



MEEM ENGINEERING

PNEUMATIC & AUTOMATION VALVE

**ENGINEERED FOR
PERFORMANCE.
BUILT FOR RELIABILITY.**

Delivering world-class pneumatic actuators
& automation valve solutions with precision,
quality and commitment.



PRECISION ENGINEERED

High accuracy
& performance



HIGH PERFORMANCE

Reliable in tough
industrial conditions



RELIABLE QUALITY

Tested for durability
& long life



BUILT FOR INDUSTRY

Solutions for every
industrial need

OUR COMMITMENT



Superior
Quality



Advanced
Technology



Timely
Delivery



Customer
Satisfaction



Pneumatic Actuator



MEEM ENGINEERING (Pneumatic & Automation Valve)



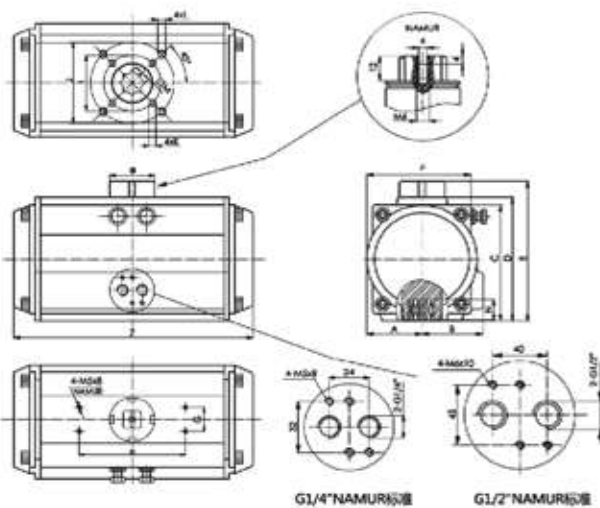
Parts & Components Materials	
Description	Material
Body	Aluminum Hard Anodized
Shaft (Pinion)	EN8
Caps	Aluminum Pressure Die Cast
Guides	Low Friction Acetalic Resin
Pistons (Racks)	Aluminum Pressure Die Cast
Bolts	Stainless Steel
Sealing	Nitrile
Oper. Pressure	35 to 150 PS I NG
Temperature	-20°C to 80°C
Air Supply	Filtered Dry Or Lubricated

Dimensions

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Z	H	Air Connection
ME-32	23	23	46	46	66	46	25	50		Φ36		M5x8	9	11	110	Φ40	NAMUR G1/8"
ME-40	28.5	38.5	60	60	80	52	30	80	Φ36	Φ50	M5x8	M6x10	11	14	122	Φ40	NAMUR G1/4"
ME-52	30	41.5	65.5	72	92	65	30	80	Φ36	Φ50	M5x8	M6x10	11	14	147	Φ40	NAMUR G1/4"
ME-63	36	47	81	88	108	72	30	80	Φ50	Φ70	M6x10	M8x13	14	18	168	Φ40	NAMUR G1/4"
ME-75	42	53	94	99.5	119.5	81	30	80	Φ50	Φ70	M6x10	M8x13	14	18	186	Φ40	NAMUR G1/4"
ME-83	46	57	98.5	108.7	128.7	92	30	80	Φ50	Φ70	M6x10	M8x13	17	21	212	Φ40	NAMUR G1/4"
ME-92	50	58.5	111	116.5	136.5	98	30	80	Φ50	Φ70	M6x10	M8x13	17	21	262	Φ40	NAMUR G1/4"
ME-105	57.5	64	122.5	133	153	109.5	30	80	Φ70	Φ102	M8x13	M10x16	22	26	288	Φ40	NAMUR G1/4"
ME-125	67.5	74.5	145.5	155	185	127.5	30	130	Φ70	Φ102	M8x13	M10x16	22	26	301	Φ40	NAMUR G1/4"
ME-140	75	77	161	172	202	137.5	30	130	Φ102	Φ125	M10x16	M12x20	27	31	390	Φ55	NAMUR G1/4"
ME-160	87	87	184	197	227	159	30	130	Φ102	Φ125	M10x16	M12x20	27	31	458	Φ55	NAMUR G1/4"
ME-190	103	103	215	230	260	189	30	130		Φ140		M16x23	36	50	534	Φ55	NAMUR G1/4"
ME-210	113	113	235.5	255	285	210	30	130		Φ140		M16x23	36	50	538	Φ80	NAMUR G1/4"
ME-240	130	130	264.5	289	319	245	30	130		Φ165		M20x25	46	60	602	Φ80	NAMUR G1/4"
ME-270	147	147	299	326	356	273	30	130		Φ165		M20x25	46	60	718	Φ80	NAMUR G1/2"
ME-300	162	174	330	350	380	312	30	130		Φ165		M20x25	46	60	782	Φ80	NAMUR G1/2"
ME-350	190	195	483	410	440	365	30	130	Φ165	Φ254	M20x25	8xM16x25	46	60	920	Φ80	NAMUR G1/2"
ME-400	260	260	466	466	496	298	30	130	Φ165	Φ254	M20x25	8xM16x25	46	60	940	Φ80	NAMUR G1/2"

Air Supply Pressure (bar)

Model	2	2.5	3	4	4.5	5	5.5	6	7	8
ME-32	3	4	5	6	7	8	8	9	11	12
ME-40	5	6	7	10	11	12	13	14	17	19
ME-52	8	10	12	16	18	20	22	24	28	32
ME-63	15	18	22	29	33	36	40	44	51	58
ME-75	20	25	30	40	45	50	55	60	70	80
ME-83	31	39	47	63	70	78	86	94	110	125
ME-92	45	56	68	90	102	113	124	135	158	181
ME-105	66	83	99	132	149	165	182	198	231	264
ME-125	100	125	150	200	226	251	276	301	351	401
ME-140	171	214	256	342	385	427	470	513	598	684
ME-160	266	332	399	532	598	665	731	798	931	1064
ME-190	426	532	638	851	958	1064	1170	1277	1490	1702
ME-210	532	665	798	1064	1197	1330	1463	1596	1862	2128
ME-240	769	962	1154	1539	1731	1924	2116	2308	2693	3078
ME-270	1170	1462	1754	2339	2632	2924	3216	3509	4094	4679
ME-300	1526	1908	2289	3052	3434	3815	4197	4578	5341	6104
ME-350	2285	2856	3427	4570	5141	5712	6283	6854	7997	9139
ME-400	3256	4070	4884	6512	7326	8140	8954	9768	11396	13024



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Parts & Components Materials

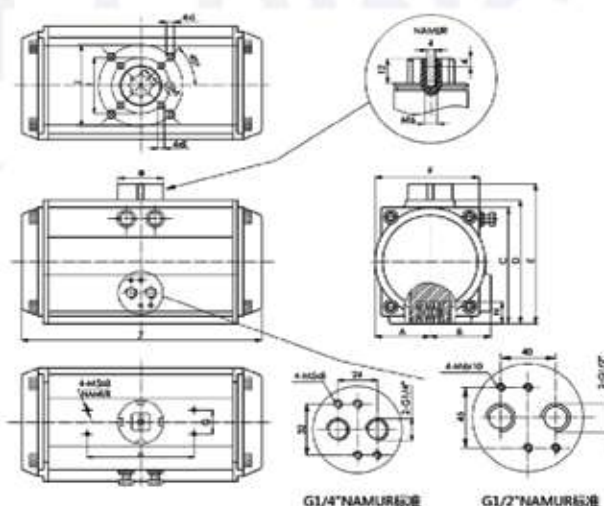
Description	Material
Body	Aluminum Hard Anodized
Shaft (Pinion)	EN8
Caps	Aluminum Pressure Die Cast
Guides	Low Friction Acetalic Resin
Pistons (Racks)	Aluminum Pressure Die Cast
Bolts	Stainless Steel
Sealing	Nitrile
Oper. Pressure	35 to 150 PS I NG
Temperature	-20°C to 90°C
Air Supply	Filtered Dry Or Lubricated



Dimensions

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Z	H	Air Connection
ME-32	23	23	46	46	66	46	25	50		Φ36		M5x8	9	11	110	Φ40	NAMUR G1/8"
ME-40	28.5	36.5	60	60	80	52	30	80	Φ36	Φ50	M5x8	M6x10	11	14	122	Φ40	NAMUR G1/4"
ME-52	30	41.5	65.5	72	92	65	30	80	Φ36	Φ50	M5x8	M6x10	11	14	147	Φ40	NAMUR G1/4"
ME-63	36	47	81	88	108	72	30	80	Φ50	Φ70	M6x10	M8x13	14	18	168	Φ40	NAMUR G1/4"
ME-75	42	53	94	99.5	119.5	81	30	80	Φ50	Φ70	M6x10	M8x13	14	18	186	Φ40	NAMUR G1/4"
ME-83	46	57	98.5	108.7	128.7	92	30	80	Φ50	Φ70	M6x10	M8x13	17	21	212	Φ40	NAMUR G1/4"
ME-92	50	58.5	111	116.5	136.5	98	30	80	Φ50	Φ70	M6x10	M8x13	17	21	262	Φ40	NAMUR G1/4"
ME-105	57.5	64	122.5	133	153	109.5	30	80	Φ70	Φ102	M8x13	M10x16	22	26	268	Φ40	NAMUR G1/4"
ME-125	67.5	74.5	145.5	155	185	127.5	30	130	Φ70	Φ102	M8x13	M10x16	22	26	301	Φ40	NAMUR G1/4"
ME-140	75	77	161	172	202	137.5	30	130	Φ102	Φ125	M10x16	M12x20	27	31	390	Φ55	NAMUR G1/4"
ME-160	87	87	184	197	227	159	30	130	Φ102	Φ125	M10x16	M12x20	27	31	458	Φ55	NAMUR G1/4"
ME-190	103	103	215	230	260	189	30	130		Φ140		M16x23	36	50	534	Φ55	NAMUR G1/4"
ME-210	113	113	235.5	255	285	210	30	130		Φ140		M16x23	36	50	538	Φ80	NAMUR G1/4"
ME-240	130	130	264.5	289	319	245	30	130		Φ165		M20x25	46	60	802	Φ80	NAMUR G1/4"
ME-270	147	147	299	326	356	273	30	130		Φ165		M20x25	46	60	718	Φ80	NAMUR G1/2"
ME-300	162	174	330	350	380	312	30	130		Φ165		M20x25	46	60	782	Φ80	NAMUR G1/2"
ME-350	190	195	483	410	440	365	30	130	Φ165	Φ254	M20x25	8xM16x25	46	60	920	Φ80	NAMUR G1/2"
ME-400	260	260	466	466	496	298	30	130	Φ165	Φ254	M20x25	8xM16x25	46	60	940	Φ80	NAMUR G1/2"

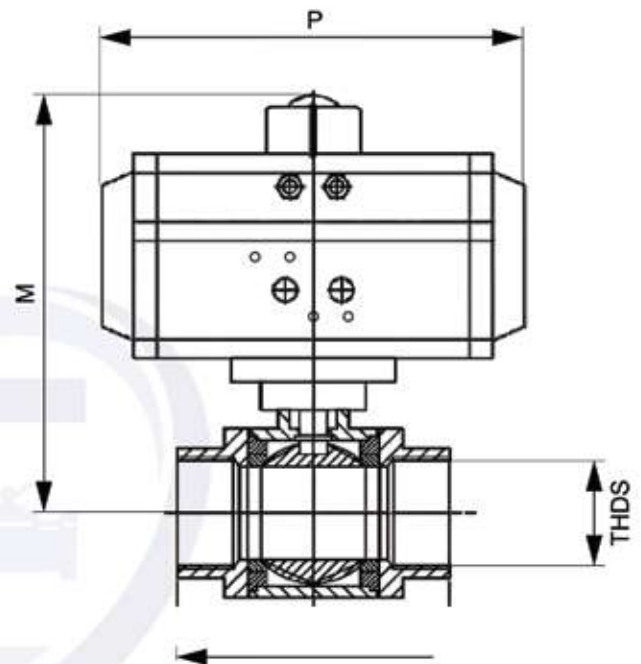
Model	Square	TORQUE (NM) at 5 BAR	
		Start (0°)	END (90°)
ME-50S	11x11	13.3	10.4
ME-63S	14x14	23.8	17.5
ME-75S	14x14	41.6	30.9
ME-83S	14x14	51.5	38.1
ME-90S	17x17	72.8	55.8
ME-110S	22x22	94.6	80.8
ME-127S	22x22	201	195
ME-140S	27x27	284	195
ME-160S	27x27	432	303
ME-200S	36x36	670	437
ME-210S	36x36	965	626
ME-240S	36x36	1437	844
ME-270S	46x46	2175	1369



Pneumatic Actuator Ball Valve (Screwed)



MEEM ENGINEERING (Pneumatic & Automation Valve)



MBV-SD Model

Item	Type of Test	Testing	Working Pressure	Operating Temperature
Actuator	Pneumatic Bubble Test	180 PSIG	45 To 150 PSIG	-20°C to 80°C
Screwed 150#	Hydraulic	450 PSIG	315 PSIG	upto 180°C
Screwed 300#	Hydraulic	450 PSIG	315 PSIG	upto 180°C

Parts & Components Materials

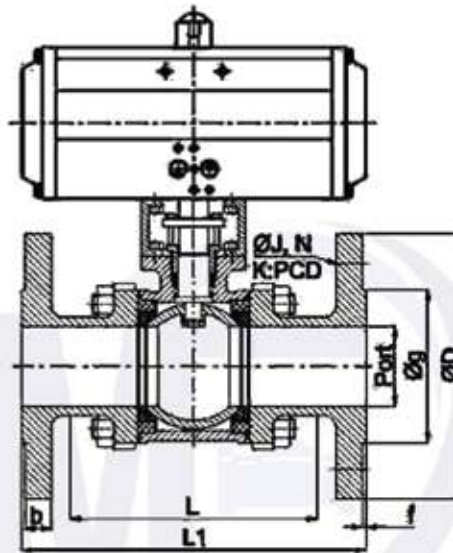
Description	Material
Body	WCB/ CF8/ CF8M CF3M
End Connector	WCB/ CF8/ CF8M CF3M
Ball	CF8/ CF8M CF3M
Ball Seat	PTFE/ CFT/GFT/PEEK/TFM
Stem Pin	AISI SS 304/ SS 316
Gland with Bush	SS 304
Body Seat	PTFE/ CFT/ GFT/ PEEK/TFM
Stem Seat	PTFE/ CFT/ GFT/ PEEK/TFM
Nut	MS/ SS
Stud	MS/ SS
Washer	MS/ SS
Gland Bolt	SS
Actuator	Regular

Dimensions

Valve Model	Valve Size mm	Valve Size Inch	Screwed L	Weight (Approx) Kgs
MBV-SD-15	15	1/2"	64	1.250
MBV-SD-20	20	3/4"	70	2.100
MBV-SD-25	25	1"	88	2.350
MBV-SD-32	32	1.1/4"	105	2.700
MBV-SD-40	40	1.1/2"	114	3.600
MBV-SD-50	50	2"	130	5.250
MBV-SD-65	65	2.1/2"	170	12.550
MBV-SD-80	80	3"	200	17.700
MBV-SD-100	100	4"	210	28.900

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Parts & Components Materials	
Description	Material
Body	WCB/ CF8/ CF8M CF3M
End Connector	WCB/ CF8/CF8M CF3M
Ball	CF8/ CF8M CF3M
Ball Seat	PTFE/ CFT/ GFT/ PEEK/ TFM
Stem Pin	AISI SS 304/ SS 316
Gland with Bush	SS 304
Body Seat	PTFE/ CFT/ GFT/ PEEK/TFM
Stem Seat	PTFE/ CFT/ GFT/ PEEK/TFM
Nut	MS/ SS
Stud	MS/ SS
Washer	MS/ SS
Gland Bolt	SS
Actuator	Regular

MDPMV Model

Item	Type of Test	Testing	Working Pressure	Operating Temperature
Actuator	Pneumatic Bubble Test	180 PSIG	45 To 150 PSIG	-20°C to 80°C
Valve Flanged 150#	Hydraulic	450 PSIG	315 PSIG	upto 180°C
Valve Flanged 300#	Hydraulics	450 PSIG	315 PSIG	upto 180°C

Dimensions

Valve Model	Valve Size		Weight	Flanged 150#									Weight	Flanged 150#								
	mm	in		L1	b	f	Port	Øg	ØD	ØJ	N	K.PCD		L1	b	f	Port	Øg	ØD	ØJ	N	K.PCD
MBV-FD-15	15	1/2"	2	108	8	2	13	34.9	90	15.9	4	60.3	2.3	140	12.7	2	13	34.9	95	15.9	4	66.7
MBV-FD-20	20	3/4"	3.1	117	8.9	2	19	42.9	100	15.9	4	69.9	4.2	152	14.3	2	19	42.9	115	19.05	4	82.6
MBV-FD-25	25	1"	3.8	127	9.6	2	25	50.8	110	15.9	4	79.4	5.4	165	15.9	2	25	50.8	125	19.05	4	88.9
MBV-FD-32	32	1 1/4"	4.3	140	11.2	2	32	63.5	115	15.9	4	88.9	6.3	178	17.5	2	32	63.5	135	19.05	4	98.4
MBV-FD-40	40	1 1/2"	5.9	165	12.7	2	38	73	125	15.9	4	98.4	8.4	190	19.1	2	38	73	155	22.2	4	114.3
MBV-FD-50	50	2"	8.65	178	14.3	2	49	92.1	150	19.1	4	120.7	11.05	216	20.7	2	49	92.1	165	19.05	8	127
MBV-FD-65	65	2 1/2"	15	190	15.9	2	62	104.8	180	19.1	4	139.7	19.03	241	23.9	2	62	104.8	190	22.2	8	149.2
MBV-FD-80	80	3"	19.35	203	17.5	2	74	127	190	19.1	4	152.4	26.75	282	27	2	74	127	210	22.2	8	168.3
MBV-FD-100	100	4"	32.4	229	22.3	2	100	157.2	230	19.1	8	190.5	42.6	305	30.2	2	100	157.2	255	22.2	8	200
MBV-FD-125	125	5"	37	254	22.3	2	125	185.7	255	22.2	8	215.9	-	381	33.4	2	125	185.7	280	22.2	8	235
MBV-FD-150	150	6"	45	267	23.9	2	150	215.9	280	22.2	8	241.3	-	403	35	2	150	215.9	320	22.2	12	269.9
MBV-FD-200	200	8"	85	292	27	2	201	269.9	345	22.2	8	298.5	-	419	39.7	2	201	269.9	380	25.4	12	330.2
MBV-FD-250	250	10"	106	330	28.6	2	252	323.8	405	22.2	12	362	-	457	48.1	2	252	323.8	445	28.6	16	387.4
MBV-FD-300	300	12"	-	610	30.2	2	303	381	485	25.4	12	431.8	-	648	49.3	2	303	381	520	31.75	16	450.8
MBV-FD-350	350	14"	-	648	33.4	2	334	412.8	535	28.6	12	476.3	-	785	52.4	2	334	412.8	585	31.75	20	514.4

Pneumatic Actuator 3way Ball Valve (screwed)

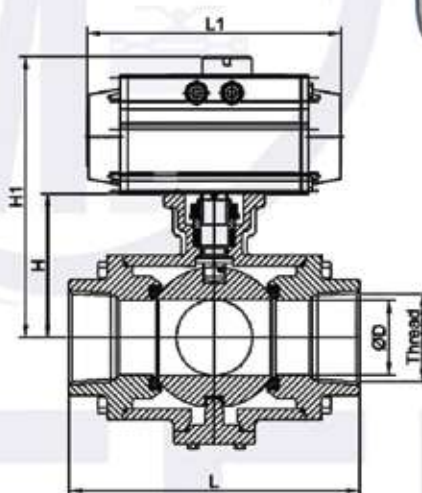


MEEM ENGINEERING
(Pneumatic & Automation Valve)



4 Way & 5 Way
Also Available on Request*

Parts & Components Materials	
Description	Material
Body	WCB/ CF8/ CF8M
End Connection	WCB/ CF8/ CF8M
Ball	CF8/ CF8M
Ball Seat	PTFE/ GFT/ CFT/ TFM PEEK
Body seat	PTFE/ GFT/ CFT/ TW PEEK
Stem pin	SS 304/316
Stem Seat	PTFE/ GFT/ CFT/ TFM PEEK
Gland Bush	SS 304/316
Gland	CF8/ CF8M
Hex Bolt & Spring Washer	SS 304
Bracket	SS 304
Bracket Bolt & Spring Washer	SS 304
Gland Bolt	SS 304
Actuator	Regular



Dimensions

Valve Model	Valve Size		Port	L	ØD	Øg	b	f	N	ØJ	PCD	Weight (Approx)
	mm	in										
MBV-3W-15	15	1/2"	13	108	90	34.9	8.5	2	4	15.9	60.3	1.9
MBV-3W-20	20	3/4"	19	117	100	42.9	8.9	2	4	15.9	69.9	3.1
MBV-3W-25	25	1"	25	127	110	50.8	9.6	2	4	15.9	79.4	4.9
MBV-3W-40	40	1.1/2"	38	165	125	73	12.7	2	4	15.9	98.4	8.85
MBV-3W-50	50	2"	49	178	150	92.1	14.3	2	4	19.05	120.7	10.75
MBV-3W-65	65	2.1/2"	64	190	180	104.8	15.9	2	4	19.05	139.7	25.35
MBV-3W-80	80	3"	74	203	190	127	17.5	2	4	19.05	152.4	
MBV-3W-100	100	4"	98	305	230	157.2	22.3	2	8	19.05	190.5	
MBV-3W-125	125	5"	127	356	255	185.7	22.3	2	8	22.2	215.9	
MBV-3W-150	150	6"	150	394	280	215.9	23.9	2	8	22.2	241.3	
MBV-3W-200	200	8"	201	600	345	269.9	27	2	8	22.2	298.5	

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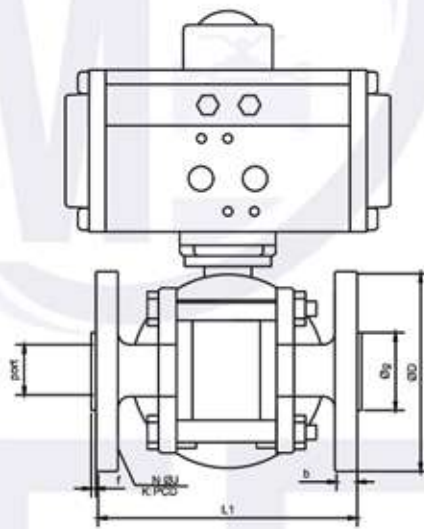


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4 Way & 5 Way
Also Available on Request*

Parts & Components Materials	
Description	Material
Body	WCB/ CF8/ CF8M
End Connection	WCB/ CF8/ CF8M
Ball	CF8/ CF8M
Ball Seat	PTFE/ GFT/ CFI/ TFM PEEK
Body seat	PTFE/GFT/ CFI/TEM PEEK
Stem pin	SS 304/ 316
Stem Seat	PTFE/ GFT/ CFI/ TFM PEEK
Gland Bush	SS 304/ 316
Gland	CF8/ CF8M
Hex Bolt & Spring Washer	SS 304
Bracket	SS 304
Bracket Bolt & Spring Washer	SS 304
Gland Bolt	SS 304
Actuator	Regular

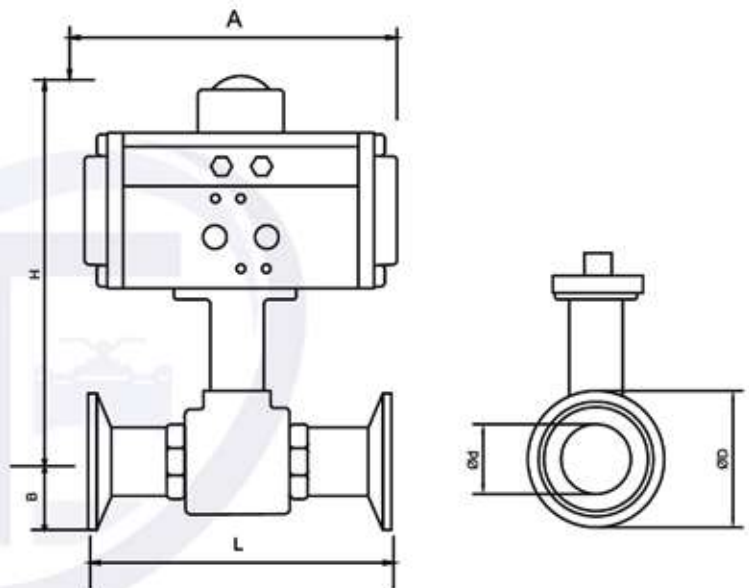


Dimensions												
Valve Model	Valve Size		Port	L	ØD	Øg	b	f	N	ØJ	PCD	Weight (Approx)
MBV-3W-15	15	1/2"	13	108	90	34.9	8.5	2	4	15.9	60.3	1.9
MBV-3W-20	20	3/4"	19	117	100	42.9	8.9	2	4	15.9	69.9	3.1
MBV-3W-25	25	1"	25	127	110	50.8	9.6	2	4	15.9	79.4	4.9
MBV-3W-40	40	1.1/2"	38	165	125	73	12.7	2	4	15.9	98.4	8.85
MBV-3W-50	50	2"	49	178	150	92.1	14.3	2	4	19.05	120.7	10.75
MBV-3W-65	65	2.1/2"	64	190	180	104.8	15.9	2	4	19.05	139.7	25.35
MBV-3W-80	80	3"	74	203	190	127	17.5	2	4	19.05	152.4	
MBV-3W-100	100	4"	98	305	230	157.2	22.3	2	8	19.05	190.5	
MBV-3W-125	125	5"	127	356	255	185.7	22.3	2	8	22.2	215.9	
MBV-3W-150	150	6"	150	394	280	215.9	23.9	2	8	22.2	241.3	
MBV-3W-200	200	8"	201	600	345	269.9	27	2	8	22.2	298.5	

Pneumatic Actuator TC end Ball valve



MEEM ENGINEERING
(Pneumatic & Automation Valve)



Parts & Components Materials

Description	Material
Body	WCB/ CF8/ CF8M CF3M
End Connection	WCB/CF8/CF8M CF3M
Ball	CF8/ CF8M
Ball Back	CFT
Ball Seat	AISI 304/ 316
Spacer Ring	AISI 304/ 316
Body Seat	AISI 304/ 316
Stem Seat	CFT 02
Disc Spring	CFT 04
Stem Nut	Spring Steel
Handle	SS 304
Lock Washer	MS/ SS
Actuator	SS 304
Antistatic Spring	HT/ SS 304
Fitting nut	HT/ SS 304
Spring Washer	HT/ SS 304
Stopper Pin	MS/ SS 304

Dimensions

Valve Model	d	D (Inch)	L	A	H
MBV-TC-20	16	2"	102	160	173
MBV-TC-25	21	2"	117	160	178
MBV-TC-32	29	2"	125	160	185
MBV-TC-38	35	2"	140	160	194
MBV-TC-51	47	2.5"	180	198	235
MBV-TC-63	59	3"	200	198	240
MBV-TC-76	72	3.5"	220	255	280
MBV-TC-89	80	4"	235	255	285
MBV-TC-102	97	4.5"	275	255	295

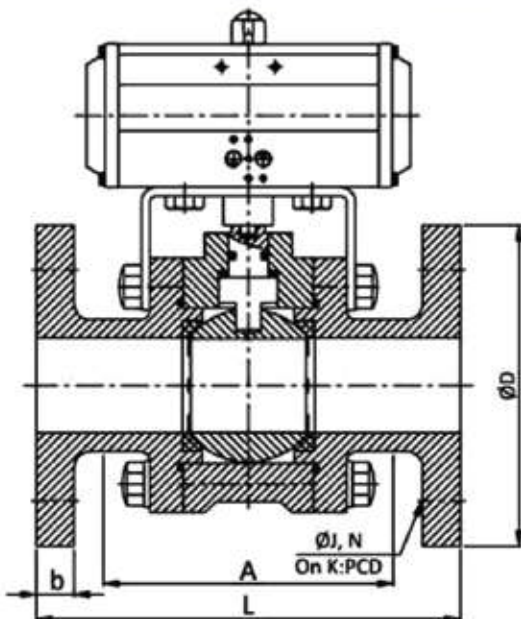
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MBVP Model		
Body	Seat	Temperature
150PSI	150PSI	100°C

Specifications			
No.	Description	Material	Qty.
1	Body	Polypropylene	1
2	End Connector	Polypropylene	2
3	Ball	Polypropylene	1
4	Ball Seat	PTFE	2
5	Stem Pin	S.S.304	1
6	Body Seat	PTFE	2
7	Adapter	NBR	1
8	Stem 'O' Ring	S.S.304	1
9	Clamp	S.S.304	1
10	Bolt	S.S.305	4
11	Washer	STD.	4
12	Actuator	S.S.306	1

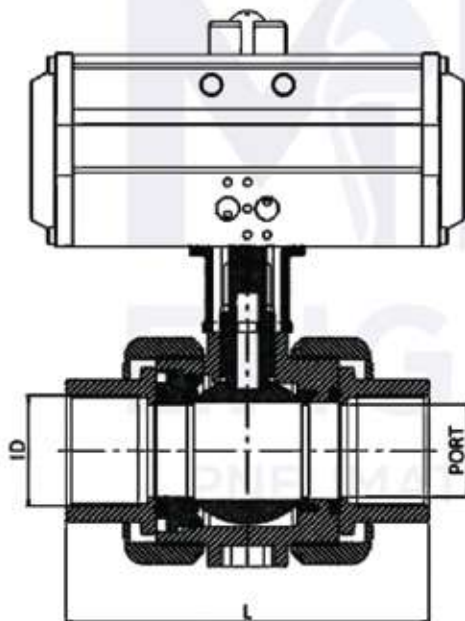


Dimensions									
Valve Model	Valve Size mm	Valve Size in	Screwed A	L	b	Flanged D	ØJ	N	K.PCD
MBV-P-15	15	1/2"	127	130	16.5	96	15.9	4	60.3
MBV-P-20	20	3/4"	139	132	14.5	102	15.9	4	69.9
MBV-P-25	25	1"	150	152	18.5	121	15.9	4	79.4
MBV-P-32	32	1 1/4"	172	162	18	124	15.9	4	88.9
MBV-P-40	40	1 1/2"	172	170	18.5	140	15.9	4	98.4
MBV-P-50	50	2"	209	209	22.5	165	19.05	4	120.7
MBV-P-65	65	2 1/2"	248	230	22.5	184	19.05	4	139.7
MBV-P-80	80	3"	250	254	24	203	19.05	4	152.4
MBV-P-100	100	4"		310	27	229	19.05	4	190.5
MBV-P-150	150	6"		477	28	305	22.5	8	241.3
MBV-P-200	200	8"		477	30	368	22.5	8	298.5
MBV-P-250	250	10"		560	31	432	25.4	12	362
MBV-P-300	300t	12"		560	31	489	25.4	12	431.8

Pneumatic Actuator UPVC Ball Valve



MEEM ENGINEERING (Pneumatic & Automation Valve)



Working Pressure	7kg/cm ²
Working Temperature	Upto 80°C Max.
Ends	Screwed

Parts & Components Materials

Description	Material
Body	UPVC
Ball	TM
Stem	UPVC
Ball Seat	PTFE/ EPD VITON
Body 'O' Ring	NBR
Body Connector 'O' Ring	NBR
Body Connector	UPVC
Connector	UPVC
Connector Nut	UPVC
Stem 'O' ring	NBR
Body 'O' Ring	NBR
Bracket	CF8/ CF8M
Actuator	Regular

Dimensions

Valve Model	Valve Size		L	ID	PORT
	mm	in			
MBV-UPVC - 15	15	1/2"	108.5	21.23	15
MBV-UPVC - 20	20	3/4"	114.5	26.57	20
MBV-UPVC - 25	25	1"	128	33.27	25
MBV-UPVC - 32	32	1.1/4"	142	42	32
MBV-UPVC - 40	40	1.1/2"	160	48	40
MBV-UPVC - 50	50	2"	174	60.17	50
MBV-UPVC - 65	65	2.1/2"	241	72.85	63
MBV-UPVC - 80	80	3"	270	72.70	75

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ABFV Model

Item	Type of Test	Hydro Testing Pressure	Operating Temperature	Operating Temperature (high)
Actuator	Pneumatic Bubble Test	180 to 150 PSIG	-20°C to 80°C	High Temp. On req.
Valve Body	Hydraulic	300 PSIG	Max. 80°C	High Temp. On req.
Seat	Hydraulic	228 PSIG	Max. 80°C	High Temp. On req.

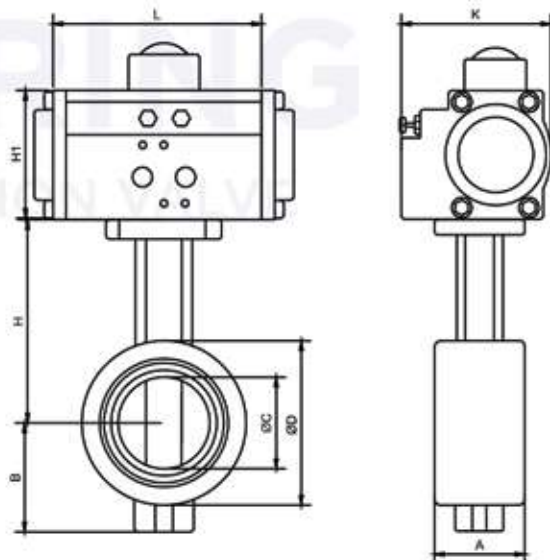


Specifications

Body	I.C./CI (IS 210Gr. FG 200/220) WCB/S.S. 304/S.S.316
Disc	CF8/ CF8M CF3M S.G. Iron/ Teflon Coated-Nylon
Seat	Coated/Rubber Line
Shaft	EPD/Nitrile/Hayplon/Viton/Moulded or Replaceable muffler type
Valve Type	ANSI 410/CF8/CF8MCF3M
Body	Centric Disc Butterfly Valve with a Single piece rubber lined
Seat	body
End	Short wafer (sandwich between flanges)
Connection	Integrally moulded with body
Pressure	Wafer Sandwiched (Lug type on request)
Rating	PN 10/ PN 16 (On request)
Op. Temp.	-25°C to 130°C (depending on MOC)
Range	Tight Shut off
Seat Leakage	Hand lever for sizes from 40mm to 350mm worm gear boxes
Operation	for 40 to 100mm

Dimensions

Valve Size mm	in	A	B	ØC	ØD	H	L	H1	K	Approx Weight
40	1 1/2"	33	60	38	80	105	136.2	92	62	2.2
50	2"	43	60	48	90	115	168	101.5	72.5	3
65	2 1/2"	46	65	63	105	120	168	101.5	72.5	3.6
80	3"	46	75	76	122	130	168	101.5	72.5	4.2
100	4"	52	92	100	147	150	217	114	84.5	6.1
125	5"	56	105	125	175	155	232.5	127	93.5	8.2
150	6"	56	120	150	200	175	271	135	105	10.85
200	8"	60	150	201	255	205	293	152	122	16.6
250	10"	68	190	240	320	255	405	181	148	32.45
300	12"	78	225	290	375	265	487	322	226	35.45



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Pneumatic Actuator Lug Type Butterfly Valve

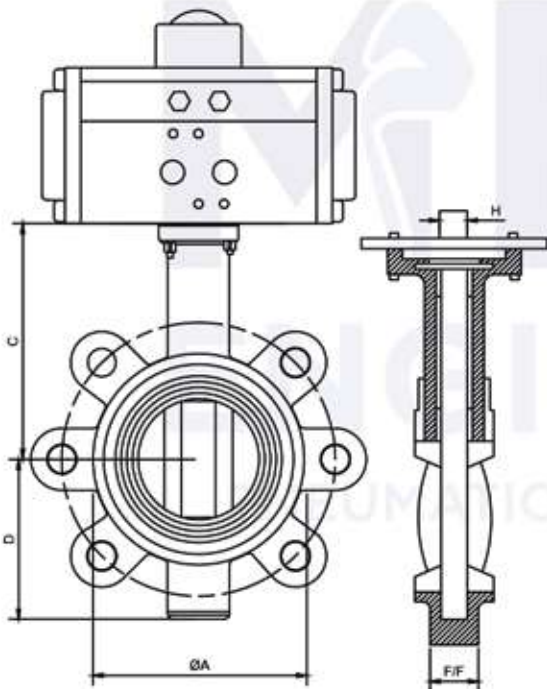


MEEM ENGINEERING (Pneumatic & Automation Valve)



Specifications

End Connection	Lug
Range	DN50 – DN150
Suitable	ASME B16.5 ISO#
Pressure Range	PN10, PN16
Leakage Class	100% Tightness at fully differential pressure
Standard	API 609, BS 5155, ISO 5211, API 598, ASME B16.5
Body Material	Cast Iron(CI), SGI, WCB, CFB, CF8M
Disc Material	SGI, CFB, CF8M, WCB
Stem Material	SS410, SS304, SS316
Body Liner / Seat Material	NBR, EPDM, VITON, SILICONE, PTFE



Dimensions

Valve Size mm	Valve Size in	ØA	F/F	C	D	ØG	H	J	K
1.5	40	71.8	43	87	47	12	8	30	-
2	50	91	43	113	59	14	10	29.4	30.98
2.5	65	96.8	46	110	61	14	10	30	48.741
3	80	116.8	46	128	73	14	10	30	66.42
4	100	149	52	154	91	16	11	31.4	90.64
5	125	188.9	56	169	105	19	13	32	115.1
6	150	202	56	189	122	19	13	30	140.23
8	200	250	60	214	146	22	16	30	189.53
10	250	308	68	251	185	28	20	32	240.99
12	300	361	78	289	214	30	22	32	289.68
14	350	413	78	340	262	35	27	52	325.65
16	400	474	102	373	294	35	27	52	374.88
18	450	528	114	407	319	47	36	59	424.97
20	500	582	127	436	354	49	36	59	473.25
22	550	634	127	464	381	49	36	59	525.88
24	600	690	154	494	422	59.9	46	80	517.61

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Pressure & Temperature Rating

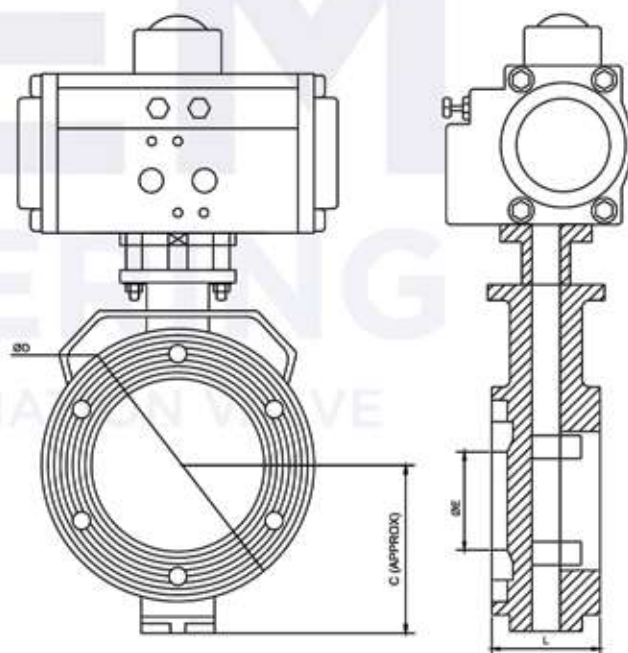
Pressure Rating	150# (PN10/ PN16/ PN 25)
	NBR: - 10° C to 90° C/ EPDM: -20° C to 120° C
Operating	Viton: -0° C to 220° C/ PTFE: - 25° C to 180° C
Temperature	RPTFE: -25° C to 220° C/ TFM: -25° C to 250° C

Parts & Components Materials

Description	Material
Body	C.I./ WCB/ CF8/ CF8M D.I.
Disc	C.I./ WCB/ CF8/ D.I.
Retainer	M.S./ CF8/ CF8M
Disc Seal Ring	PTFE/ RPTFE/ NBR/ EPDM Vito
Shaft	S.S. 304/ 316/ 410
Stem Shaft	S.S. 304/ 316/ 410
Disc Pin	S.S. 304/ 316/ 410
Flange Side Washer	S.S. 304/ 316/ 410
Stem Square	M.S./ CF8/ CF8M
Gland Seal Set	PTFE/ NBR/ EPDM Viton
Gland Plate	M.S./CF8/ CF8M

Dimensions

Valve Model	Valve Size mm	Valve Size in	L	ØD	ØE	C
MOBV--65	65	2 1/2"	48	104.8	70	-
MOBV--80	80	3"	51	126	86	-
MOBV--100	100	4"	54	158	110	96
MOBV--125	125	5"	56	185.87	120	112
MOBV--150	150	6"	57	216	152	115
MOBV--200	200	8"	64	270	200	141
MOBV--250	250	10"	71	325	250	179
MOBV--300	300	12"	81	373	306	210
MOBV--350	350	14"	92	412	355	234
MOBV--400	400	16"	102	472	400	275
MOBV--450	450	18"	114	532	450	327.5
MOBV--500	500	20"	127	584	505	359
MOBV--600	600	24"	154	692.2	612	409
MOBV--650	650	26"	165	749.3	640	640
MOBV--700	700	28"	165	800.1	705	500
MOBV-750	750	30"	190	857.25	725	571
MOBV--800	800	32"	190	915	800	630
MOBV--850	850	34"	205	965.2	850	655.5
MOBV--900	900	36"	205	1022.35	900	680
MOBV--1000	1000	40"	300	1124	1000	735
MOBV--1200	1200	48"	350	1359	1200	915



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Pneumatic Actuator PFA Lined Butterfly Valve



MEEM ENGINEERING
(Pneumatic & Automation Valve)

Specifications

Valve Type	Centric Disc Butterfly Valve with FEP/PFA Lined Body
Body Type	Short Wafer Type 2 Piece Design
Seat Type	Teflon Sleeve
End Connection	Water Sandwich (Lug type on Request)
Pressure Rating	PN10 (PN16 ON Request)
Op. Temp. Range	180°C Depending on MOC
Seat Leakage	Tight Shut off

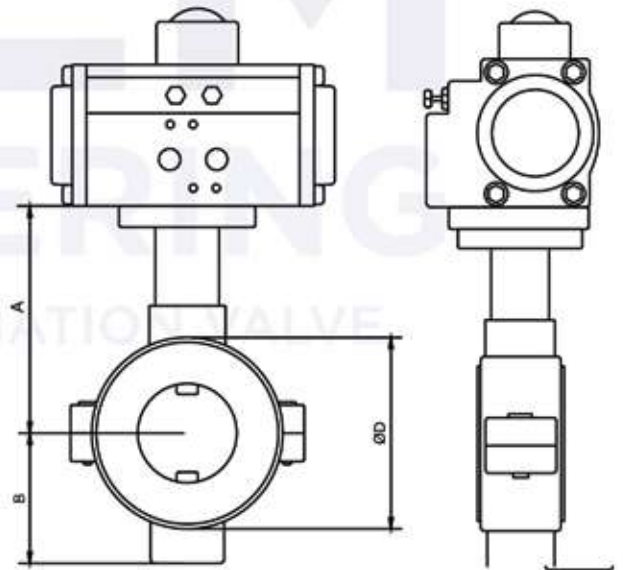
Parts & Components Materials

Description	Material
Body	C.I./WCB/ CF8/CF8M D.I.
Disc	CF8/ CF8M D.I.
Seat	PTFE
Collar	PTFE
O' Ring	Viton
Metal Bush	PTFE Coated
Top Shaft	AISI 410
Pad	Silicon
Disc Pin	S.S. 304
Bottom Shaft	AISI 410
O' Ring	Viton
Plug	M.S.
Actuator	Aluminum

Dimensions

Valve Model	Valve Size		A	B	ØD
	mm	in			
MBFV-PFA/PTFE - 50	50	2"	99.5	65	101
MBFV-PFA/PTFE - 65	65	2.1/2"	115	67	112
MBFV-PFAPTFE - 80	80	3"	120	81	130
MBFV-PFA/PTFE - 100	100	4"	158.8	95	160
MBFV-PFAPTFE - 125	125	5"	153.5	112.5	185
MBFV-PFA/PTFE - 150	150	6"	195	122	218
MBFV-PFAPTFE - 200	200	8"	221	165	270
MBFV-PFA/PTFE - 250	250	10"	236	208	340
MBFV-PFAPTFE - 300	300	12"	270	243.5	380

Bigger Size Available On Request"



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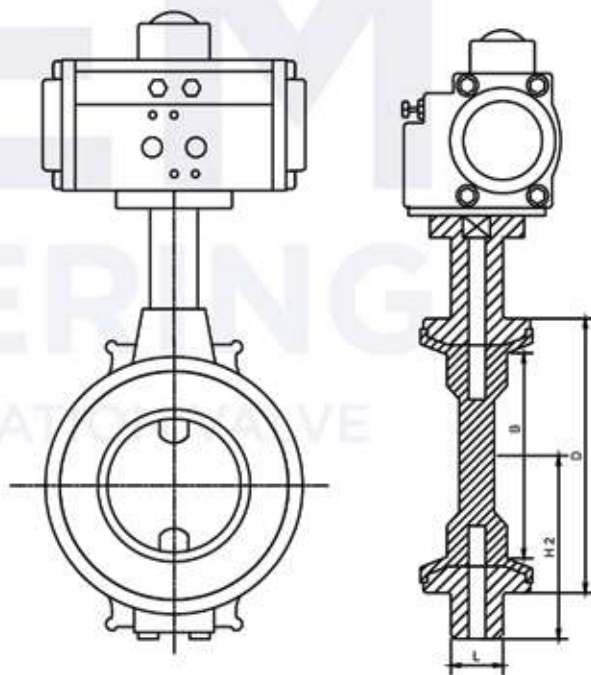
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ABFV Model				
Item	Type of Test	Testing Pressure	Working Pressure	Operating Temperature
Actuator	Pneumatic Bubble Test	180 PSIG	45 To 150 PSIG	-20°C to 80°C
Valve Body	Hydraulic	225 PSIG	150 PSIG	MAX 200°C
Seat	Hydraulic	150 PSIG	150 PSIG	MAX 200°C
Seat	Pneumatic	105 PSIG	150 PSIG	MAX 200°C



Parts & Components Materials	
Description	Material
Body	Aluminum Pressure Die Cast
Disc	CF8M (SS 316)
Stem	AISI 410/ AISI 304
Shaft	AISI 410/ AISI 304
Seat	EPDM
Valve Rating	PN 10
Body Pressure	225 PSIG
Seat Pressure	165 PSIG
Temperature	140°C

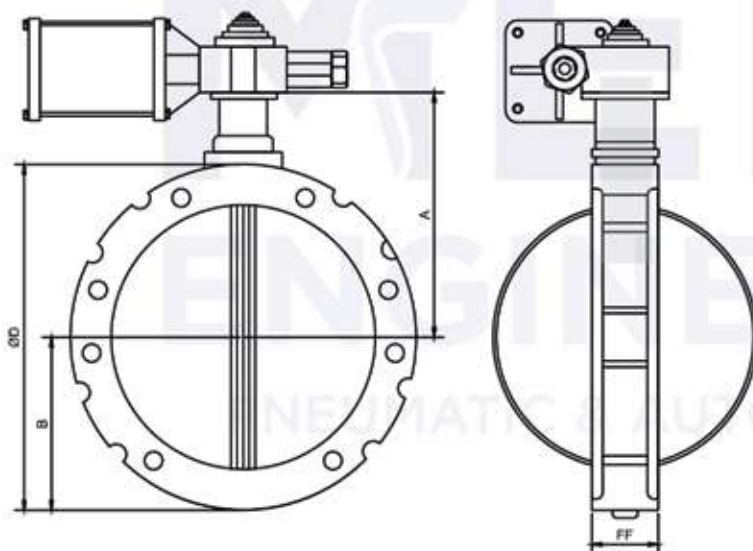
Dimensions						
Valve Model	Valve Size		d	H2	L	D
	mm	in				
AABFV-40	40	1 1/2"	40	60	33	78
AABFV50	50	2"	50	66	43	39
AABFV-65	65	2 1/2"	65	74	46	118
AABFV-80	80	3"	80	83	46	129
AABFV-100	100	4"	100	94	52	149
AABFV-125	125	5"	125	122	56	184
AABFV-150	150	6"	150	135	56	214
AABFV-200	200	8"	196	161	60	259





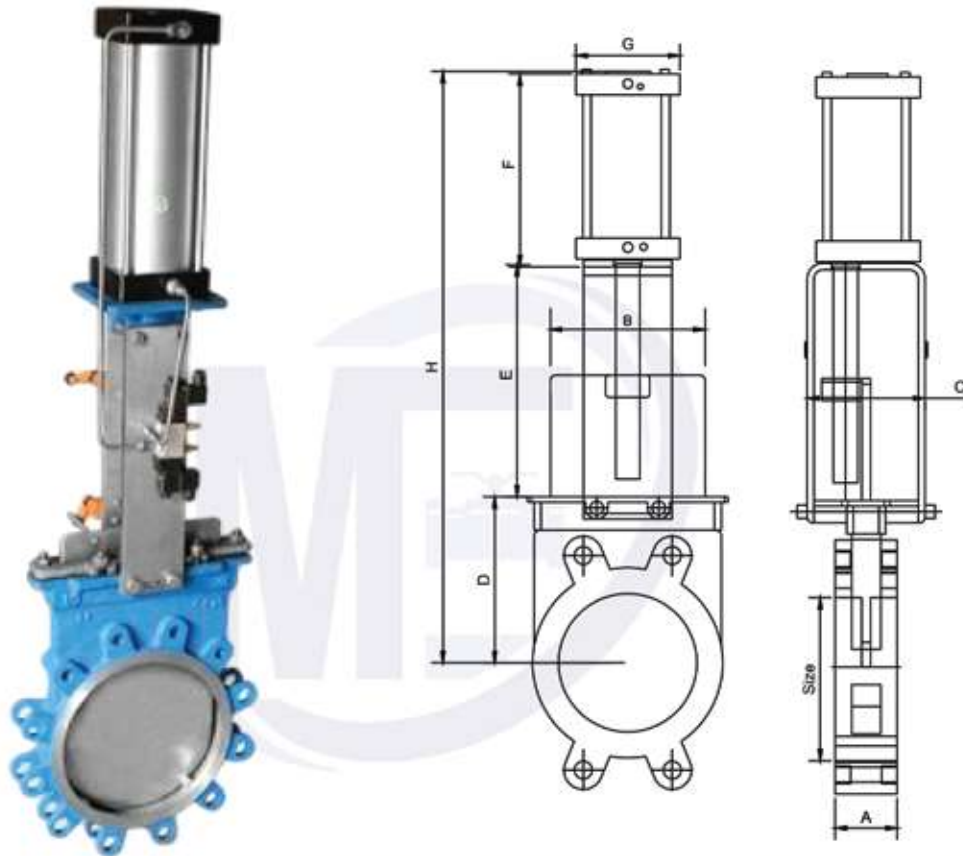
Parts & Components Materials

Body	Aluminum
Muffler	EPDM
Shaft Nut	Nylon-66
Bracket	Aluminum
Disc	SG Iron
Disc Shaft	M.S.
Disc Plate	SS
Bracket Fitting L.N. Bolt	SS 304
Fitting L.N. Bolt	SS 304
Fitting Nut	SS 304



Dimensions

Size	FF	ØD	Weight
100	218	220	4
150	77	228	5
200	77	278	6.5
250	77	328	7.5
300	77	378	9
350 N	85	440	16
400	85	530	20.5



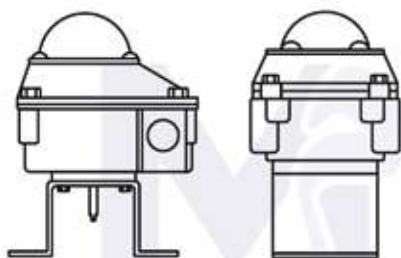
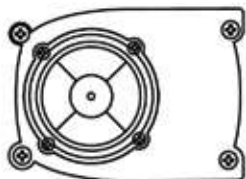
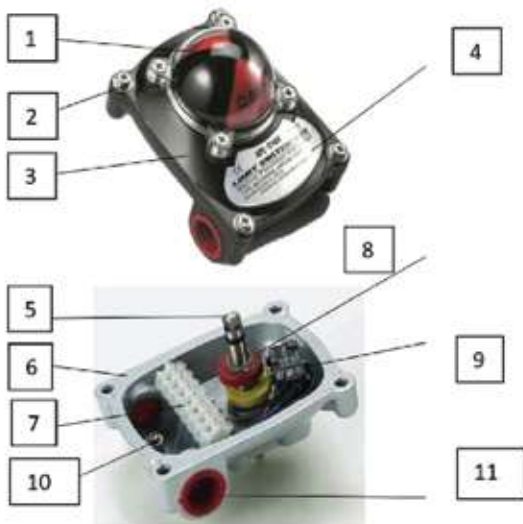
Dimensions

Size	A	B	C	D	E	F	G	H	Weight Kg	on Cylinder (double Acting)		
										BORE	STROKE	AIR
12	48	117	98	103	98	194	63	395	7.3	50	62	1/4"
3	51	147	98	122	156	182	76	460	8.2	63	95	1/4"
4	51	166	98	138	180	223	76	541	10.4	63	115	1/4"
5	57	177	98	148	211	261	89	620	13.6	80	143	1/4"
6	57	209	98	172	234	279	89	685	21.3	80	168	1/4"
8	70	258	120	202	284	366	112	852	40.8	100	220	3/8"
10	70	313	120	246	360	424	140	1030	63.5	125	270	3/8"
12	76	366	120	295	390	465	170	1150	81.6	150	320	1/2"
14	76	425	190	333	438	519	170	1290	133.8	150	375	1/2"
16	89	479	194	386	488	606	216	1480	165.1	200	425	3/4"
18	89	532	266	425	556	679	216	1660	220	200	475	3/4"
20	114	593	266	477	615	728	321	1820	279.9	300	525	1"
24	114	697	266	580	710	790	321	2080	330.2	300	625	1"

Limit Switch



MEEM ENGINEERING (Pneumatic & Automation Valve)



Solid & Flexible Design Aluminum die Casting housing & Powder Coating
Bolts on Visual Position Indicator
Quick-View Spring Loaded Splined cam
No need to adjust again after initial setting Easy Setting Without Tool
Dual Cable Entries
Easy Mounting Bracket
NAMUR Standard Stainless steel Shaft & Bracket

No.	Part Name	Qty.	Description
1	Window / Indicator	1	PC / ABS
2	Captive Cover Bolt	4	Stainless Steel
3	Cover	1	Stainless Steel
4	Name Plate	1	Sticker
5	Shaft	1	Stainless Steel
6	Body	1	Aluminum Die Casting
7	terminal Strip	2	8P (9-14P Available)
8	Cam	1	PC
9	Limit Switch	1	Mechanical or Proximity Type
10	Earth Lug	1	Stainless Steel
11	Blanking Element	2	PC

Description/Model	APL-2N Series	APL-3N Series	APL-4N Series
Enclosure	Weatherproof IP67	Weatherproof IP67	Weatherproof IP67
			Explosionproof E EX d IIB T6
Cable entries	Two NPT 1/2"	Two NPT 1/2"	Two NPT 3/4"
Ambient temperature	-20°C to 80 °C	-20°C to 80 °C	-20°C to 80 °C
Terminal strips	8 points (008-2.5mm*)	8 points (008-2.5mm)	8 points (008-2.5mm)
Position Indicator	0 - 90 (90 turn free join)	0 - 90 (90 turn free join)	0 - 90 (90 turn free join)
	closed: red open: yellow	closed: red open: yellow	closed: red open: yellow
Switches	Mechanical switch x2	Mechanical switch x2	Mechanical switch x2
	proximity sensor x2	proximity sensor x2	proximity sensor x2
Painting	Chromate Polyester	Chromate Polyester	Chromate Polyester
	powder coating (black)	powder coating (black)	powder coating (black)

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Product Number: YT-1000L (specify your requirement)

Model	Acting Type	Explosion Proof	Lever Type	Orifice Type	Connection Type	Ambient Temp*	Option*
YT-1000L	S Single	m Ex dmb IIB T5 (KTL)	1 10 - 40mm	1 Φ1	1 PT	S -20°C ~ 60°C	S None
	D Double	C Ex dmb IIC T5 (KTL)	2 30 ~ 70mm	2 Φ2	2 NPT	H -20°C ~ 120°C	H +SPTM (Smart type)
		i Ex ia IIB T6 (KTL)	3 80 ~ 100mm	3 None		L -40°C ~ 70°C	L +SPTM with LCD (Smart type)
		n Non-Explosion	4 100~ 150mm				
		f Ex dm IIB T5 (FM)					
		p Ex ia IIC T6 (NEPSI)					
		H Ex dmb IIC T5/T6 (NEPSI)					

* With high temp and/or internal SPTM option, positioner must be non-explosion type.



Item - Type		Single	Double
Input Signal		4-20mA DC	
Impedance		250 ± 15 S	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke		10~150mm	
Air Connection		PT(NPT) 1/4	
Gauge Connection		PT(NPT) 1/8	
Conduit		PF 1/2 (G 1/2)	
Explosion Proof		Ex dmb IIB T5 (KTL) Ex dmb IIC T5 (KTL) Ex ia IIB T6 (KTL) Ex ia IIC T6 (NEPSI) Ex dmb IIC T5/T6 (NEPSI)	
Ambient Temp.	Operating	-20°C~70°C(-4~158°F)	
	Explosion	-20°C~60°C(-4~140°F)	
Linearity		±1% F.S.	±2% F.S.
Hysteresis		±1% F.S.	
Sensitivity		±0.2% F.S.	±10.5% F.S.
Repeatability		±0.5% F.S.	
Air Consumption		2.5 LPM (sup=0.14MPa)	
Flow Capacity		80LPM (sup=0.14MPa)	
Material		Aluminum Diecasting	
Weight		2.7kg (6.1lb)	

* For additional SPTM specification refer to p.22.



The Electro-Pneumatic Positioner T-1000L is used for operation of pneumatic linear valve actuators by means of electrical controller or control system with an analog output signal of DC 4 to 20mA or split ranges.

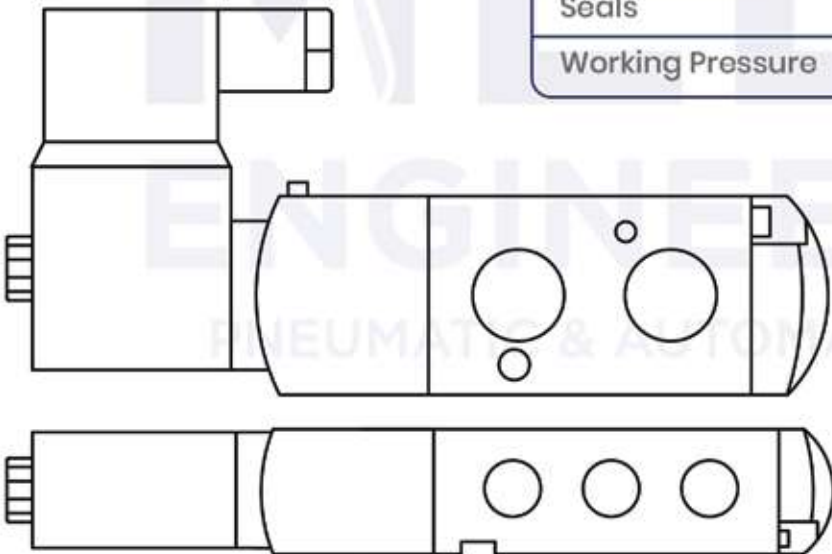
- Simple zero and span adjustment
- No resonance between 5-200Hz
- Auto/Manual switch
- RA v.s. DA action and 1/2 split range setting by simple adjustment
- Internal feedback signal is available as an option (weather proof only)

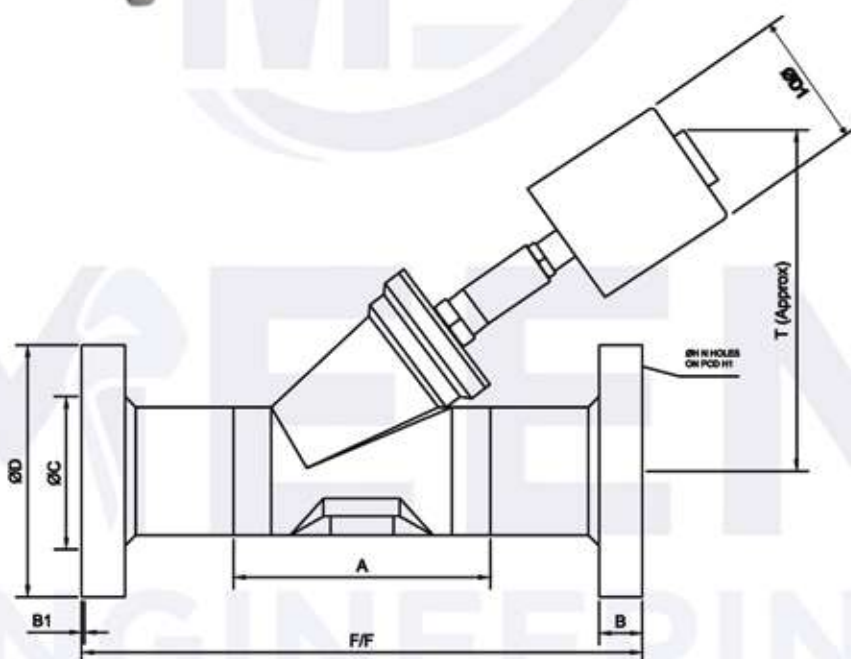


- Easy Replacement of Coil as Both AC & DC Type use Same Enclosure
- Can Test the Operation in Manual switch without power Source
- High Durability as Valve Body is Pneumatic Pressure Operating Type
- Can be Directly mounted on an actuator
- Ideally suited for spring return actuator for on/off duty Dust cap fitted on exhaust ports
- Interchangeable of AC & DC coils IP 65
- Manual Override Switch

Technical Specification

Coil Voltage	230V AC, 24V DC, 110V AC All Std.
Frequency	50-60 Hz
Connection	1/4" NPT
Conduct	PF 1/2 TM
Coil Insulation Grade	Class 'F'
Ambient Temp.	-20 °C ~ 70 °C
Body Material	AluminuRING
Seals	NBR
Working Pressure	Upto 10 Bar





Dimensions

Size	A	ACT.	ØD1	FF	ØC	ØD	B	B1	H	H1	N	T	Port	Weight SE	Weight FE
15	68	70	117	130	38	90	9.5	1.5	16	60	4	155	1/4"	1.45	2.1
20	75	70	120	150	43	98.5	10.5	1.5	16	70	4	160	1/4"	1.45	2.3
25	88	70	120	160	51	108	11	1.5	16	79.5	4	170	1/4"	1.6	2.5
40	125	70	152	189	73	125	11.5	1.5	16	98.5	4	191	1/4"	2.35	3.95
50	151	70	178	230	92	152	15.5	1.5	19	120	4	218	1/4"	3.2	6.6
65	195.5	120	-	216	104.8	178.1	15.9	1.5	19	139.7	4	230	1/4"	-	-
80	197	120	-	241.5	127	188	19	1.5	19	152.7	4	250	1/4"	-	-

Model:- AAM

Top / Bottom	Aluminum
Barrel	Aluminum
Seals	PU and Nitrile
Piston	Aluminum
Piston Rod	EN8 Hard Chrome
Pressure	0.5 to 10 Bar
Temperature	upto 80°C Max
Bore / Stroke	Bore upto 125mm / Stroke upto 2000mm

Model:- ARM

Top / Bottom	CJ / WCB / SGI
Barrel	Aluminum / S.S
Seals	Nitrile / Vitone
Piston	CJ / WCB / SGI
Piston Rod	EN8 Hard Chrome
Pressure	0.5 to 10 Bar
Temperature	Upto 80°C Max
Bore / Stroke	Bore upto 500mm / Stroke upto 3000mm

Model:-AVM

Top / Bottom	Aluminum
Barrel	Aluminum
Seals	PU and Nitrile
Piston	Aluminum
Piston Rod	EN8 Hard Chrome
Pressure	0.5 to 10 Bar
Temperature	upto 80°C Max
Bore / Stroke	Bore upto 125mm / Stroke upto 2000mm

Model:- BSH

Top / Bottom	CI / WCB / SGI
Barrel	Aluminum / S.S
Seals	Nitrile / Vitone
Piston	CJ / WCB / SGI
Piston Rod	EN8 Hard Chrome
Pressure	0.5 to 10 Bar
Temperature	Upto 80°C Max
Bore / Stroke	150 x 100 mm

Model :- S.C.

Top / Bottom	Aluminum
Barrel	Aluminum
Seals	Nitrile
Piston	Aluminum
Piston Rod	EN8 Hard Chrome
Pressure	0.5 to 10 Bar
Temperature	Upto 80°C Max
Bore / Stroke	Bore upto 320mm / Stroke upto 2000mm

Model:- SM

Top / Bottom	CJ / WCB / SGI
Barrel	S.S
Seals	Nitrile / Vitone
Piston	CJ / WCB / SGI
Piston Rod	EN8 Hard Chrome
Pressure	0.5 to 10 Bar
Temperature	upto 80°C
Bore / Stroke	200 x 50 mm



MEEM ENGINEERING
(Pneumatic & Automation Valve)

INDUSTRIAL PRODUCT CATALOGUE

MANUAL



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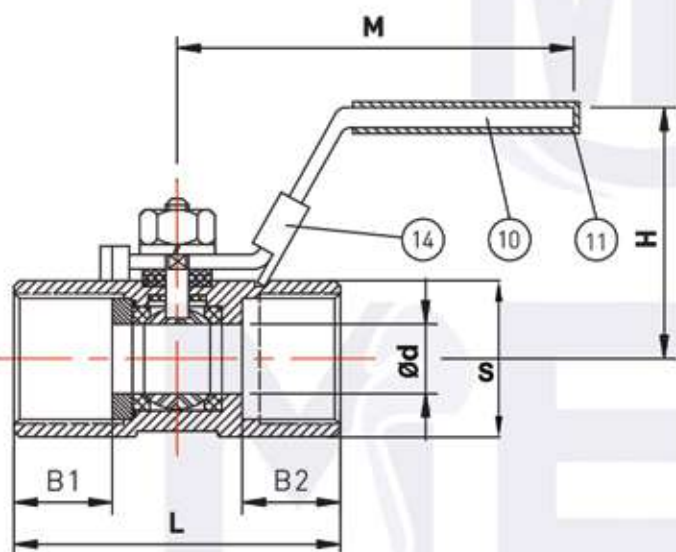


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Manual 1pc Ball Valve (Screw End)



MEEM ENGINEERING (Pneumatic & Automation Valve)



Parts & Components Materials

Description	Material
Body	WCB/ CF8/ CF8 CF3M
End Connection	WCB/ CF8/ CF8M CF3M
Ball	CF8/ CF8M
Ball Back	CFT
Ball Seat	AISI 304/ 316
Spacer Ring	AISI 304/ 316
Body Seat	AISI 304/ 316
Stem Seat	CFT 02
Disc Spring	CFT 04
Stem Nut	Spring Steel
Handle	SS 304
Lock Washer	MS/ SS
Actuator	SS 304
Antistatic Spring	HT/ SS 304
Fitting nut	HT/ SS 304
Spring Washer	HT/ SS 304
Stopper Pin	MS/SS 304

Dimensions

DN	NPS	Ød	M	H	L	B1	B2	S	Weight	
									kg	lbs
8	1/4	5.0 (0.20)	69.0 (2.72)	35.0 (1.38)	39.0 (1.54)	9.0 (0.35)	9.0 (0.35)	17.0 (0.67)	0.064	0.14
10	3/8	7.2 (0.28)	79.0 (3.11)	36.5 (1.44)	44.0 (1.73)	9.5 (0.37)	9.5 (0.37)	21.0 (0.83)	0.104	0.23
15	1/2	9.2 (0.36)	109.0 (4.29)	40.0 (1.57)	56.5 (2.22)	13.5 (0.53)	13.0 (0.51)	25.0 (0.98)	0.190	0.42
20	3/4	12.5 (0.49)	109.0 (4.29)	44.3 (1.74)	59.0 (2.32)	12.5 (0.49)	14.5 (0.57)	32.0 (1.26)	0.264	0.58
25	1	15.0 (0.59)	111.7 (4.40)	47.5 (1.87)	71.0 (2.80)	15.0 (0.59)	17.0 (0.67)	38.0 (1.50)	0.420	0.93
32	1 1/4	20.0 (0.79)	111.7 (4.40)	53.0 (2.09)	78.0 (3.07)	18.5 (0.73)	17.5 (0.69)	48.0 (1.89)	0.650	1.43
40	1 1/2	25.0 (0.98)	157.0 (6.18)	62.0 (2.44)	83.0 (3.27)	18.5 (0.73)	18.5 (0.73)	53.0 (2.09)	0.840	1.85
50	2	32.0 (1.26)	155.5 (6.12)	68.5 (2.70)	100.0 (3.94)	20.5 (0.81)	21.0 (0.83)	64.0 (2.52)	1.330	2.93

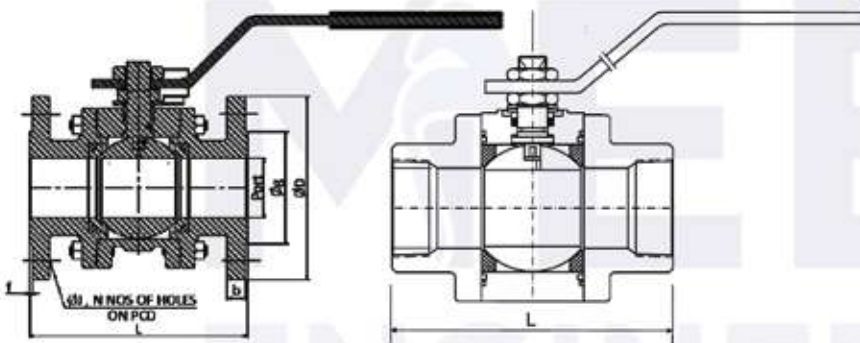
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Parts & Components Materials

Description	Material
Body	WCB/ CF8/ CF8M CF3M
End Connection	WCB/CF8/ CF8M CF3M
Ball	CF8/ CF8M
Ball Back	CFT
Ball Seat	AISI 304/ 316
Spacer Ring	AISI 304/ 316
Body Seat	AISI 304/ 316
Stem Seat	CFT 02
Disc Spring	CFT 04
Stem Nut	Spring Steel
Handle	SS 304
Lock Washer	MS/ SS
Actuator	SS 304
Antistatic Spring	HT/ SS 304
Fitting nut	HT/ SS 304
Spring Washer	HT/ SS 304
Stopper Pin	MS/ SS 304



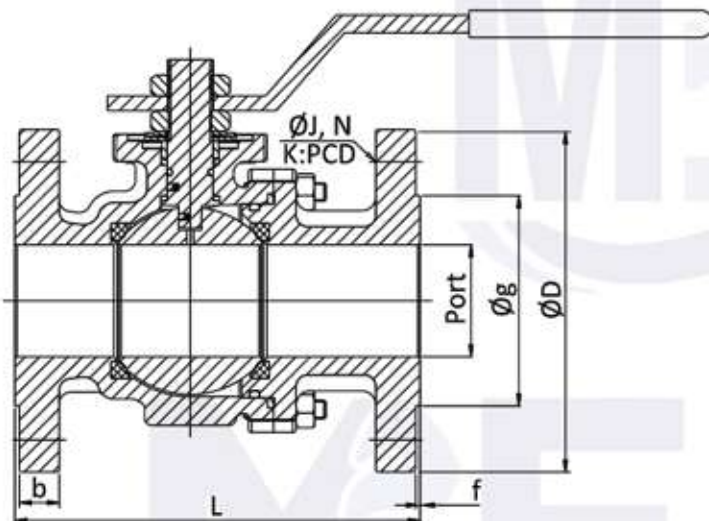
Dimensions

Dimensions													
Valve Size		Screwed			Flanged 150#								Weight
mm	in	L	Weight	L	b	f	Port	Øg	ØD	ØJ	N	K.PCD	(Approx)
15	1/2"	71	1.55	108	8	2	13	34.9	90	15.9	4	60.3	1.6
20	3/4"	94	1.88	117	8.9	2	19	42.9	100	15.9	4	69.9	2.4
25	1"	108.5	2.72	127	9.6	2	25	50.8	110	15.9	4	79.4	3.5
32	1 1/4"	116	3.95	140	11.2	2	32	63.5	115	15.9	4	88.9	5
40	1 1/2"	128	5.2	165	12.7	2	38	73	125	15.9	4	98.4	7
50	2"	158	9.1	178	14.3	2	49	92.1	150	19.05	4	120.7	11.2
65	2 1/2"	185	13.1	190	15.9	2	62	104.8	180	19.05	4	139.7	17.5
80	3"	205	15.1	203	17.5	2	74	127	190	19.05	4	152.4	20
100	4"	216	25	229	22.3	2	100	157.2	230	19.05	8	190.5	33

2pc Ball Valve Flanged



MEEM ENGINEERING (Pneumatic & Automation Valve)



Parts & Components Materials

Description	Material
Body	WCB/CF8/ CF8M
Flange end Connector	WCB/ CF8/CF8M
Ball	CF8/ CF8M
Stem Pin	AISI 304/ 316
Ball Seat	PTFE/ CFT/ GFT/ PEEK
Conn. O Ring	Grafoil
Stem Seat Bottom	PTFE
Stem O Ring	NBR/ EPDM Viton
Antistatic Spring	SS 202
Antistatic Ball	SS 304
Disc Spring	Spring Steel
Stem & Handle Nut	SS 304
Fitting Stud	HT/SS 304
Fitting Nut+ Spring Washer	HT/ SS 304
Handle	MS/ SS

Dimensions

Valve Model	Valve Size		Flanged 150#									Weight	Flanged 150#									Weight
	mm	in	L	b	f	Port	Øg	ØD	ØJ	N	PCD		L	b	f	Port	Øg	ØD	ØJ	N	PCD	
MBV-FD-15	15	1/2"	108	8	2	13	34.9	90	15.9	4	66.7	2.15	140	12.7	2	13	34.9	95	15.9	4	66.7	3.1
MBV-FD-20	20	3/4"	117	8.9	2	19	42.9	100	15.9	4	82.6	3	152	14.3	2	19	42.9	115	19.05	4	82.6	3.9
MBV-FD-25	25	1"	127	9.6	2	25	50.8	110	15.9	4	88.9	4.1	165	15.9	2	25	50.8	125	19.05	4	88.9	5.4
MBV-FD-32	32	1 1/4"	140	11.2	2	32	63.5	115	15.9	4	98.4	-	178	17.5	2	32	63.5	135	19.05	4	98.4	7.2
MBV-FD-40	40	1 1/2"	165	12.7	2	38	73	125	15.9	4	114.3	7	190	19.1	2	38	73	155	22.2	4	114.3	9.72
MBV-FD-50	50	2"	178	14.3	2	49	92.1	150	19.05	4	127	9.2	216	20.7	2	49	92.1	165	19.05	8	127	11.68
MBV-FD-65	65	2 1/2"	190	15.9	2	62	104.8	180	19.05	4	149.2	13.8	241	23.9	2	62	104.8	190	22.2	8	149.2	20.5
MBV-FD-80	80	3"	203	17.5	2	74	127	190	19.05	4	168.3	20.3	282	27	2	74	127	210	22.2	8	168.3	29.24
MBV-FD-100	100	4"	229	22.3	2	100	157.2	230	19.05	8	200	28.2	305	30.2	2	100	157.2	255	22.2	8	200	48.38
MBV-FD-125	125	5"	254	22.3	2	125	185.7	255	22.2	8	235	-	381	33.4	2	125	185.7	280	22.2	8	235	-
MBV-FD-150	150	6"	267	23.9	2	150	215.9	280	22.2	8	269.9	64	403	35	2	150	215.9	320	22.2	12	269.9	90.26
MBV-FD-200	200	8"	457	27	2	201	269.9	345	22.2	8	330.2	151	500	39.7	2	201	269.9	380	25.4	12	330.2	188
MBV-FD-250	250	10"	534	28.6	2	252	323.8	405	25.4	12	387.4	-	568	46.1	2	252	323.8	445	28.6	16	387.4	-
MBV-FD-300	300	12"	610	30.2	2	303	381	485	25.4	12	450.8	-	648	49.3	2	303	381	520	31.75	16	450.8	-
MBV-FD-350	350	14"	-	33.4	2	334	412.8	535	28.6	12	514.4	-	-	52.4	2	334	412.8	585	31.75	20	514.4	-

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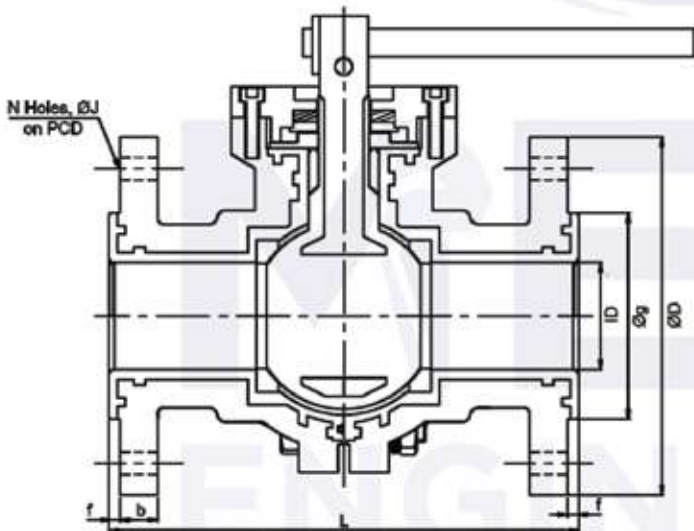


Pressure & Temperature Rating

Pressure	150#
Temperature FEP	180°C
Temperature PFA	230°C

Parts & Components Materials

Description	Material
Body	WCB/ DV CV SS 304/ SS 316
Body Molding	FEP/PFA
Ball with Shaft	WCB/ SS 304
Ball molding	FEP/PFA
Ball Seal	PTFE
Shaft Bush	PTFE
Shaft Washer	PTFE
MS Shaft Washer	MS
Plain Washer	MS
Top Plate	Spring Steel
Bolt Plate	SS
Nut	SS
Washer	SS
LN Bolt	SS

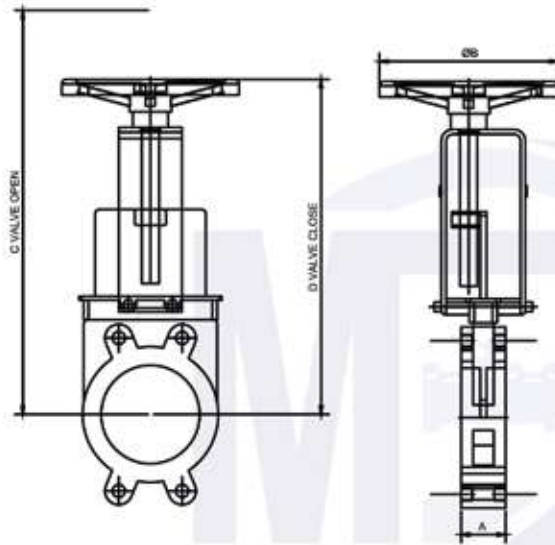


Test Pressure

Testing	Body	Seat
Hydraulic	20Kg/cm ²	11Kg/cm ²
Pneum. Seat	Pressure	6Kg/cm ²

Dimensions

Valve Model	Valve Size mm	Valve Size in	ID	L	ØD	Øg	b	f	N	ØJ	PCD
MPFA/MPTFE-25	25	1"	24	130.5	108	55	12.7	3.5	4	16.5	79
MPFA/MPTFE-40	40	1 1/2"	38	167	127	73	13.5	3	4	15.5	98.2
MPFAMPTFE-50	50	2"	49	178	152.5	92	18	4	4	18.5	121
MPFA/MPTFE-65	65	2 1/2"	61.8	206	177.75	104.5	21	4	4	19	140
MPFA/MPTFE-80	80	3"	74	207	190	126	22	5.5	6	19	152.4
MPFA/MPTFE-10C	100	4"	94	226	228.5	158	22	5	6	19	190



Parts & Components Materials

Body	WCB/CF8/CF8M
Gate	SS410/SS304/SS316
Seat	Metal to Metal/EPDM/PTFE
Gland Packing	PTFE/Graphite
Gland	C.I./WCB/CF8/CF8M
Stem	SS410/SS304
Yoke	Gun Metal
Stem Nut	S.G. Iron
Hand Wheel	S.G. Iron
Nut & Bolt	C.S./M.S.

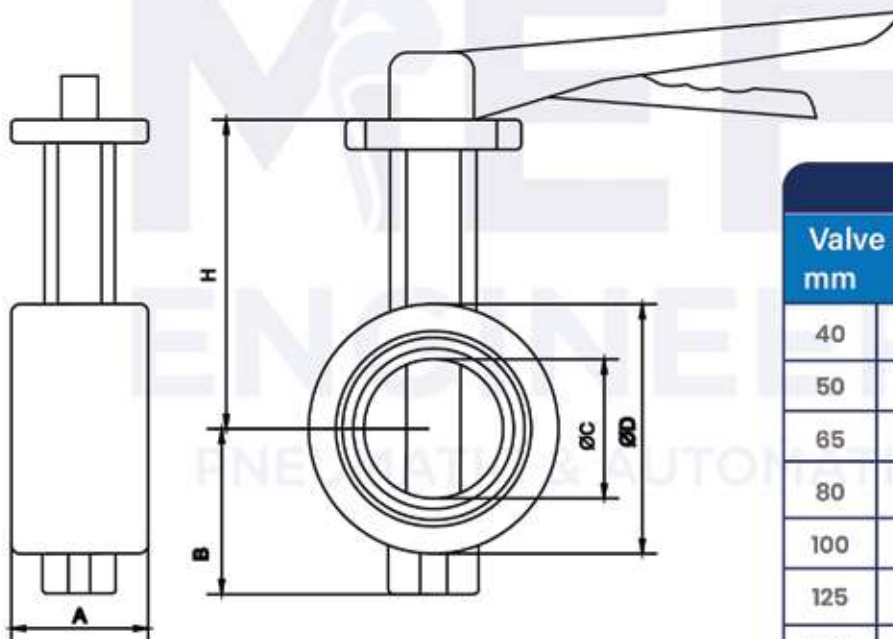
Dimensions

Size	A	B	C	D	E	F	G	H	Weight Kg	pn Cylinder (double Acting)		
										BORE	STROKE	AIR
2	48	117	98	103	98	194	63	395	7.3	50	62	1/4"
3	51	147	98	122	156	182	76	460	8.2	63	95	1/4"
4	51	166	98	138	180	223	76	541	10.4	63	115	1/4"
5	57	177	98	148	211	261	89	620	13.6	80	143	1/4"
6	57	209	98	172	234	279	89	685	21.3	80	168	1/4"
8	70	258	120	202	284	366	112	852	40.8	100	220	3/8"
10	70	313	120	246	360	424	140	1030	63.5	125	270	3/8"
12	76	366	120	295	390	465	170	1150	81.6	150	320	1/2"
14	76	425	190	333	438	519	170	1290	133.8	150	375	1/2"
16	89	479	194	386	488	606	216	1480	165.1	200	425	3/4"
18	89	532	266	425	556	679	216	1660	220	200	475	3/4"
20	114	593	266	477	615	728	321	1820	279.9	300	525	1"
24	114	697	266	580	710	790	321	2080	330.2	300	625	1"



Specifications

Body	LC/CI (IS 210Gr. FG 200/220) WCB/S.S. 304/S.S.316
Disc	CF8/ CF8M CF3M S.G. Iron/ Teflon Coated-Nylon
Seat	Coated/Rubber Line
Shaft	EPDM/Nitrile/Hayplon/Viton/Moulded or Replaceable muffler type
Valve Type	AISI 410/CF8/CF8MCF3M
Body	Centric Disc Butterfly Valve with a Single piece rubber lined
Seat	body
End	Short wafer (sandwich between flanges)
Connection	Integrally moulded with body
Pressure	Wafer Sandwiched (lug type on request)
Rating	PN 10/ PN 16 (On request)
Op. Temp.	-25°C to 130°C (depending on MOC)
Range	Tight Shut off
Seat Leakage	Hand lever for sizes from 40mm to 350mm worm gear boxes
Operation	for 40 to 100mm



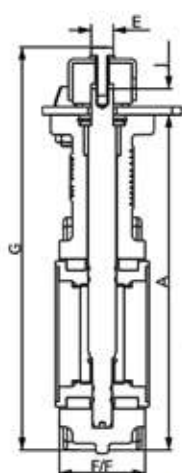
Dimensions

Valve Size mm	Valve Size in	A	B	ØC	ØD	H
40	1 1/2"	33	60	38	80	105
50	2"	43	60	48	90	115
65	2 1/2"	46	65	63	105	120
80	3"	46	75	76	122	130
100	4"	52	92	100	147	150
125	5"	56	105	125	175	155
150	6"	56	120	150	200	175
200	8"	60	150	201	255	205
250	10"	68	190	240	320	255
300	12"	78	225	290	375	265

Lug Type Butterfly Valve



MEEM ENGINEERING (Pneumatic & Automation Valve)



Specifications

End Connection	Lug
Range	DN50 - DN150
Suitable	ASME B16.5 150#
Pressure Range	PN10, PN16
Leakage Class	100% Tightness at fully differential pressure
Standard	API 609, BS 5155, ISO 5211, API 598, ASME B16.5
Body Material	Cast Iron(CI), SGI, WCB, CF8, CF8M
Disc Material	SGI, CF8, CF8M, WCB
Stem Material	SS410, SS304, SS316
Body Liner/Seat Material	NBR, EPDM, VITON, SILICONE, PTFE
Shaft Bearing Material	PTFE

Features

- Bi-directional zero leakage butterfly valve.
- ISO Pad for mounting. Gear Operator / Actuator
- Extremely small play between the stem and disc due to 'Double D' drive.
- Accurate dual stem sealing prevents leakage.
- Standard flanged drilling : PN10/PN16, JIS 10K/16K, ASME 125/150#
- 100% Tested With Pneumatic And Fluid (Water) Media.
- Design Standard : ISO 5211, API 609, ASME B16.5 150#.
- Face to Face Dimension: API 609 (CAT A).
- Operator mounting flange : As per ISO 5211.
- Operator: Hand Lever / Gear / Actuator
- Leakage Class: 100% tightness at full differential Pressure.

Dimensions

Size (mm)	ØD	F/F	ØI	ØL	G	J	H	E	Mount
50	168	53	43	93	120	13	225	11	F05
65	191	66	46	105	140	12	225	11	F05
80	214	80	46	126	152.5	14	225	11	F05
100	258	104	52	150	190.5	17	260	14	F07
125	287	125	56	175	216	20	260	17	F07
150	318	150	56	203	241	19	260	17	F07

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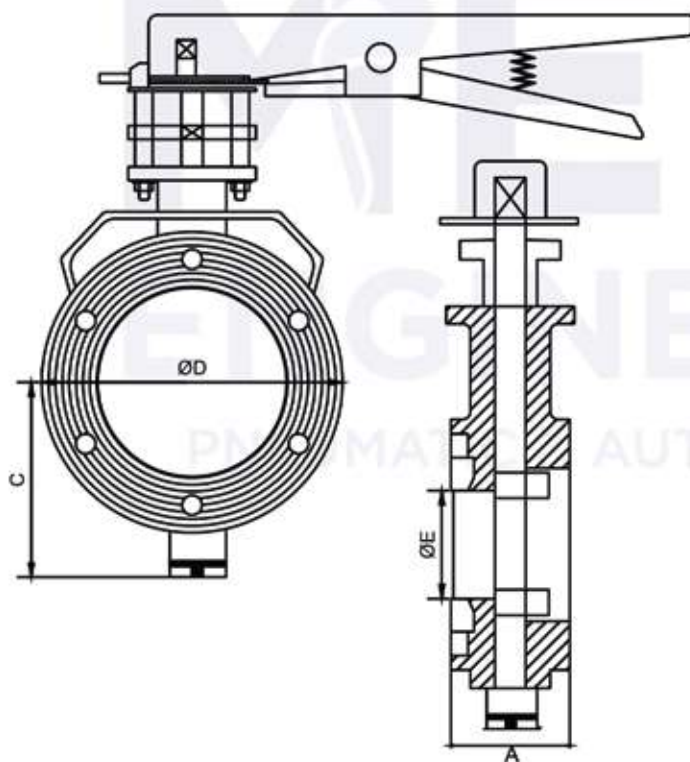


Parts & Components Materials

Description	Material
Body	WCB/ CF8/ CF8M
Disc	WCB/ CF8/ CF8M
Retainer	MS/CF8/CF8M
Seal Ring	NBR/PTFE/Viton/GFT
Shaft	SS 304/316
Stem Shaft	SS 304/316
Disc Pin	SS 304/316/410
Shaft Collar	SS 304/316/410
Shaft Bush	SS 304/316/410
Shaft Bush (PTFE)	MS/CF8/CF8M
Gland Seal Set	PTFE/GFT
Gland Plate	MS/CF8/CF8M

Dimensions

Valve Size mm	Valve Size in	L	C	ØE	ØD	Weight
40	1.1/2"	42	57	38	82	1.6
50	2"	45	68.5	50.8	95	2.2
65	2.1/2"	48	74.5	60.6	108	3
80	3"	48	80	72	127	3.8
100	4"	54	96	100	159	5.6
125	5"	57	117	123	186	7.7
150	6"	57	132	143	217	10.4
200	8"	64	157	192	270	15
250	10"	72	187	239	322	25.75
300	12"	82	218	290	382	36
350	14"	92	242	335	436	46.9
400	16"	102	270.5	387.5	495	66.85
450	18"	114	362	425	540	117
500	20"	127	400	475	595	146.5
600	24"	154	454	560	705	290
650	26"	165	478	608	755	360
700	28"	165	505	661.5	810	390
750	30"	190	542	696	855	475
800	32"	190	580	755	913	524
900	36"	203	640	864	1032	675



Teflon Muffler Butterfly Valve

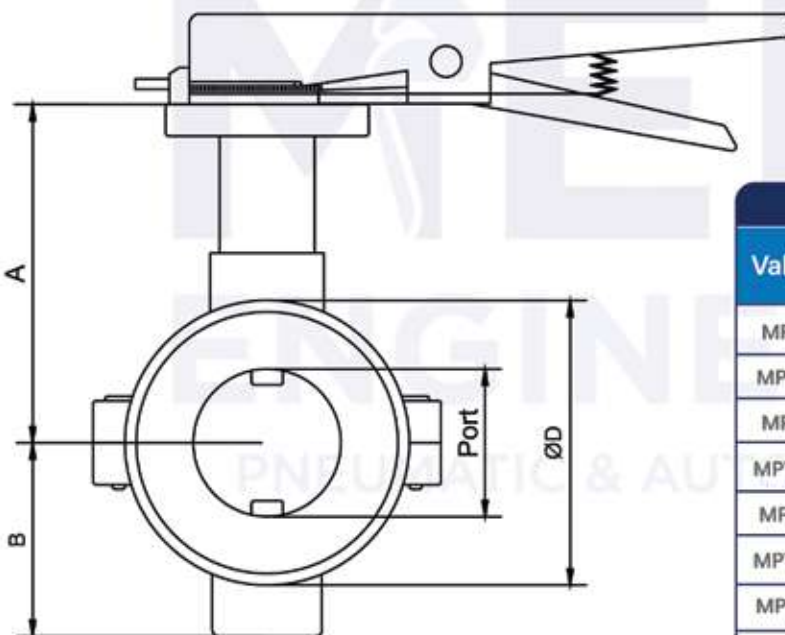


MEEM ENGINEERING
(Pneumatic & Automation Valve)



Parts & Components Materials

Description	Material
Body	CVDVCF8/CF8M
Disc	CVDVCF8/CF8M
seat	PTFE
collar	PTFE
O' Ring	Viton
Metal Bush	PTFE Coated
Top Shaft	AISI 410
Pad	Silicon
Disc Pin	SS 304
Bottom Shaft	AISI 410
O' Ring	Viton
Plug	MS

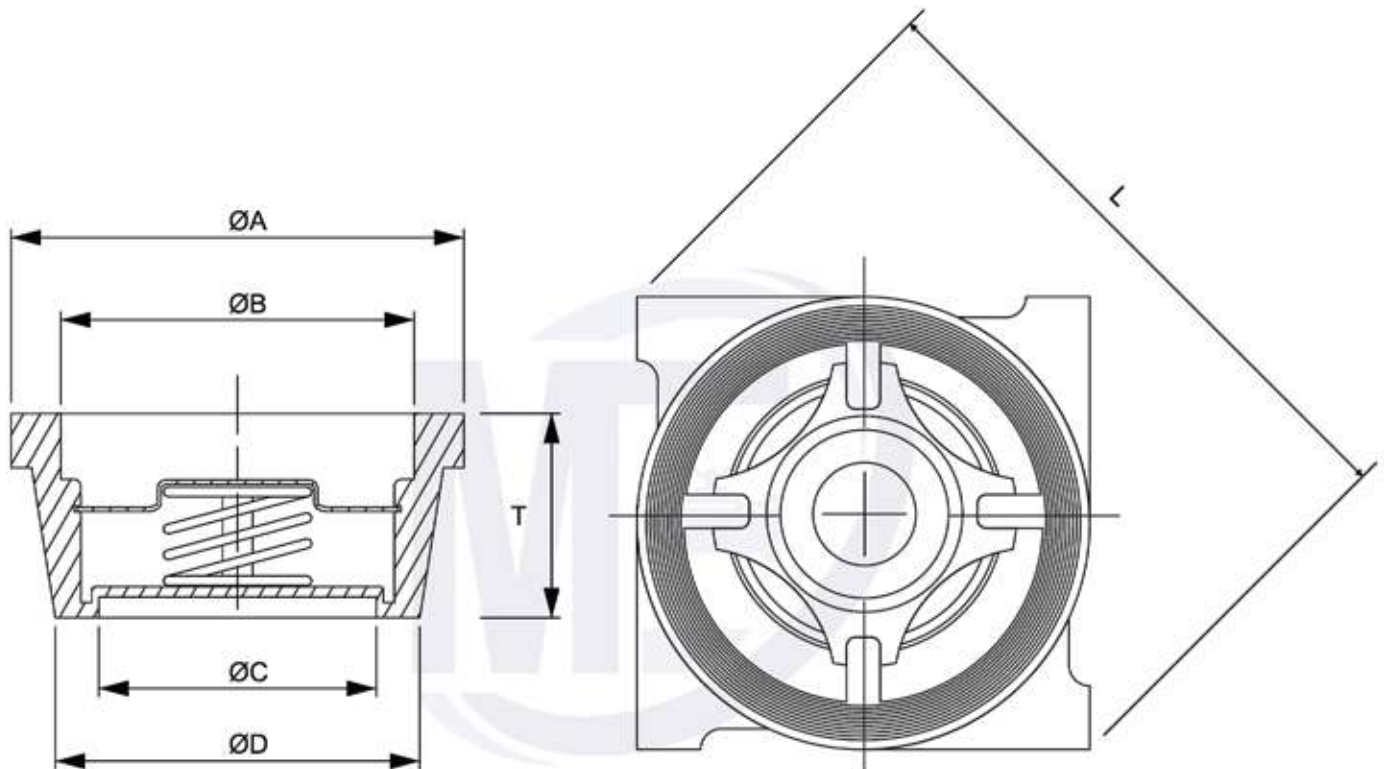


Dimensions

Valve Model	Valve Size		Port	A	B	FF	ØD
	mm	in					
MPTFE-G-50	50	2"	48	107	65	44	101
MPTFE--G-65	65	2 1/2"	62	118	65	46	112
MPTFE-G-80	80	3"	78	122	83	46	130
MPTFE--G-100	100	4"	98	153	98	52	163
MPTFE-G-125	125	5"	125	153.5	112.5	57	160
MPTFE--G-150	150	6"	148	193	122	57	218
MPTFE-G-200	200	8"	196	223	167	63	273
MPTFE--G-250	250	10"	241	236	208	72	340
MPTFE--G-300	300	12"	291	271.5	244.5	78	380

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Parts & Components Materials

Body & Disc	ASTM A215 Gr. WCB/ ASTM A351 Gr. CF8/CF8M
Disc	ASTM A215 Gr. WCB/ ASTM A351 Gr. CF8/CF8M
Spring	SS304 / SS316
Lock Plate	SS304 / SS316
Seat	Metal to Metal/ PTFE (on Request)

Dimensions

Size	A	B	C	D	T	L	Weight
15	43	29	15	38	16	60	0.4
20	53	36	20	45	19	70	0.64
25	63	44	25	56	22	80	0.954
32	73	55	32	65	28	90	1.425
40	83	66	40	74	31	98	1.972
50	93	77	50	85	40	112	2.666
65	114	98	65	107	46	141	4.13
80	132	111	80	122	50	151	5.802
100	153	130	100	142	60	181	8.425
125	185	161	125	170	90	215	-
150	212	190	150	202	105	255	-
200	277	250	200	261	140	320	-

Motorized 3pcs Ball Valve Screwed End/Flanged End ASA 150#/300#



MEEM ENGINEERING (Pneumatic & Automation Valve)

Meem Engineering make electrical on/off, modulating, integral starter operated 3pcs design WCB/CF8/CF8M ball valve.

Size Range: 1/2" to 8" (15MM TO 200MM)

Special Features	
Design and Manufacturers	ASME B 16.34 / ISO 17292
Valve Face to Face Dimension	ASME B 16.10
Flange standard Conformity	ASME B 16.5 Class 150#, 300#
Inspection & Testing	API 598 / BS EN 12266-1 / ISO 17292

No.	Description	Material
1	Body	WCB / S.S. 304 / S.S. 316
2	End Connector	WCB / S.S. 304 / S.S. 316
3	Ball	S.S. 304 / S.S. 316
4	Ball Seat	PTFE / CFT / OFT
5	Stem Pin	AISI 410 / S.S. 304 / S.S. 316
6	Gland With Bush	S.S. 304
7	Stem Seat	PTFE / CFT / OFT
8	Stud & Nut	M.S. / S.S.
9	Electrical Actuator	Standard

Hydro Test

Item	Type of Test	Testing Pressure	Working Pressure	Operating Temperature High. Temp. On Request
Valve body Screwed	Hydraulic	450 PSIG	315 PSIG	Max. 180°C
Valve body Flanged 150#	Hydraulic	450 PSIG	315 PSIG	Max. 180°C
Valve body Flanged 300#	Hydraulic	1125 PSIG	815 PSIG	Max. 180°C

All Dimension are in mm

FLANGED END 150#										
Valve Size mm	Port in	L Screwed ±1mm	L1 ±3mm	ØD ±2mm	b ±2mm	Øg ±1mm	f	ØJ	f	PCD ±1.5mm
15MM	1/2"	13	64	108	90	8	34.9	2	15.9	4
20MM	3/4"	19	70	117	100	8.9	42.9	2	15.9	4
25MM	1"	25	88	127	110	9.6	50.8	2	15.9	4
32MM	1 1/4"	32	105	140	115	11.2	63.5	2	15.9	4
40MM	1 1/2"	38	114	165	125	12.7	73	2	15.9	4
50MM	2"	49	130	178	150	14.3	92.1	2	19.05	4
65MM	2 1/2"	62	170	190	180	15.9	104.8	2	19.05	4
80MM	3"	74	200	203	190	17.5	127	2	19.05	4
100MM	4"	100	210	229	230	22.3	157.2	2	19.05	8
125MM	5"	125		264	255	22.3	185.7	2	22.2	8
150MM	6"	150		267	280	23.9	215.9	2	22.2	8
200MM	8"	201		292	345	27	269.9	2	22.2	8

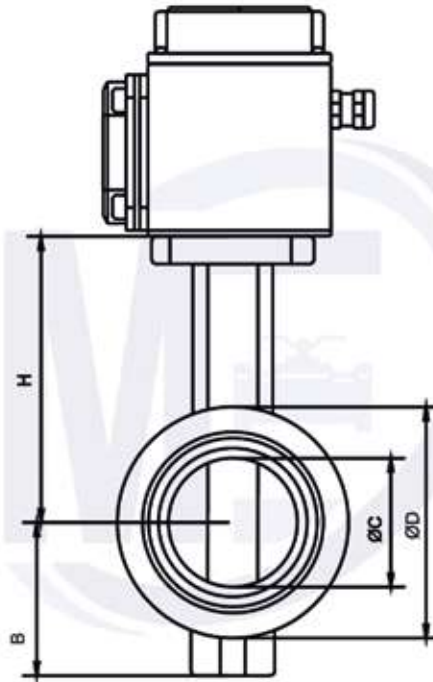
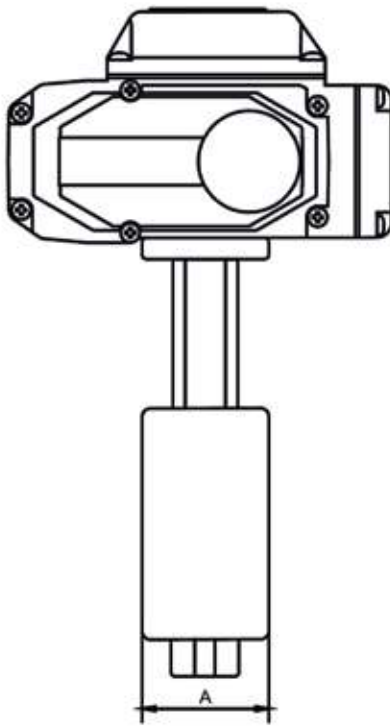
All Dimension are in mm

FLANGED END 300#									
Valve Size mm	Port in	Port ±1mm	ØD ±2mm	b ±2mm	Øg ±1mm	f	ØJ	f	PCD ±1.5mm
15MM	1/2"	13	95	12.7	34.9	2	15.9	4	66.7
20MM	3/4"	19	115	14.3	42.9	2	19.05	4	82.6
25MM	1"	25	125	15.9	50.8	2	19.05	4	88.9
32MM	1 1/4"	32	135	17.5	63.5	2	19.05	4	98.4
40MM	1 1/2"	38	155	19.1	73	2	22.2	4	114.3
50MM	2"	49	165	20.7	92.1	2	22.2	8	127
65MM	2 1/2"	62	190	23.9	104.8	2	22.2	8	149.2
80MM	3"	74	210	27	127	2	22.2	8	168.3
100MM	4"	100	255	30.2	157.2	2	22.2	8	200
125MM	5"	125	280	33.4	185.7	2	22.2	8	235
150MM	6"	150	320	35	215.9	2	22.2	12	269.9
200MM	8"	201	380	39.7	269.9	2	25.4	12	330.2

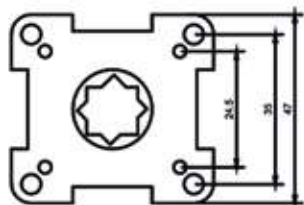
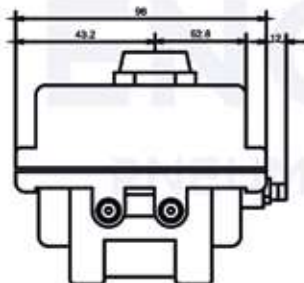
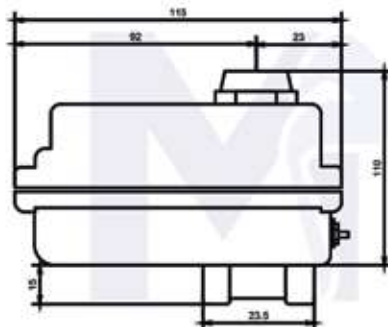
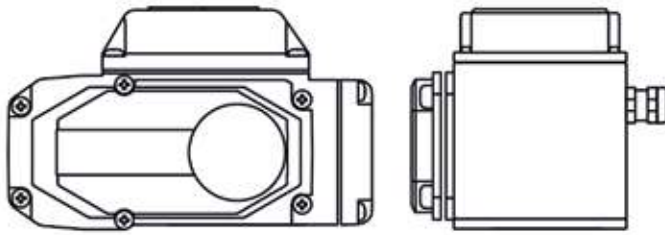


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Dimensions						
Size mm	Size in	A	B	ØC	ØD	H
40	1.1/2"	33	60	38	80	105
50	2"	43	60	48	90	115
65	2.1/2"	46	65	63	105	120
80	3"	46	75	76	122	130
100	4"	52	92	100	147	150
125	5"	56	105	125	175	155
150	6"	56	120	150	200	175
200	8"	60	150	201	255	205
250	10"	68	190	240	320	255
300	12"	78	225	290	375	265



Parts & Components Materials

Shell	Aluminum alloy housing, waterproof grade: IP67, And5
Motor Power	110/220V 1Phase, 380/440V AC 3Phase, 50/60Hz, +10%
Control Power	110/220V AC 1Phase, 50/60Hz, +10%
Motor	Squirrel-cage induction motor
Limit Switch	2X ON / OFF, SPDT, 250V AC 10A
Auxiliary Limit Switch	2X ON / OFF, SPDT, 250V AC 10A
Journey	90-270+10 (Above 90° please state in advance) 0°-270
Failure Protection/ Operating Temperature	Built-in heat protection, Open120C+ 5C/Close97C+15C
Indicator	Continuous position indication
Manual Manipulation	Mechanical handle (Optional handwheel)
Self-Lock Device	Worm gear and worm mechanism provide self - locking
Mechanical Limit	2 External adjusting bolts
Dryer	7-10W (110/220V AC) The condensation
Wiring Hole	2 Pieces M18
Environment Temperature	-20C ~+70C
Oiling	Aluminium base grease (EP type)
Materials	Steel, Aluminium alloy, Aluminium bronze, Polycarbonate
Ambient Humidity	Max 90%RH
Seismic Performance	XYZ 10g, 0.2-34Hz, 307
The Outer Coating	Dry powder, epoxy polyester

Specifications

On/Off Type Electric Actuator

Model	B-03	B-05	B-10	B-16	B-30	B-60	B-125	B-250	B-400
Output Torque	30N·m	50N·m	100N·m	160N·m	300N·m	600N·m	1250N·m	2500N·m	4000N·m
Cycle Time	15/30s	20/60s		15s/30s/90s		30s/60s	100s	100s	100s
Rotation	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°
Starting Current	0.2A	0.25A	0.48A	0.72A	0.88A	1.38A	2.3A	2.3A	3A
Working Current	0.2A	0.25A	0.48A	0.88A	0.8A	1.2A	2A	2A	2.7A
Motor Power	6W/F	10W/F	25W/F	30W/F	40W/F	90W/F	100W/F	120W/F	140W/F
Weight	2.1kg	3.0kg	5.0kg	5.5kg	8.0kg	8.5kg	15.0kg	15.5kg	16.0kg
Voltage Options	AC110V, AC220V, AC380V, AC24VDC24V								
Insulation Resistance	DC24V: 100MQ/250VDC; AC110/220V/380V: 100MQ/500VDC								
Withstand Voltage	DC24V: 500VAC/1min; AC110/220V: 1500VAC/1min; AC380V: 1800VAC/1min								
Protection Class	IP67								
Electrical Connection	G1/2 Water-proof Cable Connectors, Electric Power Wire, Signal Wire								
Ambient Temp.	-30° C~+60° C								

Modulating Type Electric Actuator

Model	B-03	B-05	B-10	B-16	B-30	B-60	B-125	B-250	B-400
Output Torque	30N·m	50N·m	100N·m	160N·m	300N·m	600N·m	1250N·m	2500N·m	4000N·m
Cycle Time	15/30s	20s		15s/30s		30s	100s	100s	100s
Rotation	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°
Starting Current	0.2A	0.25A	0.48A	0.72A	0.88A	1.38A	2.3A	2.3A	3A
Working Current	0.2A	0.25A	0.48A	0.88A	0.8A	1.2A	2A	2A	2.7A
Motor Power	6W/F	10W/F	25W/F	30W/F	40W/F	90W/F	100W/F	120W/F	140W/F
Weight	2.1kg	3.0kg	5.0kg	5.5kg	8.0kg	8.5kg	15.0kg	15.5kg	16.0kg
Voltage Options	AC110V, AC220V, AC380V, AC24V, DC24V								
Input Signal	4-20mADC, 1-5VDC, 0-10VDC								
Output Signal	4-20mADC, 1-5VDC, 0-10VDC								
Tolerance	±0.5%								



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