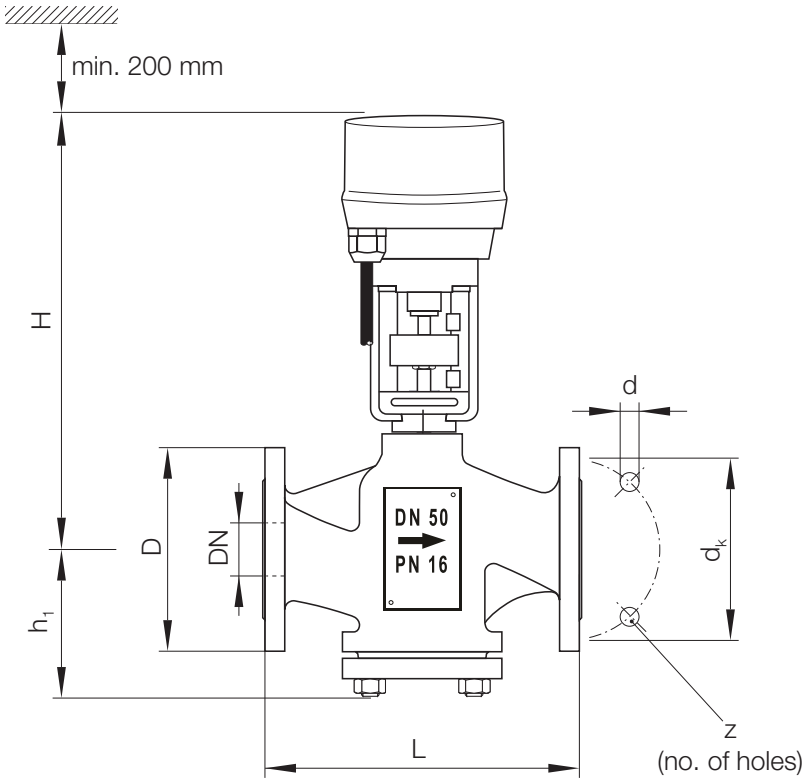
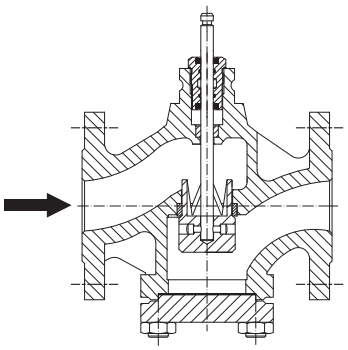
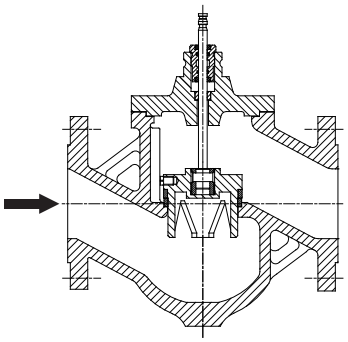
HERZ-Two Port Flanged Valve

Data sheet for Two Port Flanged Valve PN16, Issue 0514

Dimensions in mm




DN 15 - DN 65


DN 80 - DN 150

Order Nr.	DN	Stroke [mm]	kvs	D	L	z	d	d_k	h_1	H	kg
F **4035** 01	15	10	1	95	130	4	14	65	68	230	4,5
F **4035** 11	15	10	1,6	95	130			65	68	230	4,5
F **4035** 21	15	10	2,5	95	130			65	68	230	4,5
F **4035** 31	15	14	4	95	130			65	68	230	4,5
F **4035** 03	25	20	6,3	115	160			85	85	235	7,5
F **4035** 13	25	20	10	115	160			85	85	235	7,5
F **4035** 04	32	20	16	140	180		19	100	105	240	10,5
F **4035** 05	40	20	25	150	200			110	115	250	11
F **4035** 06	50	40	40	165	230			125	125	370	17,5
F **4035** 07	65	40	63	185	290			145	132	390	25
F **4035** 08	80	40	100	200	310	8		160	15	435	34
F **4035** 09	100	45	160	220	350			180	127	465	49
F **4035** 10	125	65	250	250	400			210	145	500	65
F **4035** 41	150	65	330	285	480		23	240	180	535	84

Technical data

Max. operating pressure	16 bar
Min. operating temperature	5 °C
Max. operating temperature	130 °C
Valve curve characteristic	equal percentage
Type of connection	Flanges (EN 1092-2)
Valve body material	GG 25
Sealing element material	FPM (ISO1629)
Valve seat material	WN1.4021
Valve cone material	
up to DN 50	WN1.4021
from DN 65 to DN 150	GG 25/WN1.4021
Stem material	WN1.4057

Water purity in accordance with the ÖNORM H 5195 and VDI 2035 standards.

Description

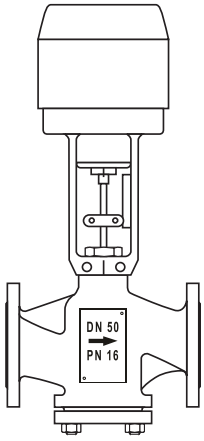
The two port flanged valve is primarly designed to control the flow of circulation water in district heating systems, as well as for remote closing of heating pipelines. Circulation medium should be cold, warm and hot water in temperature range from 5°C to 130°C.
The valve can be utilised in almost all heating, ventilation and air-conditioning systems and in industrial and technological processes. The valve curve is equal percentage. Regulation ratio (ratio between nominal and minimal flow coefficient) is 50:1. The selection of the two port flanged valve is according to the diagram of kvs values.
The two port valve is configured so that the seat cone opens when the valve stem is despressed for valves up to nominal diameter DN 65 and the seat cone closes when the valve stem is depressed for the larger sizes.

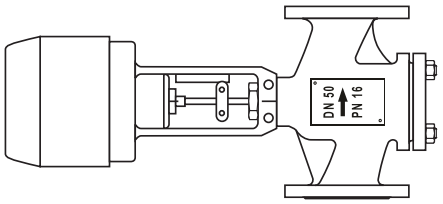
Installation

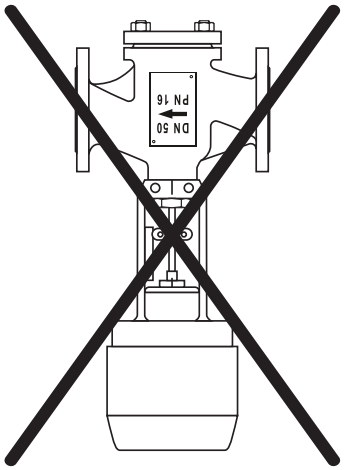
The valve can be installed in all positions, from horizontal to vertical, except in vertical position with the actuator pointing downwards.

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

The valves must be installed for the correct application using clean fittings. A HERZ strainer (4111) should be fitted to prevent impurities.
For installation, the local and international standards have to be followed.







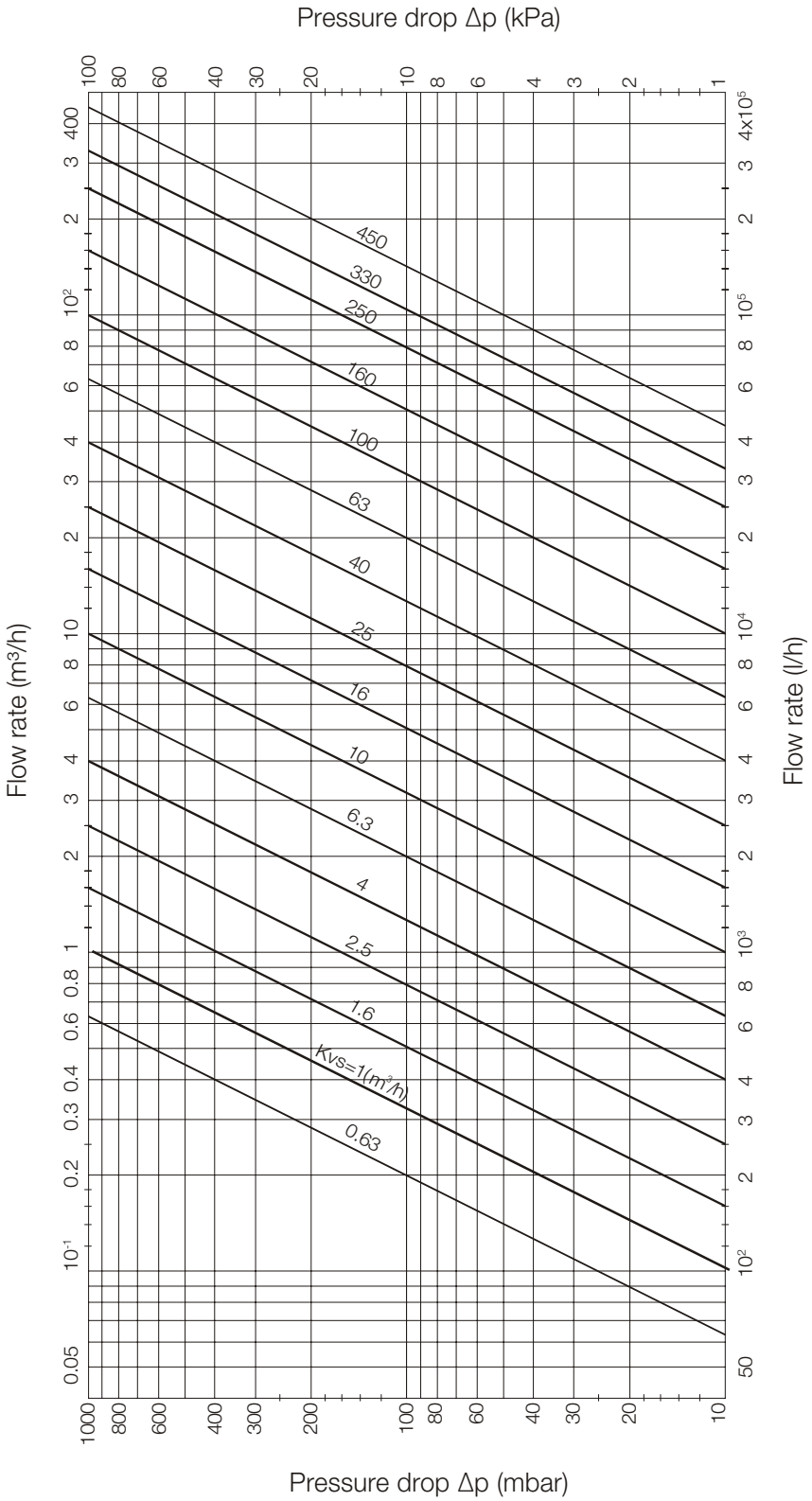
Disposal

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 recucling organizations in order to preserve the environment. Local legislations must be obeyed when disposing of the components.

Selection diagram



Electric actuators

The Two Way Flanged valves can be used with different types of actuators, depending on the range of usage. Actuators to the according valves are selected with the following table.

2 - Way	DN	F **7712** 90 24V, mod	F **7712** 91 24V, mod	F **7712** 92 24V, mod	F **7712** 93 24V, mod	F **7712** 94 24V, mod	F **7712** 95 24V, 3-pt	F **7712** 96 24V, 3-pt	F **7712** 97 24V, 3-pt	F **7712** 98 24V, 3-pt	F **7712** 81 230V, 3-pt	F **7712** 82 230V, 3-pt	F **7712** 83 230V, 3-pt	F **7712** 84 230V, 3-pt	F **7712** 85 230V, 3-pt
F **4035** 01	15	✓					✓				✓				
F **4035** 11	15	✓					✓				✓				
F **4035** 21	15	✓					✓				✓				
F **4035** 31	15	✓					✓				✓				
F **4035** 03	25	✓					✓				✓				
F **4035** 13	25	✓					✓				✓				
F **4035** 04	32		✓					✓				✓			
F **4035** 05	40		✓					✓				✓			
F **4035** 06	50			✓	✓				✓	✓			✓	✓	
F **4035** 07	65			✓						✓				✓	
F **4035** 08	80			✓						✓				✓	
F **4035** 09	100			✓						✓				✓	
F **4035** 10	125					✓									✓
F **4035** 41	150					✓									✓

Please note: all diagrams are indicative in nature and do not claim to be complete.
All specifications and statements within this brochure are according to information available at the time of printing and meant for informational purpose only. Herz Armaturen reserves the right to modify and change products as well as its technical specifications and/or it functioning according to technological progress and requirements. It is understood that all images of Herz products are symbolic representations and therefore may visually differ from the actual product. Colours may differ due to printing technology used. In case of any further questions don't hesitate to contact your closest HERZ Branch-office.