

#### Technical data sheet

# V2SAR Series Characterized Control Valves, 2-way

# **Description**

Suitable for closed and open warm-and cold-water HVAC systems.

Used in water side modulating control of air handling and heating  $\ensuremath{\mathsf{HVAC}}$  systems.

Zero Leakage.

Order Code	Size / Thread	KVs Value
V2SAR.65_120	DN65 / R2 1/2"	120
V2SAR.80_160	DN80 / R3"	160
V2SAR.100_275	DN100 / R4"	275
V2SAR.125_396	DN125 / R5"	396
V2SAR.150_544	DN150 / R6"	544



#### **Features**

Equal-percentage Flow Characteristics	The valve from A to AB has a perfect equal-percentage control curve, and the rangeability is >100:1. The valve core is made of stainless steel, which is more corrosion resistant and has a longer service life.
Fixed Valve Core	It adopts fixed valve core structure with a high close-off DP and a low torque.
Zero Leakage Rate	It is "0" leakage rate when the valve is closed from A to AB.
Stainless Steel Full Core	It adopts full core structure with dual seal and is made of stainless steel with corrosion resistance.
Double Flange Connection	It is much easier to locate and install with double flange connection compared to wafer connection.
Quality Materials	The valve body is made of high-quality ductile iron (EN-GJS-450-10), and the surface adopts electrostatic spraying craft, the body has better intensity and corrosion resistance.



#### General data

Technical data							
	Fluid	Cold and hot water with up to 50% vol. glycol					
	Fluid temperature	-5120°C					
	Close-Off differential pressure	800 & 600 kPa					
	Differential pressure rating	350 KPa					
	Operational Pressure rating	PN16					
	Flow characteristic	A-AB Equal percentage					
	Leakage rate	Zero leakage					
	Angle of rotation	90°					
	Pipe connection	flanged ISO 7005					
	Installation position	Upright (stem on top)					
	Service	Maintenance free					
	Rangeability	>100:1					

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Body	Ductile iron
Stem	Stainless steel
Stem seal	Stainless steel
Seat	PTFE
O-ring	FKM

### **Functional data**

Application	Water
Installation places	Plant Rooms of Spaces

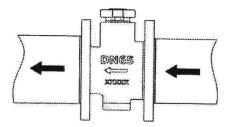
#### **Security Notes / Disposal Notes**

The valve has been designed for use in heating, ventilation and air conditioning systems. The device is not allowed to be used outside the specified field of application, especially in airplanes.

It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly. When determining the flow characteristic, the accepted directives must be observed. The device is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

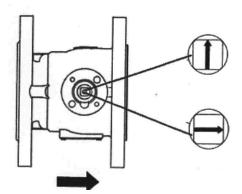


## **Dimensions**



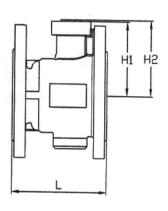


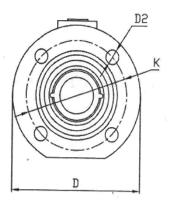
Pay attention to the flow direction during installation!



Arrow on valve shaft top is up, valve closed.

Arrow on valve shaft top is to the right, valve opened.





DN	D mm	D2 mm	K mm	L mm	H1 mm	H2 mm	Weight Kg
DN65	185	4-19	145	136.5	98	100	10
DN80	200	8-19	160	168	105	107	12.5
DN100	220	8-19	180	211	117	119	18
DN125	250	8-19	210	263	137.5	139.5	26
DN150	285	8-23	240	315	152	154	36.5



# **Commonly used valve / Actuator Combination**

Characterized Control Valve (CCV) / Small HVAC Equipment					Actuators														
						Open Close Actuators Modulating Actuators													
						Non Spring Return Actuators													
				Picture															
					1х. (кРа)	Country of origin	Germany												
		ure				Power Supply	24V AC/DC 230V AC						24V AC/DC						
istic	ze	Pressure	e po	(m³/h	re, m	IP Rating		IP54											
Characteristic	Valve Size	onal P	Order Code	KVs Value (m³/h)	Pressure, max.	Running Time (s)		150				150			150				
Cha	>	Operational	ō	KVsV	Differential P	Auxiliary switch	n.a.	x2	n.a.	x2	n.a.	x2	n.a.	x2	n.a.	x2	n.a.	x2	
				Differ	Torque (Nm)	20	20	40	40	20	20	40	40	20	20	40	40		
				Order Code	363-024-20_VNB	363-024-20-S2_VNB	363-024-40_VNB	363-024-40-S2_VNB	363-230-20_VNB	363-230-20-S2_VNB	363-230-40_VNB	363-230-40-S2_VNB	363C-024-20_VNB	363C-024-20-S2_VNB	363C-024-40_VNB	363C-024-40-S2_VNB			
								Close-Off pressure, max							(KPa	a)			
	DN65		V2SAR.65_120	120.0			800			800			800						
e e	DN80		V2SAR.80_160	160.0															
2 - Way Valve	DN100	PN16	V2SAR.100_275	275.0	350														
2 -	DN125		N125 <b>V2SAR.125_396</b> 396.0						60	00			61	00			6	00	
	DN150		V2SAR.150_544	544.0															