

# Seat Valve Threaded 5,5 mm stroke





SVI

# **Technical Data**

Nominal Pressure PN 16

Operating pressure	Max.1600 kPa (16bar)
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Valve characteristic Linear

#### Material

Valve body Plug Plug gasked Spindle Spindle packing Spindle packing nut	-
Connections	Threaded female
Leakage	Direct way A-AB perfect sealing Angle way B-AB 0,2%kvs
Stroke	5.5mm
Rangeablity	50:1
Fluid temperature	-10+120C
Fluid type	Water, water with glycol max 50%
	Water, water with grycer max 50%
Valve bodv	Cast-iron G25
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Valve body	Cast-iron G25

### Features

- 3-port Valves can be used in mixing or diverting application
- The compact size makes it perfecely suited for installations where space is limited
- Linear flow characteristics
- Maintenance free low friction spindle sealing
- Threaded valve neck for fitting actuator

### Application and use

SVI valve bodies are used in HVAC systems to control fluid in heating, refrigeration, ventilation in commercial and industrial plants.

Valves are fitted with female threaded connections in 2 and 3-way.

3-way valves are used in mixing mode, they can be used in diverting mode reducing the maxi differential pressure value by 50%.

Do not use the bypass (angle way) as control port.

SVI valve bodies are motorized by AXM series electronic actuators.

### Ordering

SVI 210	Two-way Seat Valve 15mm 0,25kvs
SVI 211	Two-way Seat Valve 15mm 0,4kvs
SVI 212	Two-way Seat Valve 15mm 0,63kvs
SVI 213	Two-way Seat Valve 15mm 1,0kvs
SVI 214	Two-way Seat Valve 15mm 1,6kvs
SVI 215	Two-way Seat Valve 15mm 2,5kvs
SVI 218	Two-way Seat Valve 20mm 4,0kvs
SVI 220	Two-way Seat Valve 20mm 6,3kvs
SVI 225	Two-way Seat Valve 25mm 10kvs
SVI 232	Two-way Seat Valve 32mm 13kvs
SVI 240	Two-way Seat Valve 40mm 16kvs
SVI 310	Three-way Seat Valve 15mm 0,25kvs
SVI 311	Three-way Seat Valve 15mm 0,4kvs
SVI 312	Three-way Seat Valve 15mm 0,63kvs
SVI 313	Three-way Seat Valve 15mm 1,0kvs
SVI 314	· · · · ·
511314	Three-way Seat Valve 15mm 1,6kvs
511 314	
SVI 314	
	Three-way Seat Valve 15mm 1,6kvs
SVI 315	Three-way Seat Valve 15mm 1,6kvs Three-way Seat Valve 15mm 2,5kvs
SVI 315 SVI 318	Three-way Seat Valve 15mm 1,6kvs Three-way Seat Valve 15mm 2,5kvs Three-way Seat Valve 20mm 4,0kvs
SVI 315 SVI 318 SVI 320	Three-way Seat Valve 15mm 1,6kvs Three-way Seat Valve 15mm 2,5kvs Three-way Seat Valve 20mm 4,0kvs Three-way Seat Valve 20mm 6,3kvs

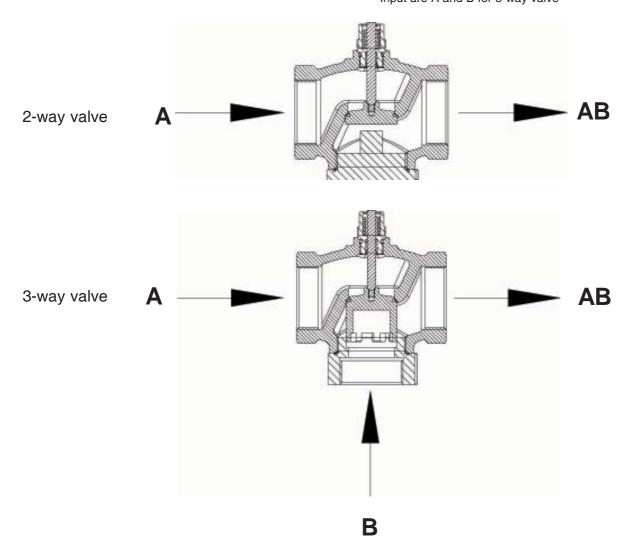
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# **Piping Connections**

Make the piping connections according to flow directions indicated on the valve body as the following drawings.

AB is always the output. Input is A for 2-way valve Input are A and B for 3-way valve



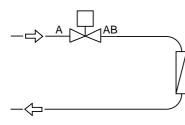
### **Valve Mounting**

Before mounting the valve be sure that the pipes are clean and free from soldering scraps.

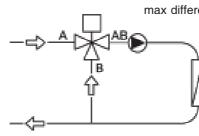
Pipes must be lined up squarley with the valve at each connection and free of vibrations.

Install the valve/actuator vertically or horizontally but never upside down.

Leave enough clearance to facilitate the dismounting of the actuator from the valve body for maintenance purpose.



2-way



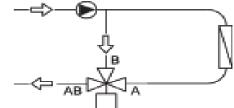
3-way mixing used in mixing application toward user

The valve must not be installed in explosive atmosphere or in ambient with temperature and humidity outside the ranges indicated on technical features part.

Valve must not be subjected to water or steam jets or dripping liquid.

3-way valve must be used in mixing way (2 inlets and 1 output).

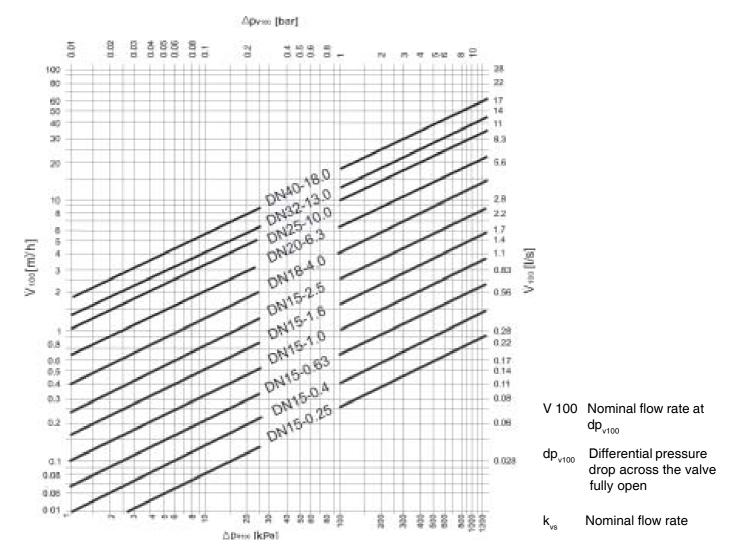
If the valve is used in diverting way (1 inlet and 2 ouputs), the max differential pressure allowed is reduced by 50%.



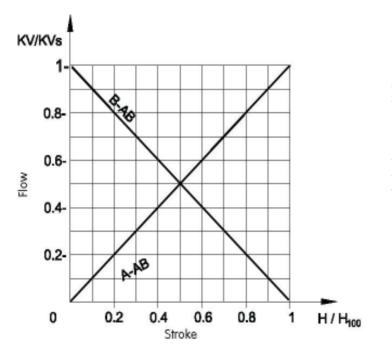
3-way mixing used in diverting application toward user Automatikprodukter



## **Control Drop Diagram**







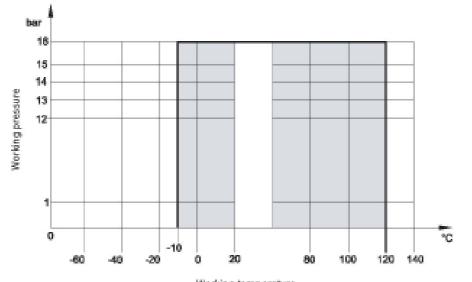
3-way used as mixing inlet in A and B, outlet AB 3-way used as diverting inlet in AB outlet from A and B

Via AB Via A Via B (bypass) constant flow variable flow variable flow

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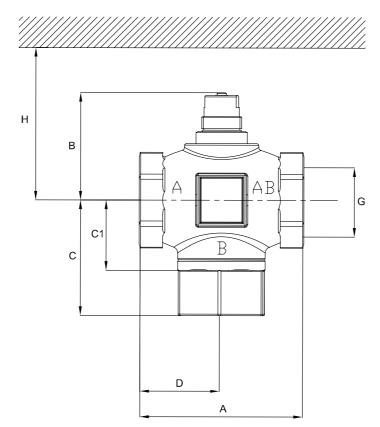
# **Diagram Pressure/ Temperature**



### **Dimensions**

Working temperature

				SVI 3	SVI 2				
DN		Α	В	С	C1	D	Hmin.	Weight in kg	
mm	inch	mm	mm	mm	mm	mm	mm	SVI 2	SVI 3
15	1/2 "	66	55,3	40,5	32,5	33,0	205	0.6	0.62
20	34"	90	60,8	56,0	42,0	45,0	210	1,05	1.15
25	1"	96	68,3	59,2	40,5	48,0	220	1.4	1.15
32	11/4	109	71,3	67,2	47,5	54,5	225	1.85	2,0
40	1½"	122	75,8	72,0	55,0	61,0	230	2.65	2.7



We reserve the right to make changes and improvements in our products which may effect the accuracy of the information contained in this leaflet.

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