



Cartridge Seat Type Wafer Butterfly Valves



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Size 1 ½”-48”

Flange PN6/PN10/PN16/150LB/10K/Table D /Table E

Design EN593/API609/BS5155/ISO5211/EN1092

Mounting Flange ISO 5211

Testing Standard API598 ISO5208 EN12266-1

Description

One-piece body construction made of ductile iron, cast iron or Stainless Steel.

The ISO 5211 mounting pad with square or key type stem shaft enables direct mount actuation for both manual (lever and gear), pneumatic and electric operations.

Teflon stem bushing ensures long service life even during prolonged periods of activity. Reduced operator torque for effortless manual operation and maximum shaft support.

High-strength two-piece stem eliminates taper pins or disc screws, which frequently



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fail prematurely due to abrasion, corrosion or fatigue.

All disc castings are spherically machined and polished to extend seat life and achieve bubble-tight shut off. The seat type is available in both encapsulated phenolic or aluminum-backed cartridge seat.

The cartridge design seat allows for easy change without special tools. Reduced disc option is provided for lower pressure applications, requiring lower torque and smaller actuators.

The shell is tested to 150% and the seat is tested to 110% of the maximum working pressure.

Product Features

1. Compact and light weight design facilitates easy installation and maintenance.
2. Can be mounted in any required location; features a simple, compact construction with quick 90-degree on-off operation.
3. Operating torque is minimized for enhanced energy efficiency.
4. Provides bubble-tight sealing with no leakage during pressure testing.
5. A wide range of materials available, suitable for various media applications.
6. Long service life, proven to withstand tens of thousands of opening and closing cycles without failure.
7. Flow curve approaches a straight line, demonstrating excellent regulation performance."

Working/Testing Pressure

Size	DN	40mm-300mm	350mm-1200mm
	Inch	1-1/2"-12"	14"-24"
Working		16bar	10bar
Testing	Shell	24bar	15bar



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	Seal	17.6bar	11bar
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Working Temperature

Seat Material	EPDM	NBR	FKM	PTFE
Temperature	-10°C to 120°C	-10°C to 80°C	-15°C to 200°C	-25°C to 180°C

Material Specification

Part	Material
Body	Cast Iron Ductile Iron WCB CF8 CF8M CF3M Duplex Steel Al-Bronze
Disc	Ductile Iron CF8 CF8M CF3M Duplex Steel Al-Bronze Harlar Coated
Shaft	SS410 SS416 SS420 SS431 SS316 17-4PH
Seat	EPDM NBR PTFE FKM Silicone
Bushing	FRP PTFE Bronze
Lever	Malleable Iron Carbon Steel Aluminum SS316
Gear Box	Ductile Iron Aluminum SS316

Corrosion Protection



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Epoxy Resin Powder Spray, The minimum thickness is not less than 300 microns

Disc Options

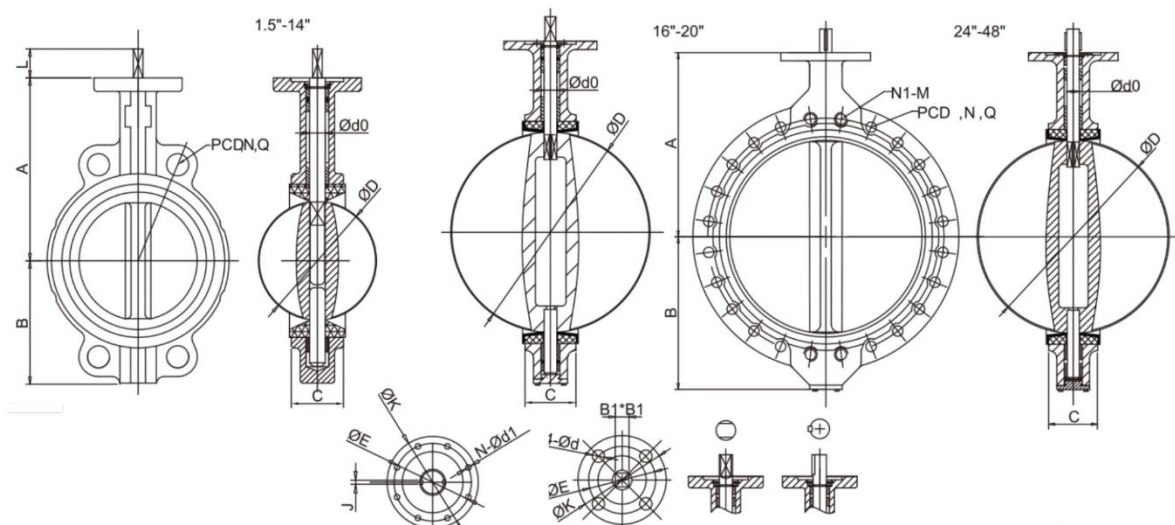
Through shaft with Pin

Pinless disc

Slim disc concentric design(DN50-DN350)

Seat Options

Cartridge rubber seat



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Size		A	B	C	d0	PCD	N-Q	ØK	ØE	N-ØP	B1xB2	J	L	ISO 5211
inch	mm													
1 1/2"	40	120	70	33	12.6	110	-	65	50	4-7	9x9	-	26	F05
2"	50	161	80	43	12.6	125	-	90	70	4-10	11x11	-	26	F07
2 1/2"	65	175	89	46	12.6	145	-	90	70	4-10	11x11	-	30	F07
3"	80	181	95	46	12.6	160	-	90	70	4-10	11x11	-	30	F07
4"	100	200	114	52	15.77	180	-	90	70	4-10	11x11	-	30	F07
5"	125	213	127	56	18.92	210	-	90	70	4-10	14x14	-	30	F07
6"	150	226	139	56	18.92	240	-	90	70	4-10	14x14	-	40	F07
8"	200	260	175	60	22.1	295	-	125	102	4-12	17x17	-	40	F10
10"	250	292	203	68	28.45	350	-	125	102	4-12	22x22	-	40	F10
12"	300	337	242	78	31.6	400	-	125	102	4-12	22x22	-	40	F10
14"	350	368	267	78	31.6	460	-	125	102	4-12	22x22	-	40	F10
16"	400	400	309	102	33.15	515	-	175	140	4-18	27x27	-	50	F14
18"	450	422	328	114	37.95	565	-	175	140	4-18	27x27	-	70	F14
20"	500	480	361	127	41.12	620	-	175	140	4-18	36x36	-	80	F14
24"	600	562	459	154	50.62	725	-	210	165	4-23	36x36	-	80	F16
28"	700	624	520	165	63.35	840	4-M27	300	254	8-18	-	2-18	85	F25
32"	800	672	591	190	63.35	950	4-M30	300	254	8-18	-	2-18	95	F25
36"	900	720	656	203	74.7	1050	4-M30	300	254	8-18	-	2-20	118	F25
40"	1000	800	721	216	84.7	1160	4-M33	300	254	8-18	-	2-22	118	F25
48"	1200	941	864	256	104.7	1380	4-M36	350	298	8-22	-	2-28	154	F30



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