



Data sheet edition 01/2009

Blow down valve type KAVx R1-N

Application and function

The valve is used to blow down and / or to drain steam boilers. The conception of the valve enables a fast opening necessary for the blowing down.

This fast opening causes a suction in the boiler whereby deposits and possible solids are flushed out of the boiler.

Technical basic equipment

- KAV1 R1-N Blow-down valve with handlever.; A later equipment with pneumatic actuator is possible without problems.
- KAV2 R1-N Blow-down valve with pneumatic actuator for automatic blowing down in connection with the program-controlled IGEMA magnetic valve type PGM
- Construction as globe valve with flange connection or welding end according to DIN
- Quick closing mechanism for fast closing and opening
- Adjustable stuffing box
- Clamp-in valve seat
- Possibility to lock the valve manually in open position
- Possibility to operate the pneumatic actuator with the control media air or water

Materials: pressure holding parts: steel for high-temperature service

Spindle, seat and cone: stainless steel

Yoke: carbon steel Lever: carbon steel

Available (optional) versions

• Other process connections as per DIN or ANSI on request

Technical data

Allowable pressure	PS	[bar]	32	50
Allowable temperature	TS	[° C]	239	265



KAV1 R1-N



KAV2 R1-N



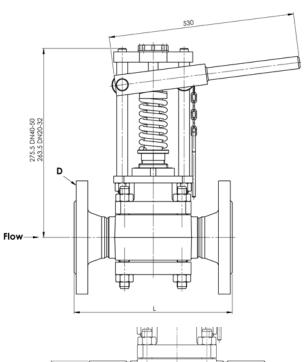


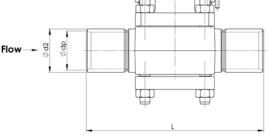


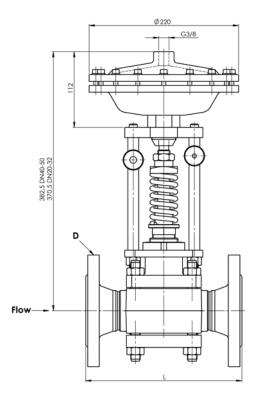
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Dimensions

Version with flange									
PS [bar]	Connecton flange D		Contact face		Dimension L [mm]				
DN 20 DIN 2635 DN 25 DIN 2635 32 DN 32 DIN 2635		2635			160				
				160					
		2635	DIN 2626-C		180				
	DN 40 DIN 2635				200				
	DN 50 DIN 2635				230				
50	DN 25 DIN 2637		DIN 2526-E		190				
	DN 40 DIN 2637				220				
Version with welding end as per DIN 3239-2									
PS [bar]	DN	ø dp [mm]		ø d2 [mm]	Dimension L [mm]				
32	20	22		28	160				
	25	28,5		34	160				
	40	43		49	210				
	50	54,5		61	250				
50	25	28,5		34	160				
	40	42		61	210				





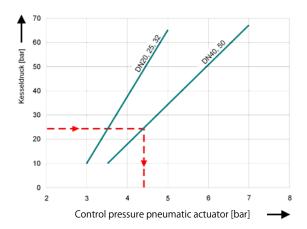






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Pneumatic actuator, required control pressure:



Reading example:

Boiler pressure: 25 bar

Nominal diameter of valve: DN40

Result: Control pressure 4,3 bar

The determined control pressure may be exceeded by max. 10%.

Hint:

Filling volume of pneumatic actuator per blowing down process 0,55 l. The pneumatic actuator may only be operated with a control pressure of **max. 7 bar** to exclude a destruction of the pneumatic actuator or the diaphragm.

Material:

Case cast aluminium
Spindle stainless steel
Diaphragm rubber



Position of the handlever: in flow direction (see drawing). Other positions of the lever (turned by 90°) must be fixed in case of order.

Standard values for frequency and duration of blowing down: see Operating Instructions

Installation example

