

4Matic

offers rubber lined Butterfly Valve for HVAC & utilities. These Valves are truly 'Fit & Forget Valve', Which requires minimum maintenance. The body lines which also function as the soft seat, comes in integrally molded version & offers bi - directional sealing against vacuum upto the pressure of PN 10 / 16

Size Range : 1.1/2" to 48"

Butterfly Valve Specification

Valve Type	Centric Disc Butterfly Valve with Single Piece Rubber Lined Body
Body Type	Short Wafer Type
Seat Type	Integrally Molded with The Body (Renewable Seat On Request)
End Connection	Wafer Type Suit 150#, Table 'D', Table 'E' & IS 6392 Table 11 (PN 10 / PN 16)
Pressure Rating	PN 10 / PN 16 (PN 20 On Request)
Oper. Temp. Range	-20 °C to 80 °C For Nitrile Seat (Depending On MOC)
Seat Leakage	Tight Shut Off

Accessories :

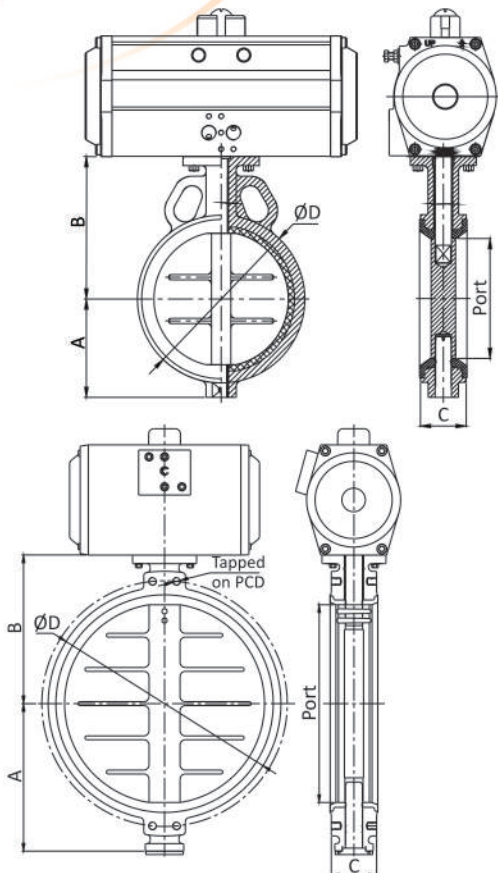
- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Dec clutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

Item	Type Of Test	Testing Pressure	Operating Temperature (Normal)	Operating Temperature (High)
Actuator	Pneumatic Bubble Test	180 To 150 PSIG	-20 °C to 80 °C	High Temp. On Request
Valve Body	Hydraulic	225 PSIG	Max. 80 °C	High Temp. On Request
Seat	Hydraulic	150 PSIG	Max. 80 °C	High Temp. On Request

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size	Port	A	B	C	ØD	PCD	Tapped	Weight (Approx.) Kgs.
Model	MM	Inch	±5MM	±5MM	±5MM	±2MM	±5MM	±0.5MM	
A4ECO - IC - 40	40	1.1/2"	40	61	106	34	80	----	3
A4ECO - IC - 50	50	2"	50	65	121	44	95	----	3.25
A4ECO - IC - 65	65	2.1/2"	65	71	124	46	108	----	5
A4ECO - IC - 80	80	3"	80	80	130	46	124	----	5.25
A4ECO - IC - 100	100	4"	100	98.5	146.5	52	150	----	6.5
A4ECO - IC - 125	125	5"	125	112.5	162	56	186	----	10.6
A4ECO - IC - 150	150	6"	150	125	177	56	205	----	11.5
A4ECO - IC - 200	200	8"	200	152.5	202	60	258.5	----	20
A4ECO - IC - 250	250	10"	241	193	262	68	316	----	24.900
A4ECO - IC - 300	300	12"	286	218	287	78	365	----	33.500
A4ECO - IC - 350	350	14"	333	255	332	78	435	----	43
A4ECO - IC - 400	400	16"	382	310	363	102	488	----	63
A4ECO - IC - 450	450	18"	433	340	388	114	540	577.9	94
A4ECO - IC - 500	500	20"	476	370	425	127	600	635	124.30
A4ECO - IC - 600	600	24"	590	449	495	154	695	749.3	241.5
A4ECO - IC - 650	650	26"	635	455	490	165	740	806.4	215
A4ECO - IC - 700	700	28"	680	488	553	165	799	863.6	278.150
A4ECO - IC - 750	750	30"	725	538	593	190	857	914.4	338.300
A4ECO - IC - 800	800	32"	785	570	630	190	912	977.9	387.100
A4ECO - IC - 850	850	34"	810	----	----	190	1000	1028.7	----
A4ECO - IC - 900	900	36"	885	685	705	203	1025	1085.8	484.8
A4ECO - IC - 950	950	38"	935	694	715	216	1090	1149.4	----
A4ECO - IC - 1000	1000	40"	965	718	738	216	1131	1200.2	----
A4ECO - IC - 1100	1100	44"	1085	----	----	254	1245	1314.45	----
A4ECO - IC - 1200	1200	48"	1170	855	870	254	1350	1422.4	----

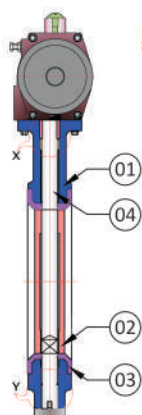
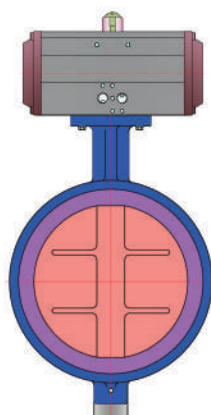


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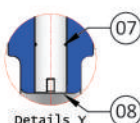
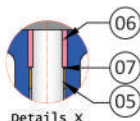
Pub. on: January, 2015 (Rev.-01)

Standard :-

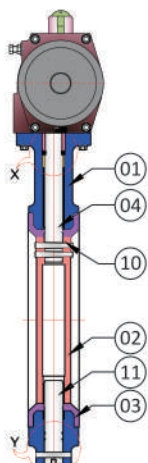
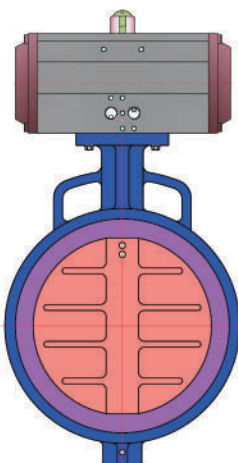
Design And Manufacturer	: API 609 category A / IS - 13095 / BS EN 593
Valve Face To Face Dimension	: Short Wafer As Per ISO 5752 TAB 5 / API 609 Category A ISO 5752 TAB 1 (BS 5155)
Flange Standard Conformity	: ASME B16.5 / 16.47 Series A Class 150, BS 10 TAB D, E & F
Inspection & Testing	: API 598 / BS EN 12266 - 1
Top Flange Drilling	: ISO 5211



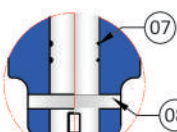
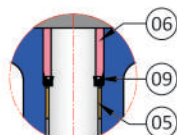
Size Range : Upto 1.1/2" to 3"



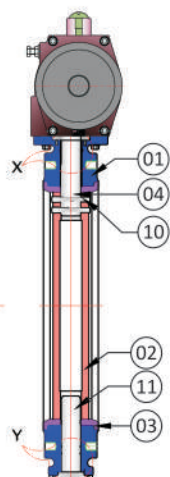
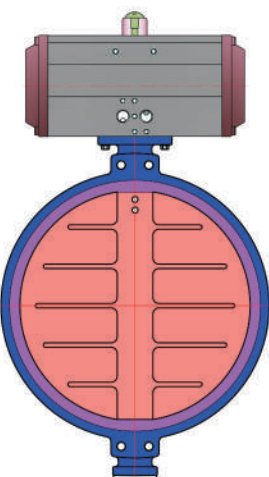
No.	DESCRIPTION	MATERIAL
1	Body	ASTM - A 126 Grade B (Gray Iron) ASTM - A 216 Grade WCB (Cast Iron) ASTM - A 536 Grade 65-45-12 (Ductile Iron) ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN
2	Disc	ASTM - A 126 Grade B (Gray Iron) + Powder Coated ASTM - A 216 Grade WCB (Cast Iron) + Powder Coated ASTM - A 536 Grade 65-45-12 (Ductile Iron) + Powder Coated ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN S.G.Iron with Teflon / Powder / Nylon Coated & Rubber Line
3	Seat	Nitrile / EPDM / Viton / Hypelon / Neopren
4	Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L
5	Bearing Bush	Metal Bush PTFE Coated
6	Bush	Delrin
7	'O' Ring	Nitrile / EPDM / Viton / Hypelon / Neopren
8	Dowel Pin	M.S. / AISI 304 / AISI 316 / AISI 316L



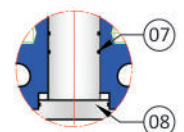
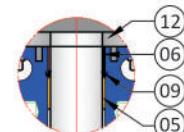
Size Range : Upto 4" to 16"



No.	DESCRIPTION	MATERIAL
1	Body	ASTM - A 126 Grade B (Gray Iron) ASTM - A 216 Grade WCB (Cast Iron) ASTM - A 536 Grade 65-45-12 (Ductile Iron) ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN
2	Disc	ASTM - A 126 Grade B (Gray Iron) + Powder Coated ASTM - A 216 Grade WCB (Cast Iron) + Powder Coated ASTM - A 536 Grade 65-45-12 (Ductile Iron) + Powder Coated ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN S.G.Iron with Teflon / Powder / Nylon Coated & Rubber Line
3	Seat	Nitrile / EPDM / Viton / Hypelon / Neopren
4	Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L
5	Bearing Bush	Metal Bush PTFE Coated
6	Bush	PTFE (Teflon)
7	'O' Ring	Nitrile / EPDM / Viton / Hypelon / Neopren
8	Dowel Pin	M.S. / AISI 304 / AISI 316 / AISI 316L
9	'V' Seal	Nitrile / EPDM / Viton / Hypelon / Neopren
10	Taper Pin	AISI 304 / AISI 316 / AISI 316L
11	Bottom Pin	AISI 410 / AISI 304 / AISI 316 / AISI 316L



Size Range : Upto 18" to 48"



No.	DESCRIPTION	MATERIAL
1	Body	ASTM - A 126 Grade B (Gray Iron) ASTM - A 216 Grade WCB (Cast Iron) ASTM - A 536 Grade 65-45-12 (Ductile Iron) ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN
2	Disc	ASTM - A 126 Grade B (Gray Iron) + Powder Coated ASTM - A 216 Grade WCB (Cast Iron) + Powder Coated ASTM - A 536 Grade 65-45-12 (Ductile Iron) + Powder Coated ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN S.G.Iron with Teflon / Powder / Nylon Coated & Rubber Line
3	Seat	Nitrile / EPDM / Viton / Hypelon / Neopren
4	Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L
5	Bearing Bush	Metal Bush PTFE Coated
6	Bush	PTFE (Teflon)
7	'O' Ring	Nitrile / EPDM / Viton / Hypelon / Neopren
8	Bottom Plate	IS 2062 Gr. B
9	'V' Seal	Nitrile / EPDM / Viton / Hypelon / Neopren
10	Taper Pin	AISI 304 / AISI 316 / AISI 316L
11	Bottom Pin	AISI 410 / AISI 304 / AISI 316 / AISI 316L
12	Gland Plate	IS 2062 Gr. B

Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

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offers rubber lined Butterfly Valve for HVAC & utilities. These Valves are truly 'Fit & Forget Valve', Which requires minimum maintenance. The body lines which also function as the soft seat, comes in integrally molded version & offers bi - directional sealing against vacuum upto the pressure of PN 10 / 16 / PN 0.6 / 10 / 1.6 / PN 20

Size Range : 3" to 48"

Butterfly Valve Specification

Valve Type	Centric Disc Butterfly Valve with Single Piece Rubber Lined Body
Body Type	Short Wafer Type Double Flange
Seat Type	Integrally Molded with The Body (Renewable Seat On Request)
End Connection	Wafer Type Suit 150#, Table 'D', Table 'E' & IS 6392 Table 11 (PN 10 / PN 16)
Pressure Rating	PN 10 / PN 16 (PN 20 On Request)
Oper. Temp. Range	-20 °C to 80 °C For Nitrile Seat (Depending On MOC)
Seat Leakage	Tight Shut Off

TEST PRESSURE

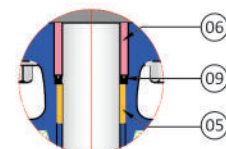
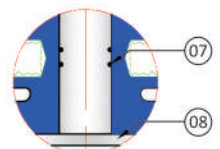
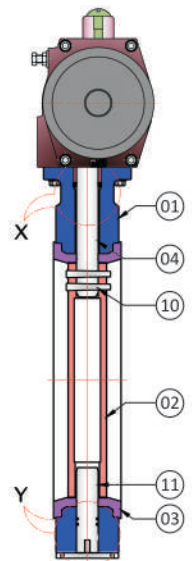
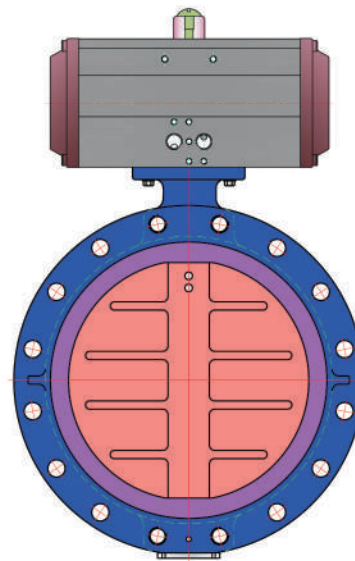
Testing	Body	Seat
Hydraulic	16 Kg/cm ²	10 Kg/cm ²

Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in
- all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

Note : (Valve F to F will be as per Wafer type) (Flange Thickness Non - STD As per Mfg. Std Wafer short Double Flange Body)

No.	DESCRIPTION	MATERIAL
1	Body	ASTM - A 126 Grade B (Gray Iron) ASTM - A 216 Grade WCB (Cast Iron) ASTM - A 536 Grade 65-45-12 (Ductile Iron) ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN
2	Disc	ASTM - A 126 Grade B (Gray Iron) + Powder Coated ASTM - A 216 Grade WCB (Cast Iron) + Powder Coated ASTM - A 536 Grade 65-45-12 (Ductile Iron) + Powder Coated ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN S.G.Iron with Teflon / Powder / Nylon Coated & Rubber Line
3	Seat	Nitrile / EPDM / Viton / Hypelon / Neopren
4	Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L
5	Bearing Bush	Metal Bush PTFE Coated
6	Bush	PTFE (Teflon)
7	'O' Ring	Nitrile / EPDM / Viton / Hypelon / Neopren
8	Bottom Plate	IS 2062 Gr. B
9	'V' Seal	Nitrile / EPDM / Viton / Hypelon / Neopren
10	Taper Pin	AISI 304 / AISI 316 / AISI 316L
11	Bottom Pin	AISI 410 / AISI 304 / AISI 316 / AISI 316L

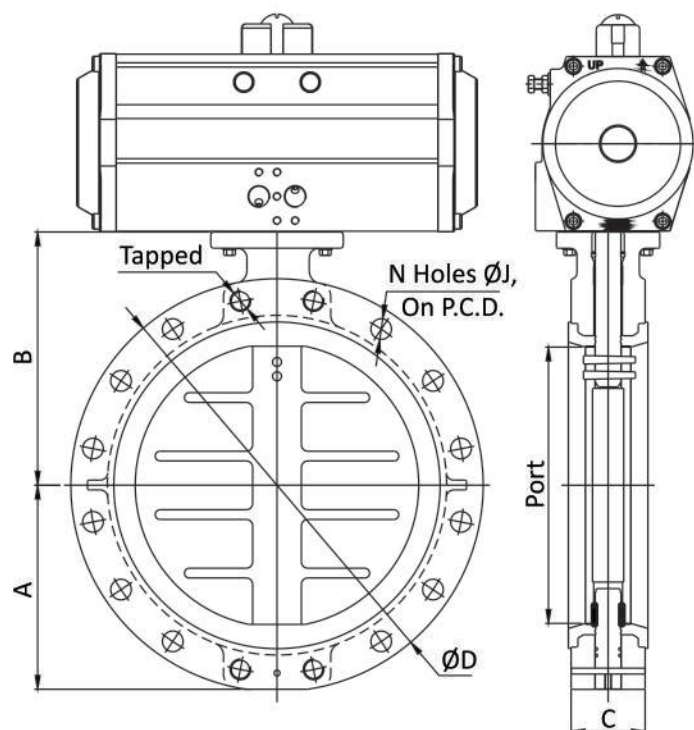
**Details X****Details Y**

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Standard :-

Design And Manufacturer	: API 609 category A / IS : 13095 / BS EN 593
Valve Face To Face Dimension	: Short Wafer As Per ISO 5752 TAB 5 / API 609 Category A ISO 5752 TAB 1
Flange Standard Conformity	: ASME B 16.5 / ASME B 16.47 Class 150, BS 10 TABLE D, E & F *Flange Thickness Non - STD As per Mfg. STD (Wafer Short Double Flange Body)
Inspection & Testing	: API 598 / BS EN 12266 - 1
Top Flange Drilling	: ISO 5211



Dimensions :										(All Dimensions are in mm)	
Valve Model	Valve Size		Port ±1 MM	A ±5 MM	B ±5 MM	C ±2 MM	ØD ±5 MM	N	ØJ ±1 MM	Tapped	PCD ±0.5 MM
	MM	Inch									
DFW-A4ECO-80	80	3"	80	95	129	46	190	4	19.05	--	152.4
DFW-A4ECO-100	100	4"	100	113	147	52	230	8	19.05	--	190.5
DFW-A4ECO-150	150	6"	150	136	177	56	280	8	22.2	--	241.3
DFW-A4ECO-200	200	8"	200	174	214	60	345	8	22.2	--	298.5
DFW-A4ECO-250	250	10"	241	212	275	68	405	12	25.4	--	362
DFW-A4ECO-300	300	12"	286	241	305	78	485	12	25.4	--	431.8
DFW-A4ECO-350	350	14"	333	271	341	78	535	12	28.6	--	476.3
DFW-A4ECO-400	400	16"	382	300	365	102	595	16	28.6	--	539.8
DFW-A4ECO-450	450	18"	433	318	405	114	635	16	31.75	1" UNC	577.9
DFW-A4ECO-500	500	20"	476	353	430	127	700	20	31.75	1" UNC	635
DFW-A4ECO-600	600	24"	590	420	525	154	815	20	34.9	1.1/4" UNC	749.3
DFW-A4ECO-650	650	26"	635	----	----	165	870	24	34.9	1.1/4" UNC	806.4
DFW-A4ECO-700	700	28"	680	465	545	165	925	28	34.9	1.1/4" UNC	863.6
DFW-A4ECO-750	750	30"	725	486	577	190	985	28	34.9	1.1/4" UNC	914.4
DFW-A4ECO-800	800	32"	785	----	----	190	1060	28	41.3	1.1/2" UNC	977.9
DFW-A4ECO-900	900	36"	885	----	----	203	1170	32	41.3	1.1/2" UNC	1085.8
DFW-A4ECO-1000	1000	40"	965	----	----	216	1290	36	41.3	1.1/2" UNC	1200.2
DFW-A4ECO-1200	1200	48"	1170	758	870	254	1510	44	41.3	1.1/2" UNC	1422.4

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4Matic

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Flow Control Application Of Air & gas.

Size Range : 1.1/2" to 20"

Butterfly Valve Specification

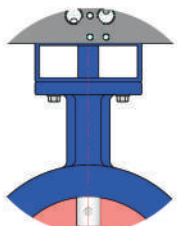
Valve Type	Wafer Type Damper Valve with Metal to Metal
Body Type	Short Wafer Type (Sandwiched between flanges) Damper
Seat Type	Metal to Metal
End Connection	Wafer Sandwiched (Lug Type On Request)
Pressure Rating	PN 6 (Maximum)
Oper. Temp. Range	-25 °C to 400 °C (Depending On MOC) Upto 600 °C
Seat Leakage	5% Leakage of full flow (Class 1 Available On Request)

TEST PRESSURE

Testing	Body	Seat
Hydraulic	10 Kg/cm ²	5% Leakage

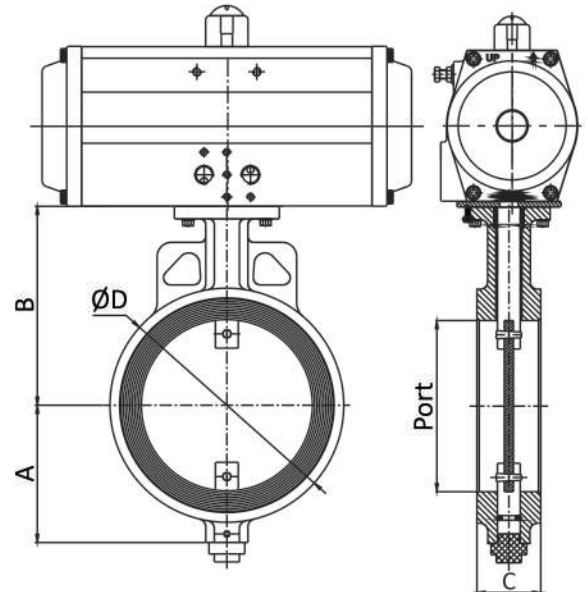
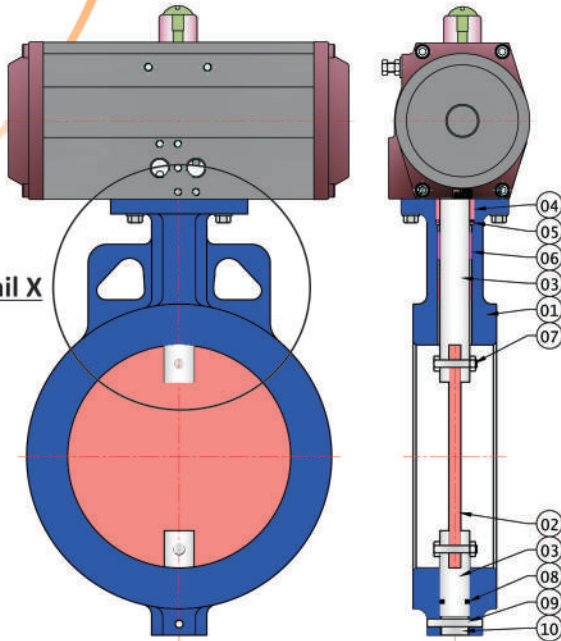
Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve



Detail X
Size 1.1/2" to 8"

Detail X



Dimensions : (All Dimensions are in mm)

Valve Model	Valve Size MM	Valve Size Inch	Port ±1 MM	A ±5 MM	B ±5 MM	C ±2 MM	ØD ±5 MM
A4DP - 40	40	1.1/2"	40	55.5	81.5	33.5	85
A4DP - 50	50	2"	50	60.5	100	43.5	80
A4DP - 65	65	2.1/2"	65	68	107.5	46	102
A4DP - 80	80	3"	80	75.5	115	46	125
A4DP - 100	100	4"	100	85.5	125	52	139
A4DP - 125	125	5"	125	108.5	167.5	56	168
A4DP - 150	150	6"	150	121	180	56	204
A4DP - 200	200	8"	200	146	205	60	252
A4DP - 250	250	10"	245	221	271	68	316
A4DP - 300	300	12"	295	252	296	78	362
A4DP - 350	350	14"	340	271	312	78	405
A4DP - 400	400	16"	388	300	365	102	470
A4DP - 450	450	18"	450	332	368	90	540
A4DP - 500	500	20"	490	377	420	90	595

Note : Big Sizes also available.

No.	DESCRIPTION	MATERIAL
1	Body	ASTM - A 126 Grade B (Gray Iron) ASTM - A 216 Grade WCB (Cast Iron) ASTM - A 536 Grade 65-45-12 (Ductile Iron) ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN
2	Disc	IS 2062 Gr. B with Powder Coated AISI 304 / 316 / 316L with Powder Coated
3	Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L
4	Teflon Bush	Teflon
5	Gland Ring	Graphite
6	Bering Bush	Metal Bush PTFE Coated
7	Nut & Bolt	S. S. 202 / S. S. 304
8	Bottom Ring	Graphite
9	Dowel Pin	IS 2062 Gr. B
10	Bottom Cover	IS 2062 Gr. B

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PNEUMATIC ROTARY ACTUATOR OPERATED Double Flange Fabricated Damper Valve

Catalogue No.
APL / 2014

4Matic

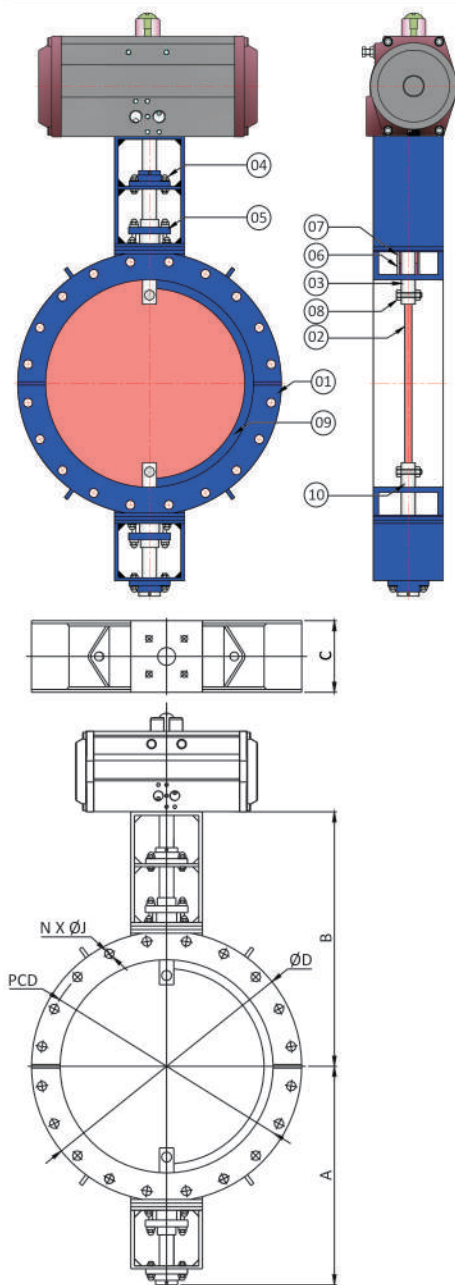
offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Double Flange Fabricated Damper Valve

Size Range : 8" to 80"

Valve Specification

Valve Type	Centric Disc Damper Valve
Body Type	Double Flange
Seat Type	Metal to Metal
End Connection	PN 6, EN 1092 - 1 (ASME B 16.47 Series B)
Pressure Rating	5Kg/cm ²
Oper. Temp. Range	Upto 450 °C
Seat Leakage	5% Leakage Of Main Flow (Class - 1 Available On Request)

We can
manufacture
damper valve as per
client's
drawing & dimension.



No.	DESCRIPTION	MATERIAL
1	Body	IS 2062 Gr. B
2	Disc	IS 2062 Gr. B
3	Shaft	AISI 410
4	Bearing	Standard
5	Gland Pata	IS 2062 Gr. B
6	Teflon Bush	Teflon
7	Graphite Ring	Graphite
8	Hex Bolt	S.S. 304
9	Seat Ring	IS 2062 Gr. B
10	Bottom Shaft	AISI 410

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		ØD ±5 mm	PDC ±0.5 mm	N	ØJ	A	B	C ±2 mm
	MM	Inch							
A4ATF-MS-G-200	200	8"	320	280	8	18	310	360	150
A4ATF-MS-G-250	250	10"	375	335	12	18	338	388	150
A4ATF-MS-G-300	300	12"	440	395	12	22	370	420	150
A4ATF-MS-G-350	350	14"	490	445	16	22	395	445	150
A4ATF-MS-G-400	400	16"	540	495	16	22	420	470	150
A4ATF-MS-G-450	450	18"	595	550	16	22	448	498	150
A4ATF-MS-G-500	500	20"	645	600	20	22	523	573	200
A4ATF-MS-G-600	600	24"	755	705	20	26	578	628	200
A4ATF-MS-G-650	650	26"	785	744	20	26	593	643	200
A4ATF-MS-G-700	700	28"	860	810	24	26	630	680	200
A4ATF-MS-G-750	750	30"	887	846	24	26	644	694	200
A4ATF-MS-G-800	800	32"	975	920	24	30	688	738	200
A4ATF-MS-G-850	850	34"	1005	957	24	30	703	753	200
A4ATF-MS-G-900	900	36"	1075	1020	24	30	738	838	250
A4ATF-MS-G-1000	1000	40"	1175	1120	28	30	788	868	250
A4ATF-MS-G-1200	1200	48"	1405	1340	32	33	903	1003	250
A4ATF-MS-G-1400	1400	56"	1630	1560	36	36	1015	1115	300
A4ATF-MS-G-1600	1600	64"	1830	1760	40	36	1115	1215	300
A4ATF-MS-G-1800	1800	72"	2045	1970	44	39	1223	1323	300
A4ATF-MS-G-2000	2000	80"	2265	2180	48	42	1333	1433	300

Note : Big Sizes also available

Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

Pub. on: January, 2015 (Rev.-01)



PNEUMATIC ROTARY ACTUATOR OPERATED FEP / PFA Lined Butterfly Valve

Catalogue No.
APL / 2012

4Matic
Industrial Valves and Valve Automation

4Matic

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated FEP / PFA Lined Butterfly Valve, engineered for optimum Solution to the corrosive Application.

Size Range : 2" to 12"

Butterfly Valve Specification

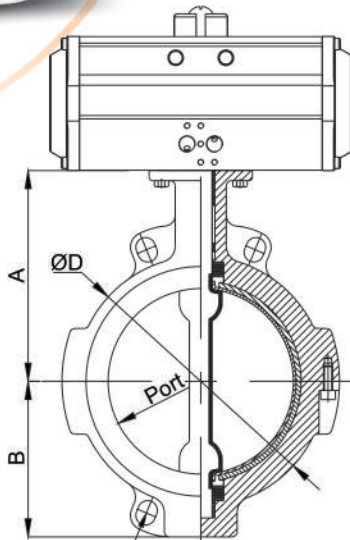
Valve Type	Centric Disc Butterfly Valve with FEP / PFA Lined Body
Body Type	Short Wafer (Sandwiched between flanges) Two Piece Design
Seat Type	Lined with the body
End Connection	Wafer sandwiched (Lug Type On Request)
Pressure Rating	PN 10 / (PN 16 On Request)
Oper. Temp. Range	-25 °C to 200 °C Depending On MOC
Seat Leakage	Tight Shut Off

Accessories :

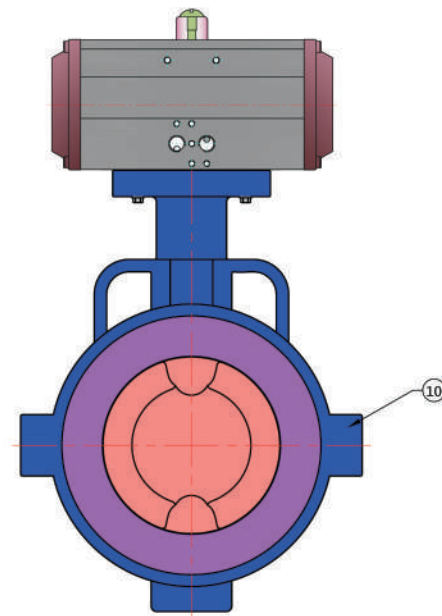
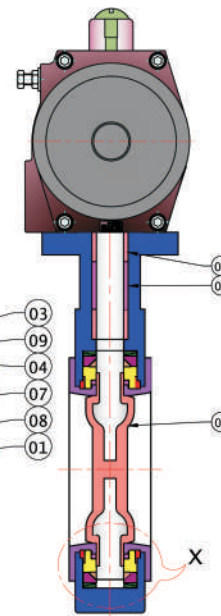
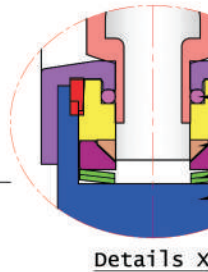
- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

Standard :-

Design And Manufacturer	: API 609 Category A/BS 5155 / MSS SP - 67 / C - 504
Valve Face To Face Dimension	: Short Wafer as per ISO 5752 Tab 5 API 609 Category A
Top flange drilling	: ISO 5211 II
Inspection & Testing	: API 598 / BS 6755 / FCI - 70-2
Flange Standard Conformity	: ANSI 150, DIN PN 6 / 16
Spark Test	: 15 kv DC



ON & ABOVE 200 NB.



Dimensions : (All Dimensions are in mm)

Valve Model	Valve Size		Port	A	B	F to F	ØD
	MM	Inch					
A4FEP-SGI-50	50	2"	48	99.5	67	43	101
A4FEP-SGI-65	65	2.1/2"	62	115	65	47	112
A4FEP-SGI-80	80	3"	78	120	81	47	130
A4FEP-SGI-100	100	4"	98	158	95	54	160
A4FEP-SGI-125	125	5"	125	153.5	112.5	57	185
A4FEP-SGI-150	150	6"	148	195	122	59	218
A4FEP-SGI-200	200	8"	200	221	165	64	270
A4FEP-SGI-250	250	10"	241	236	208	72	340
A4FEP-SGI-300	300	12"	291	270	243.5	82	380

No.	DESCRIPTION	MATERIAL	QTY
1	Body	ASTM - A 126 Grade B (Gry Iron) ASTM - A 216 Grade WCB (Cast Steel) ASTM - A 351 Grade Cf8 / CF8M / CF3M	01
2	Disc	ASTM - A 351 Grade Cf8 / CF8M / CF3M (FEP / PFA) with Molding	01
3	Sleeve	FEP / PFA	01
4	'O' Ring	Viton	02
5	Bush	PTFE ((Teflon)	02
6	Bush	Metal Bush 304	02
7	Truth Bush	S. S. 304	02
8	Washer	Spring Steel	04
9	Gasket	Silicon Big	02
10	L. N. Bolt	S. S. 202	02

Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

Pub. on: January, 2015 (Rev.-01)

PNEUMATIC ROTARY ACTUATOR OPERATED "PTFE SLEEVE" with MIRROR Finish Disc Butterfly Valve

Catalogue No.
APL / 2031

4Matic

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated PTFE Lined Butterfly Valve for corrosive Application. The PTFE Seal Lined covers the entire wetted surface of the body and Extends on to the flanged contact faces, Thus elimination as possibility of media contact with the body.

Size Range : 2.1/2" to 48"

Butterfly Valve Specification

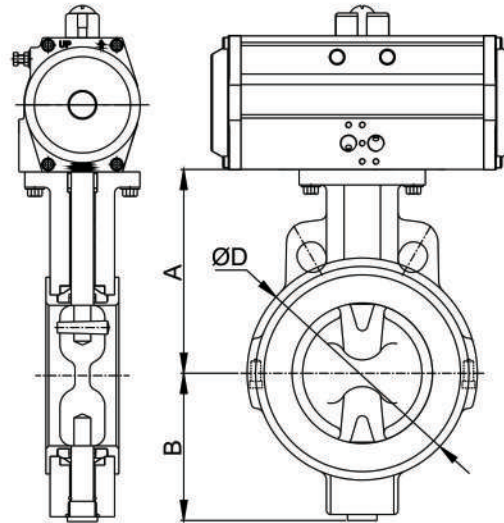
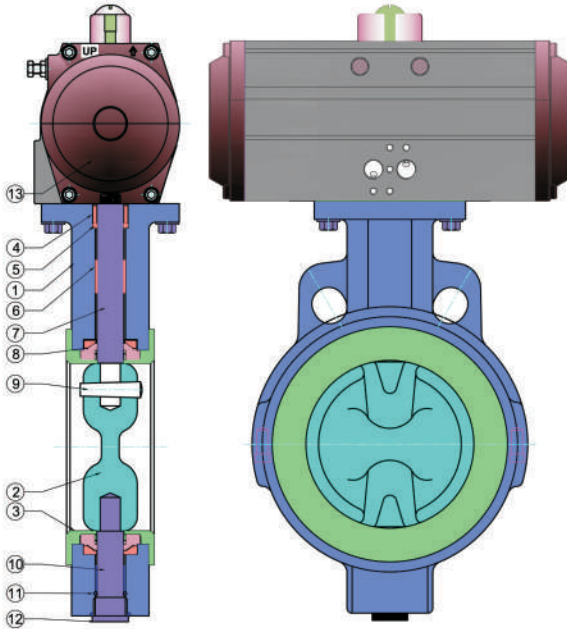
Valve Type	Centric Disc Butterfly Valve with FEP / PFA Lined Body
Body Type	Short Wafer (Sandwiched between flanges) Two Piece Design
Seat Type	Teflon Sleeve
End Connection	Wafer sandwiched (Lug Type On Request)
Pressure Rating	PN 10 / (PN 16 On Request)
Oper. Temp. Range	160 °C Depending On MOC
Seat Leakage	Tight Shut Off

Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in
- all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Decutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

Standard :-

Design And Manufacturer : API 609 Category A/BS 5155 / MSS SP - 67 / C - 504
 Valve Face To Face Dimension : Short Wafer as per ISO 5752 Tab 5 API 609 Category A
 Top flange drilling : ISO 5211 II
 Inspection & Testing : API 598 / BS 6755 / FCI - 70-2
 Flange Standard Conformity : ANSI 150, DIN PN 6 / 16



No.	Description	Material
1	Body	C.I. / WCB / CF8 / CF8M / D.I.
2	Disc	CF8 / CF8M / D.I.
3	Seat	PTFE
4	Collar	PTFE
5	"O" - Ring	Viton
6	Metal Bush	PTFE Coated
7	Top Shaft	AISI 410
8	Pad	Silicon
9	Disc Pin	S. S. 304
10	Bottom Shaft	AISI 410
11	"O" - Ring	Viton
12	Plug	M.S.
13	Actuator	Alluminium

Dimensions : (All Dimensions are in mm)

Valve Model	Valve Size		A	B	ØD
	MM	Inch			
A4ITC - 50	50	2"	99.5	67	101
A4ITC - 65	65	2.1/2"	115	65	112
A4ITC - 80	80	3"	120	81	130
A4ITC - 100	100	4"	158	95	160
A4ITC - 125	125	5"	153.5	112.5	185
A4ITC - 150	150	6"	195	122	218
A4ITC - 200	200	8"	221	165	270
A4ITC - 250	250	10"	236	208	340
A4ITC - 300	300	12"	270	243.5	380

Note : Big Sizes also available

Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

Pub. on: January, 2015 (Rev.-01)

**PNEUMATIC ROTARY ACTUATOR OPERATED
"UPVC"
Butterfly Valve**

Catalogue No.
APL / 2032

4Matic
Industrial Valves and Valve Automation

4Matic

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated UPVC Butterfly Valve now come with an update design that offers angle switching control. Increased neck height makes it easier to install. Sealing surface and through hole are processed on CNC machines for reliable and enhanced sealing performance.

Size Range : 2" to 8"

Butterfly Valve Specification

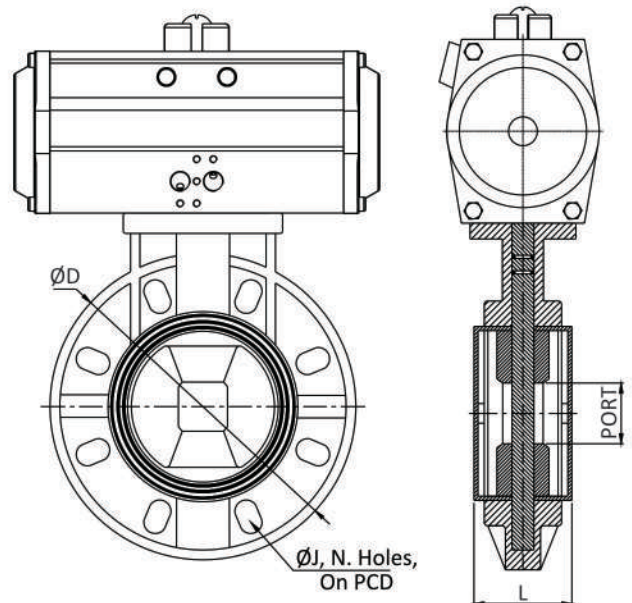
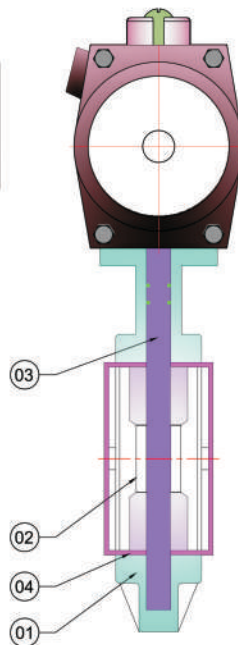
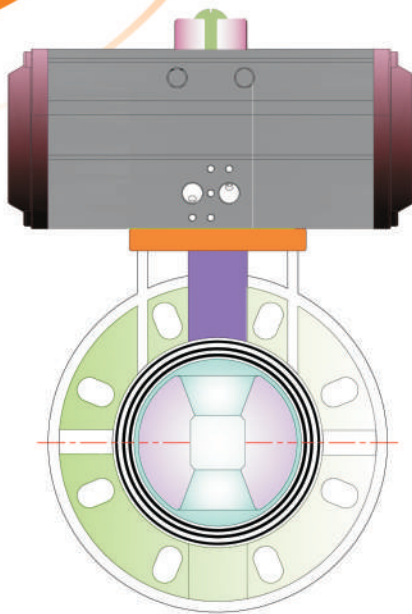
Body	UPVC
Disc	Polypropylene
Pressure	7 Kg/cm ²
Temperature	Upto 80 °C
Ends	Wafer Type

Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in
- all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge

Advantages

- Improved PP disc to enhance the performance.
- Thickness body and seal to extend the service life.
- Materials meet drinking water standard.
- 100% pure virgin material, CaCO₃ free (Chalk)
- UV resistant powder added.
- Can be assembled with pneumatic Actuator.



No.	DESCRIPTION	MATERIAL
1	Body	UPVC
2	Disc	Polypropylene
3	Shaft	AISI 410
4	Seat	NBR

Dimensions : (All Dimensions are in mm)

Valve Model	Valve Size MM	Inch	Port	L	ØD	ØJ	N	PCD
A4UPB - 50	50	2"	54	44.5	160	20	4	123
A4UPB - 65	65	2.1/2"	67	48	184	21	4	143
A4UPB - 80	80	3"	83	53	198	21	8	157
A4UPB - 100	100	4"	101	57	231	21	8	186
A4UPB - 125	125	5"	127	68	257	24	8	213
A4UPB - 150	150	6"	152	73	285	24	8	240
A4UPB - 200	200	8"	200	92	340	24	8	296

Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

Pub. on: January, 2015 (Rev.-01)

PNEUMATIC ROTARY ACTUATOR OPERATED Double Eccentric Off-Set Disc Wafer Type Butterfly Valve

Catalogue No.
APL / 1061

4Matic
Industrial Valves and Valve Automation

4Matic

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Off - Set Disc Butterfly Valve "WAFER" Type Construction engineered for multiply ON/OFF Operation in the large Pipe line and full flow down Stream.

**Fire Safe
Design**

609 - 0055

Size Range : 2.1/2" to 48"

Standard :

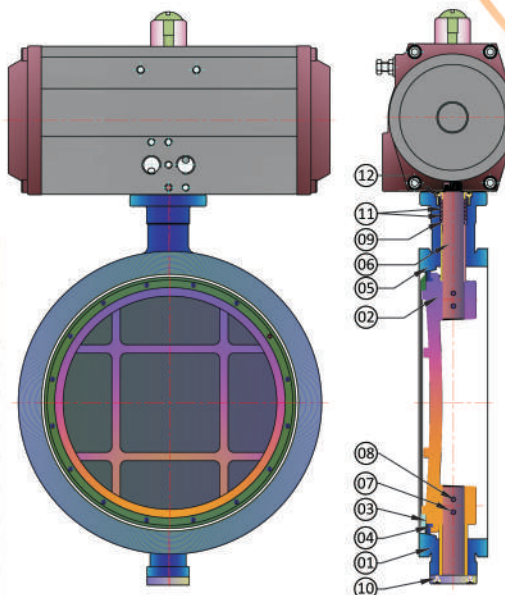
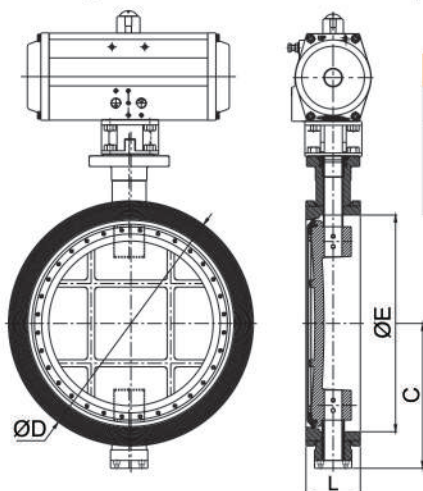
- Design And Manufacturing : API 609 Category "B" / MSS SP - 68
- Valve Face to Face Dimensions : API 609 Category "B" / ISO 5752 MSS SP-68
- Flange Standard Conformity : ASME B 16.5 Class 150
ASME B 16.47 Series "A" Class 150
- Inspection & Testing : API 598
- Pressure Temperature Rating : ASME B16.34
- Top Flange Dimensions : Bolt Hole ISO 5211
- Stem Dimensions : Square Drive to ISO 5211
- Leakage Class : Class VI as per ANSI B 16, 16.104

Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in
- all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

PRESSURE / TEMPERATURE RATING

PRESSURE RATING	150# (PN 10 / PN 16 / PN 25)
OPERATING TEMPERATURE	NBR - -10 °C TO +90 °C / EPDM - -20 °C TO +120 °C VITON - 0 °C TO +220 °C / PTFE - -25 °C TO +180 °C RPTFE - -25 °C TO +220 °C / TFM -25 °C TO +250 °C



Dimensions : (All Dimensions are in mm)

Valve Model	Valve Size		L	ØD	ØE	C
	MM	Inch				
A4BOD-65	65	2.1/2"	48	104.8	70	---
A4BOD-80	80	3"	51	126	86	---
A4BOD-100	100	4"	54	158	110	96
A4BOD-125	125	5"	56	185.87	120	112
A4BOD-150	150	6"	57	216	152	115
A4BOD-200	200	8"	64	270	200	141
A4BOD-250	250	10"	71	325	250	179
A4BOD-300	300	12"	81	373	306	210
A4BOD-350	350	14"	92	412	355	234
A4BOD-400	400	16"	102	472	400	275
A4BOD-450	450	18"	114	532	450	327.5
A4BOD-500	500	20"	127	584	505	359
A4BOD-600	600	24"	154	692.2	612	409
A4BOD-650	650	26"	165	749.3	640	640
A4BOD-700	700	28"	165	800.1	705	500
A4BOD-750	750	30"	190	857.25	725	571
A4BOD-800	800	32"	190	915	800	630
A4BOD-850	850	34"	205	965.2	850	655.5
A4BOD-900	900	36"	205	1022.35	900	680
A4BOD-1000	1000	40"	300	1124	1000	735
A4BOD-1200	1200	48"	350	1359	1200	915

No.	Description	Material	Qty.
1	Body	C.I. / WCB / CF8 / CF8M / D.I.	1
2	Disc	C.I. / WCB / CF8 / CF8M / D.I.	1
3	Retainer	M.S. / CF8 / CF8M	1
4	Disc Seal Ring	PTFE / RPTFE / NBR / EPDM / Viton	1
5	Body Seat Ring	S.S. 304 / 316	1
6	Shaft	S.S. 304 / 316 / 410	1
7	Stem Shaft	S.S. 304 / 316 / 410	1
8	Disc Pin	S.S. 304 / 316 / 410	4
9	Flange Side Washer	S.S. 304 / 316 / 410	1
10	Stem Square	M.S. / CF8 / CF8M	1
11	Gland Seal Set	PTFE / NBR / EPDM / Viton	5
12	Gland Plate	M.S. / CF8 / CF8M	1

Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

Pub. on: January, 2015 (Rev.-01)

PNEUMATIC ROTARY ACTUATOR OPERATED Double Eccentric Off-Set Double Flange Butterfly Valve 150#

Catalogue No.
APL/1059

4Matic
Industrial Valves and Valve Automation

4Matic

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Off - Set Disc Butterfly Valve in Double Flange Construction engineered for multiple ON / OFF Operation in the large Pipe line and full flow down Stream.



Size Range : 2.1/2" to 48"

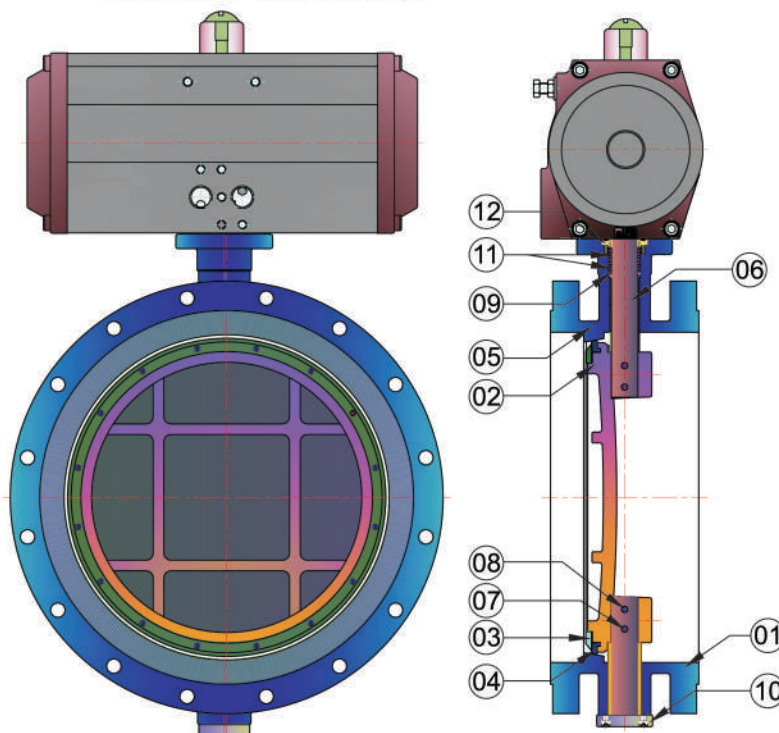
Standard :

- Design And Manufacturing : API 609 / BS 5155 / BSEN 593 IS 13095 / AWWA C-504
- Valve Face to Face Dimensions : API 609 (Short Pattern) / BS 5155 (Short Pattern) IS 13095 (Short Pattern) AWWA C - 504 (Short Pattern)
- Flange Standard Conformity : ASME B16.5 Class 150 (Upto 24") ASME B16.47 Series "A" Class 150 (26" to 48") AWWA C-207, IS1538, BS5404, IS 6392
- Inspection & Testing : API 598 / BS 6755 / AWWA C -504
- Pressure Temperature Rating : ASME B16.34
- Top Flange Dimensions : Bolt Hole ISO 5211
- Stem Dimensions : Square Drive To ISO 5211
- Leakage Class : Class VI As Per ASME B 16, 16.104



609 - 0055

**Fire Safe
Design**



PRESSURE / TEMPERATURE RATING

PRESSURE RATING	150# (PN 10 / PN 16 / PN 25)
OPERATING TEMPERATURE	NBR - -10 °C TO +90 °C
	EPDM - -20 °C TO +120 °C
	VITON - 0 °C TO +220 °C
	PTFE - -25 °C TO +180 °C
	RPTFE - -25 °C TO +220 °C
	TFM -25 °C TO +250 °C

Accessories :

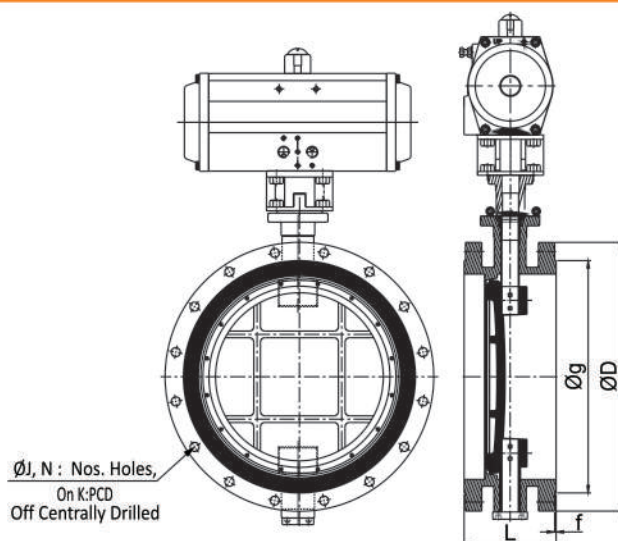
- On / OFF Indicator
- NAMUR Standard Solenoid Valve in
- all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

Notes : We Have Successfully Carried Out Proof of Design Test on these Rubber Seated Butterfly Valve as per AWWA C - 504

No.	Description	Material	Qty.
1	Body	C.I. / WCB / CF8 / CF8M / D.I	01
2	Disc	WCB / CF8 / CF8M / D.I	01
3	Retainer	M.S. / CF8 / CF8M	01
4	Disc Seal Ring	RPTFE / PTFE / NBR / EPDM / Viton	01
5	Body Seat Ring	S.S. 304 / 316	01
6	Shaft	S.S. 304 / 316 / 410	01
7	Stem Shaft	S.S. 304 / 316 / 410	01
8	Disc Pin	S.S. 304 / 316 / 410	03
9	Flange Side Washer	S.S. 304 / 316 / 410	01
10	Stem Square	M.S. / CF8 / CF8M	01
11	Gland Seal Set	PTFE / NBR / EPDM / Viton / RPTFE	05
12	Gland Plate	M.S. / CF8 / CF8M	01

Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

Pub. on: January, 2015 (Rev.-01)



Note : Big Sizes also available

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		150#							AWWA C - 504					
	MM	Inch	L API 609	ØD	Øg	f	ØJ	N	K:PCD	L AWWA C - 504	ØD	b	ØJ	N	K:PCD
A4BOD - 65	65	2.1/2"	112	180	104.8	2	19.05	04	139.7	127	180	16	19.05	4	139.7
A4BOD - 80	80	3"	114	190	127	2	19.05	04	152.4	127	190	16	19.05	4	152.4
A4BOD - 100	100	4"	127	230	157.2	2	19.05	08	190.5	127	228.6	16	19.05	8	190.5
A4BOD - 125	125	5"	140	255	185.7	2	22.2	08	215.9	127	254	16	19.05	8	215.9
A4BOD - 150	150	6"	140	280	215.9	2	22.2	08	241.3	127	279.4	17.5	22.35	8	241.3
A4BOD - 200	200	8"	152	345	269.9	2	22.2	08	298.5	152	342.9	17.5	22.35	8	298.45
A4BOD - 250	250	10"	165	405	323.8	2	25.4	12	362	203	406.4	17.5	25.4	12	361.95
A4BOD - 300	300	12"	178	485	381	2	25.4	12	431.8	203	482.6	20.6	25.4	12	431.8
A4BOD - 350	350	14"	190	535	412.8	2	28.6	12	476.3	203	533.4	23.8	28.45	12	476.25
A4BOD - 400	400	16"	216	595	469.9	2	28.6	16	539.8	203	596.9	25.4	28.45	16	539.75
A4BOD - 450	450	18"	222	635	533.4	2	31.75	16	577.9	203	635	26.9	31.75	16	577.85
A4BOD - 500	500	20"	229	700	584.2	2	31.75	20	635	203	698.5	28.5	31.75	20	635
A4BOD - 600	600	24"	267	815	692.2	2	34.9	20	749.3	203	812.8	31.75	35.05	20	749.3
A4BOD - 650	650	26"	292	870	749	2	34.9	24	806.4	305	869.9	33.3	35.05	24	806.45
A4BOD - 700	700	28"	292	925	800	2	34.9	28	863.6	305	927.1	33.3	35.05	28	863.6
A4BOD - 750	750	30"	318	985	857	2	34.9	28	914.4	305	984.25	35	35.05	28	914.4
A4BOD - 800	800	32"	318	1060	914	2	41.3	28	977.9	305	1060.45	38.1	41.15	28	977.9
A4BOD - 850	850	34"	320	1110	965	2	41.3	32	1028.7	305	1111.25	38.1	41.15	32	1028.7
A4BOD - 900	900	36"	340	1170	1022	2	41.3	32	1085.8	305	1168.4	41.2	41.15	32	1085.85
A4BOD - 1000	1000	40"	410	1290	1124	2	41.3	36	1200.2	305	1289	41.2	41.15	36	1200.15
A4BOD - 1050	1050	42"	410	1345	1194	2	41.3	36	1257.3	305	1346.2	44.5	41.15	36	1257.3
A4BOD - 1200	1200	48"	470	1510	1359	2	41.3	44	1422.4	381	1511.3	47.62	41.15	44	1422.4

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		PN 10							PN 16						
	MM	Inch	L API 609	ØD	Øg	f	ØJ	N	K:PCD	L API 609	ØD	Øg	f	ØJ	N	K:PCD
A4BOD - 65	65	2.1/2"	---	---	---	---	---	---	---	112	185	122	3	18	04	145
A4BOD - 80	80	3"	114	200	133	3	18	04	160	114	200	138	3	18	08	160
A4BOD - 100	100	4"	127	220	153	3	19	08	180	127	220	158	3	18	08	180
A4BOD - 150	150	6"	140	285	209	3	23	08	240	140	285	212	3	22	08	240
A4BOD - 200	200	8"	152	340	264	3	23	08	295	152	340	268	3	22	12	295
A4BOD - 250	250	10"	165	395	319	3	23	12	350	165	405	320	3	26	12	355
A4BOD - 300	300	12"	178	445	367	4	23	12	400	178	460	378	4	26	12	410
A4BOD - 350	350	14"	190	505	427	4	23	16	460	190	520	438	4	26	16	470
A4BOD - 400	400	16"	216	565	477	4	28	16	513	216	580	490	4	30	16	525
A4BOD - 450	450	18"	222	615	527	4	28	20	565	222	640	490	4	30	20	585
A4BOD - 500	500	20"	229	670	582	4	28	20	620	229	715	610	4	33	20	650
A4BOD - 600	600	24"	267	780	682	5	31	20	725	267	840	725	5	36	20	770
A4BOD - 650	650	26"	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A4BOD - 700	700	28"	292	895	797	5	31	24	840	292	910	795	5	36	24	840
A4BOD - 750	750	30"	318	960	857	5	31	24	900	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A4BOD - 800	800	32"	318	1015	904	5	34	24	950	318	1025	900	5	39	24	950
A4BOD - 900	900	36"	330	1115	1004	5	34	28	1050	330	1125	1000	5	39	28	1050
A4BOD - 1000	1000	40"	410	1230	1111	5	36	28	1160	410	1255	1115	5	42	28	1170
A4BOD - 1200	1200	48"	470	1455	1328	5	40	32	1380	470	1485	1330	5	48	32	1390

Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

Pub. on: January, 2015 (Rev.-01)

PNEUMATIC ROTARY ACTUATOR OPERATED Double Eccentric Off-Set Double Flange Butterfly Valve 300# & 600#

Catalogue No.
APL / 2033

4Matic
Industrial Valves and Valve Automation

4Matic

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Off - Set Disc Butterfly Valve in Double Flange Construction engineered for multiply ON / OFF Operation in the large Pipe line and full flow down Stream.

Size Range : 2" to 24" (300#) / 2" to 24" (600#)

Standard :-

Design And Manufacturer	: API 609 / BS 5155 / BSEN 593 / IS 13095
Valve Face To Face Dimension	: API 609 (Short Pattern) / BS 5155 (Long Pattern) IS 13095 (Long Pattern)
Flange Standard Conformity	: ASME / ANSI B 16.5 Class 300 & 600
Inspection & Testing	: API 598

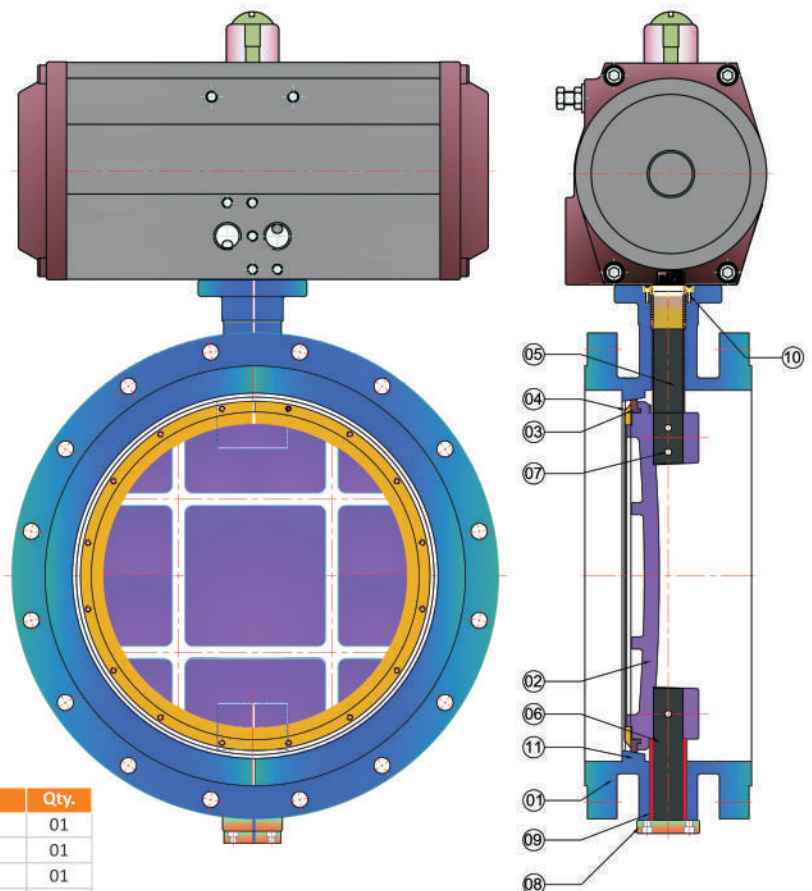
PRESSURE / TEMPERATURE RATING (300# & 600#)

PRESSURE RATING	300# (PN 25 / PN 40)
	600# (PN 60)
OPERATING TEMPERATURE	NBR - -10 °C TO +90 °C / EPDM - -20 °C TO +120 °C
	VITON - 0 °C TO +220 °C / PTFE - -25 °C TO +180 °C
	RPTFE - -25 °C TO +220 °C / TFM -25 °C TO +250 °C



Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in
- all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve



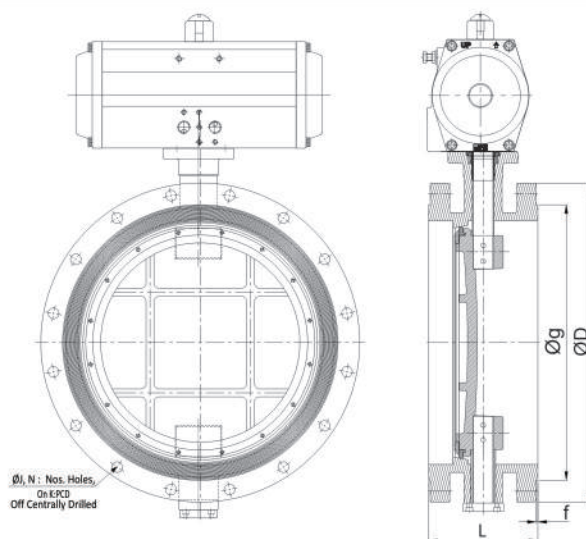
No.	Description	Material	Qty.
1	Body	ASTM A 216 Gr. WCB / A 351 Gr. CF8 / CF8M	01
2	Disc	ASTM A 216 Gr. WCB / A 351 Gr. CF8 / CF8M	01
3	Disc Seal Ring	PTFE / RPTFE / NBR / EPDM / Viton	01
4	Retainer	IS 2062 Gr B M.S. / ASTM A 351 Gr. CF8 / CF8M	01
5	Shaft	ASTM A 479 Type 410 / 304 / 316	01
6	Steam Shaft	ASTM A 479 Type 410 / 304 / 316	01
7	Disc Pin	S.S. 202 / 304 / 316	02
8	Steam Plate	M.S.	01
9	Shaft Bush	ASTM A - 479 Type 410 / 304 / 316	02
10	Gland Plate	M.S.	01
11	Body Seat Ring	ASTM A 479 Type 304 / 316	01

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Pub. on: January, 2015 (Rev.-01)

Valve Torque 300#								VALVE TORQUE 600#				
Valve Size		10 Bar	20 Bar	25 Bar	35 Bar	40 Bar	50 Bar	30 Bar	40 Bar	60 Bar	80 Bar	100 Bar
MM	Inch	N - m	N - m	N - m	N - m	N - m	N - m	N - m	N - m	N - m	N - m	N - m
80	3"	55	62	70	75	76	80	----	----	----	----	----
100	4"	72	89	104	111	114	125	----	----	----	----	----
125	5"	96	127	137	148	160	178	----	----	----	----	----
150	6"	126	138	178	194	205	220	600	700	850	1000	1300
200	8"	205	252	281	304	328	354	1000	1150	1400	1650	2100
250	10"	325	468	503	560	594	663	1650	1900	2300	2800	3800
300	12"	465	685	777	868	937	1005	2400	2850	3450	4100	4900
350	14"	747	1126	1461	1776	1836	2021	3400	4300	5350	6300	7500
400	16"	1065	1654	2020	2204	2448	2700	5000	6900	8900	9700	11500
450	18"	1346	2143	2458	2938	3183	3428	7000	9400	12000	14500	17000
500	20"	2014	3056	3590	3852	4244	4570	8700	12000	15000	18000	21000
600	24"	3052	4578	5223	5876	6464	6921	15000	21000	25700	30500	36000

Butterfly Valve CV Values 300#											Butterfly Valve CV Values 600#									
Valve Size		10°	20°	30°	40°	50°	60°	70°	80°	90°	10°	20°	30°	40°	50°	60°	70°	80°	90°	
MM	Inch																			
80	3"	----	----	----	----	----	----	----	----	----	4	15.6	31.5	47.6	74.5	110	180	200	230	
100	4"	----	----	----	----	----	----	----	----	----	8	27.9	56	90	130	190	310	350	400	
125	5"	----	----	----	----	----	----	----	----	----	13.1	46	92	150	220	310	520	580	670	
150	6"	17.4	61	120	190	290	420	680	770	870	19.9	70	140	220	330	480	780	890	1000	
200	8"	27.2	100	200	300	460	640	1070	1200	1370	36.3	130	260	400	610	860	1430	1600	1830	
250	10"	42	150	290	460	690	980	1630	1840	2090	56	200	390	620	920	1300	2170	2450	2780	
300	12"	59	200	410	650	970	1390	2300	2600	2950	84	290	590	930	1400	1980	3290	3700	4200	
350	14"	73	260	510	800	1200	1710	2840	3200	3640	100	370	730	1140	1700	2500	4060	4570	5200	
400	16"	100	350	700	1100	1660	2360	39140	4410	5010	140	480	960	1500	2300	3220	5340	6020	6840	
450	18"	120	440	870	1360	2040	2900	4810	5430	6170	1180	640	1260	2000	3000	4220	7000	7900	9000	
500	20"	170	580	1160	1810	2720	3870	640	7250	8250	240	840	1680	2600	3950	5630	9300	10500	12000	
600	24"	260	900	1800	2830	4250	6050	10000	11300	12900	380	1300	2630	4200	6200	8800	14600	16500	18700	


Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		300#								600#							
	MM	Inch	L	ØD	Øg	f	ØJ	b	N	K:PCD	L	ØD	Øg	f	ØJ	N	K:PCD	
A4BOD - 50	50	2"	150	165.1	91.9	1.6	19.05	----	08	127	----	----	----	----	----	----	----	
A4BOD - 65	65	2.1/2"	170	190.5	104.6	1.6	22.35	----	08	149.35	----	----	----	----	----	----	----	
A4BOD - 80	80	3"	180	209.55	127	1.6	22.35	28.45	08	168.14	180	210	127	6.35	22.0	08	168.3	
A4BOD - 100	100	4"	190	254	157.2	1.6	22.35	31.75	08	200.0	190	275	157	6.35	25.4	08	215.9	
A4BOD - 125	125	5"	200	279.4	185.6	1.6	22.35	35.05	08	234.9	210	330	185	6.35	28.5	08	266.7	
A4BOD - 150	150	6"	210	317.5	215.9	1.6	22.35	36.50	12	269.9	210	355	216	6.35	28.5	12	292.1	
A4BOD - 200	200	8"	230	381	270	1.6	25.4	41.15	12	330.2	230	420	270	6.35	32.0	12	349.2	
A4BOD - 250	250	10"	250	444.5	323.8	1.6	28.5	47.75	16	387.35	250	510	324	6.35	35.0	16	431.8	
A4BOD - 300	300	12"	270	520.7	381	1.6	31.75	50.80	16	450.9	270	560	381	6.35	35.0	20	489.5	
A4BOD - 350	350	14"	290	584.2	412.75	1.6	31.75	53.85	20	514.35	290	605	413	6.35?	38.1	20	527.0	
A4BOD - 400	400	16"	310	647.7	469.9	1.6	35.0	57.15	20	571.5	310	685	470	6.35	41.15	20	603.2	
A4BOD - 450	450	18"	330	711.2	533.4	1.6	35.0	60.45	24	628.6	330	745	534	6.35	44.45	20	654.0	
A4BOD - 500	500	20"	350	774.7	584.2	1.6	35.0	63.50	24	685.8	350	815	584	6.35	44.45	24	723.9	
A4BOD - 600	600	24"	390	914.4	692.15	1.6	41.14	69.85	24	812.8	390	940	692	6.35	50	24	838.2	

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PNEUMATIC ROTARY ACTUATOR OPERATED Spherical Disc Valve 150# & 300#

Catalogue No.
APL / 1025

4Matic
Industrial Valves and Valve Automation

4Matic

Precised & Strong Durable to 240 °C / 600 °C Temperature And
10 Kg/cm² / 20 Kg/cm² Pressure

5 Special Effects

- Compact Design - Full Port - Offers Mass Flow
- Simple Structure, Light & Smooth - Takes Very Short Time For Opening & Closing With Very Low Torque
- Easy Maintenance - Replaceable Seals Design
- Self Sealing - Self Cleaning The Under Cut Disc Segment And Seal Tends To Wipe Away The Material Form The Sealing Area,
- Gland Pressing Plate - Ensure Complete Utilization of Gland Seals

Application

Hygienic Powder & Slurries, especially in Pharmaceutical Industries.
Chemical and Dyeing Fluids in Textile Processing
Brine Waters & Oils.
Steam Lines, Air / Gas Lines / Vacuum.

Spherical Disc Valve has been Proved as Superior to Other Valves in Many Aspects, Particularly in...

- Weight ■ Space ■ Pressure Range
- Multiple Operations ■ Maintenance Ease
- Torque & Economy

Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in
- all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

Spherical Disc Valve	Technical Specifications :
Size Range	1.1/2" to 36"
Construction Type	Double Eccentric Disc Design
Body	WCB / CF8 / CF8M
Disc	CF8 / CF8M
Seat	PTFE (available EPDM / Metal to Metal)
Shaft	AISI 410 / 304 / 316
Plate Mounting	Namur Standard
Pressure Rating	ANSI 150 Class ANSI 300 / 600 Class
End Connection	Wafer Sandwiched Lug Type
Operating Temp. Range	-25 °C to 180 °C (Soft Seating) -25 °C to 600 °C (Metal to Metal Seating)
Operating	Pneumatic Actuator Operated

Gland Pressing Plate
Made of Stainless Steel

V - Packing
100% Teflon

Body
Compact & light
(WCB/CF8/CF8M)

Bearing Bush
Bearing made of S.S.
material and certainly
support to stem



609 - 0055

Fire Safe Design

Steam
Fine finished made of stainless steel

Gland
Made of stainless steel pressure ring

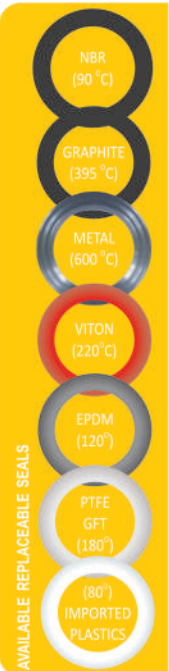
Top Flange
ISO 5211 standard to mount actuator and gear box

Bearing Bush
Bearing made of PTFE material self lubricator and certainly support to stem

Seat Flange
Easy to disassemble made of stainless steel

Seat
Teflon seat made of very strong heat resistant and wear down material

Disc(CF8/CF8M)
Stream-lined, is designed to minimise pressure drop
A very extensive stream analysis & actual flow test were made of design the disc structure



AVAILABLE REPLACEABLE SEALS

CV Value in GPM		
Valve Size	CV Full Open 90° (GPM) Class 150	
MM	Inch	
(40)	1.1/2"	70
(50)	2"	92
(65)	2.1/2"	150
(80)	3"	260
(100)	4"	460
(125)	5"	760
(150)	6"	1350
(200)	8"	2200
(250)	10"	3200
(300)	12"	4700
(350)	14"	5800
(400)	16"	8000
(450)	18"	10500
(500)	20"	14000
(600)	24"	21000
(650)	26"	23400
(700)	28"	27000
(750)	30"	33300
(800)	32"	40200
(900)	36"	56500

CV Value in GPM			Differential Pressure (AP)			
Valve Size			5 Kg/cm ²	10 Kg/cm ²	15 Kg/cm ²	20 Kg/cm ²
MM	Inch					
(40)	1.1/2"		0.8	1.0	1.2	1.5
(50)	2"		0.9	1.2	1.5	1.7
(65)	2.1/2"		1.6	2.2	2.4	3.0
(80)	3"		3.0	3.4	4.2	5.0
(100)	4"		4.0	4.6	5.4	6.4
(125)	5"		5.8	8.0	9.5	11.5
(150)	6"		9.0	11.5	12.5	14.5
(200)	8"		14.0	17.5	24.0	28.0
(250)	10"		23.5	26.5	28.0	30.0
(300)	12"		32.0	36.0	40.0	50.0
(350)	14"		50.0	65.0	83.5	108.5
(400)	16"		69.4	94.5	120.0	160.0
(450)	18"		95.5	128.0	157.2	205.0
(500)	20"		122.5	193.3	210.0	293.4
(600)	24"		213.3	293.4	366.7	440.1
(650)	26"		265	350	400	510
(700)	28"		300	395	480	595
(750)	30"		321	420	519	617
(800)	32"		481	630	780	920
(900)	36"		518	663	850	992

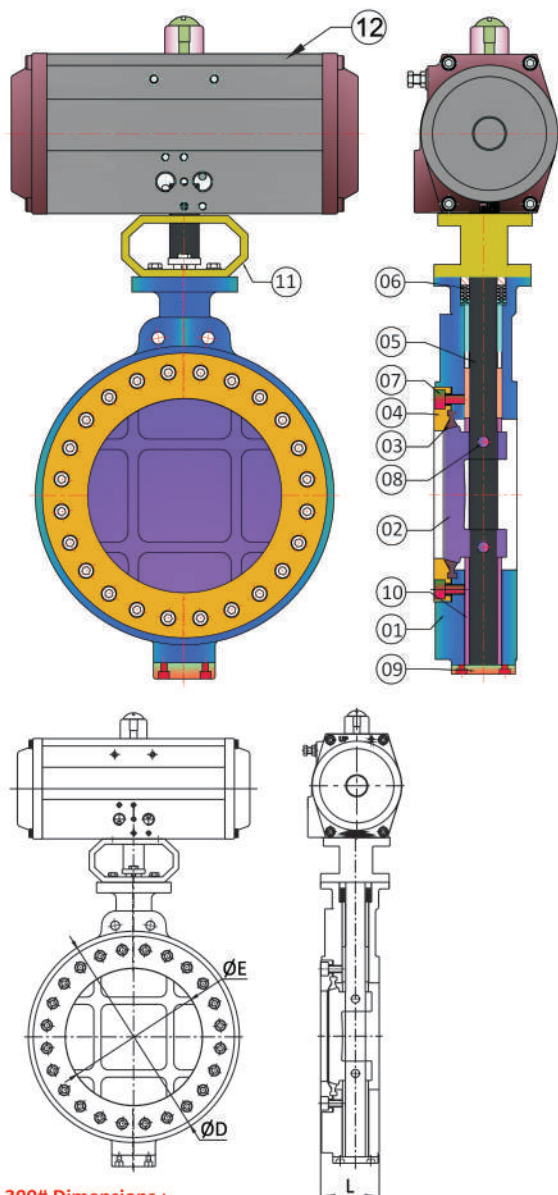
Standards	Series 5150 (40 NB To 600 NB)	Series 6150 (650 NB To 1200 NB)
Design and manufacturing	API 609 Category B	MSS SP - 68
Valve face to face dimensions	API 609 Category B / ANSI B 16.10	ISO 5752 Series 20, MSS SP - 68
Flange Standard conformity	ANSI B 16.5 Class 150	ASME / ANSI B 16.47 Series 'A'
Inspection & testing Standard	API 598 / ANSI FCI 70 - 2	API 598 / BS 6755
Fire safe testing	API 607	API 607
Pressure temperature rating	ASME / ANSI B 16.34	ASME / ANSI B 16.34

Standard (300#) :-

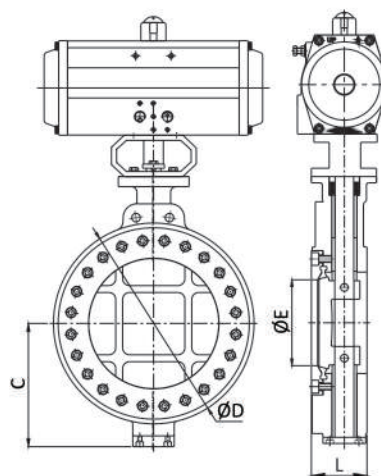
Design And Manufacturer : API 609 Category "B"
Valve Face To Face Dimension : API 609 Category "B"
Flange Standard Conformity : ASME / ANSI B 16.5 Class 300
Inspection & Testing : API 598

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Pub. on: January, 2015 (Rev.-01)



No.	Description	Material
1	Body	WCB / CF8 / CF8M
2	Disc	CF8 / CF8M
3	Replaceable Seat	PTFE / NBR / Viton
4	Retainer	M.S. / S. S. 304 / 316
5	Shaft	S. S. 410 / 304 / 316
6	Gland Packing	PTFE / NBR / Viton
7	Retainer Bolt	S. S.
8	Disc Pin	S. S. 304 / 316
9	Steam Plate	M.S. / S. S. 304 / 316
10	Shaft Bush	M.S. / S. S. 304 / 316
11	Bracket	M.S.
12	Actuator	STD.



300# Dimensions :

Dimensions 300# : (All Dimensions are in mm)

Valve Size		L	ØD	ØE
MM	Inch			
40	1.1/2"	42	88	38
50	2"	45	101	50.8
65	2.1/2"	48	108.5	60.6
80	3"	48	127	72
100	4"	54	159	100
125	5"	59	187	123
150	6"	59	219	143.2
200	8"	64	270	192
250	10"	87	340	239.2
300	12"	92	394	290
350	14"	117	436	335
400	16"	113	500	387.5
450	18"	149	540	425
500	20"	159	595	475
600	24"	181	705	560

150# Dimensions :

Dimensions 150# :

(All Dimensions are in mm)

Valve Model	Valve Size		L	C	ØE	ØD	Weight (Approx.)
	MM	Inch					
A4SDV - 40	40	1.1/2"	42	57	38	82	1.600
A4SDV - 50	50	2"	45	68.5	50.8	95	2.200
A4SDV - 65	65	2.1/2"	48	74.5	60.6	108	3.000
A4SDV - 80	80	3"	48	80	72	127	3.800
A4SDV - 100	100	4"	54	96	100	159	5.600
A4SDV - 125	125	5"	57	117	123	186	7.700
A4SDV - 150	150	6"	57	132	143	217	10.400
A4SDV - 200	200	8"	64	157	192	270	15.000
A4SDV - 250	250	10"	71	187	239	322	25.750
A4SDV - 300	300	12"	81	218	290	382	36.000
A4SDV - 350	350	14"	92	242	335	436	46.900
A4SDV - 400	400	16"	102	270.5	387.5	495	66.850
A4SDV - 450	450	18"	114	362	425	540	117.000
A4SDV - 500	500	20"	127	400	475	595	146.500
A4SDV - 600	600	24"	154	454	560	705	290.000
A4SDV - 650	650	26"	165	478	608	755	360.000
A4SDV - 700	700	28"	165	505	661.5	810	390.000
A4SDV - 750	750	30"	190	542	696	855	475.000
A4SDV - 800	800	32"	190	580	755	913	524.000
A4SDV - 900	900	36"	203	640	864	1032	675.000

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Pub. on: January, 2015 (Rev.-01)



4Matic

SMT Model metal to metal replaceable seat design Spherical Disc Valve.
Temperature upto 400 °C flat metal seat leakage Class VI.

Size Range : 2" to 18"

Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

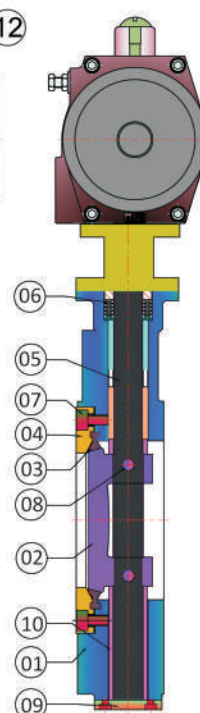
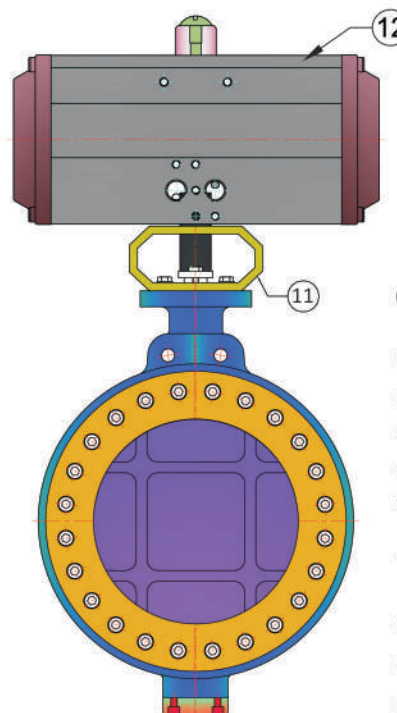
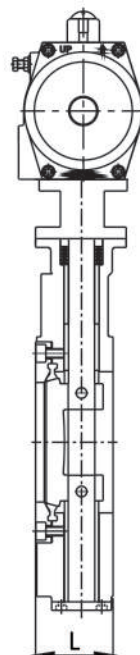
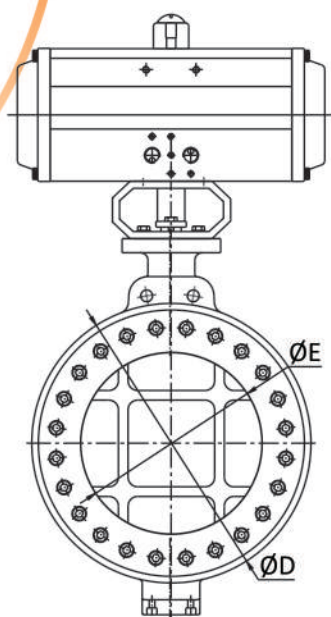
Standard :-

Design And Manufacturer	: API 609
Valve Face To Face Dimension	: API 609 Category "B"
Flange Standard Conformity	: ASME / ANSI B 16.5 Class 150
Inspection & Testing	: API 598
Leakage Class	: ASME B 16, 16.104 Leakage Class VI

PRESSURE / TEMPERATURE RATING

PRESSURE RATING	PN 10
OPERATING TEMPERATURE	-50 °C TO +400 °C

Fire Safe Design



Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		L	C	ØE	ØD
	MM	Inch				
A4SMT - 50	50	2"	47	65	50.8	95
A4SMT - 65	65	2.1/2"	52	66.5	60.6	108
A4SMT - 80	80	3"	52	77	72	127
A4SMT - 100	100	4"	57	93	100	159
A4SMT - 125	125	5"	60	117	123	186
A4SMT - 150	150	6"	60	131	143	217
A4SMT - 200	200	8"	67	167	192	270
A4SMT - 250	250	10"	72	196	239	322
A4SMT - 300	300	12"	85	218	290	382
A4SMT - 350	350	14"	92	242	335	436
A4SMT - 400	400	16"	102	270.5	387.5	495
A4SMT - 450	450	18"	114	362	425	540

No.	Description	Material	Qty.
1	Body	WCB / CF8 / CF8M	1
2	Disc	CF8 / CF8M	1
3	Retainaer	M.S. / CF8 / CF8M	1
4	Seat Ring	CF8 / CF8M	1
5	Shaft	S.S. 304 / 316	1
6	Stern Shaft	S.S. 304 / 316 / 410	1
7	Disc Pin	S.S. 304 / 316 / 410	1
8	Shaft Collar	S.S. 304 / 316 / 410	4
9	Shaft Bush	S.S. 304 / 316	1
10	Shaft Bush	Graphite	1
11	Gland Seal Set	Graphite	5
13	Actuator	STD.	1

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PNEUMATIC ROTARY ACTUATOR OPERATED "TRIPLE" Off-Set Butterfly Valve

Catalogue No.
APL / 2034

4Matic
Industrial Valves and Valve Automation

4Matic

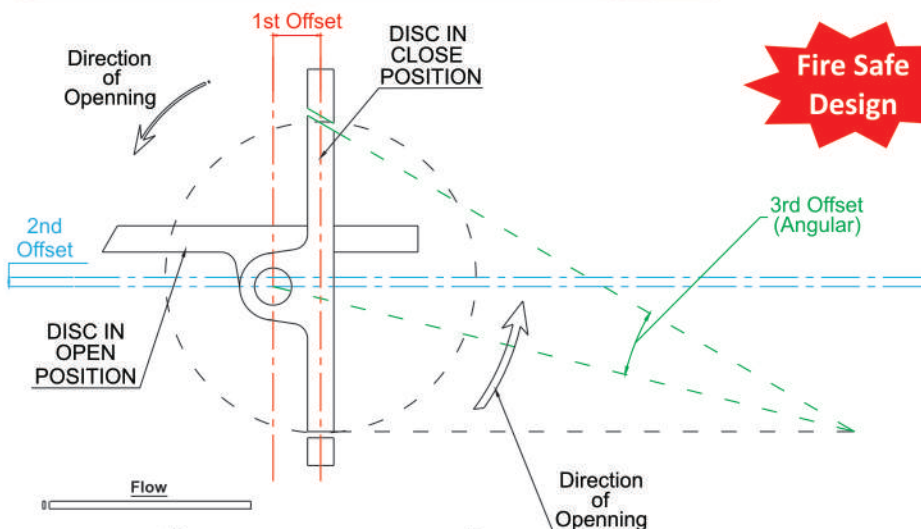
offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Triple Off - Set Disc Butterfly Valve in Wafer Construction engineered for multiply ON / OFF Operation in the large Pipe line and full flow down Stream.



609 - 0055

Size Range : 2" to 12"

**Fire Safe
Design**



Standard :-

Design And Manufacturer : API 609
Valve Face To Face Dimension : API 609 Category "B"
Flange Standard Conformity : ASME / ANSI B 16.5 Class 150 / 300
Inspection & Testing : API 598
Leakage Class : ASME B 16, 16.104 Leakage Class VI

Dimensions : (All Dimensions are in mm)

Valve Model	Valve Size		L	ØD	ØE
	MM	Inch			
A4SDVTOB - 50	50	2"	47	95	50.8
A4SDVTOB - 65	65	2.1/2"	52	108	60.6
A4SDVTOB - 80	80	3"	48	127	72
A4SDVTOB - 100	100	4"	54	159	100
A4SDVTOB - 125	125	5"	57	186	123
A4SDVTOB - 150	150	6"	57	217	143
A4SDVTOB - 200	200	8"	64	270	192
A4SDVTOB - 250	250	10"	71	322	239
A4SDVTOB - 300	300	12"	81	382	290

Note : Big Sizes also available

Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Dec clutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

CV Values

Valve Size		10°	20°	30°	40°	50°	60°	70°	80°	90°
MM	Inch									
50	2"	2	5	11	19	28	41	58	77	85
65	2.1/2"	2	9	20	28	45	60	80	120	130
80	3"	3	10	22	42	64	96	150	157	160
100	4"	6	17	41	75	116	174	273	284	290
125	5"	6	45	75	170	280	478	650	707	795
150	6"	7	51	119	221	340	510	799	833	850
200	8"	4	103	239	445	684	1026	1607	1676	1710
250	10"	50	151	353	655	1008	1515	2369	2470	2520
300	12"	79	236	552	1024	1576	2364	3704	3861	3940

VALVE TORQUE 150#

Valve Size		5 Bar N - m	10 Bar N - m	20 Bar N - m
MM	Inch			
50	2"	11	15	21
65	2.1/2"	20	28	38
80	3"	38	43	63
100	4"	50	58	80
125	5"	73	100	144
150	6"	113	144	181
200	8"	175	219	350
250	10"	294	331	375
300	12"	400	450	625

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Offers Specially Pharma Butterfly Valve design for power application with be used in pharma machinery.

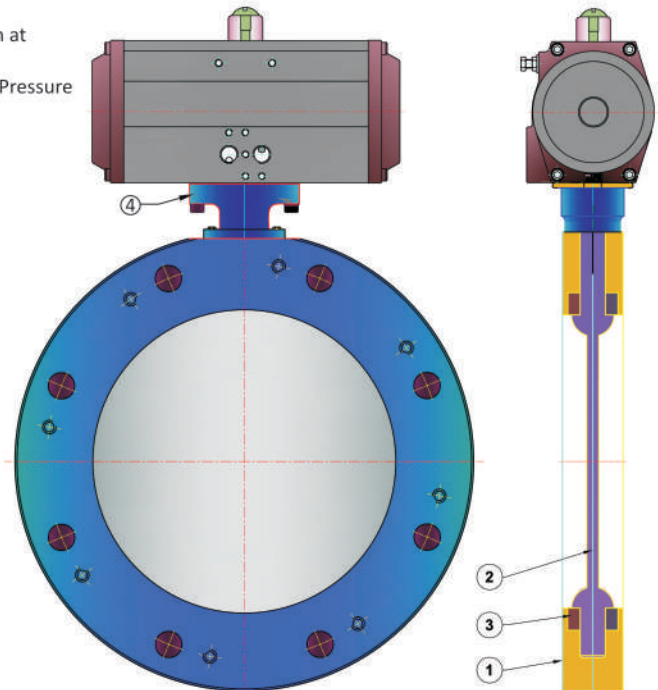
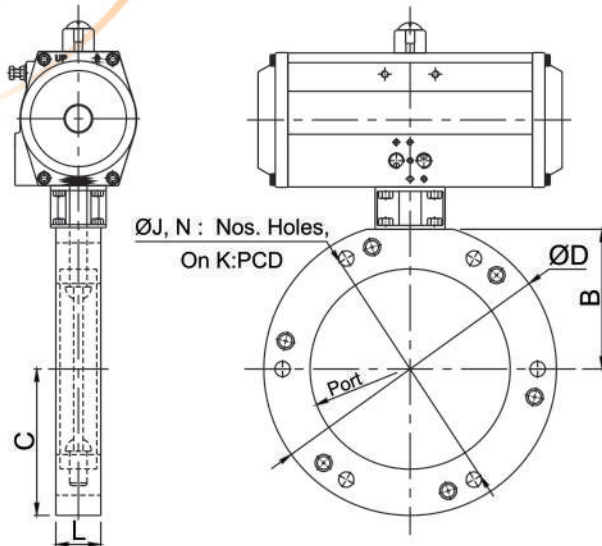
Size Range : 2.1/2" to 16"

Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

PRESSURE / TEMPERATURE RATING

WORKING PRESSURE	MAX. 3 TO 4 KG/CM ²
OPERATING TEMPERATURE	150 °C



No.	Description	Material	Qty.
1	Body	WCB / CF8 / CF8M	01
2	Disc	WCB / CF8 / CF8M	01
3	Seat	Silicon	01
4	Bracket	S.S.	01

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		Port	L	ØD	N	ØJ	K:PCD	B	C
	MM	Inch								
A4PBV - 65	65	2.1/2"	65	26	178	4	19.05	139.7	----	----
A4PBV - 80	80	3"	80	26	190	4	19.05	152.4	----	----
A4PBV - 100	100	4"	98	32	163	4	11	140	----	----
A4PBV - 150	150	6"	150	30	227	6	11	202.8	111	113.5
A4PBV - 200	200	8"	200	32	279	6	11	255	137	139.5
A4PBV - 250	250	10"	250	32	354.5	6	11	327	173	177.25
A4PBV - 300	300	12"	300	35	405	8	13.5	378	199	202.5
A4PBV - 350	350	14"	350	40	527	12	25.4	469.9	260.5	261
A4PBV - 400	400	16"	400	40	577.9	12	25.4	520.7	285	290

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PNEUMATIC ROTARY ACTUATOR OPERATED Double Flange MS Fabricated Butterfly Valve

Catalogue No.
APL / 2016

4Matic

Steel Fabricated Double Flange Butterfly Valve Construction engineered for multiply ON / OFF Operation in the large Pipe line and full flow down Stream.

Size Range : 50" to 104" (12" to 48" OnRequest)

Standard :-

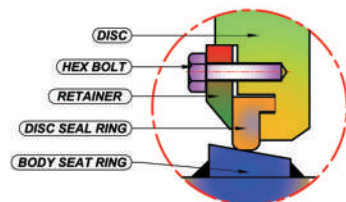
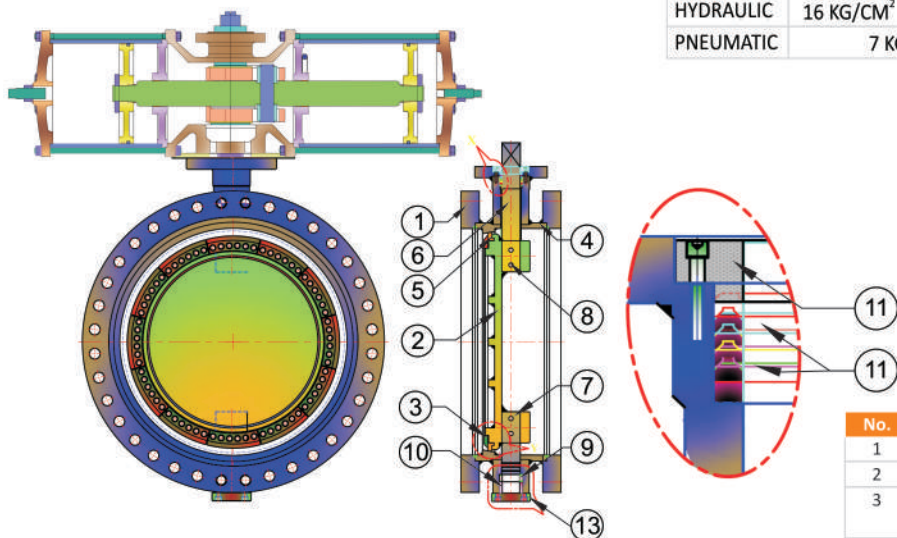
Design And Manufacturer : AWWA C - 504
Valve Face To Face Dimension Upto 72" : AWWA C - 504
Valve Face To Face Dimension Upto 72" : As Per Manufacturer Standard
Flange Standard Conformity : AWWA C - 207 Class "D"
Inspection & Testing : AWWA C - 504
Leakage Class : PN 6 / PN 10

PRESSURE / TEMPERATURE RATING

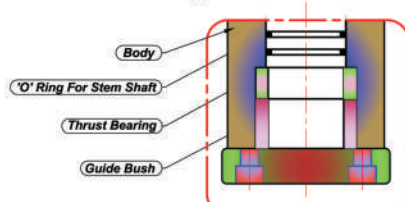
PRESSURE RATING	PN 10
OPERATING TEMPERATURE	-50 °C TO +180 °C

PRESSURE / TEMPERATURE RATING

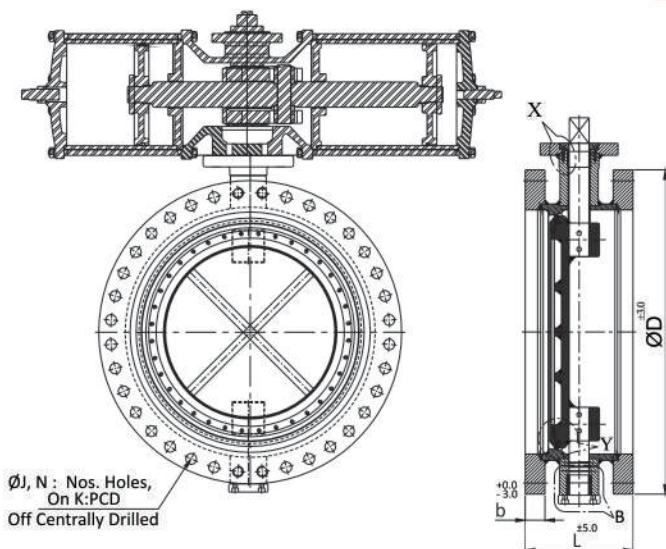
TESTING	BODY	SEAT
HYDRAULIC	16 KG/CM ²	10 KG/CM ²
PNEUMATIC	7 KG/CM ²	



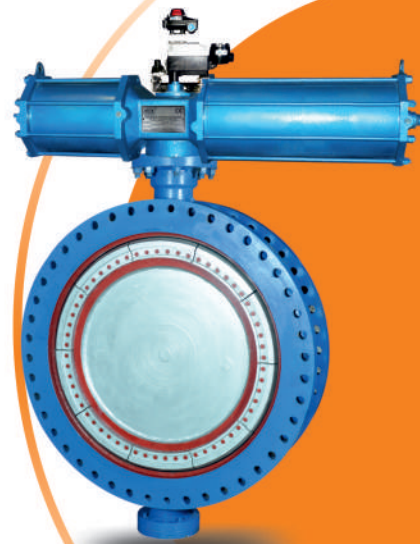
Detail - X



Detail-B



ØJ, N : Nos. Holes,
On K:PCD
Off Centrally Drilled



No.	Description	Material
1	Body	IS 2062 Gr. B M. S.
2	Disc	IS 2062 Gr. B M. S.
3	Retainer	IS 2062 Gr. B / ASTM A - 240 S.S. 304 / 316
4	Body Seat Ring	ASTM A - 479 Type 304 / 316
5	Disc Seal Ring	EPDM / NBR / Viton
6	Shaft	ASTM A - 479 Type 410 / 304 / 316
7	Stem Shaft	ASTM A - 479 Type 410 / 304 / 316
8	Disc Pin	ASTM A - 479 Type 410 / 304 / 316
9	Bearing	Double Thrust Bearing
10	Guide Bush	Bronze
11	Seal Set	EPDM / NBR / Viton
12	Gland Plate	M. S.
13	Stem Plate	IS 2062 Gr. B

Dimensions : (All Dimensions are in mm)

Valve Size		L	ØD	b	ØJ	N	PDC
MM	Inch						
1250	50"	381	1568.5	51	44.45	44	1479.6
1300	52"	381	1626	51	44.45	44	1536.7
1350	54"	381	1682.8	54	44.45	44	1593.8
1400	56"	381	1770	57.15	44.45	52	1670
1500	60"	381	1854.2	57.15	44.45	52	1758.95
1600	64"	381	1915	60	44.45	52	1820
1650	66"	457	2032	63.5	44.45	52	1930.4
1800	72"	457	2197.1	66.5	44.45	60	2095.5
1950	78"	760	2362.2	69.9	50.8	64	2260.6
2000	80"	760	2449	70	50.8	64	2342
2100	84"	830	2533.7	73	50.8	64	2425.7
2200	88"	830	2800	77	58	68	2673.5
2400	96"	910	2876.6	82.6	58	68	2755.9
2500	100"	990	3048	82.6	63.5	72	2908.3
2600	104"	990	3138	86	63.5	72	2994

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PNEUMATIC ROTARY ACTUATOR OPERATED Aluminium Pressure Die Cast Butterfly Valve

Catalogue No.
APL / 1071

4Matic
Industrial Valves and Valve Automation

4Matic

Offers ISO 5211 Standard Pneumatic Rotary Actuator Operated "Aluminium Body & SS 316 Disc" KITZ Butterfly Valve with EPDM Rubber.

Size Range : 1.1/2" to 8"

Butterfly Valve Specification

Body	Aluminium Pressure Die Cast
Disc	CF8M (S. S. 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

Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in
- all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Decutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

Item	Type Of Test	Testing Pressure	Working Pressure	Operating Temperature (High)
Actuator	Pneumatic Bubble Test	180 PSIG	45 To 150 PSIG	-20 °C to 80 °C (High Temp. On Request)
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

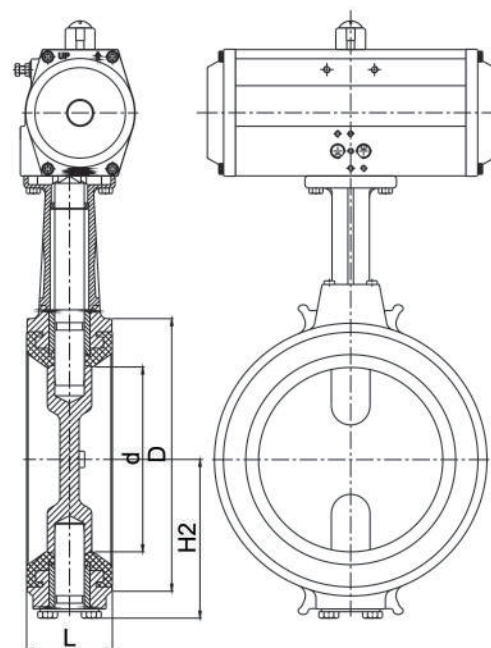
Standard :-

Design and Manufacturer : API 609 category A/BS 5155 / MSS SP - 67 / C - 504
 Valve Face to Face Dimensions : Short Wafer as per ISO 5752 Tab 5 API 609 Category A
 Top Flanged Drilling : ISO 5211 II
 Inspection and Testing : API 598 / BS 6755 / FCI 70 - 2
 Flanged Standard Conformity : ANSI 150, DIN PN 6 / 16

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		d	H2	L	D
	MM	Inch				
A4KITZ - 40	40	1.1/2"	40	60	33	78
A4KITZ - 50	50	2"	50	66	43	93
A4KITZ - 65	65	2.1/2"	65	74	46	118
A4KITZ - 80	80	3"	80	83	46	129
A4KITZ - 100	100	4"	100	94	52	149
A4KITZ - 125	125	5"	125	122	56	184
A4KITZ - 150	150	6"	150	135	56	214
A4KITZ - 200	200	8"	196	161	60	259



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