

# WEY® Regulating Knife Gate Valve Type VNC-R 2.19.10



## Valve features

- Continuous pneumatic control
- Bubble-tight shut-off
- Favorable investment-/operating costs

## Function

The valve modulates fluid flow according to the external control signal. Data is processed by the positioner as follows:

- The position transducer system senses the actual gate position
- The electronic microprocessor compares the actual position with the preset value
- The microprocessor control system rectifies the modulating difference

## Positioner

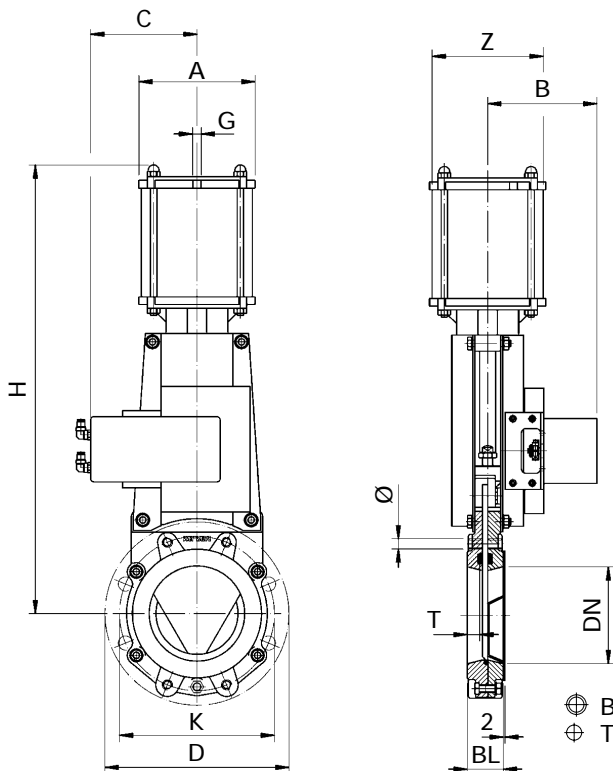
The PMV D3 is a digital positioner with exceptional features and benefits. The computer-optimised pneumatic relay with piezo-electric valves offers great dynamic performance together with

very low steady state air consumption. All information is depicted on a graphic display. The positioner can be used with single or double acting actuators.



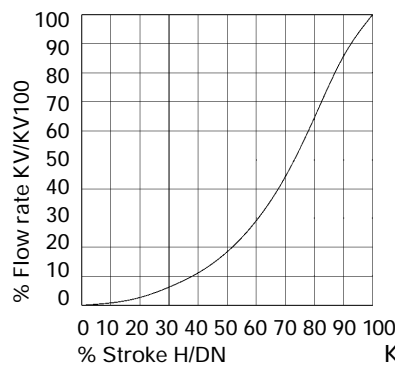
## Technical specification

Input signal:	4–20 mA	Supply voltage:	9–28 VDC (feedback 4–20 mA)
Apparent resistance:	approx. 500 Ohm	Hysteresis:	< 0,4 %
Air delivery:	400 l/min	LC-Display:	Graphic, view area 15 x 41 mm
Air quality:	ISO 8573, filtered 40 µ, dew point 10K below lowest design temperature, residual oil content 5mg/m <sup>3</sup>	Processor:	16 bit
Air supply:	2–6 bar	Enclosure:	IP 66/NEMA 4 x
Air consumption:	< 0,3 nl/min	User surface:	5 push bottoms
Air conection:	1/4" G	Voltage drop:	11 V
Repeatability:	< 0,5 %	Temperature:	-30 to 85° C
Dead band:	0–10 adjustable		
EMC:	EN 50081-2, EN 50082-2		
Material:	Die-cast aluminium powder epoxy coated, screws A2/A4		
Option:	Explosion protection, profibus		
Flange:	PN10/16 DIN 2501	Working pressure:	DN 050–200 10bar DN 250–300 6bar DN 350–400 4bar
Face-to-face:	EN558-1 part 20 (DIN 3202-K1) ISO 5752 basic series		



## Flow characteristic

VN-60° V-Notch



DN	KV100-Value (m <sup>3</sup> /h)
50	61
65	111
80	159
100	307
125	528
150	800
200	1492
250	2500
300	3600
350	4900
400	5724

DN	D	K	BL	H	Z	A	B	C	G	Ø	T	Screws (Qty)	⊕	⊕	Max. working-press. (bar)	Weight (kg)
50	165	125	43	407	100	140	165	97	ISO 228-G1/4	M16	17	4	4	–	10	10
65	185	145	46	429	100	140	165	105	ISO 228-G1/4	M16	17	4	4	–	10	11
80	200	160	46	462	100	140	165	92	ISO 228-G1/4	M16	17	8	4	4	8	12
100	220	180	52	535	100	140	165	130	ISO 228-G1/4	M16	20	8	4	4	6	15
125	250	210	56	601	100	140	165	152	ISO 228-G1/4	M16	22	8	4	4	5	18
150	285	240	56	698	160	180	165	164	ISO 228-G1/4	M20	21	8	4	4	10	28
200	340	295	60	828	160	180	169	138	ISO 228-G1/4	M20	23	8	4	4	6	34
250	395	350	68	987	200	220	170	170	ISO 228-G1/4	M20	19	12	6	6	6	48
300	445	400	78	1114	200	220	187	192	ISO 228-G1/4	M20	23	12	6	6	5	80
350	505	460	78	1329	250	270	187	213	ISO 228-G3/8	M20	20	16	8	8	4	110
400	565	515	102	1461	250	270	187	237	ISO 228-G3/8	M24	28	16	6	10	4	136