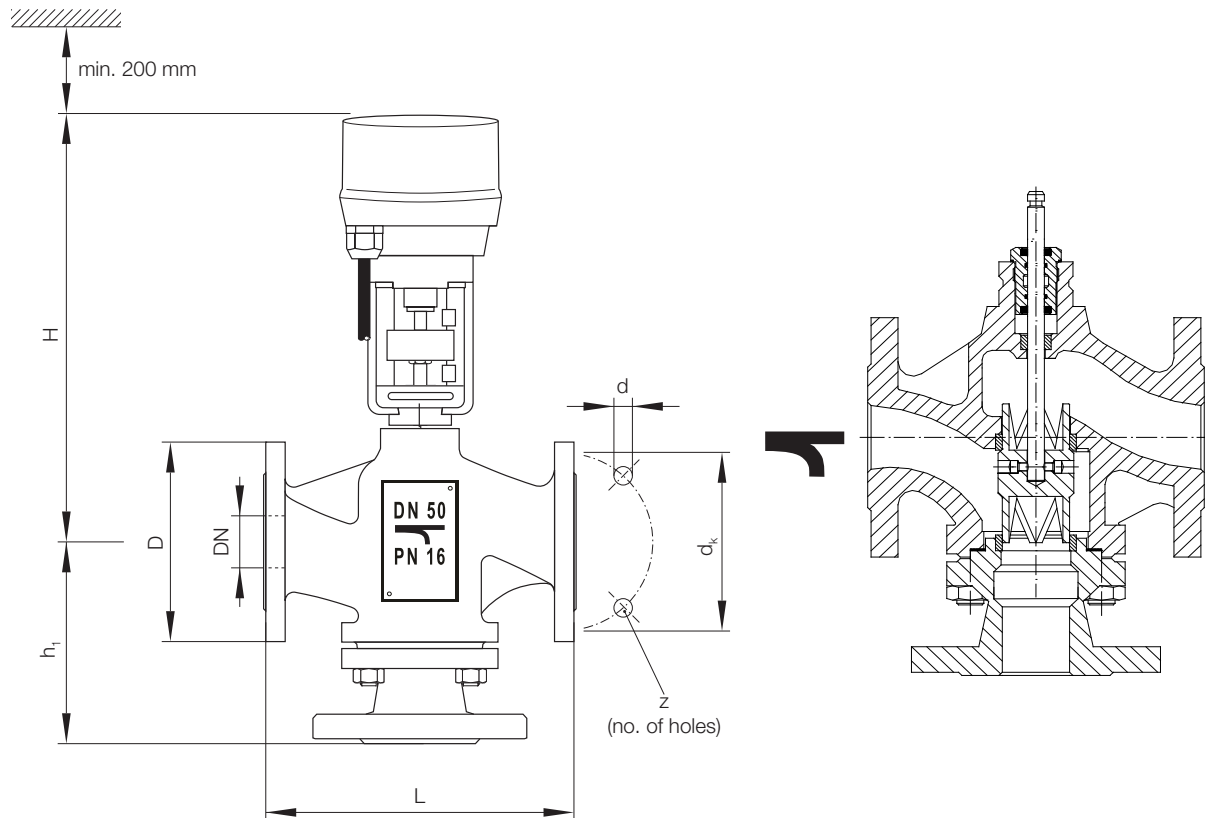


HERZ-Three Port Flanged Valve

Data sheet for Three Port Flanged Valve PN16, Issue 0514

☑ Dimensions in mm



Order Nr.	DN	Stroke [mm]	kvs	D	L	z	d	dk	h ₁	H	kg
F 4037 01	15	10	1	95	130	4	14	65	110	275	5
F 4037 11	15	10	1,6	95	130			65	110	275	5
F 4037 21	15	10	2,5	95	130			65	110	275	5
F 4037 31	15	14	4	95	130			65	110	275	5
F 4037 03	25	20	6,3	115	160			85	121	280	8
F 4037 13	25	20	10	115	160			85	121	280	8
F 4037 04	32	20	16	140	180	8	19	100	142	285	11,5
F 4037 05	40	20	25	150	200			110	149	295	13
F 4037 06	50	40	40	165	230			125	167	430	20
F 4037 07	65	40	63	185	290			145	181	450	28
F 4037 08	80	40	100	200	310			160	210	495	36
F 4037 09	100	45	160	220	350			180	220	525	54
F 4037 10	125	65	250	250	400	8	23	210	260	500	70
F 4037 41	150	65	330	285	480			240	280	535	91

☑ 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 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 three port 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 130°C.

The valve is utilised in almost all heating, ventilation and air-conditioning systems and in industrial and technological processes. The three port flanged valve is used as a mixing and diverting 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 kvs values.

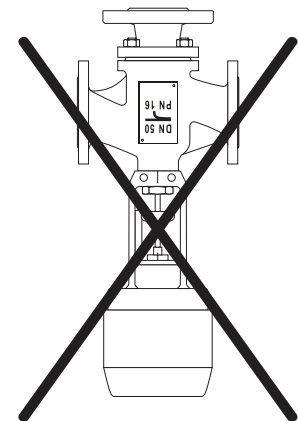
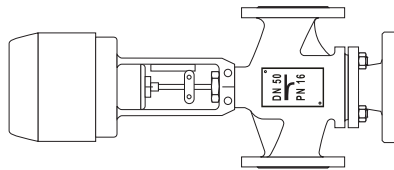
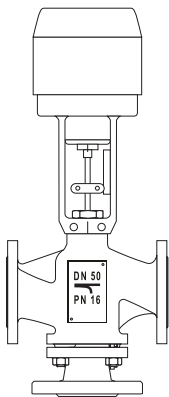
☑ Installation

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.



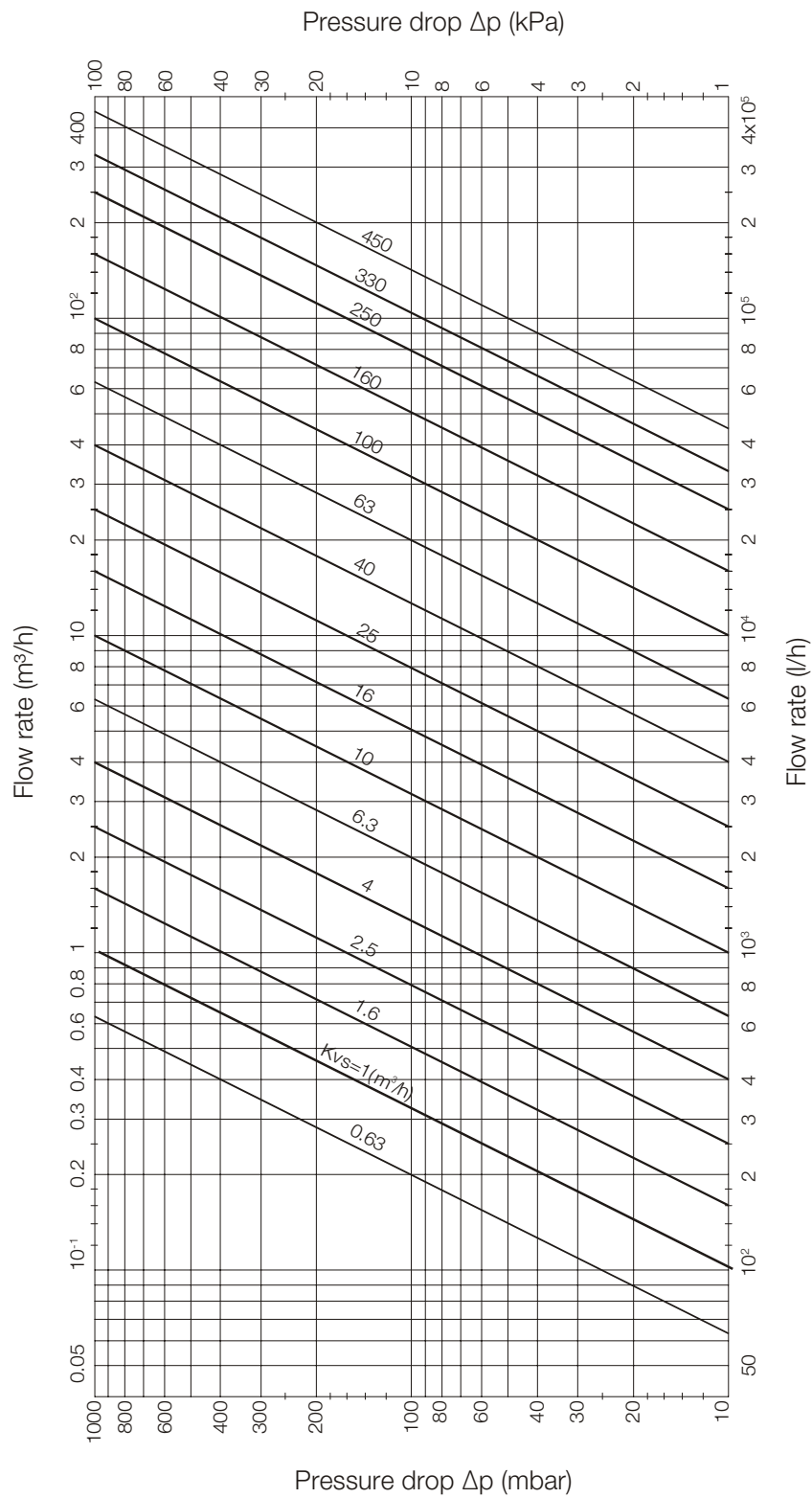
☑ Disposal

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

Selection diagram



Electric actuators

The Three 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.

	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
3 - Way														
DN														
F 4037 01	✓					✓				✓				
F 4037 11	✓					✓				✓				
F 4037 21	✓					✓				✓				
F 4037 31	✓					✓				✓				
F 4037 03	✓					✓				✓				
F 4037 13	✓					✓				✓				
F 4037 04		✓					✓				✓			
F 4037 05		✓					✓				✓			
F 4037 06								✓				✓		
F 4037 07									✓				✓	
F 4037 08									✓				✓	
F 4037 09									✓				✓	
F 4037 10														✓
F 4037 41														✓

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 its 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.