion	actuator						M30 >	(1.5, with 10).4 mmclosi	ng height				Short Yoke Forta U bolt			
Materials i	n the water																
	Valve bodies		DZR Brass (CuZn36Pb2As - CW 602N)										EN-G	y iron JL-250 3 25)			
Memb	oranes and O-ring	gs		EPDM													
	Springs							W.	Nr. 1.4568,	W.Nr. 1.431	0						
	Cone (Pc)							W.Nr.	1.4305					61	Pb3-CW 4N, 1.4305		
	Seat (Pc)							Е	PDM					W.Nr.	1.4305		
	Cone (Cv)								CuZn40Pb3	- CW 614N							
	Seat (Cv)						DZR E	Brass (CuZn	36Pb2As - (CW 602N)				W.Nr.	1.4305		
	0001 (01)		-		Screw Stainless Steel (A2)												
										NBR							
										R							
	Screw	lugs)															
(only for	Screw Flat gasket Sealing agent	lugs)							NB								
(only for Materials of	Screw Flat gasket Sealing agent valves with test p	lugs)						PA	NB					PC	OM		

4) When set above 100 %, minimum starting pressure needed is higher, see figures in the (). 5) For Δp above 400 kPa, static pressure (P1) must be greater than $2 \times \Delta p$. For suitability and usage in non-oxygen tight systems please observe instructions of the coolant producer.

Note: Media Compatibility

It is the responsibility of the installer or product specifier to verify media compatibility of the valves construction materials with the supplier of water treatment/heat transfer solution.

Filtration

Strainers should always be fitted upstream of the valve.

Factory setting of the valve is done at nominal setting range.
 Regardless of the setting, the valve can modulate below 1 % of set flow.

³⁾ $\Delta p = (P1-P3) \min{\sim} max$

Pc - pressure controller part Cv - Control valve part

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Technical Data

Table 5. Flange Version, DN50-DN100

Nominal diameter		DN	50	65	65 HF	80	80 HF	100	100 HF			
Flow range	Q _{nom}	l/h	12 500	20 000	25 000	28 000	40 000	38 000	59 000			
Settin	g range 2)	%				40-1	00%					
Diff. pressure	$\Delta p_{Q_{nom}}$	kPa	30-600	30-600	60-600	30-600	60-600	30-600	60-600			
Press	sure class	PN	16									
Control	valve's characteristic			Line	ear (could be d	converted by	actuator to e	equal percentaç	ge)			
Leakage t	o standard IEC 6053	4				max. (0.05 %					
For	shut off function				According to	ISO 5208 cl	ass A - no vi	sible leakage				
F	Flow medium		Whe	n used in pla	pl: Int Type II for D	ant type I for DIN EN 1486	DIN EN 148 8 appropriate	oling systems a 68. e protective mea 2 are observed.	asures are taken.			
Medium	temperature	°C				-10	. +120					
S	Stroke	mm	10 15									
Connection	flange		PN 16									
	actuator		Forta Short Yoke U bolt									
Materials in the	water											
	Valve bodies		Grey iron EN-GJL-250 (GG25)									
Mer	mbranes/ Bellow		EPDM									
	O-rings					EP	DM					
	Springs					<i>N</i> .Nr. 1.4568,	W.Nr. 1.4310)				
	Cone (Pc)				CuZn ₄	40Pb3 - CW	614N, W.Nr. 1	1.4305				
	Seat (Pc)		W.Nr. 1.4305									
	Cone (Cv)		CuZn40Pb3 - CW 614N									
	Seat (Cv)		W.Nr. 1.4305									
	Screw		Stainless Steel (A2)									
	Flat gasket		NBR									

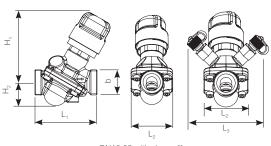
Table 6. Flange Version, DN125 - DN250

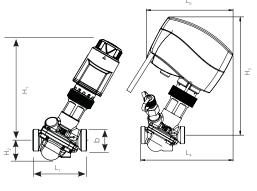
Nominal diam	neter	DN	125	125 HF	150	150 HF	200	200 HF	250	250 HF			
Flow range	Q _{nom} (Q _{max})	l/h	90 000 (100 000)	110 000 (120 000)	145 000 (160 000)	190 000 (209 000)	200 000 (220 000)	270 000 (300 000)	300 000 (330 000)	370 000 (407 000)			
Setting rang	e ²⁾	%				4	0-110%						
Diff. pressure 3), 4)	$\Delta pQ_{nom} \ (\Delta pQ_{max})$	kPa	40-600 (60-600)	60-600 (80-600)	40-600 (60-600)	60-600 (80-600)	45-600 (65-600)	60-600 (80-600)	45-600 (65-600)	60-600 (80-600)			
Pressure cla	ass	PN					16						
Control	Control range According to standard IEC 60534 control range is high as flow characteristic is linear.								r.				
Control valve's	characteristic				Linear (could	be converted	by actuator t	o equal percen	itage)				
Leakage to stand	dard IEC 6053	34	max.0.01	$\%$ of \mathbf{Q}_{nom}			max.	0.01 % of Q _{nom}					
Flow m	edium			Water and water mixture for closed heating and cooling systems according to plant type I for DIN EN 14868. When used in plant Type II for DIN EN 14868 appropriate protective measures are taken. The requirements of VDI 2035, part 1 + 2 are observed.									
Medium tempe	rature	°C				-1	0 +120						
Stroke		mm	30										
Connection	flange	9	PN 16										
Connection	actuato	or				Schneider	Electric stand	dard					
Materials in the water													
Valve b	odies		Grey iron EN-GJL-250 (GG 25)										
Membrane	es/ Bellow		W.Nr.	1.4571				EPDM					
O-rir	ngs						EPDM						
Sprii	ngs		W.Nr.	1.4401			W	.Nr.1.4310					
Cone	(Pc)		W.Nr.1.	4404NC			W	.Nr.1.4021					
Seat	(Pc)					W.	Nr.1.4027						
Cone	(Cv)		W.Nr.1.4404NC W.Nr.1.4021										
Seat	(Cv)		W.Nr.1.4027										
Scr	ew		W.Nr.1.1181										
Flat ga	asket		Graphite gasket Non asbestos										

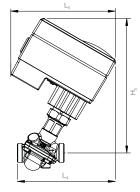
¹⁾ factory setting of the valve is done at nominal setting range.
2) Regardless of the setting, the valve can modulate below 1 % of set flow.
3) Δp = (P1-P3) min-max
4) For Δp above 400 kPa, static pressure (P1) must be greater than 2 x Δp Pc - pressure controller part Cv - Control valve part

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Dimensions (mm)







DN10-32 with close off cap -

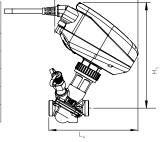
With MP120 Actuator

With MP130 Actuator

With MP300-SR Actuator

Table 7. Threaded Valves DN10...DN32

Туре	L ₁	L ₂	L ₄				H ₁	H ₁ H ₂ H ₃					b (ISO	Valve weight
			SP90	MP120	MP130	MP300-SR			SP90	MP120	MP130	MP300-SR	228/1)	(kg)
DN10	53	36	118	101	111	130	74	20	140	120	143	185	G1/2A	0.38
DN15	65	45	125	108	118	137	77	25	143	123	145	188	G¾A	0.48
DN20	82	56	133	117	127	146	79	31	145	125	148	190	G 1A	0.65
DN25	104	71	148	132	142	160	88	40	153	133	156	199	G 11/4A	1.45
DN32	130	90	166	149	160	178	99	49	164	144	167	210	G 1½A	2.21



L³ (plugs): 79 L⁵: MP130: 104; MP300: 146; SP90: 110.21.

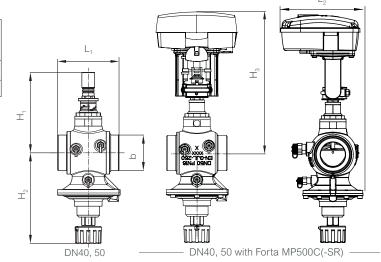
With SP90 Actuator

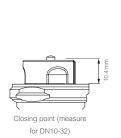
Table 8. Threaded Valves DN40, DN50 (mm)

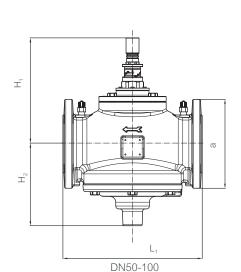
						H ₃	b	\A/ab+
Туре	L ₁	L ₂	H ₁	H ₂	MP500C	MP500C-SR	(ISO 228/1)	Wght (kg)
DN40	110	143	170	174	302	305	G 2A	6.9
DN50	130	181	170	174	302	305	G 2½A	7.8

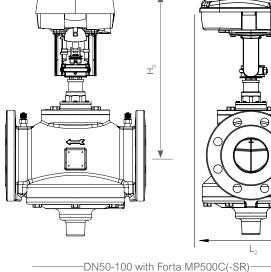
Table 9. Flanged Valves DN50-DN100 (mm)

						H ₃	а	Wght
Type	L ₁	L ₂	H₁	H ₂	MP500	MP500C-SR	(EN 1092-2)	(kg)
DN50	230	198	170	174	302	305	165	14.2
DN65	290	223	220	172	351	354	185	38.0
DN80	310	232	225	177	356	359	200	45.0
DN100	350	256	240	187	372	375	220	57.0









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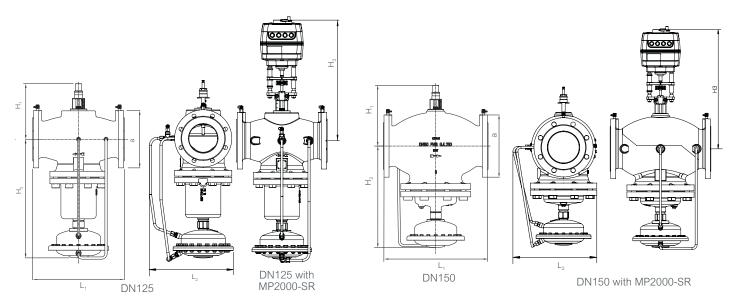


Table 10. Flanged DN125, DN150

					H ₃			
Size	L ₁	L ₂	H₁	H ₂	MP2000	MP2000-SR	a (EN 1092-2)	Weight (kg)
DN125	400	367	272	518	511	532	250	85.3
DN150	480	403	290	481	547	568	285	138

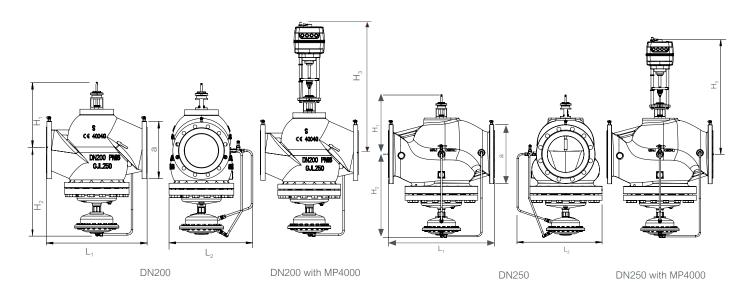


Table 11. Flanged DN200, DN250

Size	L ₁	L ₂	H ₁	H ₂	H ₃ MP4000	a (EN 1092-2)	Weight (kg)
DN200	600	497	434	483	783	340	219
DN250	730	584	406	573	788	405	342