

## Seat valve, PN16

Flange seat valves made of cast iron, stroke 20/40mm



2-port



3-port

## VA2F / VA3F ...

### Application

Suitable for use as a control valves in heating, ventilating and air conditioning plants for low-pressure hot water and chilled water systems with permissible fluids as:

- Water: Max. -25°C ... 120°C (spindle heater required for fluid temperature < 0°C)
- Domestic water
- Water with glycol (with up to a maximum of 50% as anti-freeze)

### Design features

- Low leakage rate for best energy saving.
- 3-port valve can be used in mixing or diverting application.
- 20mm/40mm stroke valves design with different adaptors for the most common makers of actuators.
- Maintenance free low friction spindle sealing.
- The sealing gland can be replaced without removing the valve.

### Types and operating data

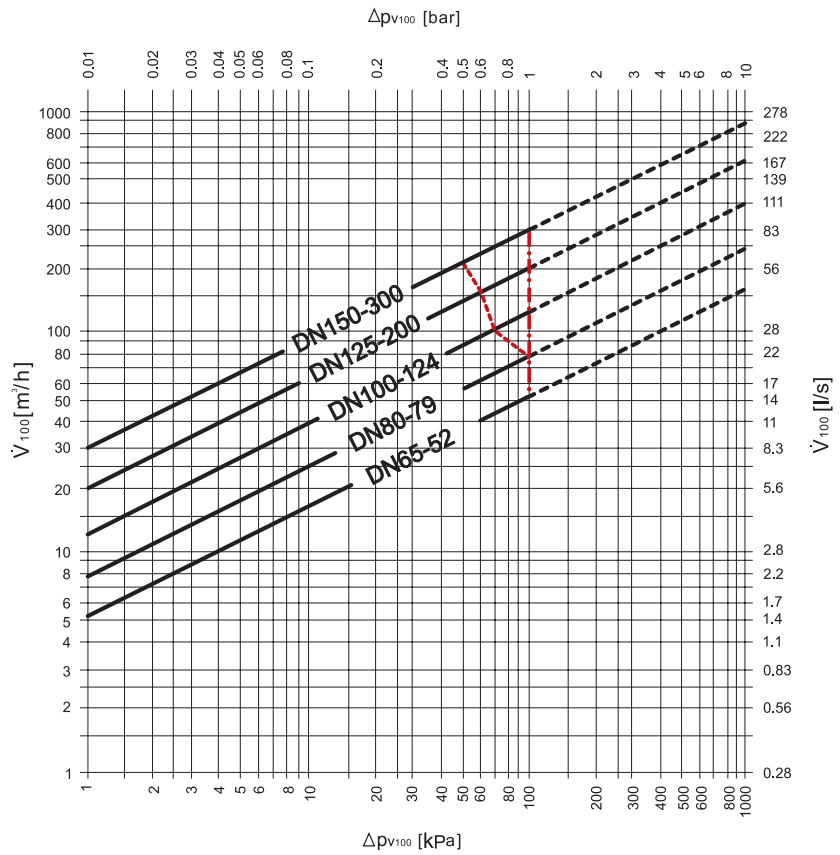
#### 2-port seat valves

Type	DN	k <sub>vs</sub> m <sup>3</sup> /h	Sv	Δp <sub>max</sub> with actuator <sup>1)</sup> (bar)			
				M2-800	M2-800	M4-1500	M4-1500
VA2F-065-E	65	52	>100	3(1)	4(1)	-	-
VA2F-080-E	80	79	>100	2(1)	3(1)	-	-
VA2F-100-E	100	124	>100	-	-	3(1)	4(1)
VA2F-125-E	125	200	>100	-	-	2(1)	3(1)
VA2F-150-E	150	300	>100	-	-	2(1)	3(1)

### 3-port seat valves

Type	DN	$k_{vs}$ m <sup>3</sup> /h	Sv	$\Delta p_{max}$ with actuator <sup>1)</sup> (bar)			
				M2-1500	M2-1500	M4-2500	M4-2500
VA3F-065-E	65	52	>100	3(1)	4(1)	-	-
VA3F-080-E	80	79	>100	2(1)	3(1)	-	-
VA3F-100-E	100	124	>100	-	-	3(1)	4(1)
VA3F-125-E	125	200	>100	-	-	2(1)	3(1)
VA3F-150-E	150	300	>100	-	-	2(1)	3(1)

<sup>1)</sup> The  $\Delta p_{max}$  shown is the differential pressure limitation where the actuator can still close the valve, the figure in the bracket is the recommended  $\Delta p_{max}$  under normal operation of the valve.



- vs Nominal flow
- Sv Range ability to VDI2173
- V<sub>100</sub> Nominal flow rate at  $\Delta p_{v100}$
- $\Delta p_{v100}$  Pressure differential across the fully open valve

### 3-port seat valve used as a mixing or diverting valve



Used as a mixing valve: From II and III to I  
 Used as a diverting valve: From I to II and III

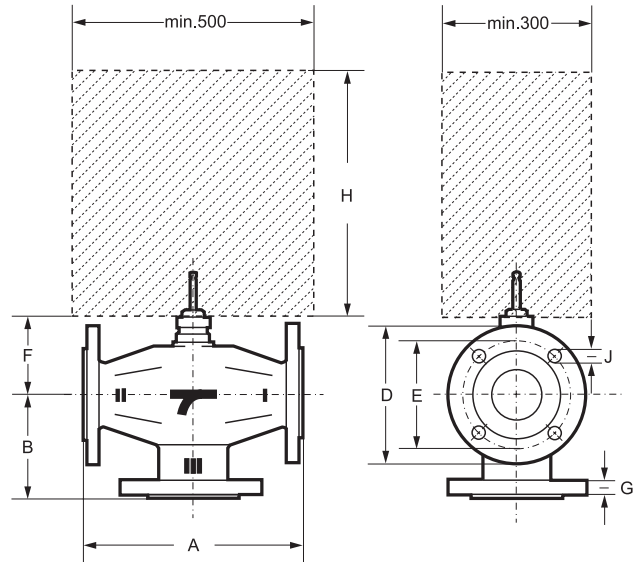


## Dimensions

Dimension in mm

DN		A	B	C	D	E	F	J	G	Hmin.	Weight in kg	
mm	inches	mm	mm	mm	mm	mm	mm	mmØ	mm	mm	2-port	3-port
65	2 1/2"	290	140	134	185	145	106	(4x)19	20	500	19.4	20.3
80	3"	310	150	144	200	160	107	(8x)19	22	500	24.8	25.6
100	4"	350	150	144	220	180	150	(8x)19	24	500	33.0	33.8
125	5"	400	170	162	250	210	165	(8x)19	26	500	48.0	48.6
150	6"	480	200	192	285	240	179	(8x)24	26	500	68.4	69.6

3 Port



2 Port

