

MV 310 MANUAL DIAPHRAGM VALVE PVC-U - PP - PVDF

FEATURES

The MV310 diaphragm valves are 2-way valves intended for current valve applications. This valve, PN10, is used to isolate low-pressure water, acid or alkaline fluid networks (cf. 's table of resistance of materials) Handwheel control is used for flow-rate adjustment.

AVAILABLE VERSIONS

REFERENCE	BODY	GASKETS	Diaphragm
5400C-- --*	PVC-U	EPDM	EPDM
5402C-- --*	PVC-U	FPM	PTFE
5410C-- --*	PP	EPDM	EPDM
5412C-- --*	PP	FPM	PTFE
5422C-- --*	PVDF	FPM	PTFE

Diameter: DN15 to DN100.

PTFE-coated EPDM or EPDM diaphragm.

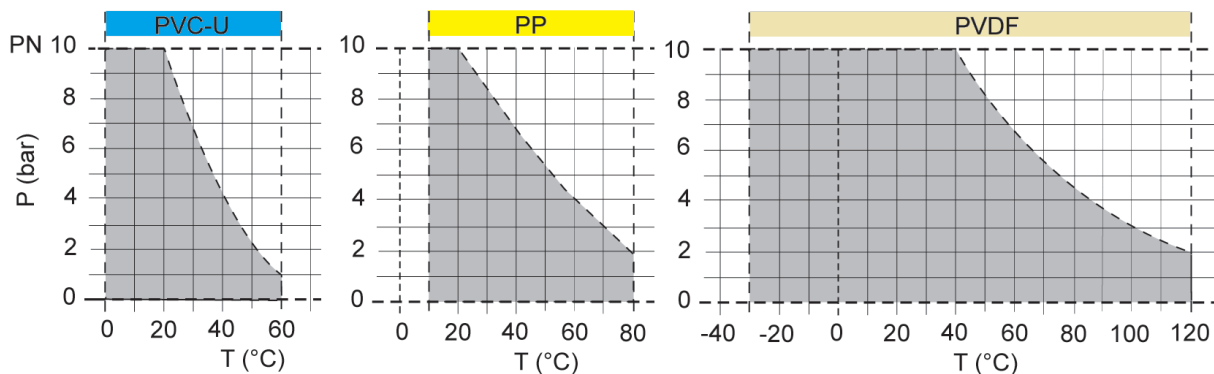
Opening visual indicator.

Union connection with female end according to DIN/ISO

*C-- -- DN of the valve (example: MV310 PVC-U/FPM DN25 valve code 5402CC025)

Male end connection according to DIN/ISO

*M-- -- DN of the valve (example: MV310 PVC-U/FPM DN25 valve code 5401BM025)

LIMITS OF USE

The limits of each material are valid for the nominal pressures indicated, and for a service life of 25 years. These are indicative values for non-hazardous transported materials (DIN 2403), for which the valve material is resistant. Please contact us for use at temperatures below 0°C (+10°C for PP).

OPTIONS

Threaded union collar, PE, long for IR welding ...

PN10 rotating flange connection

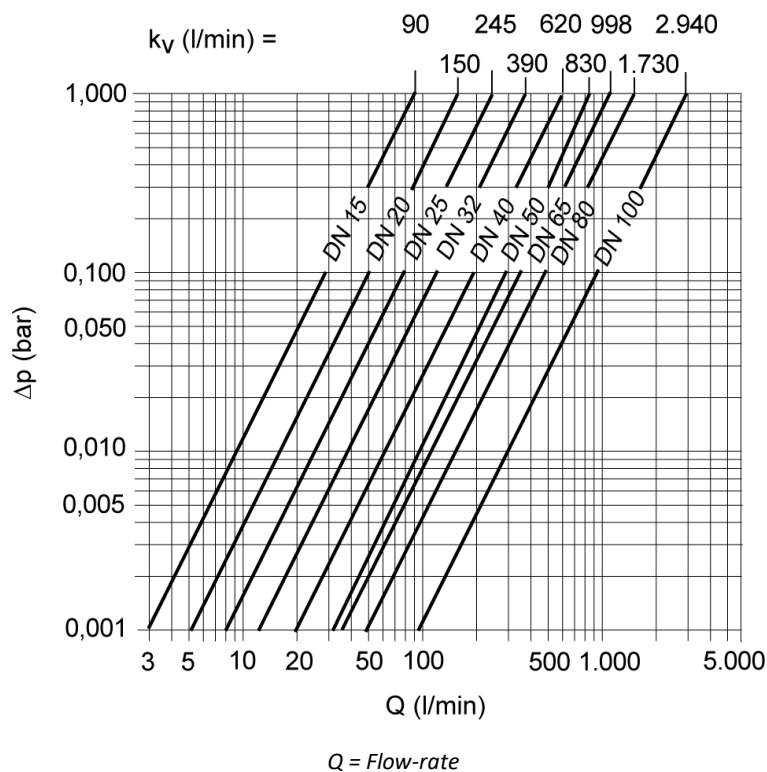
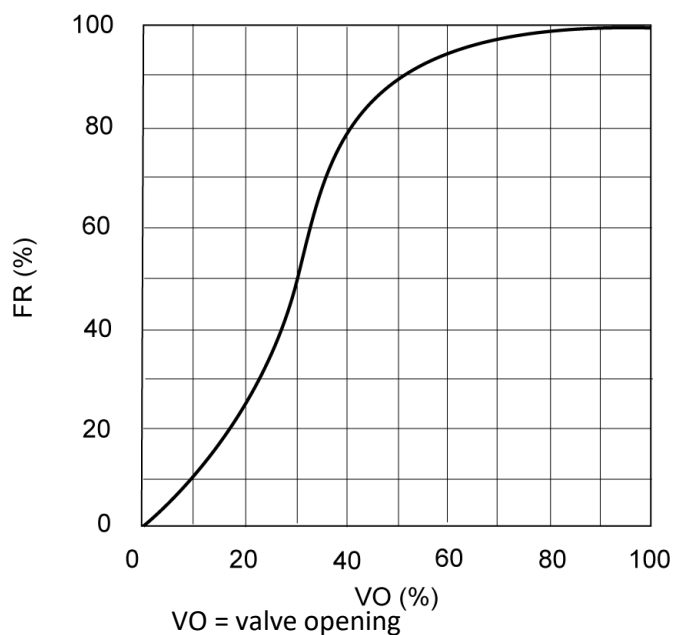
FPM diaphragm ...



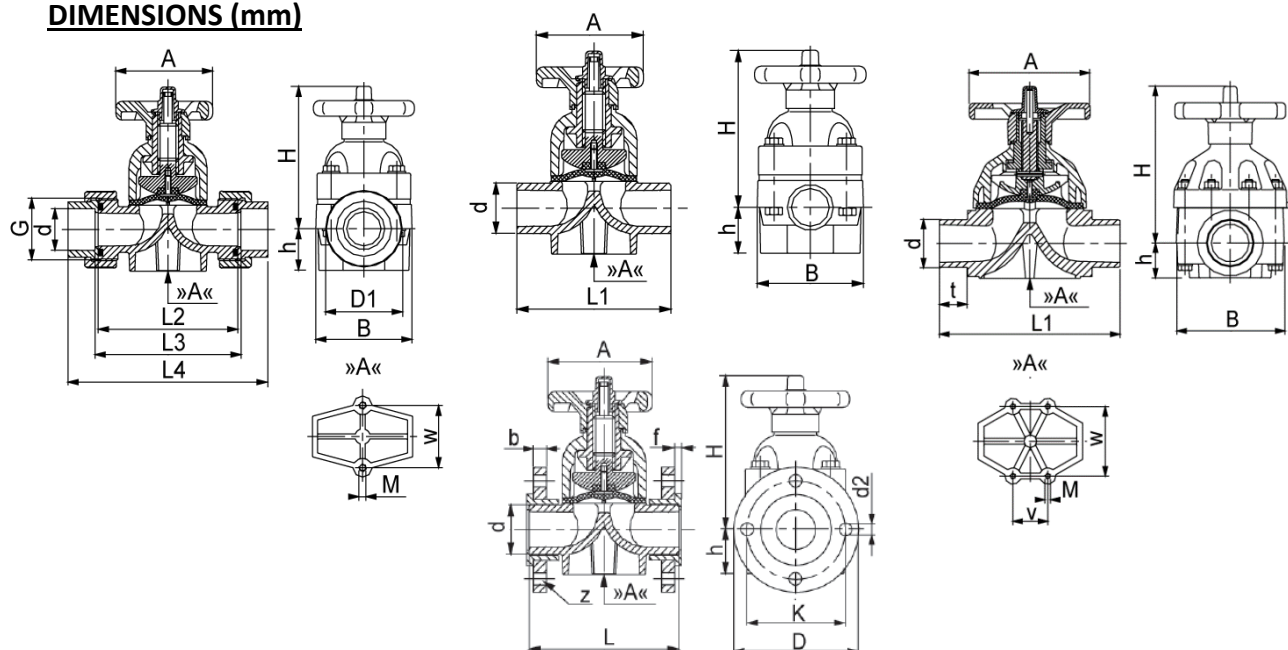
STÜBBE



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HYDRAULIC FEATURESPressure drop curve (Indicative value for H₂O at 20°C)Note: $C_v = K_v \times 0.07$; $f_v = K_v \times 0.0585$ **FLOW-RATE CHARACTERISTIC**

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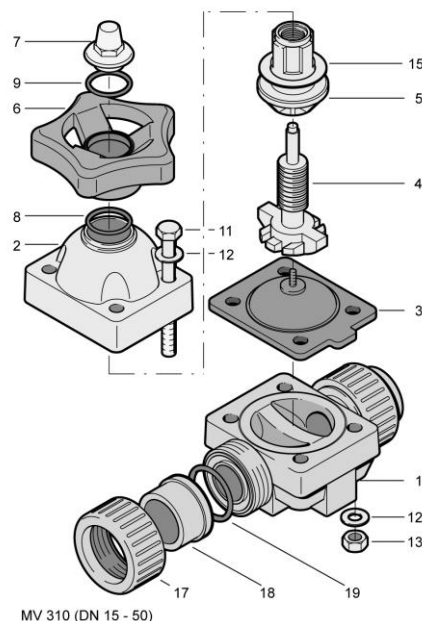
DIMENSIONS (mm)

DN	15	20	25	32	40	50	65	80	100
d	20	25	32	40	50	63	75	90	110
A	90	90	100	100	130	130	190	190	240
B	72	72	92	92	119	119	177	177	217
D1-PVC	46	56	66	79	87	107			
D1-PP	41	50	58	72	79	98			
D1 PVDF	47	57	64	78	89	109			
d2	14	14	14	18	18	18	18	18	18
D	95	105	115	140	150	165	185	200	220
f	6	7	7	8	8	9	10	11	12
G	1"	1" ¼	1" ½	2"	2" ¼	2" ¾			
h	26	26	26	40	40	40	54	54	64
H	98	102	131	135	169	175	245	245	285
K	65	75	85	100	110	125	145	160	180
L	130	150	160	180	200	230	290	310	350
L1	124	144	154	174	194	224	284	300	340
L2	90	108	116	134	154	184			
L3	96	114	122	140	160	190			
L4 PVC	125	146	158	181	207	244			
L4 PP	128	152	166	192	222	266			
L4 PVDF	128	150	162	184	210	248			
M	M6	M6	M6	M8	M8	M8	M12	M12	M10
t PVC	16	19	21	23	26	30	44	52	61
t PP/PVDF	16	19	22	26	31	38	33.5	38	45
W	26	26	26	45	45	45	100	100	120

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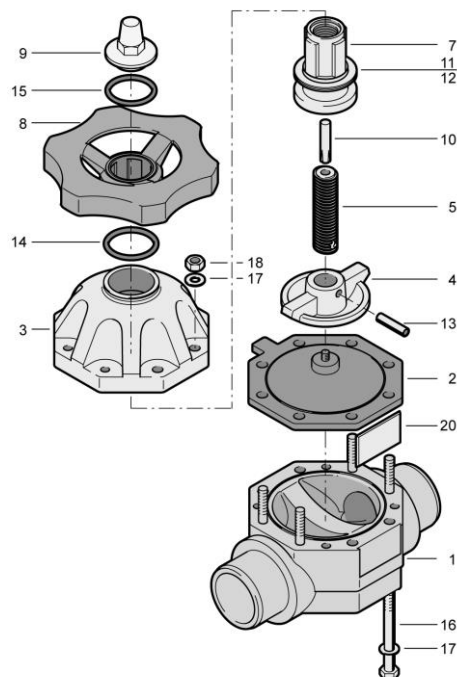
CONSTRUCTION

N°	Item	PVC-U	PP	PVDF
1	Body	PVC-U	PP	PVDF
2	Upper part	PP-GF	PP-GF	PP-GF
3	Diaphragm	EPDM or EPDM/PTFE	EPDM or EPDM/PTFE	EPDM or EPDM/PTFE
4	Shaft	PA	PA	PA
5	Shaft nut	PA	PA	PA
6	Wheel	PA	PA	PA
7	Cap	PVC-T	PVC-T	PVC-T
8	O-ring	EPDM or FPM	EPDM or FPM	EPDM or FPM
9	O-ring			
11	Screw	SS	SS	SS
12	Washer	SS	SS	SS
13	Nut	SS	SS	SS
15	Bearing washer	SS	SS	SS
17	Union nut	PVC-U	PP	PVDF
18	Union collar:	PVC-U	PP	PVDF
19	O-ring	EPDM/FPM	EPDM/FPM	EPDM/FPM



MV 310 (DN 15 - 50)

N°	Item	PVC-U	PP	PVDF
1	Body	PVC-U	PP	PVDF
2	Diaphragm	EPDM or EPDM/PTFE	EPDM or EPDM/PTFE	EPDM or EPDM/PTFE
3	Upper part	PP-GF	PP-GF	PP-GF
4	Pressure element	PA	PA	PA
5	Shaft	C1 steel	C1 steel	C1 steel
7	Shaft nut	PA	PA	PA
8	Wheel	PA	PA	PA
9	Cap	PVC-T	PVC-T	PVC-T
10	Indicator stem	PA	PA	PA
11	Axial bearing	PA	PA	PA
12	Bearing washer	SS	SS	SS
13	Pin	Steel	Steel	Steel
14	O-ring	EPDM or FPM	EPDM or FPM	EPDM or FPM
15	O-ring			
16	Screw	SS	SS	SS
17	Washer	SS	SS	SS
18	Nut	SS	SS	SS
20	Rating plate			



MV 310 (DN 65 - DN 100)

MAINTENANCE

Screw tightening torque in Nm for diaphragm replacement.

d (mm)	20	25	32	40	50	63	75	90	110
EPDM diaphragm	6	6	10	10	18	18	18	18	20
PTFE diaphragm	8	8	12	12	20	20	20	20	22