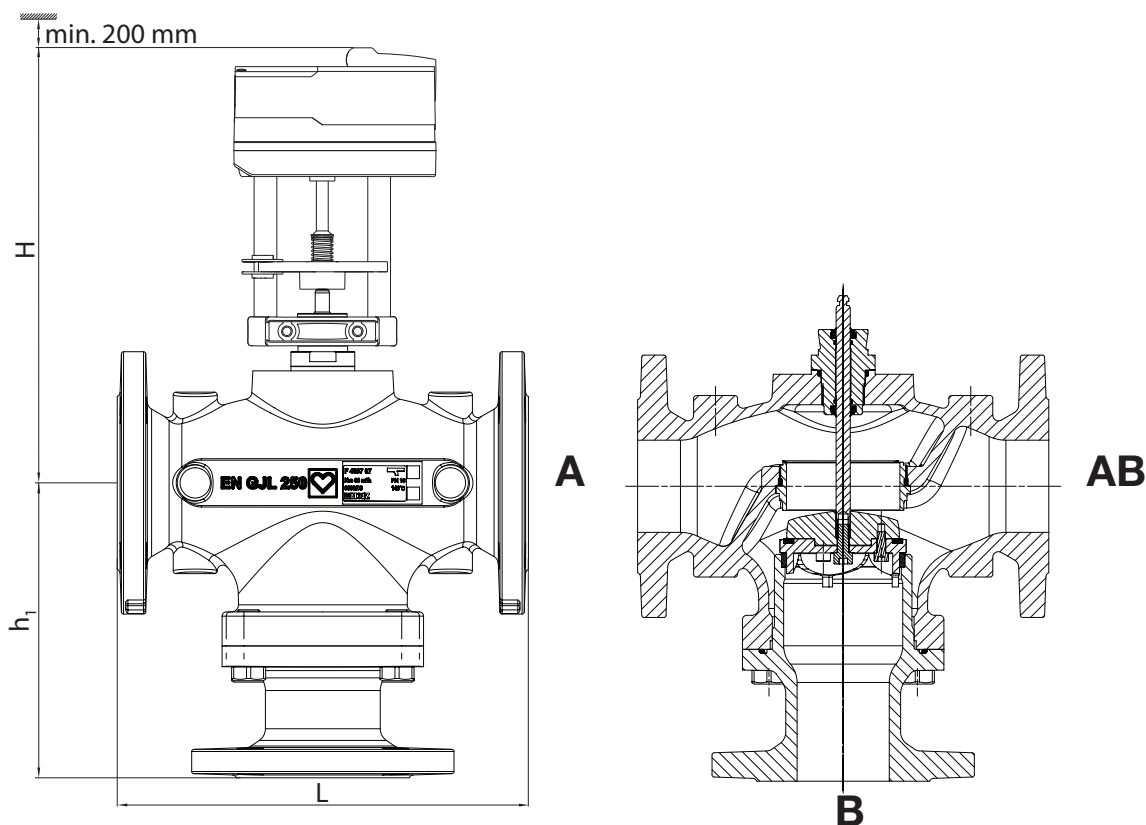


HERZ-Three-Port-Flanged Valve

F 4037 XX

Datasheet „3-Port-Valves, flanged“ PN16

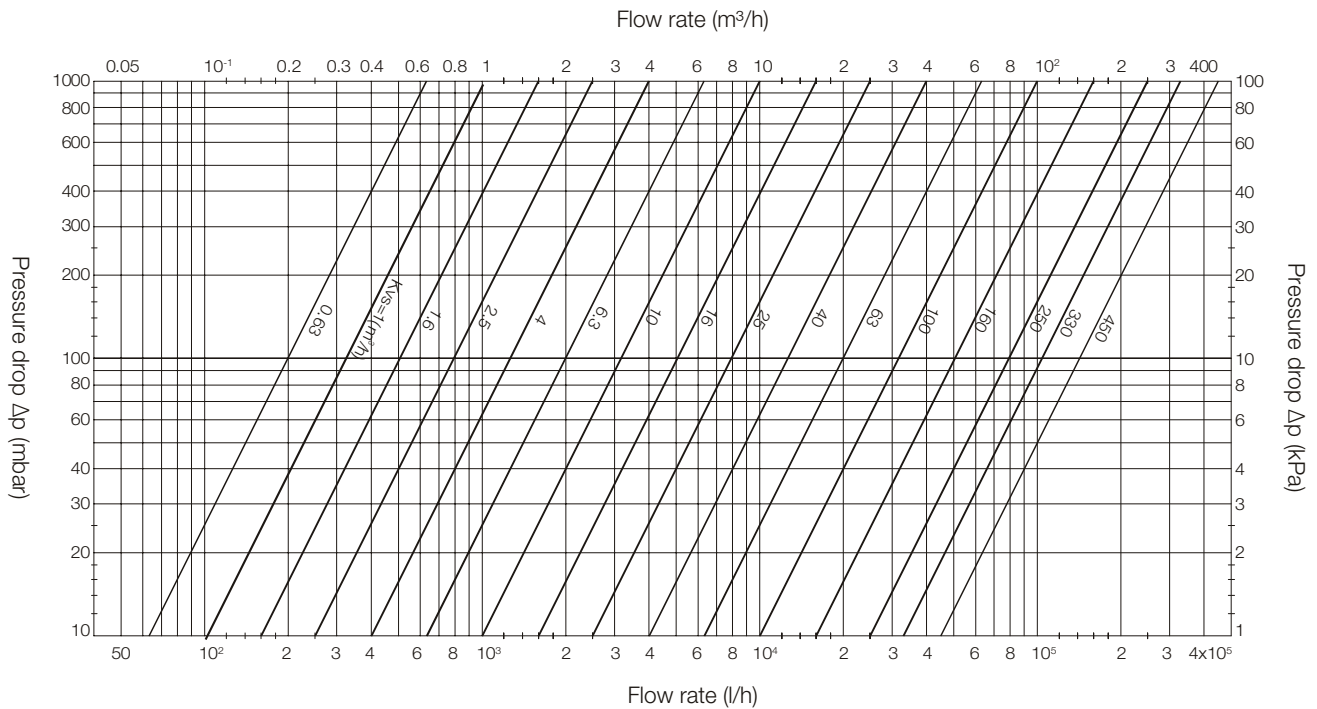
☑ Dimensions in mm



Order Nr.	DN	Stroke [mm]	kvs	D	L	Number of flange bores	d	dk	h1	H	kg
F 4037 01	15	10	1	95	130	4	14	65	110	250	5
F 4037 11	15	10	1,6	95	130			65	110	250	5
F 4037 21	15	10	2,5	95	130			65	110	250	5
F 4037 31	15	14	4	95	130			65	110	250	5
F 4037 03	25	20	6,3	115	160			85	121	255	8
F 4037 13	25	20	10	115	160			85	121	255	8
F 4037 04	32	20	16	140	180	8	19	100	142	305	11,5
F 4037 05	40	20	25	150	200			110	149	315	13
F 4037 16	50	20	40	165	230			125	167	305	16
F 4037 07	65	20	63	185	290			145	208	315	25
F 4037 08	80	20	100	200	310			160	233	350	31
F 4037 09	100	40	160	220	350			180	262	480	46
F 4037 10	125	40	250	250	400			210	268	520	72
F 4037 41	150	40	330	285	480		23	240	261	525	91

PN16					Leakage acc. to 12266-1	
Order number	DN	Usage as mixing valve Differential pressure max. [bar]			Direct flow branch	By-pass branch
F 4037 01	15	4,0			≤0.1%kvs	≤0.5%kvs
F 4037 11	15	4,0				
F 4037 21	15	4,0				
F 4037 31	15	4,0				
F 4037 03	25	4,0				
F 4037 13	25	4,0				
F 4037 04	32		4,0			
F 4037 05	40		4,0			
F 4037 16	50		3,0		≤0.01%kvs	
F 4037 07	65		1,5			
F 4037 08	80		1,0			
F 4037 09	100			2,0		
F 4037 10	125			0.9		
F 4037 41	150			0.9		

Selection diagram



☑ Technical data and material

Max. operating pressure	16 bar (PN 16)
Min. operating temperature	5 °C
Max. operating temperature	150 °C
Valve curves characteristic	equal percentage

Type of connection	Flanges (EN 1092-2)
Valve body material	EN-GJL-250
Sealing element material	70EPDM
Valve seat material	WN1.4021
Valve cones material	WN1.4021/brass
Stem material	WN1.4404

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

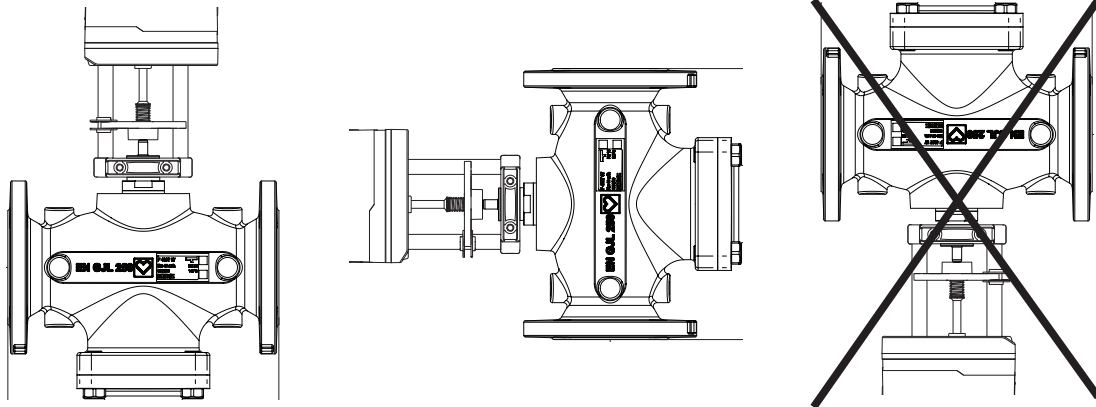
☑ Description

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 150°C.

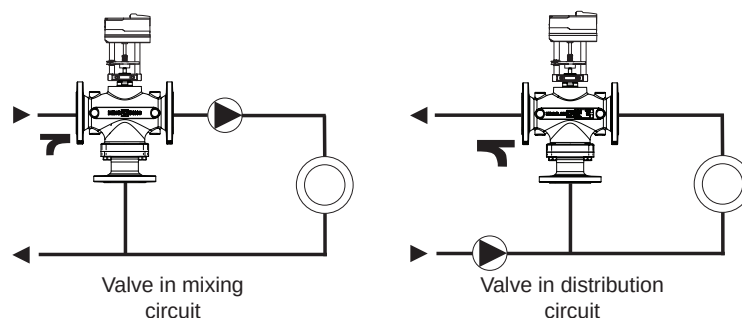
The valve is utilized in almost all heating, ventilation and air-conditioning systems and in industrial and technological processes. The three port flanged valve is used as a mixing valve and in the case when it should change water circulation from one pipeline to another. The valve curve is equal percentage. Regulation ratio (ratio between nominal and minimal flow coefficient) is 30:1. 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 during operation. Therefore an installation is recommended. For installation, the local and international standards have to be followed.



☑ Application examples



Selection matrix

In order to select a right actuator please refer to the selection matrix. The order number which stands in the cell of the suitable actuator is the adapter which is needed to mount actuator on the valve. To be ordered separately.

Order number (actuator)			1 7712 29	1 7712 31	1 7712 32	1 7712 28	1 7712 30
Actuator type			24 V mod., 2-3 Point	24 V mod., 2-3 Point	24 V mod., 2-3 Point	230 V 2, 3 Point.	230 V 2, 3 Point.
Order Num.	DN	t °C	500 N, 20mm	1000 N, 20mm	2500 N, 40mm	500 N, 20mm	1000 N, 20mm
F 4035 40	15	150	1 7712 20			1 7712 20	
F 4035 51	15	150	1 7712 20			1 7712 20	
F 4035 61	15	150	1 7712 20			1 7712 20	
F 4035 71	15	150	1 7712 20			1 7712 20	
F 4035 43	25	150	1 7712 20			1 7712 20	
F 4035 53	25	150	1 7712 20			1 7712 20	
F 4035 44	32	150		1 7712 17			1 7712 17
F 4035 45	40	150		1 7712 17			1 7712 17
F 4035 16	50	150		1 7712 17			1 7712 17
F 4035 56	50	150		1 7712 17			1 7712 17
F 4035 07	65	150		1 7712 17			1 7712 17
F 4035 47	65	150			Direct		
F 4035 08	80	150		1 7712 17			1 7712 17
F 4035 48	80	150			Direct		
F 4035 09	100	150			Direct		
F 4035 49	100	150			Direct		
F 4035 10	125	150			Direct		
F 4035 50	125	150			Direct		
F 4035 41	150	150			Direct		
F 4035 52	150	150			Direct		
F 4037 01	15	150	1 7712 20			1 7712 20	
F 4037 11	15	150	1 7712 20			1 7712 20	
F 4037 21	15	150	1 7712 20			1 7712 20	
F 4037 31	15	150	1 7712 20			1 7712 20	
F 4037 03	25	150	1 7712 20			1 7712 20	
F 4037 13	25	150	1 7712 20			1 7712 20	
F 4037 04	32	150		1 7712 17			1 7712 17
F 4037 05	40	150		1 7712 17			1 7712 17
F 4037 16	50	150		1 7712 17			1 7712 17
F 4037 07	65	150		1 7712 17			1 7712 17
F 4037 08	80	150		1 7712 17			1 7712 17
F 4037 09	100	150			Direct		
F 4037 10	125	150			Direct		
F 4037 41	150	150			Direct		