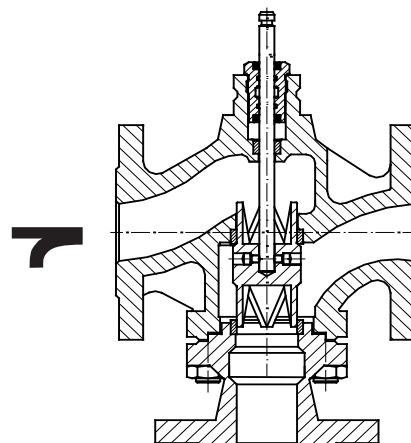
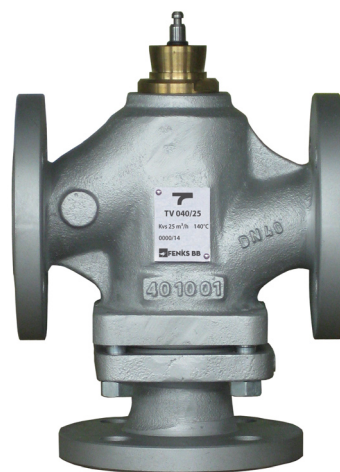


### Description

Three-way flanged valve is designed to control the flow rate of circulation water in pipelines. Valve stem with cone is moved by acting of electric actuator controlled by microprocessor controller. Circulation medium could be cold, warm and hot water in temperature range from 5°C up to 140°C.

Valve is applied in almost all heating, ventilation and air-conditioning systems and in industrial and technological processes. Three-way flanged valve is used as mixing and dividing valve and in the case when it should change water circulation from one pipeline to another. Valve curve is equal percentage. Regulation ratio (ratio between nominal and minimal flow coefficient) is 50:1. Selection of three-way flanged valve is according to diagram of  $K_{VS}$  values.



### Types

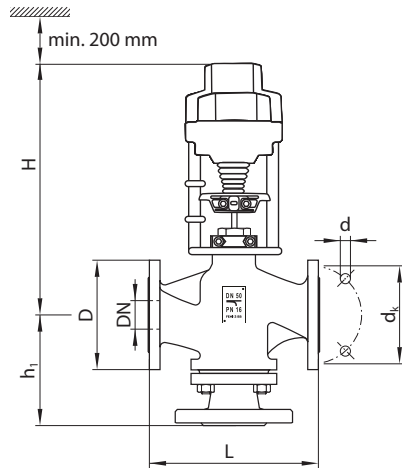
DN (mm)	$K_{VS}$ (m³/h)	Stroke (mm)	Type
15	1	10	TV-015/1
15	1,6	10	TV-015/1,6
15	2,5	10	TV-015/2,5
15	4	14	TV-015/4
25	6,3	20	TV-025/6,3
25	10	20	TV-025/10
32	16	20	TV-032/16
40	25	20	TV-040/25
50	40	40	TV-050/40
65	63	40	TV-065/63
80	100	40	TV-080/100
100	160	45	TV-100/160
125	250	65	TV-125/250
150	330	65	TV-150/330

### Technical data

Nomina pressure:	PN 16
Medium:	circulation water
Medium temperature:	5 – 140 °C
Valve curve characteristic:	equal percentage
Type of connection:	flanges (EN 1092-2)
Housing material:	GG 25
Valve cone material:	
- up to DN 50	WN1.4021
- from DN65 to DN150	GG 25/WN1.4021
Stem material:	WN1.4057
Seat valve material:	WN1.4021
Sealing element material:	FPM (ISO1629)

## Dimensions

DN	(mm)	15	25	32	40	50	65	80	100	125	150
D	(mm)	95	115	140	150	165	185	200	220	250	285
L	(mm)	130	160	180	200	230	290	310	350	400	480
z/d	(mm)	4/14		4/19				8/19		8/23	
d <sub>k</sub>	(mm)	65	85	100	110	125	145	160	180	210	240
h <sub>1</sub>	(mm)	110	121	142	149	167	181	210	220	260	280
H	(mm)	230	235	240	250	370	390	435	465	500	535
weight	(kg)	5	8	11,5	13	20	28	36	54	70	91



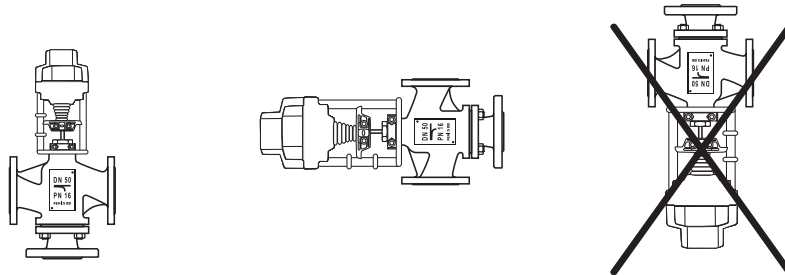
- DN Nominal diameter
- D Flange diameter
- L Distance between flanges
- z Number of bolt holes
- d Bolt hole diameter
- d<sub>k</sub> Bolt circle diameter
- h<sub>1</sub> Height up to the flange axis

## Installation

The valve can be installed in all positions, from horizontal to vertical, except in vertical position with the actuator pointing downwards.

The arrow on the valve body must match the direction of fluid flow through the valve.

A strainer should be installed upstream of the control valve.



## Disposal



Prior to the assembly, maintenance and disassembly, the system must be depressurized, cooled down and emptied.

Only authorized, trained and qualified personnel may perform activities of assembly, start-up, operation and disassembly of the equipment.

Before disposal the valve must be dismantled into groups of structural components and delivered to authorized waste recycling organizations in order to preserve the environment. Local legislations must be obeyed when disposing of the components.

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Feniks BB has implemented and maintains quality and environment management systems in accordance with international standards ISO 9001:2008 and ISO 14001:2004.