



VACUUM-PROOF DIAPHRAGM VALVE



DV Series

DV300

Size :80mm(3")~250mm(10")

MATERIALS : UPVC,PP,PPG.CPVC,PVDF

PATNET:NO, 18490

Note: Standard Type Diaphragm valv in size

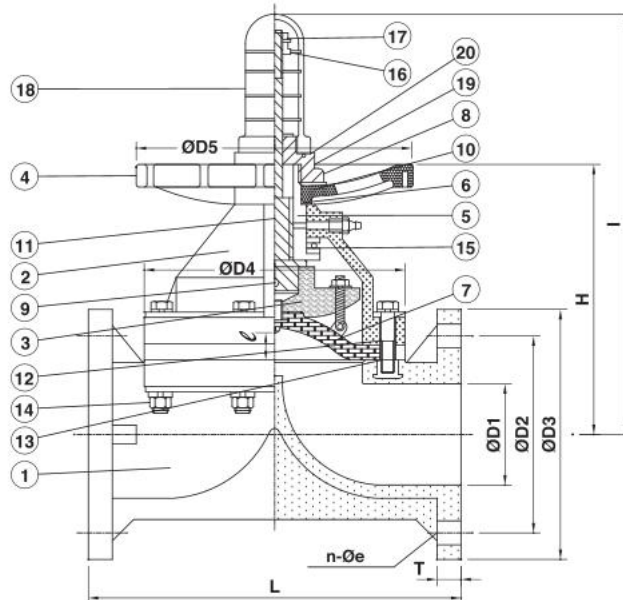
15mm(1/2")-65mm(2 1/2")can be used under vaccum

FEATURES

- Concerning the standard diaphragm valve, the inserted metal of the diaphragm frequently comes out, when exposed to vacuum, therefore, the valve cannot function at all, S.H.VACUUM PROOF DIAPHRAGM VALVE has solved this problem and has won favorable valuation in various fields.
- S.H. VACUUM-PROOF DIAPHRAGM VALVE has more inserted matels of the diaphragm. Tghe diaphragm is designed forbeing hanged from the compressor (Patent). This prevents the diaphragm from being drawn towards the valve seat (downwards) by vacuum. This valve can endure the perfect vacuum. (-760m/m Hg)
- This VALVE can also be used under pressure.As both body and bonnet are thick and monobloc moldings with vacuum resistance, this can be used not only under vaccum but under pressure.
(3kg/cm2 (40lb/in2)-7kg/cm2(100lb/in2)

Reference(Unit: m/mHg)

Nom. Size m/m(inch)	STANDARD TYPE	VACUUM TYPE	Ball Valv
	Rubber Dia.	Rubbere dia.	
15(1/2")	-760	-	-760
20(3/4")	-760	-	-760
25(1")	-760	-	-760
40(1-1/2")	-760	-	-760
50(2")	-760	-	-760
65(2-1/2")	-760	-	-760
80(3")	-650 ~ -760	-760	-
100(4")	-500 ~ -600	-760	-
125(5")	-360 ~ -470	-760	-
150(6")	-250 ~ -360	-760	-
200(8")	-100 ~ -200	-760	-
250(10")	below -50	-760	-



DIMENSIONS TABLE

JIS													PRESS Test for Assembly (at 20°C)				
Unit: mm													Test Pressure Unit: kgf/cm ²				
Nom. Size m/m(inch)	D1	D2	D3	e	n No. of holes	D4	D5	Lift ℓ	L	T	H	I	Rubber Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF
80(3")	78	150	185	19	8	215	202	34	280	22	218	293	10	10	10	10	10
100(4")	100	175	210	19	8	255	241	54	340	22	261	370	10	10	10	10	10
125(5")	125	210	250	23	8	320	274	72	410	24	308	412	10	7	7	10	10
150(6")	148	240	280	23	8	385	395	72	480	30	334	471	10	7	7	10	10
200(8")	198	290	330	23	12	430	395	96	570	30	419	625	7	5	5	7	7
250(10")	248	355	400	25	12	540	555	132	680	32	510	750	7	5	5	7	7

ANSI													PRESS Test for Assembly (at 20°C)				
Unit: inch													Test Pressure Unit: psi				
Nom. Size m/m(inch)	D1	D2	D3	e	n No. of holes	D4	D5	Lift ℓ	L	T	H	I	Rubber Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF
80(3")	3.07	6.00	7.52	0.75	4	8.46	7.95	1.34	10.40	0.75	8.50	11.54	150	150	150	150	150
100(4")	3.94	7.50	9.02	0.75	8	10.04	9.49	2.13	12.95	0.91	10.28	14.57	150	150	150	150	150
125(5")	4.92	8.50	10.00	0.87	8	12.60	10.79	2.83	16.14	0.94	12.13	16.22	150	105	105	150	150
150(6")	5.83	9.51	10.98	0.87	8	15.16	15.55	2.83	18.90	1.18	13.15	18.54	150	105	105	150	150
200(8")	7.80	11.75	13.50	0.87	8	16.93	15.55	3.78	22.44	1.26	16.40	24.61	105	75	75	105	105
250(10")	9.76	14.25	15.98	0.98	12	21.26	21.85	5.20	26.77	1.26	20.08	29.53	105	75	75	105	105

DIN													PRESS Test for Assembly (at 20°C)				
Unit: mm													Test Pressure Unit: (bar)				
Nom. Size m/m(inch)	D1	D2	D3	e	n No. of holes	D4	D5	Lift ℓ	L	T	H	I	Rubber Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF
80(3")	78	160	200	18	8	215	202	34	310	22	218	293	10	10	10	10	10
100(4")	100	180	220	18	8	255	241	54	350	25	261	370	10	10	10	10	10
125(5")	125	210	250	18	8	320	274	72	400	24	308	412	10	7	7	10	10
150(6")	148	240	285	23	8	385	395	72	480	30	334	471	10	7	7	10	10
200(8")	198	290	340	23	8	430	395	96	600	32	419	625	5	5	5	7	7
250(10")	248	350	395	23	12	540	555	132	680	32	510	750	5	5	5	7	7

※ The dimension table is calculated based on PVC material.
 ※ The flanged length tolerance is according to EN558-1:1995.