



2- and 3-way regulation and ON/OFF ball valves 4.50

Application

Α

The ball valves are used for the constant water regulation of air treatement systems in ventilation and air conditioning units as well as in heating systems.

V

E

Ball valves are positioned by means of a JOVENTA actuator.

For a 3-point adjustment signal a BAS control is used or for DC0...10V adjustment signal a BMS control is used. See data sheet 4.20 and 4.25.

The actuator can also be used with an emergency regulation function.

The motors are equipped with a manual release button for manual operation.

For the assembly of the actuator on the ball valve control device the ZAK consoles are used. See data sheet 6.50.

Order-examples

Ball-valve, Bracket and Actuator individual:

Order-code

- BAS... or BMS...
- ZAK2
- JV...

Ball-valve with Actuator grown:

Order-code

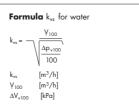
 BAS... or BMS... + JV... (The order-code of the bracket must not be presented)

	ature/Specification/Tec							
JV205		2-way control devices with receptor thread connection 3-way control devices with receptor thread connection						
JV305								
Means		Hot and cold water -30140°C						
		Water with glycol to max. 50% volume						
		Steam to max. 100 kPa at 120°C						
Permitted p	oressure	PN 40						
Close-off p	pressure Δp_s	1380 kPa						
Differentia	l pressure ∆p _{max}	600 kPa at 2-way valves without regulation diaphragm						
		340 kPa at 2- and 3-way valves with regulation diaphragm						
		240 kPa at 2- and 3-way valves with regulation diaphragm						
		for noiseless operation						
Flow chard	acteristics	Same percentage at 2-way valve (A – B)						
		Same percentage at 3-way valve (A – C)						
		Linear at 3-way valve in bypass (B – C)						
Leakage ro	ate	< 0.01% from the Kvs						
Adjusteme	nt ratio	> 500 : 1						
Angle of ro	otation	90°						
Maintenan	ice	Maintenance-free						
Material	Control device	Forged brass body						
	Closing body	Stainless steel						
	Spindle	Stainless steel						
	Valve seat	PTFE with graphite part and EPDM O-ring						
	Spindle gasket	2 x EPDM O-ring						
	Regulation diaphragm	AMODEL [®] AS 1145HS						

 Δp_{max} = For low-noice operation. Δp_{v100} = Pressure difference with ball valve

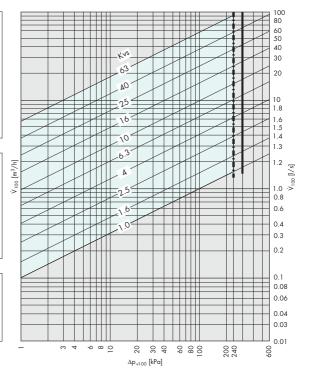
fully open.

 V_{100} = Nominal flow rate with Δp_{v100}



Definition of Δp_{s}

Closing pressure at which the actuator can still seal the valve tightly allowing for the appropriate leakage rate.

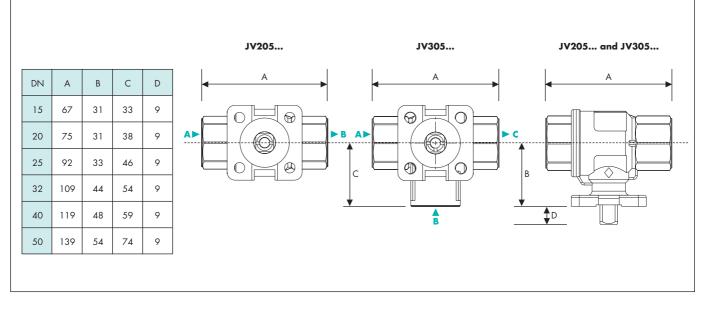






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Dimensions in mm



Control devices					Standard actuators 8 Nm				Spring-return 6 Nm			Spring-re	Spring-return 16 Nm		
			Way	Bypass		24V	24V	230V		24V	24V		24V	24V	
			Kvs (m³/h)	Kvs (m³/h)	Console	3-point	010V	3-point	Console	3-point	010V	Console	3-point	010V	
Valve type	DN	Zoll	(A-B)	(B–C)	ZAK2>>	BAS1	BMS1.1	BAS2	ZAK3>>	DBF1.06	DMF1.06	ZAK4>>	DA1.4F	DM1.1F	
JV05AD	15	1/2"	1.0	0.63	Х	Х	Х	Х	Х	Х	Х				
JV05AE	15	1/2"	1.6	1.0	Х	Х	Х	Х	Х	Х	Х				
JV05AF	15	1/2"	2.5	1.6	Х	Х	Х	Х	Х	Х	Х				
JV05AG	15	1/2"	4.0	2.5	Х	Х	Х	Х	Х	Х	Х				
JV05AL	15	1/2"	6.3	4.0	Х	Х	Х	Х	Х	Х	Х				
JV05AN	15	1/2"	10.0	5.0	Х	Х	Х	Х	Х	Х	Х				
JV05BG	20	3/4"	4.0	2.5	Х	Х	Х	Х	Х	Х	Х				
JV05BL	20	3/4"	6.3	4.0	Х	Х	Х	Х	Х	Х	Х				
JV05BN	20	3/4"	10.0	5.0	Х	Х	Х	Х	Х	Х	Х				
JV05CL	25	1"	6.3	4.0	Х	Х	Х	Х	Х	Х	Х				
JV05CN	25	1"	10.0	6.3	Х	Х	Х	Х	Х	Х	Х				
JV05CP	25	1"	16.0	8.0	Х	Х	Х	Х	Х	Х	Х				
JV05DN	32	11/4"	10.0	6.3	Х	Х	Х	Х	Х	Х	Х				
JV05DP	32	11/4"	16.0	10.0	Х	Х	Х	Х	Х	Х	Х				
JV05DR	32	11/4"	25.0	12.5	Х	Х	Х	Х	Х	Х	Х				
JV05EP	40	11/2"	16.0	10.0	Х	Х	Х	Х	Х	Х	Х				
JV05ER	40	11/2"	25.0	16.0	Х	Х	Х	Х	Х	Х	Х				
JV05ES	40	11/2"	40.0	20.0	Х	Х	Х	Х	Х	Х	Х				
JV05FR	50	2"	25.0	16.0	Х	Х	Х	Х				Х	Х	Х	
IV05FS	50	2"	40.0	25.0	Х	Х	Х	Х				Х	Х	Х	
JV05FT	50	2"	63.0	31.5	Х	Х	Х	Х				Х	Х	Х	

Selection table for ON/OFF ball valves														
Control devices					Standard actuators 8 Nm				Spring-re	Spring-re	Spring-return 16 Nm			
			Way	Bypass		24V		230V		24V	230V		24V	24V
			Kvs (m³/h)	Kvs (m³/h)	Console	2-point		2-point	Console	2-point	2 -point	Console	2-point	2-point
Valv type	DN	Zoll	(A-B)	(B-C)	ZAK2>>	BAS1		BAS2	ZAK3>>	DAF1.06	DAF2.0	6 ZAK4>>	DA1.F	DA2.F
JV05AN	15	1/2"	10.0	5.0	Х	Х		Х	Х	Х	Х			
JV05BN	20	3/4"	10.0	5.0	Х	Х		Х	Х	Х	Х			
JV05CP	25	1"	16.0	8.0	Х	Х		Х	Х	Х	Х			
JV05DR	32	11/4"	25.0	12.5	Х	Х		Х	Х	Х	Х			
JV05ES	40	11/2"	40.0	20.0	Х	Х		Х	Х	Х	Х			
JV05FT	50	2"	63.0	31.5	Х	Х		Х				Х	Х	Х