INTERMITTENT BLOWDOWN VALVES
VPA26/2

DESCRIPTION

The ADCATrol VPA26/2 series of blowdown valves are specially designed for application on steam boilers, to remove sludge sediments which naturally settle on the bottom of the boiler. These intermittent valves operate manually or automatically with timed control.
Available with diaphragm actuator and/or manual operation lever.



MAIN FEATURES

High quality hardened valve seat and plug.
Manual or automatic intermittent timed control.
Lockable in open position if supplied with manual operation lever.
Practical foot operated lever.
Maintenance free stem sealing.
Tool-free quick exchangeable clamped-in seats, allowing fast and easy inline maintenance procedures.



OPTIONS AND ACCESSORIES:
- Air filter regulator.
- Solenoid valve with timer control unit.
- Blowdown controllers.
- Mechanical limit switches.
- Limit switch boxes.
- Water actuated version.
- Higher rated pressure and temperature versions on request.

USE: Intermittent blowdown of steam boilers.

AVAILABLE MODELS:
- VPA26/2S – carbon steel.
- VPA26/2i – stainless steel.

SIZES: 3/4" to 2"; DN 20 to DN 50.

CONNECTIONS:
- Flanged EN 1092-1 PN 40.
- Flanged ASME B16.5 Class 300.



CE MARKING – GROUP 2 (PED – EUROPEAN DIRECTIVE)	
PN 40	**CATEGORY**
3/4" to 1" – DN 20 to 32	SEP
11/2" to 2" – DN 40 to 50	1 (CE Marked)

We reserve the right to change the design and material of this product without notice.

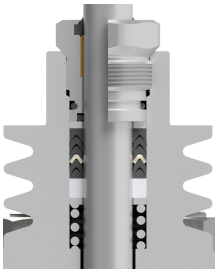
BODY LIMITING CONDITIONS

VPA26/2S				VPA26/2i	
FLANGED PN 40 *		FLANGED CLASS 300 **		FLANGED PN 40 *	
ALLOWABLE PRESSURE	RELATED TEMPERATURE	ALLOWABLE PRESSURE	RELATED TEMPERATURE	ALLOWABLE PRESSURE	RELATED TEMPERATURE
40 bar	-10 / 50 ºC	50 bar	-10 / 50 ºC	40 bar	-10 / 50 ºC
33,3 bar	200 ºC	43,9 bar	200 ºC	33,7 bar	200 ºC
30,4 bar	250 ºC	36,9 bar	350 ºC	31,8 bar	250 ºC
27,6 bar	300 ºC	34,6 bar	400 ºC	29,7 bar	300 ºC
23,8 bar	400 ºC	–	–	27,4 bar	400 ºC

* Rating according to EN 1092-1:2018; ** Rating according to EN 1759-1:2004.

STEM SEALING

PTFE/GR V-RINGS (V1.2)



-10 to 250 ºC

FLOW RATE COEFFICIENTS (m³/h)

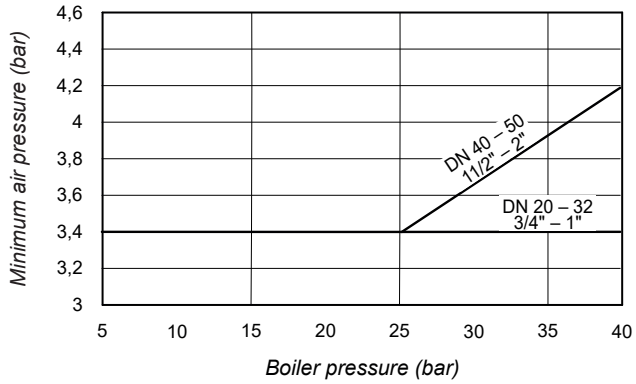
SIZE	3/4" DN 20	1" DN 25	DN 32	11/2" DN 40	2" DN 50
Kvs	6,3	6,3	6,3	16	16

For conversion Kvs = Cv (US) x 0,865.

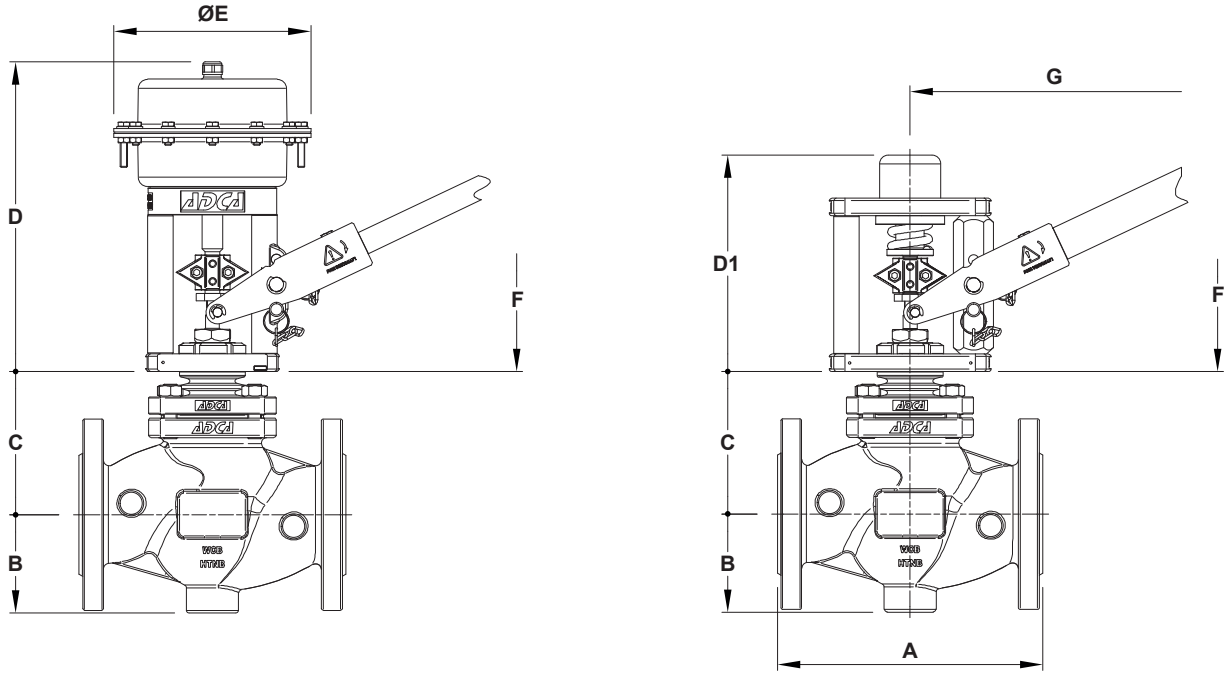
ACTUATOR DATA

DIAPHRAGM AREA	100 cm²
SPRING RANGE	2 to 3,2 bar
STROKE	12 mm
AMBIENT TEMPERATURE	-20 to 80 ºC

PERMISSIBLE DIFFERENTIAL PRESSURES (bar)



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DIMENSIONS (mm)											
SIZE	EN	ASME	B	C	D	D1	ØE	HAND LEVER		FOOT LEVER	
	A							F	G	F	G
3/4" – DN 20	150	194 (a)	53	104,5	257	188	170	216	415	211	417
1" – DN 25	160	197	58	104,5	257	188	170	216	415	211	417
DN 32	180	–	70	109,5	257	188	170	216	415	211	417
11/2" – DN 40	200	235	75	109,5	257	188	170	297	655	211	417
2" – DN 50	230	267	85	113	257	188	170	297	655	211	417

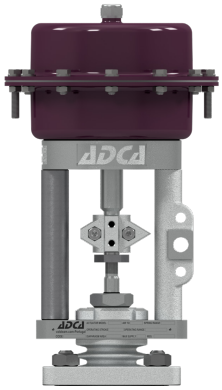
(a) With welded-on flanges.

WEIGHTS (kg)				
SIZE	EN		ASME	
	W/O LEVER	W/ HAND LEVER	W/O LEVER	W/ HAND LEVER
3/4" – DN 20	12,5	11,5	12,5	11,6
1" – DN 25	13,4	12,4	14,2	12,9
DN 32	16,1	15,5	–	–
11/2" – DN 40	19	20,5	20,4	21,8
2" – DN 50	22,7	24,3	23,9	25,5

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OPTIONS AND ACCESSORIES

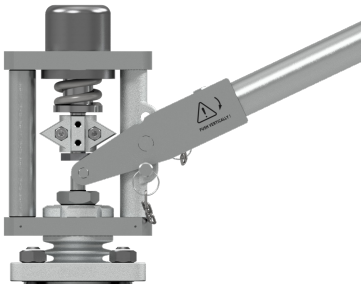
VALVE WITH PNEUMATIC ACTUATOR ONLY



VALVE WITH PNEUMATIC ACTUATOR AND MANUAL OPERATION LEVER



VALVE WITH MANUAL OPERATION LEVER ONLY



SOLENOID VALVE AND AIR FILTER REGULATOR



LIMIT SWITCH BOX



MECHANICAL LIMIT SWITCHES

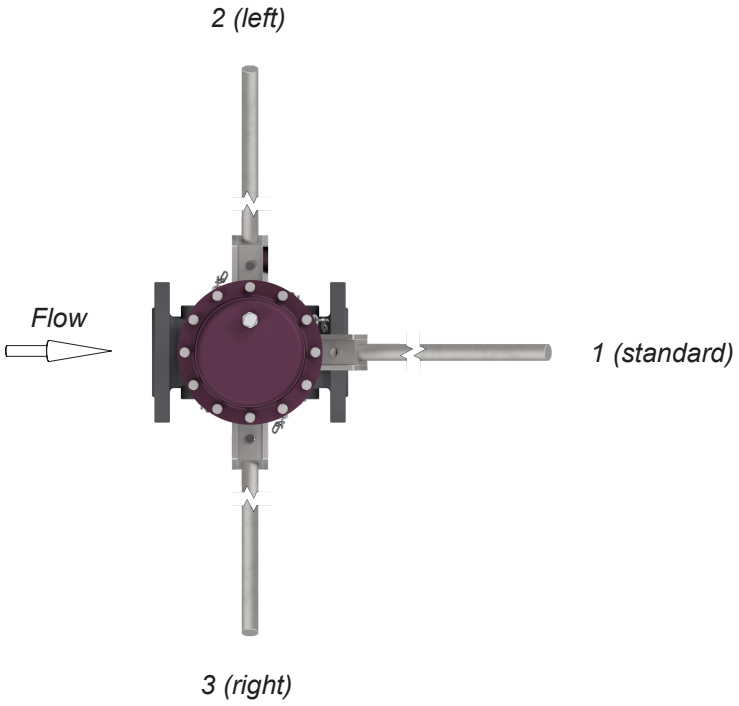


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MANUAL OPERATION LEVER VERSIONS

HAND LEVER	FOOT LEVER
	

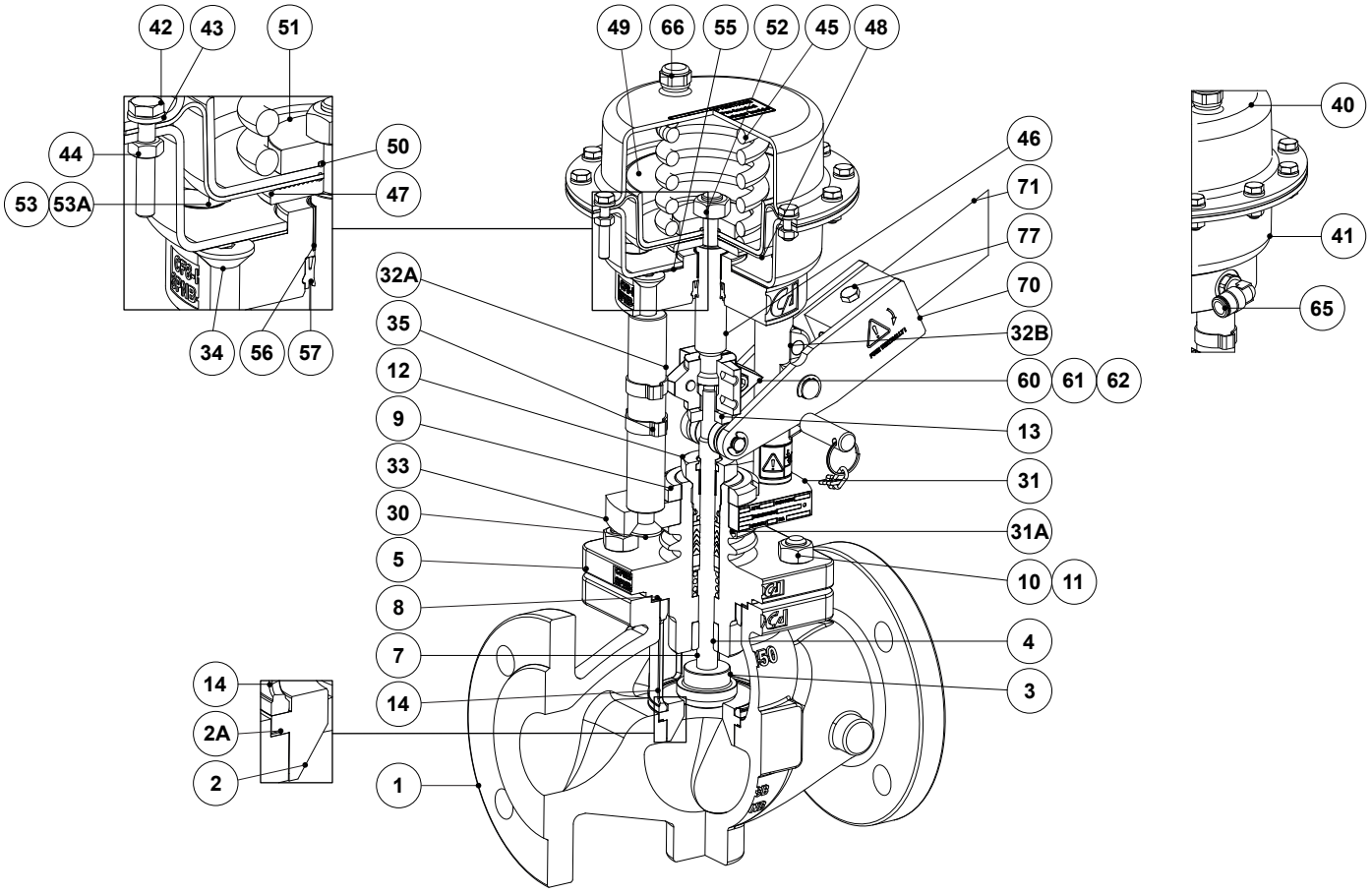
LEVER ORIENTATION

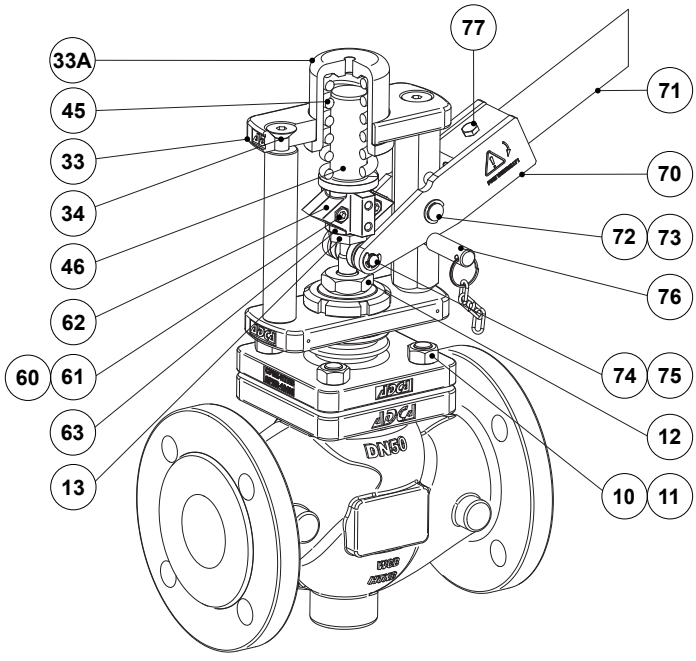


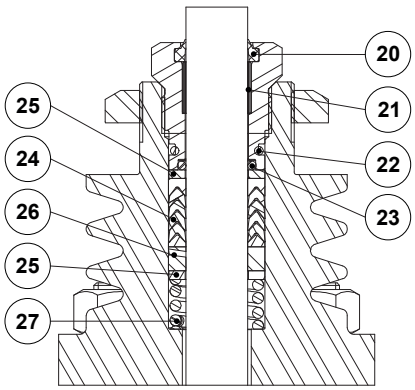
The manual operation lever can be supplied with different orientations to better suit the valve's installation position. Orientations not shown in the image above are available under request.

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MATERIALS







PTFE/GR V-Rings (V1.2)

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MATERIALS		
POS. No.	**DESIGNATION**	**MATERIAL**
1	Valve body (VPA26/2S)	A216 WCB / 1.0619
	Valve body (VPA26/2i)	A351 CF8M / 1.4408
2	* Seat	Hardened stainless steel
2A	* Seat gasket	Stainless steel / Graphite
3	* Valve plug	Hardened stainless steel
4	Lower stem guide	Bronze CB1
5	Bonnet	A351 CF8M / 1.4408
7	* Stem	AISI 316L / 1.4404
8	* Gasket	Stainless steel / Graphite
9	Actuator lock nut	A351 CF8 / 1.4308
10	Nut (VPA26/2S)	EN 10269 steel
	Nut (VPA26/2i)	Stainless steel A2-70
11	Stud (VPA26/2S)	EN 10269 steel
	Stud (VPA26/2i)	Stainless steel A2-70
12	Packing nut	AISI 303 / 1.4305
13	Lock nut	AISI 304 / 1.4301
14	Seat retainer	A351 CF8M / 1.4408
20	* Scraper ring	FPM; NBR
21	* Plain bearing	Bronze / PTFE
22	* O-ring	EPDM
23	* O-ring	FPM
24	* Chevron packing set	PTFE; Graphite filled PTFE
25	Washer	AISI 304 / 1.4301
26	Stem guide	Stainless steel filled PTFE
27	Spring	AISI 302 / 1.4300
30	Bolt (steel)	Zinc plated steel
	Bolt (stainless steel)	Stainless steel A2-70
31	Lower actuator flange	A351 CF8 / 1.4308
31A	Cylindrical pin	AISI 303 / 1.4305
32A	Yoke column (steel)	C45E / 1.1191
	Yoke column (stainless steel)	AISI 303 / 1.4305
32B	Yoke lever column (steel)	C45E / 1.1191
	Yoke lever column (stainless steel)	A351 CF8 / 1.4308
33	Upper actuator flange	A351 CF8 / 1.4308
33A	Upper spring carrier	C45E / 1.1191
34	Bolt	Zinc plated steel
35	Crimp clamp	Zinc plated steel
40	Upper actuator cover	DD13 / 1.0335
41	Lower actuator cover	DD13 / 1.0335
42	Bolt (steel)	Zinc plated steel
	Bolt (stainless steel)	Stainless steel A2-70
43	Washer (steel)	Zinc plated steel
	Washer (stainless steel)	AISI 304 / 1.4301
44	Nut (steel)	Zinc plated steel
	Nut (stainless steel)	Stainless steel A2-70
45	Spring	Spring steel
46	Actuator stem	AISI 316 / 1.4401

* Available spare parts.

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MATERIALS		
POS. No.	**DESIGNATION**	**MATERIAL**
47	Lower diaphragm disc	C45E / 1.1191
48	Diaphragm	Reinforced NBR
49	Diaphragm plate	DD13 / 1.0335
50	* O-ring	NBR
51	Spring guide	AISI 304 / 1.4301
52	Nut	Zinc plated steel
53	Bolt	Zinc plated steel
53A	Washer	Zinc plated steel
54	Washer	Zinc plated steel
55	Gasket	NBR
56	* Plain bearing	Steel / PTFE
57	* Seal ring	Polyurethane
60	Bolt (steel)	Zinc plated steel
	Bolt (stainless steel)	Stainless steel A2-70
61	Nut (steel)	Zinc plated steel
	Nut (stainless steel)	Stainless steel A2-70
62	Coupling / Travel indicator	A351 CF8 / 1.4308
63	Adapter	AISI 304 / 1.4301
65	Fitting	Zinc plated steel; plastic
66	Vent plug	Brass; plastic
70	Lever	AISI 316 / 1.4401
71	Hand lever handle	AISI 304 / 1.4301
	Foot lever handle	S235JR / 1.0038
72	Lever axis shaft	AISI 304 / 1.4301
73	Elastic ring	AISI 304 / 1.4301
74	Roller	AISI 304 / 1.4301
75	Elastic ring	AISI 304 / 1.4301
76	Lever locking pin	AISI 304 / 1.4301
77	Lever fixing bolt	Stainless steel A2-70

* Available spare parts.

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ORDERING CODES VPA26/2

VALVE MODEL	VP26	2	S	AX	0	SX	1	FE	N	20	
VPA26/2 – Intermittent bottom blowdown valve, two way, straight body	**VP26**										
VALVE SERIES											
Series 2		**2**									
BODY MATERIAL											
A216 WCB / 1.0619 carbon steel			**S**								
A351 CF8M / 1.4408 stainless steel			**I**								
VERSIONS											
Valve with actuator only				**AX**							
Valve with actuator and hand lever				**AH**							
Valve with actuator and foot lever				**AF**							
Valve with hand lever only				**XH**							
Valve with foot lever only				**XF**							
LEVER ORIENTATION											
Without lever					**0**						
Standard position					**1**						
Lever rotated 90º to the left (relative to the flow direction)					**2**						
Lever rotated 90º to the right (relative to the flow direction)					**3**						
ACTUATOR											
Steel construction						**SX**					
Stainless steel construction						**IX**					
Steel construction – water actuated						**SW**					
Stainless steel construction – water actuated						**IW**					
Without actuator						**XX**					
STEM SEALING											
PTFE/GR V-rings (V1.2)							**1**				
FLOW RATE COEFFICIENT											
Kvs 6,3 (available only for 3/4" to 1" and DN 20 to DN 32)								**FE**			
Kvs 16 (available only for 11/2" to 2" and DN 40 to DN 50)								**FG**			
PIPE CONNECTIONS											
Flanged EN 1092-1 PN 40									**N**		
Flanged ASME B16.5 Class 300									**V**		
SIZE											
3/4" or DN 20										**20**	
1" or DN 25										**25**	
DN 32										**32**	
11/2" or DN 40										**40**	
2" or DN 50										**50**	
SPECIAL CONSTRUCTION / ADDITIONAL OPTIONS											
A full description must to be provided and validated in case of a non-standard construction											**E**

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