



DIAPHRAGM VALVE / Flanged type



DF Series

隔膜凡而（法蘭式）

DF 300
Size: DN15~DN250

DE300 PVDF 3 LAYS DIAPHRAGM VALVE

適用於高腐蝕流體的氯化氫、電解液等耐酸鹼專用

Suitable to the protect diaphragm from the gas permeation
in the corrosion resistance and electrolytic chlorine gas.

MATERIALS OF CONSTRUCTION

No.	Parts	Pcs.	Materials	No.	Parts	Pcs.	Materials
1	Body	1	UPVC, PP, CPVC, PPG, PVDF	10	Name Plate	1	PVC
2	Bonnet	1	UPVC, CPVC, PPG, PVDF	11	Grease Nipple	1	SUS304
3	Compressor	1	15A-25A PVDF 40A-250A FC20	12	Stud Bolt & Nut	4 15A-25A 6 40A-50A 8 65A-125A 12 150A 16 200A 20 250A	SUS304 BSBM SUS304
4	Hand Wheel	1	ABS	13	Inserted Nut		
5	Sleeve	1	15A-50A BSBM 65A-250A FCD45	14	Bolt Nut & Washer		
6	Stem	1	15A-50A BSBM 65A-250A SUS304	15	thrust Bearing	1	Standardized 80A-250A USED ONLY
7	Diaphragm	1	EPDM, HYPALON TEFLON, PVDF 3 lays	16	Stopper	1	SS-41 BSBM SUS304
7-1	Upper Board	1	SUS304	17	Set Nut	1	SS41 BSBM SUS304
7-2	Down Board	2	SUS304	18	Gauge Cover	1	PC
8	Cap	1	15A-25A BSBM 40A-250A PVC	19	Sheet Ring	1	EPDM
9	Compressor Pin	1	SUS-304	20	Washer	1	SUS304

Note : 1. SUS 304Stainless Steel AISI 304

4. FC 20.....Gray Cast Iron

2. SS 41Rolled steel for General Structure

5. SUP.....Steel for Spring ASTM A-230-68

3. BSBMFree Cutting Brass Bar

※ 第3、5、6、12、14項材質如用SUS-304或SUS-316為特殊規格，價格另計。

※ PVDF隔膜閥上蓋(BONNET)標準材質用PPG，如須使用PVDF上蓋為特殊規格，價格另計。

The standard material to bonnet : PPG.

Optional PVDF bonnet material for PVDF diaphragm valve.

Optional materials on request for part no. 4, 5, 6, 12, 14.: SUS 304 or SUS 316.

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DIMENSIONS TABLE

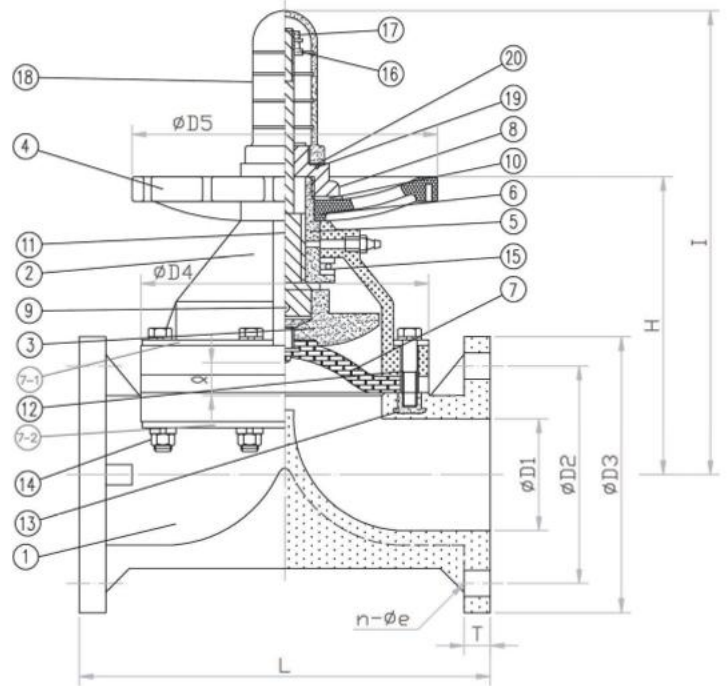
JIS												Unit: mm		PRESS Test for Assembly (at 20°C)									
Nom. Size m/m(inch)	D1	D2	D3	e	n No. of holes	D4	D5	Lift ℓ	L	T	H	I	Test Pressure Unit: kgf/cm ²										
													Rubber Diaphragm					Teflon Diaphragm					
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	CPVC	PVDF	
15(1/2")	16	70	91.5	15	4	58x51	94	13	110	15	101	140	10	10	10	10	10	10	10	10	10	10	
20(3/4")	20	75	97	15	4	70x60	94	13	120	17	106	152	10	10	10	10	10	10	10	10	10	10	
25(1")	25	90	125	19	4	79x65	94	14	130	17	113	158	10	10	10	10	10	10	10	10	10	10	
40(1-1/2")	41	105	135	19	4	123	147	24	180	19	133	193	10	10	10	10	10	10	10	10	10	10	
50(2")	52	120	151	19	4	148	147	28	210	19	145	210	10	10	10	10	10	10	10	10	10	10	
65(2-1/2")	68	140	185	19	4	183	202	32	250	24	197	276	10	10	10	10	10	7	7	10	10	10	
80(3")	78	150	183.5	19	8	201	202	34	280	23	218	293	10	10	10	10	10	7	7	10	10	10	
100(4")	100	175	210	19	8	250	241	54	340	24	261	370	10	10	10	10	10	7	7	10	10	10	
125(5")	125	210	250	23	8	321	274	72	410	26	308	412	10	7	7	10	10	7	7	7	7	7	
150(6")	148	240	282	23	8	382	395	72	480	33	334	471	10	7	7	10	10	7	7	7	7	7	
200(8")	198	290	337	23	12	431	395	96	570	33	419	625	7	5	5	7	7	5	5	5	5	5	
250(10")	248	355	397	25	12	529	555	132	680	38	510	750	7	5	5	7	7	5	5	5	5	5	



CV VALUE	
CV值 [GMP/(1lbf/in ²) ^{1/2}]	
Full Open: 100%	
尺寸	CV值
1/2"	3.27
3/4"	5.29
1"	8.87
1-1/2"	31.09
2"	43.15
2-1/2"	90.68
3"	116.79
4"	186.78
6"	345.26

BOLTS TORQUE VALUE		
SIZE	Kg.m	N.m
1/2"	90	8.83
3/4"	110	10.79
1"	110	10.79
1-1/2"	150	14.72
2"	220	21.58
2-1/2"	220	21.58
3"	280	27.47
4"	280	27.47
6"	280	27.47

1Kg.cm=0.0981N.m



DIMENSIONS TABLE

ANSI												Unit: inch		PRESS Test for Assembly (at 20°C)									
Nom. Size m/m(inch)	D1	D2	D3	e	n No. of holes	D4	D5	Lift ℓ	L	T	H	I	Test Pressure Unit: psi										
													Rubber Diaphragm					Teflon Diaphragm					
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	CPVC	PVDF	
15(1/2")	0.63	2.38	3.50	0.63	4	2.28x2	3.70	0.51	4.25	0.59	3.98	5.51	150	150	150	150	150	150	150	150	150	150	
20(3/4")	0.79	2.76	3.86	0.63	4	2.76x2.36	3.70	0.51	5.90	0.63	4.17	5.98	150	150	150	150	150	150	150	150	150	150	
25(1")	0.98	3.13	4.25	0.63	4	3.11x2.56	3.70	0.55	5.90	0.63	4.45	6.22	150	150	150	150	150	150	150	150	150	150	
40(1-1/2")	1.61	3.88	5.00	0.63	4	4.84	5.79	0.94	6.95	0.67	5.24	7.60	150	150	150	150	150	150	150	150	150	150	
50(2")	2.05	4.74	5.98	0.75	4	5.83	5.79	1.10	7.95	0.67	5.71	8.27	150	150	150	150	150	150	150	150	150	150	
65(2-1/2")	2.68	5.49	7.01	0.75	4	7.20	7.95	1.26	9.85	0.87	7.76	10.87	150	150	150	150	150	150	105	105	150	150	
80(3")	3.07	6.00	7.52	0.75	4	7.91	7.95	1.34	10.40	0.75	8.50	11.54	150	150	150	150	150	150	105	105	150	150	
100(4")	3.94	7.50	9.17	0.75	8	9.84	9.49	2.13	12.95	0.91	10.28	14.57	150	150	150	150	150	150	105	105	150	150	
125(5")	4.92	8.50	10.00	0.87	8	12.64	10.79	2.83	16.14	0.94	12.13	16.22	150	105	105	150	150	105	105	105	105	150	
150(6")	5.83	9.51	10.98	0.87	8	15.04	15.55	2.83	18.90	1.18	13.15	18.54	150	105	105	150	150	105	105	105	105	150	
200(8")	7.80	11.75	13.50	0.87	8	16.97	15.55	3.78	22.44	1.26	16.40	24.61	105	75	75	105	105	75	75	75	75	105	
250(10")	9.76	14.25	15.98	0.98	12	20.83	21.85	5.20	26.77	1.26	20.08	29.53	105	75	75	105	105	75	75	75	75	105	

DIN												PRESS Test for Assembly (at 20°C)										
Nom. Size m/m(inch)	D1	D2	D3	e	n No. of holes	D4	D5	Lift ℓ	L	T	H	I	Test Pressure Unit: (bar)									
													Rubber Diaphragm					Teflon Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	CPVC	PVDF
15(1/2")	16	65	95	14	4	58x51	94	13	130	23	101	140	10	10	10	10	10	10	10	10	10	
20(3/4")	20	75	105	14	4	70x60	94	13	150	23	106	152	10	10	10	10	10	10	10	10	10	
25(1")	25	85	125	14	4	79x65	94	14	160	23	113	158	10	10	10	10	10	10	10	10	10	
40(1-1/2")	41	110	150	18	4	123	147	24	200	23	133	193	10	10	10	10	10	10	10	10	10	
50(2")	52	125	165	18	4	148	147	28	230	21	145	210	10	10	10	10	10	10	10	10	10	
65(2-1/2")	68	145	185	18	4	183	202	32	290	22	197	276	10	10	10	10	10	7	7	10	10	
80(3")	78	160	200	18	8	201	202	34	310	22	218	293	10	10	10	10	10	7	7	10	10	
100(4")	100	180	210	18	8	250	241	54	350	25	261	370	10	10	10	10	10	7	7	7	10	
125(5")	125	210	250	18	8	321	274	72	400	24	308	412	10	7	7	10	10	7	7	7	7	
150(6")	148	240	285	23	8	382	395	72	480	30	334	471	10	7	7	10	10	7	7	7	7	
200(8")	198	295	340	23	8	431	395	96	600	32	419	625	7	5	5	7	7	5	5	5	5	
250(10")	248	350	395	23	12	529	555	132	680	32	510	750	7	5	5	7	7	5	5	5	5	

※ 本尺表以 PVC 材質為準

※ 法蘭長度公差依據 EN558-1:1995 標準

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