PA5542

Extreme Series Butterfly Valve Pneumatically Actuated

PVDF Disc with EPDM or FPM-Liner

- 2” to 12"
- Various Disc and Liner Options
- Minimal Pressure drop
- Spring Closed/Open or Double Acting
- Fits between PN10/16 Flanges
- Pressure Range PN6/PN10

Description

The Extreme range of pneumatic actuated butterfly valves are ideal for automatic isolation of flow in a fluid handling system. This valve is used for industrial applications that require high performance and long-term reliability. The valve body is manufactured in durable PP-H – GR and offered in sizes ranging from 2"-12" (DN65-DN300 & D63-D75 to D315).
The valve is available with PVC-U, CPVC, PP-H, PVDF and ABS Discs and options of EPDM or FPM Liners, giving a choice to suit the fluid and working temperature (please check resistance tables and temperature/pressure chart).

Design Advantages

A butterfly valve from our Extreme Range, that offers high performance, excellent flow characteristics and a minimal pressure drop.

Body in Polypropylene
Compounded with reinforced fibreglass (PP-GR) offering a high mechanical strength and resistant to UV rays.

Disc Options
PVC-U / PVC-C / PP-H / PVDF / ABS

Drillings
Oval pattern slots that allow mating flanges to couple with ease.

Easy to Actuate
Our Purpose Built Mounting Kit for use with Electric, Pneumatic and Gearbox.

Specification		
Valve		
Working Pressure @ 20°C (73°F)	D50-D225 (11/2"- 8") D250 - D315 (10" - 12")	PN10 (150 PSI) PN6 (90 PSI)
Size	2"-12"	
Disc Material	PVC-U, CPVC, PP-H, ABS, **PVDF**	
Temperature range	For Working Pressure 20°C (73°F) see Pressure / Temperature Graph	
Movement	0-90° ± 5°	
Body Material	Durable PP-H-GR	
Liner Choice	EPDM or FPM	
Shaft	Stainless Steel (AISI 630)	
Standards	ISO/DIN EN 558-1	
	BRITISH STANDARD BS EN 1092-1	
	ANSI/ASTM ANSI B16.5 CLASS 150	
Certifications/Regulations	Butterfly Valve Design - ISO 16136	
Actuator		
Spring Return / Double Acting		
Pilot Pressure	5.5 - 8 Bar	
port connections	1/8" and 1/4"	
Interface	Namur VDI/VDE/DE 3845	
ATEX Certified	Actuator to ATEX EXII2Gc IP67 T6	

Disc and Liner Options
PVC-U (EPDM/FPM)
PVC-C (EPDM/FPM)
PPH (EPDM/FPM)
PVDF (EPDM/FPM)
ABS (EPDM/FPM)

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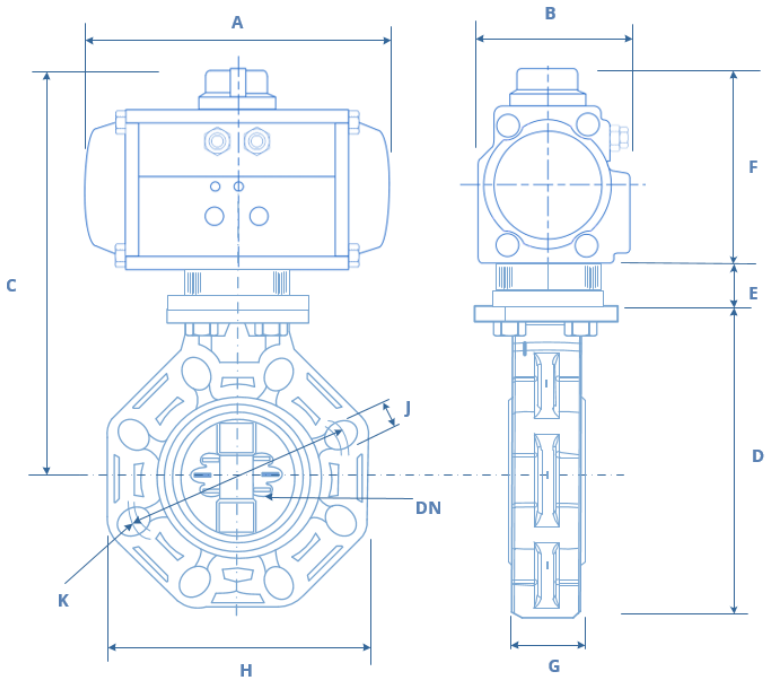
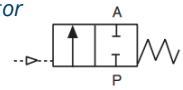


Spring Return (Normally Closed)

The valve is closed without air supply. When the actuator is supplied with pressurized air, the valve opens. If the supply of the pressurized air is closed and the escape of the air is permitted, the valve will be closed because of the internal springs of the actuator

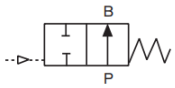
3/2 or 5/2 Pilot Solenoid



Spring Return (Normally Open)

The valve is opened without air supply. When the actuator is supplied with pressurized air, the valve closes. If the supply of the pressurized air is closed and the escape of the air is permitted, the valve will be opened because of the internal springs of the actuator.

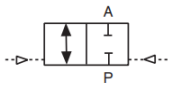
3/2 or 5/2 Pilot Solenoid



Double Acting

The valve has no defined fail safe position. The valve is opened and closed by applying control pressure to the corresponding control connections.

5/2 Pilot Solenoid



Dimensions								
D	DN	D	E	J	G	H	K	Holes
63-75	65	201	50	18	48	156	125-145	4
90	80	232	50	19	52	190	150-170	8
110	100	255	50	19	59	212	180-192	8
125-140	125	284	50	22	66	238	190-215	8
160	150	314	55	24	72	265	240	8
200-225	200	378	55	23	73	320	270-298	8
250-280	250	450	55	29	114	453	329-355	12
315	300	545	55	29	114	477	384-427	12

Dimensions											
D	DN	Spring Return	A	B	C	F	Double Acting	A	B	C	F
63-75	65	HP88S	247	108	306	136	HP63D	163	85	277	107
90	80	HP88S	247	108	322	136	HP66D	202	85	293	107
110	100	HP100S	268	123	346	148	HP66D	202	85	305	107
125-140	125	HP125S	347	151	393	179	HP100D	268	123	362	148
160	150	HP145S	414	172	444	209	HP100D	268	123	383	148
200-225	200	HP145S	414	172	481	209	HP100D	268	123	420	148
250-280	250	HP160S	467	190	591	226	HP115D	316	141	531	166
315	300	HP180S	497	206	616	251	HP145D	414	172	574	209

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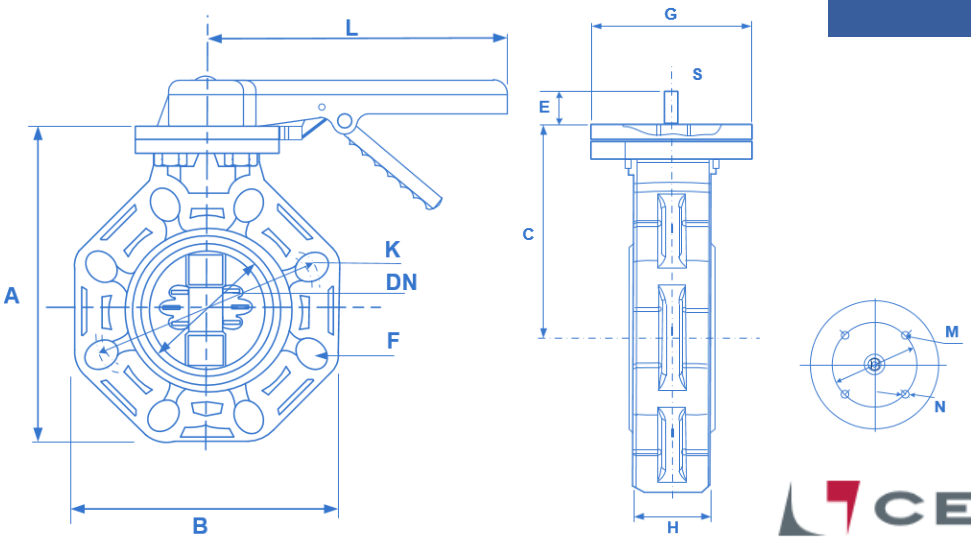
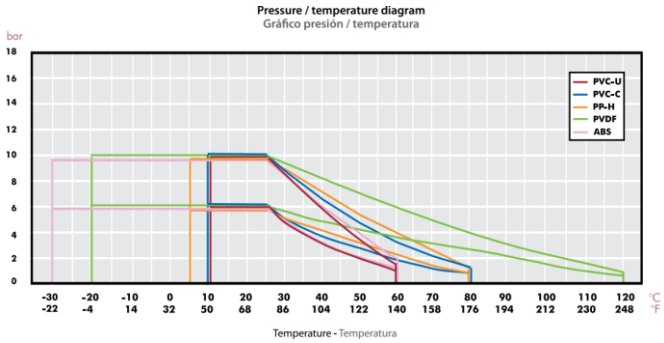
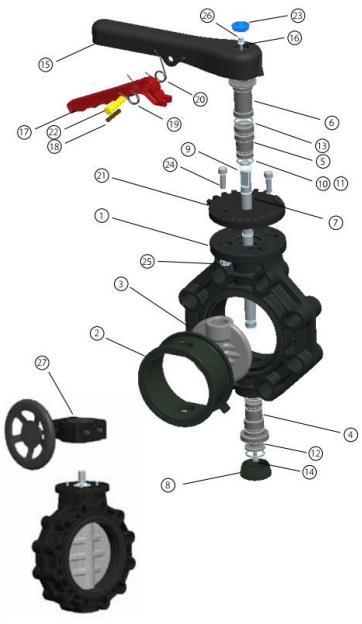


Dimensions

Dimensions	DN	A	B	C	E	F	G	H	K	L	M	N	E'	S	Holes
63-75	65	201	156	120	40	18	112	48	125-145	220	70	9	35	10	4
90	80	232	190	136	40	19	112	52	150-170	245	70	9	35	12	8
110	100	255	212	148	40	19	112	59	180-192	245	70	9	35	16	8
125-140	125	284	238	164	40	22	112	66	190-215	320	70	9	35	20	8
160	150	314	265	180	40	24	112	72	240	320	70	9	35	20	8
200-225	200	378	320	217	50	23	136	73	270-298	391	102	11	47	26	8





No	PART	MATERIAL
1	Body	PP-GR
2	Sealing Gasket	EPDM / FPM
3	Disc	PVC-U, PPH, CPVC, PVDF
4	Lower Bearing	POM
5	Upper Bearing	POM
6	Auxilliary Bearing	POM
7	Shaft	AISI-630
8	Cap	PP-GR
9	Ring DIN - 471	A2
10	O-Ring	EPDM / FPM
11	O-Ring	EPDM / FPM
12	Lower Washer	POM
13	O-Ring	EPDM / FPM
14	Screw DIN 912	A2
15	Handle	PP-GR
16	Washer	A2
17	Lever	PP-GR
18	Pin	AISI-304
19	Left Spring	AISI-304
20	Right Spring	AISI-304
21	Throttle Plate	PP-GR
22	Safety Lock	POM
23	Handle Cap	PP-GR
24	Screw DIN 912	A2
25	Nut DIN 934	A2
26	Screw DIN 912	A2
27	Gear Box	Aluminium

HEAD LOSS / FLOW			
DN	D	Kv (l/min)	Cv (GPM)
65	63-75	1800	126
80	90	4020	282
100	110	8280	580
125	125-140	11760	826
150	160	16200	1134
200	200-225	33000	2311
250	250-280	5200	3655
300	315	78571	5502

Accessories for Pneumatic Rotary Actuators

Feedback

Combinned

Solenoids

Control Solutions for Pneumatic Actuated Valves.

We offer many accessories that work with your actuated valve, which include limit switchboxes, pilot solenoids, combined switchbox and solenoid, tube, fittings etc... the list goes on. However additions include Control Cabinet Solutions. These are customised panels with combined pneumatic or electronic pilot valve technology all housed in an Industry preferred cabinet.

Contact our Technical Sales For more information.