

Затворы дисковые поворотные серии McCannalok

Технические характеристики



Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Казахстан (772)734-952-31

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Таджикистан (992)427-82-92-69

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Единый адрес для всех регионов: bya@nt-rt.ru | www.bray.nt-rt.ru

Затворы дисковые поворотные серии McCannalok



HIGH PERFORMANCE BUTTERFLY VALVE

Featuring Bray's patented, award-winning design, this double offset high performance butterfly valve is precision engineered to deliver **quality, value,** and **reliability** in the most demanding applications.

- > Designed for high pressure, high temperature, and critical service applications.
- > Energized resilient seat design provides bidirectional zero-leakage shutoff throughout full pressure range.
- > Dead-end service, with bidirectional sealing.
- > Available firesafe design.
- > Low fugitive emissions.
- > Metal seated control valve available.
- > Easy field maintenance.
- > Low torque requirements allow smaller actuators than comparably rated valves.
- > Direct mounting of Bray actuators and controls provides a strong mechanical connection and allows economical automation.
- > Available high cycle configuration, rigorously tested to 1 million cycles.

DOUBLE OFFSET STEM AND DISC DESIGN

The disc motion of the double offset design provides many performance benefits:

DISC OPENING

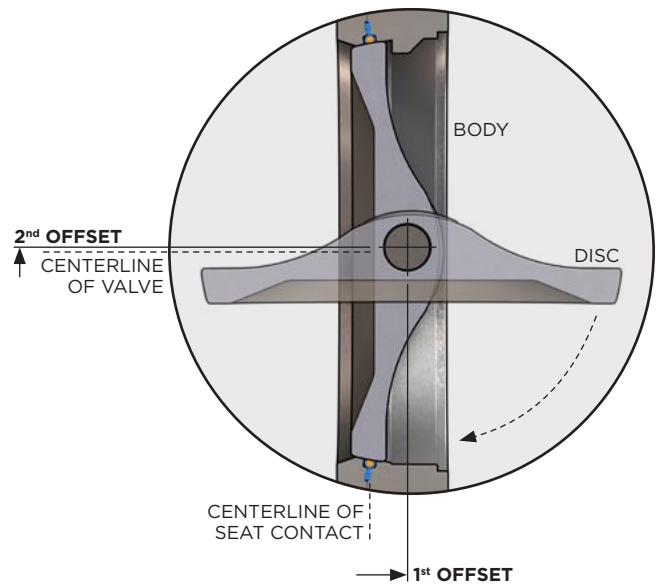
- > Cam-action movement pulls disc away from seat.
- > Reduces seat wear.

OPEN POSITION

- > Disc does not contact seat.
- > Eliminates seat deformation.
- > Reduces operating torques.
- > Extends service life.

DISC CLOSING

- > Linear motion pushes disc onto seat.
- > Wiping action prevents undesirable material buildup.



INDUSTRIES

- > Air Separation
- > Chemical
- > Data Centers
- > Electric Power Generation
- > Heating, Ventilation & Air Conditioning (HVAC)
- > Metal Processing
- > Mining
- > Oilfield
- > Petrochemical
- > Petroleum
- > Shipbuilding
- > Water & Wastewater Treatment

APPLICATIONS

- > Caustic
- > Chilled Water
- > Pressure Swing Adsorption (PSA)
- > Seawater
- > Sour Gas (NACE)
- > Steam
- > Vacuum

MEDIA

- > Acids
- > Alkalis
- > Corrosive Chemicals
- > Dry Chlorine (Gas or Liquid)
- > Gases
- > Hydrogen
- > Oxygen
- > Water

TECHNICAL DATA

SPECIFICATIONS

Size Range	NPS 2 to 66	
	DN 50 to 1650	
Body Style	Wafer Lug Double Flanged	
Temperature Range	Standard	-62 to 500°F
		-52 to 260°C
	Firesafe	-62 to 500°F
		-52 to 260°C
Metal Seated	up to 900°F	
	up to 482°C	
Pressure Ratings	ASME Class 150 300 600	
	PN 10 16 25 40 63 100	
Leakage Rate	Resilient Seated	Zero Leakage
	Metal Seated	FCI 70-2 Class IV

MATERIAL OPTIONS

Body Materials	Carbon Steel
	Stainless Steel
	Nickel Aluminum Bronze
	Hastelloy® C
	Titanium
Disc Materials	Stainless Steel
	Nickel Aluminum Bronze
	Monel®
Stem Materials	Stainless Steel
	Monel® K500
	Inconel® 718
Seat Materials	RPTFE with Resilient Energizer
	PTFE with Resilient Energizer
	UHMWPE with Resilient Energizer
	TFM with Low Temperature Resilient Energizer
	(Firesafe) Inconel® & RPTFE with Resilient Energizer

NOTE

> Other materials are available on request.
Contact Bray for more information.

DESIGN STANDARDS

Valve Design	ASME B16.34
	MSS SP 68
	ASME VIII
	API 609 Category B
	EN 593
	EN 12516
Top Flange	ISO 5211
Flange Drilling¹	ASME B16.5
	ASME B16.47
	EN 1092-1

Seat Tightness Test	API 598
	MSS SP 61
	EN 12266
	ISO 5208
Face-to-Face	ASME B16.10
	API 609 Category B
	EN 558
	ISO 5752

NOTE

¹ Additional flange drilling options available.

CERTIFICATIONS & APPROVALS

Certifications	CE: PED 2014/68/EU
	ANSI/NSF 61
	SIL
Fire Test	API 607
	ISO 10497
Fugitive Emissions	API 641
	ISO 15848-1
	TA-Luft VDI 2440

Approvals	ABS Type
	Bureau Veritas Type
	DNV
	China Classification Society (CCS) Type
	EC1935
	ATEX 2014/34/EU

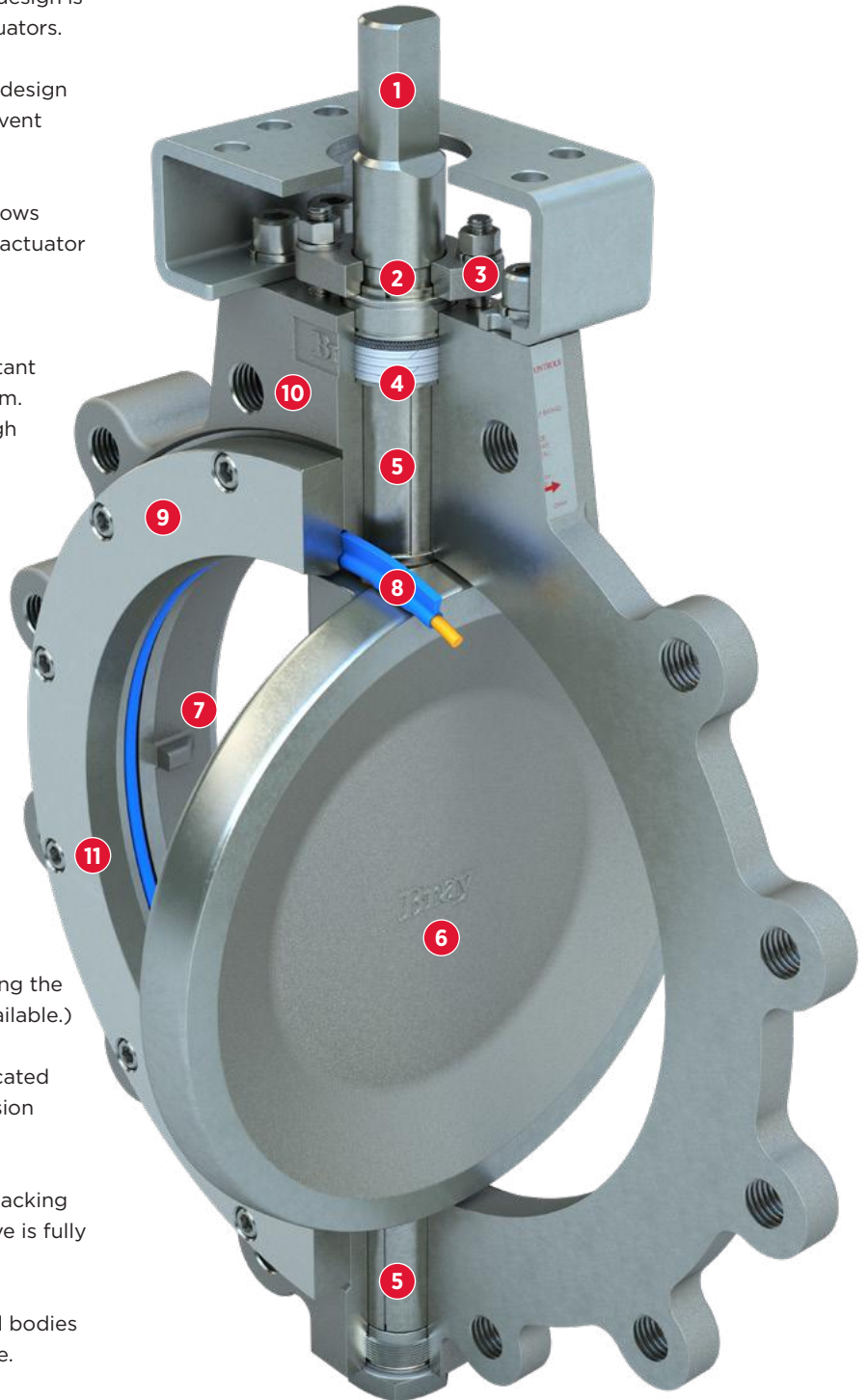
NOTE

> A complete listing of certifications and approvals can be found at BRAY.COM.

FEATURES & BENEFITS

DESIGN FEATURES

- 1 STEM DESIGN:** High-strength, one-piece stem design is standardized for interchangeability of Bray actuators.
- 2 BLOWOUT-PROOF STEM:** The stem retention design does not rely on actuation components to prevent stem blowout.
- 3 ADJUSTABLE STEM PACKING:** Easy access allows simple quarter-turn field adjustments without actuator removal.
- 4 STEM SEAL SYSTEM:** PTFE packing rings with carbon fiber anti-extrusion ring provides constant compression for a positive seal around the stem. Options are available for high temperature, high cycle and firesafe applications.
- 5 STEM BEARINGS:** Top and bottom bearings securely support the stem, provide excellent corrosion resistance, and minimize deflection from high temperatures and mechanical loading forces.
- 6 DISC:** The disc is engineered to maximize flow and minimize resistance for optimal Cv / Kv values.
- 7 INTERNAL OVER-TRAVEL STOP:** Designed to minimize possible seat damage — extending the service life of the seat.
- 8 BIDIRECTIONAL RESILIENT SEAT:** Provides bidirectional zero-leakage sealing while isolating the energizer from line media. (Firesafe option available.)
- 9 FULL-FACED SEAT RETAINER:** Cap screws located outside sealing area are protected from corrosion while allowing simple seat replacement.
- 10 BODY:** Extended neck allows access to stem packing adjustments and actuator mounting when valve is fully insulated.
- 11 DEAD-END SERVICE:** Lug and double-flanged bodies are full rated for bidirectional dead-end service.



Series 41 Lug Style

AVAILABLE SIZES (NPS & DN)

ASME CLASS 150 — SERIES 40/41/4A

Up to 285 psi (19.6 bar)



VALVE SIZES (NPS)

Model	Body Style	Standard	Firesafe	Metal Seated
40	Wafer	2 to 66	2½ to 48	2½ to 30
41	Lug	2 to 66	2½ to 48	2½ to 30
4A	Double Flanged	2 to 54	2½ to 48	2½ to 30

VALVE SIZES (DN)

Model	Body Style	Standard	Firesafe	Metal Seated
40	Wafer	50 to 1650	65 to 1200	65 to 750
41	Lug	50 to 1650	65 to 1200	65 to 750
4A	Double Flanged	50 to 1350	65 to 1200	65 to 750

ASME CLASS 300 — SERIES 42/43/4B

Up to 740 psi (51 bar)



VALVE SIZES (NPS)

Model	Body Style	Standard	Firesafe	Metal Seated
42	Wafer	2 to 36	2½ to 36	2½ to 30
43	Lug	2 to 54	2½ to 36	2½ to 30
4B	Double Flanged	3 to 42	2½ to 36	2½ to 30

VALVE SIZES (DN)

Model	Body Style	Standard	Firesafe	Metal Seated
42	Wafer	50 to 900	65 to 900	65 to 750
43	Lug	50 to 1350	65 to 900	65 to 750
4B	Double Flanged	80 to 1050	65 to 900	65 to 750

ASME CLASS 600 — SERIES 44/45

Up to 1440 psi (100 bar)



VALVE SIZES (NPS)

Model	Body Style	Standard	Firesafe	Metal Seated
44	Wafer	3 to 24	3 to 24	6 to 12
45	Lug	3 to 36	3 to 36	6 to 12

VALVE SIZES (DN)

Model	Body Style	Standard	Firesafe	Metal Seated
44	Wafer	80 to 600	80 to 600	150 to 300
45	Lug	80 to 900	80 to 900	150 to 300

MATERIALS OF CONSTRUCTION (PARTS LIST)

PARTS LIST AND MATERIAL SPECIFICATIONS

ITEM	DESCRIPTION	MATERIAL	
		Standard	Optional
1	Body	Carbon Steel, ASTM A216 Gr. WCB/A516 Gr. 70	Nickel Aluminum Bronze, ASTM B-148 C95800
		Stainless Steel, ASTM A351 Gr. CF8M	
2	Disc	Stainless Steel, ASTM A351 Gr. CF8M	Nickel Aluminum Bronze, ASTM B-148 C95800
			Electroless Nickel Plating ³
3	Stem	17-4 PH Stainless Steel, ASTM A564-Type 630	Monel® K500
			316 Stainless Steel, ASTM 276 Type 316/A240-316 ¹
			Inconel® 718
4	Seat Assembly	RPTFE ² with Resilient Energizer	PTFE with Resilient Energizer
			TFM with Low Temperature Resilient Energizer
			Inconel® 718 & RPTFE ² with Resilient Energizer ³
5	Seat Retainer	Carbon Steel, ASTM A216 Gr. WCB/A516 Gr. 70	Nickel Aluminum Bronze, ASTM B-148 C95800
		Stainless Steel, ASTM A351 Gr. CF8M	
6A	Locating Plug	316 Stainless Steel, ASTM 276 Type 316/A240-316	—
6B	Bottom Plate	Carbon Steel, Phosphate Coated	—
		316 Stainless Steel, ASTM 276 Type 316/A240-316	—
7	Gasket, Locating Plug	PTFE	Flexible Graphite ³
8	Bearing	316 Stainless Steel with Glass Fiber Reinforced PTFE Liner	Nitride Hardened Stainless Steel ³
9	Disc Spacers	316 Stainless Steel, ASTM 276 Type 316	Nitronic® 60 ⁴
10	Drive Screw	18-8 Stainless Steel	—
11	ID Tag	18-8 Stainless Steel	—
12	Thrust Washer	316 Stainless Steel, ASTM 276 Type 316	—
13	Stem Seal Set	PTFE rings + 1 Carbon Fiber Ring	Flexible Graphite Rings ³
			Carbon and Graphite Filled PTFE ⁴
14	Ground Washer	—	316 Stainless Steel (not shown)
15	Stud	316 Stainless Steel, ASTM A193-B8M	—
16	Gland Ring	316 Stainless Steel, ASTM 276 Type 316	—
17	Retaining Ring	18-8 Stainless Steel	—
18	Gland Retainer	316 Stainless Steel	—
19	Lock Washers or Belleville Washers ⁴	18-8 Stainless Steel	17-7 Stainless Steel
20	Hex Nut	18-8 Stainless Steel	—
21	Mounting Bracket	Carbon Steel, Zinc Plated	316 Stainless Steel
22	Cap Screws	18-8 Stainless Steel	Alloy Steel
23	Taper Pins	17-4 PH Stainless Steel, ASTM A564-Type 630	Monel® K500
24	Lock Washers	18-8 Stainless Steel	Alloy Steel
25	Cap Screws	18-8 Stainless Steel	Alloy Steel
26	Gasket ³	—	Flexible Graphite ³
27	Metal Seat ³	—	Inconel® 718, ASTM B670 ³
31	Cap Screws	18-8 Stainless Steel	Alloy Steel
32	Gasket, Bottom Plate	PTFE	—

NOTES

> Material specifications provided for reference only, and are subject to change without notice.

> Additional materials available upon request.

1 May require pressure rating to be reduced. Contact Bray for more information.

2 RTFE is supplied by Bray as RPTFE (reinforced polytetrafluoroethylene.)

3 Firesafe and metal seated valve only.

4 Used in high cycle configuration.

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Казахстан (772)734-952-31
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Таджикистан (992)427-82-92-69
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Единый адрес для всех регионов: bya@nt-rt.ru | | www.bray.nt-rt.ru