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# BRAY INTERNATIONAL PRODUCT PROFILE



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**Bray**®

BRAY.COM

THE HIGH PERFORMANCE COMPANY

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**BRAY TRI LOK® TRIPLE OFFSET VALVE**

<b>Size Range</b>	NPS 3 to 48   DN 80 to 1200
<b>Body Style</b>	Wafer   Lug   Double Flanged   Long Pattern (Gate)
<b>Temperature Range</b>	-320°F to 842°F   -196°C to 450°C
<b>Pressure Rating</b>	ASME Class 150   300   600   900
<b>Shut Off Class</b>	Zero Leakage
<b>Body Materials</b>	Carbon Steel   Stainless Steel
<b>Disc Materials</b>	Carbon Steel   Stainless Steel
<b>Stem Materials</b>	17-4PH SS   410 SS   XM-19 (Nitronic® 50)
<b>Body Seat Materials</b>	316 SS Hardened
<b>Disc Seal Materials</b>	Laminated 318 SS/Graphite
<b>Applications</b>	Critical Service   High Pressure   High Temperature   Cryogenic Service



**BRAY McCANNALOK™ HIGH PERFORMANCE BUTTERFLY VALVE**

<b>Size Range</b>	NPS 2 to 66   DN 50 to 1500	
<b>Body Style</b>	Wafer   Lug   Double Flanged	
<b>Temperature Range</b>	-320°F to 900°F   -196°C to 482°C	
<b>Pressure Rating</b>	ASME Class 150   300   600	
<b>Shut Off Class</b>	Zero Leakage	
<b>Body Materials</b>	Carbon Steel   Stainless Steel   Nickel Aluminum Bronze	
<b>Disc Materials</b>	Stainless Steel   Nickel Aluminum Bronze	
<b>Stem Materials</b>	Stainless Steel   Monel® K500	
<b>Seat Materials</b>	Resilient Seat	RPTFE with Resilient Energizer   PTFE with Resilient Energizer
	Fire Safe	RPTFE and Inconel® with Resilient Energizer
	Polar Seat®	Engineered Thermoplastic
	Metal Seat	Inconel®
	Low Temp.	TFM with Resilient Energizer
<b>Applications</b>	High Pressure   High Temperature   Low Temperature   Cryogenic Service Critical Service	



**BRAY McCANNALOK™ CRYOGENIC  
HIGH PERFORMANCE BUTTERFLY VALVE**

<b>Size Range</b>	NPS 3 to 24   DN 80 to 600	
<b>Body Style</b>	Wafer   Lug	
<b>Temperature Range</b>	-320°F to 250°F   -196°C to 121°C	
<b>Pressure Rating</b>	ASME Class 150   300	
<b>Shut Off Class</b>	Zero Leakage (at ambient temperatures)   BS 6364 (at cryogenic temperatures) ISO 28921 (at cryogenic temperatures)	
<b>Body Materials</b>	316 SS	
<b>Stem Materials</b>	XM-19	
<b>Packing</b>	PTFE   Graphite	
<b>Bearing</b>	Teflon Lined Stainless Steel   Nitride Hardened Stainless Steel	
<b>Disc Materials</b>	316 SS	
<b>Seat Material</b>	Polar Seat®	
<b>Extended Bonnet</b>	316 SS	
<b>Applications</b>	Liquid Oxygen   LNG Liquefaction   LNG Receiving Terminals LPG Handling   Petroleum   Refrigeration   Steel Production	

# BUTTERFLY VALVES

## BRAY SERIES 3W/3L

<b>Size Range</b>	NPS 2 to 24   DN 50 to 600	
<b>Body Style</b>	Wafer   Lug	
<b>Temperature Range</b>	-20°F to 250°F   -29°C to 121°C	
<b>Pressure Ratings</b>	Bidirectional Bubble Tight Shut Off	High Pressure Disc - 250 psi   17.2 bar
		Standard Disc NPS 2-12   DN 50-300 - 175 psi   12 bar
		NPS 14-24   DN 350-600 - 150 psi   10.3 bar
		Low Pressure Disc - 50 psi   3.4 bar
<b>Body Materials</b>	Cast Iron   Ductile Iron	
<b>Disc Materials</b>	Nylon 11 Coated Ductile Iron   Aluminum Bronze   316 SS Duplex Stainless Steel 4A	
<b>Stem Materials</b>	416 SS   Stainless Steel (EN 1.4057)	
<b>Seat Materials</b>	EPDM   BUNA-N   HT-EPDM	
<b>Applications</b>	HVAC   Chilled Water   Desalination   Sour Gas (NACE)   Steam Vacuum	



## BRAY SERIES 30/31

<b>Size Range</b>	NPS 2 to 20   DN 50 to 500	
<b>Body Style</b>	Wafer   Lug	
<b>Temperature Range</b>	-20°F to 400°F   -29°C to 204°C	
<b>Pressure Ratings</b>	Bidirectional Bubble Tight Shut Off	175 psi   12 bar
<b>Body Materials</b>	Cast Iron   Ductile Iron   Carbon Steel   Aluminum	
<b>Disc Materials</b>	Nylon 11 Coated Ductile Iron   Aluminum Bronze   Stainless Steel Hastelloy®   Halar® Coated Ductile Iron	
<b>Stem Materials</b>	Stainless Steel   Monel® K500	
<b>Seat Materials</b>	EPDM   BUNA-N   FKM   Polyurethane   HTEPDM	
<b>Applications</b>	Water   Wastewater   Seawater   HVAC   Other Liquids and Gases	



## BRAY SERIES 31H

<b>Size Range</b>	NPS 2 to 20   DN 50 to 500	
<b>Body Style</b>	Lug	
<b>Temperature Range</b>	-20°F to 250°F   -29°C to 121°C	
<b>Pressure Ratings</b>	Bidirectional Bubble Tight Shut Off	250 psi   17.2 bar
<b>Body Material</b>	Ductile Iron	
<b>Disc Materials</b>	Nylon 11 Coated Ductile Iron   Aluminum Bronze   Stainless Steel	
<b>Stem Materials</b>	Stainless Steel	
<b>Seat Materials</b>	Bonded EPDM   Bonded BUNA-N	
<b>Applications</b>	High Pressure   HVAC   Dead End Service	



## BRAY SERIES 20/21

<b>Size Range</b>	NPS 1 to 20   DN 25 to 500	
<b>Body Style</b>	Wafer   Lug	
<b>Temperature Range</b>	-20°F to 400°F   -29°C to 204°C	
<b>Pressure Ratings</b>	Bidirectional Bubble Tight Shut Off	150 psi   10.3 bar
<b>Body Materials</b>	Cast Iron   Ductile Iron   Stainless Steel   Aluminum	
<b>Disc/Stem Materials</b>	Stainless Steel   EPDM Molded over SS   BUNA-N Molded over SS	
<b>Seat Materials</b>	EPDM   BUNA-N   PTFE Lined EPDM   FKM   Polyurethane	
<b>Applications</b>	Sanitary Service   Mildly Corrosive   Toxic Media Other Liquids and Gases	





## BRAY SERIES 32/33 & 35/36

<b>Size Range</b>	S32/33 - NPS 22 to 36   DN 550 to 900 S35/36 - NPS 22 to 120   DN 550 to 3000		
<b>Body Style</b>	S32/33 Wafer   S35/36 Full Flanged		
<b>Temperature Range</b>	-20°F to 250°F   -29°C to 121°C		
<b>Pressure Ratings</b>	Bidirectional Bubble Tight Shut Off	150 psi	10.3 bar
<b>Body Materials</b>	Cast Iron   Ductile Iron   Carbon Steel   Stainless Steel		
<b>Disc Materials</b>	Nylon 11 Coated Ductile Iron   Aluminum Bronze   Stainless Steel Duplex Stainless Steel   Super Austenitic Stainless Steel   Hastelloy® Monel®		
<b>Stem Materials</b>	Stainless Steel   Duplex Stainless Steel Super Austenitic Stainless Steel   Monel®		
<b>Seat Materials</b>	EPDM   BUNA-N   FKM		
<b>Applications</b>	Water   Wastewater   Seawater   Other Liquids and Gases		



## BRAY SERIES 36H

<b>Size Range</b>	NPS 22 to 60   DN 550 to 1500		
<b>Body Style</b>	Full Flanged		
<b>Temperature Range</b>	-20°F to 250°F   -29°C to 121°C		
<b>Pressure Ratings</b>	Bidirectional Bubble Tight Shut Off	232 psi	16 bar
<b>Body Materials</b>	Ductile Iron		
<b>Disc Materials</b>	Nylon 11 Coated Ductile Iron   316 SS   Aluminum Bronze		
<b>Stem Materials</b>	17-4 PH Stainless Steel		
<b>Seat Materials</b>	Bonded EPDM   Bonded BUNA-N		
<b>Applications</b>	High Pressure   HVAC   Dead End Service		



## BRAY SERIES 3A/3AH

<b>Size Range</b>	NPS 2 to 20   DN 50 to 500		
<b>Body Style</b>	Double Flanged		
<b>Temperature Range</b>	-20°F to 400°F   -29°C to 204°C		
<b>Pressure Ratings</b>	Bidirectional Bubble Tight Shut Off	250 psi	17.2 bar
<b>Body Materials</b>	Cast Iron   Ductile Iron   Carbon Steel		
<b>Disc Materials</b>	Nylon 11 Coated Ductile Iron   Aluminum Bronze   Stainless Steel		
<b>Stem Materials</b>	Stainless Steel   Monel® K500		
<b>Seat Materials</b>	Bonded EPDM   Bonded BUNA-N   Bonded FKM		
<b>Applications</b>	Water   Wastewater   Seawater   Other Liquids and Gases		



## BRAY SERIES 31U

<b>Size Range</b>	NPS 2 to 12   DN 50 to 300		
<b>Body Style</b>	Lug		
<b>Temperature Range</b>	0°F to 212°F   -18°C to 100°C		
<b>Pressure Ratings</b>	Bidirectional Bubble Tight Shut Off	285 psi	20 bar
<b>Body Materials</b>	Ductile Iron   Carbon Steel   Nickel Aluminum Bronze		
<b>Disc Materials</b>	Stainless Steel   Nickel Aluminum Bronze		
<b>Stem Materials</b>	Stainless Steel   Monel® K500		
<b>Seat Materials</b>	Bonded BUNA-N		
<b>Applications</b>	High Pressure Industrial and Marine Dead End Service On-Shore and Off-Shore Fire Protection		



## BUTTERFLY VALVES

### BRAY ACRIS® SERIES 24/25

<b>Size Range</b>	NPS 2 to 24   DN 50 to 600
<b>Temperature Range</b>	-20°F to 320°F   -29°C to 160°C
<b>Pressure Ratings</b>	NPS 2 to 6: Up to 232 psi   DN 50 to 150: Up to 16 bar NPS 8 to 24: Up to 150 psi   DN 200 to 600: Up to 10 bar
<b>Shutoff Rating</b>	Zero leakage
<b>Body Style</b>	2-piece Wafer   Lug
<b>Body Materials</b>	Ductile Iron
<b>Disc/Stem Materials</b>	17-4 Stainless Steel with Over-Molded PFA Disc
<b>Liner Material</b>	PFA
<b>Seat Energizer Material</b>	Silicone   Viton™
<b>Applications</b>	Corrosive Chemical   Semiconductor   Ultrapure Water



### BRAY SERIES 22/23

<b>Size Range</b>	NPS 2 to 24   DN 50 to 600
<b>Body Style</b>	Wafer   Lug
<b>Temperature Range</b>	0°F to 392°F   -18°C to 200°C
<b>Pressure Ratings</b>	Bidirectional Bubble Tight Shut Off   150 psi   10.3 bar
<b>Body Materials</b>	Ductile Iron   Carbon Steel   Stainless Steel
<b>Disc/Stem Materials</b>	Stainless Steel   PTFE/SS   UHMWPE/SS   UHMWPE/Ductile Iron Hastelloy®   Titanium   PFA/SS
<b>Seat Materials</b>	PTFE   Conductive PTFE   UHMWPE
<b>Applications</b>	Highly Corrosive   Toxic Media   Ultra Pure Water



### BRAY SERIES 39

<b>Size Range</b>	NPS 2 to 24   DN 50 to 600
<b>Body Style</b>	Wafer   Flanged Long Body
<b>Temperature Range</b>	-20°F to 300°F   -29°C to 150°C
<b>Pressure Rating</b>	230 psi   16 bar
<b>Shut Off Rating</b>	≥ Class 1
<b>Body Materials</b>	Ductile Iron   Carbon Steel   Stainless Steel
<b>Disc Materials</b>	Chrome-Molly Iron (Hardened) PSZ Ceramic (Partially Stabilized Zirconia)
<b>Stem Materials</b>	Stainless Steel
<b>Liner Materials</b>	Ceramic (Sintered Silicone Carbide)   Metallic Carbide Rich Chrome Iron Alloy
<b>Applications</b>	Slurry Control   Highly Abrasive



### AMRESIST® ACRIS® PFA LINED BUTTERFLY VALVES

<b>Size Range</b>	NPS 1 to 24   DN25 to 600
<b>Body Style</b>	Wafer   Lug
<b>Temperature Range</b>	-20°F to 320°F   -29°C to 160°C
<b>Pressure Ratings</b>	NPS 1 to 12 (DN25 to 300) 185 psi (12.5 bar) NPS 14 to 24 (DN350 to 600) 150 psi (10 bar)
<b>Body Material</b>	Ductile Iron
<b>Disc/Stem Materials</b>	1k = 17-4SS Over Molded with PFA - NPS 1 to 12 (DN25 to 300) 1k = 17-4SS Shafts/High Strength Steel Disc Over Molded with PFA NPS 14 to 24 (DN350 to 600) 1s = Carbon Steel Over Molded with PFA - NPS 2 to 12 (DN50 to 300) 7t = Titanium grade 7 - NPS 3 to 12 (DN80 to 300)
<b>Applications</b>	Highly Corrosive and Ultra Pure Industrial Applications

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Pressure/Temperature ratings and material availability depend on valve size and series. Please consult your local Bray representative for your specific application.

FKM is the ASTM D1418 designation for Fluorinated Hydrocarbon Elastomers (also called Fluoroelastomers)  
Hastelloy® is a registered trademark of Haynes International, Inc. | Halar® is a registered trademark of Solvay Solexis, Inc.



## KUGELHAHN MÜELLER® - KM 20/21 - FLANGED

<b>Size Range</b>	NPS ½ to 8   DN 15 to 200
<b>Body Type</b>	Two-piece Flanged
<b>Port</b>	Full port
<b>Temperature Range</b>	PTFE: -76°F to 392°F   -60°C to 200°C O-Ring: 13°F to 392°F   -25°C to 200°C
<b>Pressure Rating</b>	40 bar
<b>Valve Design</b>	EN 12569   EN 593   NE 167
<b>Material Standard</b>	EN 16668   AD2000 W0
<b>Food Contact</b>	EC 1935
<b>Marking</b>	EN 19   DIN EN IEC 61406*   DIN 91406*
<b>Top Flange</b>	ISO 5211
<b>Flange Drilling</b>	EN 1092-1 PN 10   16   25   40
<b>Face-to-Face</b>	EN 558 Series 1   Series 27
<b>Testing Standard</b>	EN 12266-1
<b>Fugitive Emissions Certification</b>	ISO 15848-1   TA Luft VDI 2440
<b>Media</b>	Acids   Alkalis   Corrosive Chemicals   Gases   Hydrogen Oxygen   Water
<b>Applications</b>	Chemical Gases   Chemical Fluids   Petrochemicals Food and Beverage (FDA)   Pharmaceutical Water and Wastewater Treatment

\* Auto ID available shortly.



## AMRESIST® ACRIS® PFA LINED

<b>Size Range</b>	NPS ½ to 6   DN 15 to 150 - Full Port - One Piece Ball/Stem NPS 1 to 4   DN 25 to 100 - Standard Port - Floating Ball
<b>Body Style</b>	2 Piece
<b>Ports</b>	Full   Standard
<b>Temperature Range</b>	-49°F to 400°F   -45°C to 204°C
<b>Pressure Ratings</b>	NPS ½ to 4 - 250 psi   DN 15 to 100 - 17 bar NPS 6 - 150 psi   DN 150 10 bar
<b>Body Material</b>	PFA Lined ASTM A-216 WCB   PFA Lined ASTM A-351 CF8M (optional)
<b>Seat Materials</b>	TFM
<b>Applications</b>	Highly Corrosive and Ultra Pure Industrial Applications

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## BALL VALVES

### BRAY SERIES 19 SEGMENTED

<b>Size Range</b>	NPS 1 to 16   DN 25 to 400
<b>Port</b>	Segmented V-Ball
<b>Body Style</b>	1 Piece
<b>Temperature Range</b>	-50°F to 500°F   -46°C to 260°C
<b>Pressure Rating</b>	ASME Class 150   300   600   PN 10   PN 16   PN 25   PN 40
<b>End Connections</b>	Flanged ASME Class 150   300   600   Wafer ASME Class 150   300 PN 10   PN 16   PN 25   PN 40
<b>Body Materials</b>	Stainless Steel   Carbon Steel   Optional Special Alloys
<b>Seat Materials</b>	Metal   Tek-Fil®
<b>Applications</b>	Liquid   Gas   Steam   Pressure Control   Temperature Control Level Control   Slurry and Abrasive Services   Suspended Solids



### BRAY SERIES 19L SEGMENTED

<b>Size Range</b>	NPS 1 to 12   DN 25 to 300
<b>Port</b>	Segmented V-Ball
<b>Body Style</b>	1 Piece
<b>Temperature Range</b>	-50°F to 500°F   -46°C to 260°C
<b>Pressure Rating</b>	ASME Class 150   300   600   PN 10   PN 16   PN 25   PN 40
<b>End Connections</b>	Flanged ASME Class 150   300   600   PN 10   PN 16   PN 25   PN 40
<b>Body Materials</b>	Stainless Steel   Carbon Steel   Optional Special Alloys
<b>Seat Materials</b>	Metal
<b>Applications</b>	Liquid   Gas   Steam   Pressure Control   Temperature Control Level Control   Slurry and Abrasive Services   Suspended Solids



### BRAY SERIES F15/F30 | RF15/RF30 FLANGED

<b>Size Range</b>	NPS ½ to 12   DN 15 to 300
<b>Ports</b>	Full   Standard Port
<b>Body Style</b>	F15/F30 2 Piece   RF15/RF30 1 Piece
<b>Temperature Range</b>	-50°F to 650°F   -46°C to 343°C
<b>Pressure Rating</b>	ASME Class 150   300   PN 10 to PN 40
<b>End Connections</b>	ASME Class 150   300   PN 10 to PN 40
<b>Body Materials</b>	Stainless Steel   Carbon Steel   Alloys
<b>Seat Materials</b>	Standard: TFM 1600   Optional: Tek-Fil®   PEEK   UHMWPE   RPTFE Metal Cavity Fillers
<b>Applications</b>	General Service   Process   Tank Farms   Fueling   Oil and Gas NACE   Fire Safe   Potable Water (NSF 61)



### BRAY TRIAD SERIES 3-PIECE

<b>Size Range</b>	NPS ¼ to 4   DN 8 to 100
<b>Ports</b>	Full   Standard Port
<b>Body Style</b>	3 Piece
<b>Temperature Range</b>	-50°F to 550°F   -46°C to 287°C
<b>Pressure Rating</b>	2200 psi WOG   151.6 bar
<b>End Connections</b>	Threaded   Socket Weld   Butt Weld   Flanged Extended Socket Weld or Butt Weld
<b>Body Materials</b>	Stainless Steel   Carbon Steel   Special Alloys
<b>Seat Materials</b>	Standard: TFM 1600   Optional: Tek-Fil®   PEEK   UHMWPE   RPTFE Metal   Cavity Fillers
<b>Applications</b>	General Service   Process   Steam   Fire Safe   Industrial Gases Critical Service   High Cycle







**BRAY SERIES 7000/8000 3-PIECE**

Size Range	NPS ¼ to 12   DN 8 to 300	
Port	Full Port	
Body Style	3 Piece	
Temperature Range	-50°F to 550°F   -46°C to 287°C	
Pressure Rating	NPS ¼ to 4 - 1000 psi WOG   DN 8 to 100 - 69 bar NPS 6 to 12 - 400 psi WOG   DN 150 to 300 - 27.6 bar	
End Connections	Threaded   Socket Weld   Butt Weld   Flanged Extended Socket Weld or Butt Weld JIC (Male)   Tank Bottom   Tri-Clamp	
Body Materials	Stainless Steel Series 7000   Carbon Steel Series 8000	
Seat Materials	Standard: RPTFE   Optional: TFM 1600   Tek-Fil®   UHMWPE Cavity Fillers	
Applications	General Service   Process   OEM Equipment   Potable Water (NSF 61)	



**BRAY SERIES 1B TRUNNION MOUNTED**

Size Range	NPS 2 to 24   DN 50 to 600	
Ports	Full	
Body Style	2-Piece   3-Piece   Forged   Cast	
Temperature Range	-50°F to 500°F   -46°C to 260°C	
Pressure Rating	ASME Class 150   300   600   900   1500	
End Connections	Flanged   Butt Weld   RTJ	
Body Materials	Stainless Steel   Carbon Steel	
Seat Materials	RPTFE   Nylon   Metal	
Applications	Liquid and Gas Transmission and Storage   Emergency Shutdown Suction and Discharge Isolation   Block and Bypass   Pumping Units Compression Units   Reinjection Units   Metering Stations Pig Trap Launchers and Receivers   Surge-Relief Skids	



**BRAY SERIES MPT/MPC | SERIES MPF | SERIES 3HP  
MULTI-PORT VALVES**

Size Range	NPS ¼ to 12   DN 8 to 300	
Ports	Full   Standard Port   T-Port   L-Port   LL-Port	
Body Style	3 & 4 Way	
Temperature Range	-20°F to 450°F   -29°C to 232°C	
Pressure Ratings	ASME Class 150   300   800 - 1000 PSI WOG PN 10   16   25   40   55 - 69 bar	
End Connections	Threaded   Tri-Clamp   Socket Weld   Butt Weld   Flanged	
Body Materials	Stainless Steel   Carbon Steel   Alloys	
Seat Materials	Standard: TFM 1600   Optional: Tek-Fil®   UHMWPE   RPTFE   PTFE Cavity Fillers	
Applications	Diverting   Mixing   Blending and Bypassing	



**BRAY V-CONTROL BALLS FOR SERIES F15/F30 | RF15/RF30  
TRIAD SERIES | SERIES 7000/8000 | SERIES S7500**

Size Range	NPS ¼ to 12   DN 8 to 300	
Ports	V-Port 15°   30°   60° & 90°   Custom and Slotted Ports Full/Standard Port	
Body Style	Flanged   1-Piece   2-Piece   3-Piece	
Temperature Range	-50°F to 650°F   -46°C to 343°C	
Pressure Rating	F-Series: ASME Class 150   300   PN 10   PN 16   PN 25   PN 40 Triad: 2200 psi WOG 7000/8000   S7500: 1000 psi WOG	
End Connections	Flanged   Threaded   Socket Weld   Butt Weld Extended Socket Weld or Butt Weld   Tri-Clamp	
Body Materials	Stainless Steel   Carbon Steel   Alloys	
Seat Materials	Standard: Tek-Fil®   Optional: RPTFE   TFM   PEEK   Metal	
Applications	Flow Control   Level Control   Temperature Control   Low Pressure Steam Control	

## BALL VALVES

### BRAY SERIES M1 - SEVERE SERVICE

<b>Size Range</b>	NPS ½ to 36   DN 15 to 900   Custom and Larger Sizes Upon Request
<b>Pressure Ratings</b>	ASME 150-4500   PN 10 - PN 720
<b>Temperature</b>	Standard Design Rated Up to 1100 °F   593 °C Can Be Customized for Higher Temperatures
<b>Design Standards</b>	ASME B16.34   ASME Section VIII - Div 1 Appendix 2, PED 2014/68/EU
<b>End Connections</b>	Raised Face and Ring Type Joint (ASME B16.5 and DIN 2501) Butt Weld (ASME B16.25)   Socket Weld (ASME B16.11) Hubs and Custom Ends Available
<b>End-To-End</b>	ASME B16.10 (Long Pattern)   EN 558-1
<b>Testing</b>	MSS SP-61   API 598   ANSI/FCI 70-2   Custom Tests Available
<b>Applications</b>	Conventional Power   Combined Cycle Power Plants   Superheated Steam Slurry Discharge   Hydromet Pump Isolation   High Pressure Acid Leaching   Acid Injection   Delayed Coking   Hydrotreating Fluid Catalytic Cracking



### BRAY SERIES M4 - SEVERE SERVICE

<b>Size Range</b>	NPS ½ to 2½   DN 15 to 65 SW or BW NPS 3 and 4   DN 80 and 100 BW
<b>Bore Sizes</b>	0.63"   1.03"   1.56"
<b>Pressure Ratings</b>	ASME 1700   3100   4500 NPS ½ to 2½   DN 15 to 65 Limited Class NPS 3 and 4   DN 80 and 100 Standard Class
<b>Temperature</b>	Up to 1100°F   593°C Customizable for Higher Temperature Upon Request
<b>Design Standards</b>	ASME B16.34   Bore sizes per ASME TDP-1   PED 2014/68/EU
<b>End Connections</b>	SW per ASME B16.11   BW per ASME B16.25
<b>Body Materials</b>	A105   A182-F22 Cl.3   A182-F91
<b>Ball Materials</b>	410 SS/HVOF Chromium Carbide   A182-F91/F92 Inconel® 718/Fused Chromium Carbide
<b>Seat Materials</b>	410 SS/HVOF Chromium Carbide   Inconel® 718/HVOF Chromium Carbide
<b>Testing</b>	API 598   MSS SP 61   Custom Tests Available
<b>Characteristics</b>	On/Off   Zero Leakage
<b>Applications</b>	Power Plant Steam Vent and Drains   Isolation or Blowdown of Steam Water Other High Temperature and/or High Pressure Medias



### BRAY RESOLUTE BALL™ ACCESSORY FOR SERIES F15/F30 | RF15/RF30

Body Style	Model	Pressure Class	Size - NPS	Size - DN
Flanged (Full Port)	F15	ASME Class 150   PN 10   PN 16	½ to 12	15 to 300
	F30	ASME Class 300   PN 25   PN 40		
Flanged (Standard Port)	RF15	ASME Class 150   PN 10   PN 16	1 to 12	25 to 300
	RF30	ASME Class 300   PN 25   PN 40		
Available Standards and Certifications				
Valve Design	NACE MR0175   ISO 15156			
Fugitive Emissions	API 641   ISO 15848-1   ISO 15848-2			
Features and Benefits	Direct Replacement Ball Design   Self Flushing/Cleaning			
	Reduced Seat-to-Ball Interface   Bidirectional Sealing			
	Multiple Seating Options			
Applications	Calcifying and Crystallizing Medias   Abrasive Slurries			
	Tank Drain and Isolation   Pump Isolation   White/Green/Black Liquor			
	Polymers/Monomers   Polyvinyl Chloride   Petrochemicals			





## FLOW-TEK® SERIES S20 | S40 | S51 | S70/S90 | S80 THREADED

<b>Size Range</b>	NPS ¼ to 4   DN 8 to 100
<b>Ports</b>	Full   Standard   Reduced Port
<b>Body Style</b>	1 Piece & 2 Piece
<b>Temperature Range</b>	-50°F to 450°F   -46°C to 232°C
<b>Pressure Ratings</b>	Through 2000 psi WOG   138 bar
<b>End Connections</b>	Threaded
<b>Body Materials</b>	Stainless Steel   Carbon Steel   Brass
<b>Seat Materials</b>	RPTFE   PTFE
<b>Applications</b>	General Service   Air   Water   Oil and Gas   Vacuum Service



## FLOW-TEK® SERIES S85 THREADED

<b>Size Range</b>	NPS ½ to 3   DN 15 to 80
<b>Port</b>	Full Port
<b>Body Style</b>	2 Piece
<b>Temperature Range</b>	-50°F to 450°F   -46°C to 232°C
<b>Pressure Ratings</b>	1000 psi WOG   69 bar
<b>End Connections</b>	Threaded
<b>Body Materials</b>	Stainless Steel
<b>Seat Materials</b>	Standard: RPTFE   Optional: UHMWPE
<b>Applications</b>	General Service   Air   Water   Oil and Gas   Vacuum Service Water Treatment   Water Filtration   Potable Water (NSF 61)



## FLOW-TEK® SERIES 5000/6000 3-PIECE

<b>Size Range</b>	NPS ¼ to 4   DN 8 to 100
<b>Port</b>	Full Port
<b>Body Style</b>	3 Piece
<b>Temperature Range</b>	-50°F to 450°F   -46°C to 232°C
<b>Pressure Rating</b>	NPS ¼ to 2 - 1000 psi CWP   DN 8 to 50 - 69 bar NPS 2½ to 4 - 800 psi WOG   DN 65 to 100 - 55 bar
<b>End Connections</b>	Threaded   Socket Weld
<b>Body Materials</b>	Stainless Steel Series 5000   Carbon Steel Series 6000
<b>Seat Materials</b>	RPTFE
<b>Applications</b>	General Service   OEM Equipment Process



## FLOW-TEK® SERIES S7500/S7700 MICRO PURE 3-PIECE

<b>Size Range</b>	NPS ¼ to 4   DN 8 to 100
<b>Port</b>	Tube Bore
<b>Body Style</b>	3 Piece
<b>Temperature Range</b>	-50°F to 450°F   -46°C to 232°C
<b>Pressure Rating</b>	1000 psi WOG   69 bar
<b>End Connections</b>	Tri-Clamp   Extended Tube   JIC (Male)
<b>Body Materials</b>	Stainless Steel
<b>Seat Materials</b>	Standard: PTFE   Optional: TFM 1600   UHMWPE   Cavity Fillers
<b>Applications</b>	High Purity   Semi Conductor   Food and Beverage

## KNIFE GATE VALVES

### BRAY SERIES 740 BIDIRECTIONAL KNIFE GATE VALVES

Size Range	NPS 2 to 36   DN 50 to 900			Body Materials	CF8 (304 SS) CF8M (316 SS)
Pressure Rating	NPS 2 to 24 - 150 psi DN 50 to 600 - 10 bar			Gate Materials	304 SS   316 SS
	NPS 30 to 36 - 100 psi DN 750 to 900 - 7 bar			Seat Materials	BUNA-N   EPDM Viton™
Body Style	Single Piece (Lug)			Stem Materials	304 SS
Design	MSS SP-81			Packing Materials	PTFE Impregnated Synthetic Fiber
Testing	MSS SP-151			<b>Applications:</b> On/off service and isolation of clean/dirty, corrosive or viscous media in pulp and paper, chemical, mining, power, and wastewater applications.	
Face-to-Face	MSS SP-81				
Certification	CRN   PED   UKCA   ATEX UKCA EX				
Drilling	ASME B16.5 CL150 ASME B16.47 CL150				
Actuator Options	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		



### BRAY SERIES 746HP POLYURETHANE LINED HIGH PERFORMANCE KNIFE GATE VALVES

Size Range	NPS 2 to 24   DN 50 - 600			Body Material	Ductile Iron
Pressure Rating	150 psi   10 bar			Gate Material	316 SS
Body Style	One-Piece (Wafer)			Gland Material	Carbon Steel
Design	Manufacturer Standard			Liner Material	Polyurethane
Testing	MSS SP-151			Stem	304 SS
Face-to-face	MSS SP-81			Packing Materials	PTFE Impregnated Synthetic Fiber + Quad Seal
Certifications	ATEX   TR CU				
Drilling	ASME B16.5 CL150			<b>Applications:</b> On/off service handling corrosive or abrasive media in wastewater, chemical, mining, and power applications.	
Actuator Options	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		



### BRAY SERIES 752 BIDIRECTIONAL KNIFE GATE VALVES

Size Range	NPS 2 to 24   DN 50 to 600			Body Materials	CF8   CF8M   WCB Ductile Iron
Pressure Rating	150 psi   240 psi			Gate Materials	304 SS   316 SS
	10 bar   16 bar				
Body Style	Two-Piece Bolted (Wafer)			Seat Materials	BUNA-N   EPDM Viton™
Design	MSS SP-81				
Testing	MSS SP-151			Stem Material	304 SS
Face-to-Face	MSS SP-81 150 psi   10 bar   240 psi   16 bar models				
	Certification	CRN   PED   UKCA   ATEX UKCA EX			Applications: On/off service handling corrosive or abrasive media in pulp and paper, chemical, mining, and power applications.
Drilling		ASME B16.5 CL150			
	Actuator Options	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric	





### BRAY SERIES 755 BIDIRECTIONAL KNIFE GATE VALVES

Size Range	NPS 2 to 24   DN 50 to 600			Body Materials	CF8   CF8M   WCB Ductile Iron
Pressure Rating	150 psi   240 psi 10 bar   16 bar			Gate Materials	304 SS   316 SS
Body Style	Two-Piece Bolted (Wafer)			Seat Materials	BUNA-N   EPDM Viton™
Design	Manufacturer Standard			Packing Materials	PTFE Impregnated Synthetic Fiber
Testing	MSS SP-151				
Face-to-face	MSS SP-81				
Certification	CRN   PED   UKCA   ATEX UKCA EX			Bore Liner Materials	Polyurethane
Drilling	ASME B16.5 CL150				
Actuator Options	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric	Applications: Heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining, and power applications.	



### BRAY SERIES 765 BIDIRECTIONAL SLURRY VALVES

Size Range	NPS 2 to 12   DN 50 to 300			Body Materials	Ductile Iron
Pressure Rating	90 psi   6.2 bar			Gate Materials	304 SS
Body Style	Two-Piece Bolted (Wafer)			Seat Material	Natural Rubber
Design	Manufacturer Standard			Stem Material	304 SS
Testing	Manufacturer Standard			Wiper Material	EPDM
Face-to-face	MSS SP-81			Applications: Light-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining, and power applications.	
Certification	CRN   ATEX   UKCA EX				
Drilling	ASME B16.5 CL150				
Actuator Options	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		



### BRAY SERIES 762 SLURRYSHIELD® BIDIRECTIONAL SLURRY VALVES

Size Range	NPS 3 to 48   DN 80 to 1200			Body Materials	NPS 3 to 28   DN 80 to 700 - Ductile Iron
Pressure Rating	NPS 3 to 24 - 100 psi DN 80 to 600 - 7 bar				NPS 3 to 48   DN 80 to 1200 - Steel
	NPS 26 to 42 - 75 psi DN 650 to 1050 - 5 bar			Gate Materials	316 SS   2205 17-4 PH (depending on pressure rating)
	NPS 44 to 48 - 50 psi DN 1100 to 1200 - 3 bar				Seat Materials
Body Style	Two-Piece Bolted (Flanged)			Stem Material	304 SS
Design	Manufacturer Standard			Secondary Seal	EPDM
Testing	Manufacturer Standard			Applications: Heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining, and power applications.	
Face-to-Face	Per Industry Standard				
Certification	CRN				
Drilling	ASME B16.5 CL150 ASME 16.47 CL150				
Actuator Options	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		



## BRAY SERIES 767 SLURRYSHIELD® BIDIRECTIONAL SLURRY VALVES

Size Range	NPS 3 to 36   DN 80 to 900			Body Materials	WCB
Pressure Rating	300 psi   450 psi   740 psi 20 bar   30 bar   51 bar			Gate Materials	316 SS   2205 17-4PH SS (depending on pressure rating)
Body Style	Two-Piece Bolted			Sleeve Material	Natural Rubber EPDM
Design	Manufacturer Standard			Stem Material	304 SS
Testing	Manufacturer Standard			Secondary Seal	EPDM
Face-to-face	Per Industry Standard			Applications: High pressure on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining, and power applications.	
Certification	CRN   ATEX   UKCA EX				
Drilling	ASME B16.5 CL300				
Actuator Options	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		



## BRAY SERIES 768 SLURRYSHIELD® BIDIRECTIONAL SLURRY VALVES

Size Range	NPS 2 to 24   DN 50 to 600			Body Materials	Ductile Iron   Steel
Pressure Rating	NPS 2 to 16   150 psi			Gate Material	316 SS   2205
	NPS 18 to 24   90 psi				17-4PH SS (depending on pressure rating)
	DN 50 to 400   10 bar			Sleeve Materials	Natural Rubber
	DN 450 to 600   6.2 bar				EPDM
Body Style	Two-piece Bolted (Wafer)			Stem Material	304 SS
Design	Manufacturer Standard			Secondary Seal	EPDM
Testing	Manufacturer Standard			Applications: On/off service and isolation of clean/dirty corrosive or viscous media in pulp and paper, chemical, mining, power, and wastewater applications.	
Face-to-Face	MSS SP-81				
Certification	CRN				
Drilling	ASME B16.5 CL150				
Actuator Options	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		



## BRAY SERIES 940 UNIDIRECTIONAL KNIFE GATE VALVES

Size Range	NPS 2 to 24   DN 50 to 600			Body Materials	CF8   CF8M
Pressure Rating	150 psi   10 bar			Gate Materials	316 SS   304 SS
Body Style	Single Piece Lug			Seat Materials	Metal   BUNA-N EPDM   FKM   PTFE
Design	MSS SP-81				
Testing	MSS SP-151			Packing Materials	PTFE Impregnated Synthetic Fiber
Face-to-Face	MSS SP-81				
Certification	PED   UKCA   ATEX   UKCA EX			<b>Applications:</b> General purpose on/off service and isolation of clean/dirty, corrosive, abrasive, viscous, and high temperature media in power, mining, pulp and paper, cement, carbon black, and chemical applications.	
Drilling	ASME B16.5 CL150				
Actuator Options	Handwheel	Pneumatic	Electric		
	Bevel Gear	Hydraulic			



## BRAY SERIES 941 UNIDIRECTIONAL KNIFE GATE VALVES

Size Range	NPS 2 to 24   DN 50 to 600			Body Materials	CF8   CF8M (316 SS)
Pressure Rating	NPS 2 to 24 - 150 psi DN 50 to 600 - 10 bar			Gate Materials	304 SS   316 SS
Body Style	Single Piece - Lug			Seat Materials	Metal   BUNA-N EPDM   FKM   PTFE
Design	MSS SP-81			Stem Materials	304 SS
Testing	MSS SP-151			Packing Materials	Energized Quad Seal with PTFE Anti Extrusion Ring
Face-to-Face	MSS SP-81				
Certification	CRN   PED   UKCA   ATEX UKCA EX			<b>Applications:</b> On/off service and isolation of clean/dirty corrosive or viscous media in pulp and paper, chemical, mining power, and wastewater applications.	
Drilling	ASME B16.5 CL150				
Actuator Options	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		







### BRAY SERIES 942 UNIDIRECTIONAL VORTEX BREAKER KNIFE GATE VALVES

<b>Size Range</b>	NPS 4 to 12   DN 100 to 300			<b>Body Materials</b>	CF8M (316 SS)
<b>Pressure Rating</b>	NPS 4 - 12 - 150 psi DN 100 - 300 - 10 bar			<b>Gate Materials</b>	17-4PH SS H-900
<b>Body Style</b>	Single Piece - Lug			<b>Seat Materials</b>	Hard Faced
<b>Design</b>	MSS SP-81			<b>Packing Materials</b>	High Performance Aramid Packing with Copper Wiper
<b>Testing</b>	MSS SP-151			<b>Vortex Breaker</b>	Hi-Chrome
<b>Face-to-Face</b>	MSS SP-81			<b>Applications:</b> Recycle/rejects in pulp and paper.	
<b>Certification</b>	CE/PED				
<b>Drilling</b>	ASME B16.5 CL150				
<b>Actuator Options</b>	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		



### BRAY SERIES 943 UNIDIRECTIONAL KNIFE GATE VALVES

<b>Size Range</b>	NPS 2 to 24   DN 50 to 600			<b>Body Materials</b>	CF8   CF8M
<b>Pressure Rating</b>	150 psi   10 bar			<b>Gate Materials</b>	304 SS   316 SS   317 SS
<b>Body Style</b>	Single Piece Lug			<b>Seat Materials</b>	Metal   BUNA-N   EPDM FKM   RPTFE
<b>Design</b>	MSS SP-81			<b>Packing Materials</b>	PTFE Impregnated Synthetic Fiber with Quad Seal
<b>Testing</b>	MSS SP-151			<b>Applications:</b> General purpose on/off service and isolation of clean/dirty corrosive, abrasive, viscous, and high temperature media in power, mining, pulp and paper, cement, carbon black, and chemical applications.	
<b>Face-to-Face</b>	MSS SP-81				
<b>Drilling</b>	ASME B16.5 CL150				
<b>Actuator Options</b>	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		



### BRAY SERIES 950 UNIDIRECTIONAL KNIFE GATE VALVES

<b>Size Range</b>	NPS 2 to 24   DN 50 to 600			<b>Body Materials</b>	Ductile Iron
<b>Pressure Rating</b>	NPS 2 - 12 - 150 psi NPS 14 - 24 - 75 psi DN 50 - 300 - 10 bar DN 350 - 600 - 5 bar			<b>Gate Materials</b>	304 SS
<b>Body Style</b>	Single Piece   Semi-Lug			<b>Seat Materials</b>	Metal   BUNA-N EPDM   FKM   PTFE
<b>Design</b>	Manufacturer Standard			<b>Stem Materials</b>	304 SS
<b>Testing</b>	MSS SP-151			<b>Gland Materials</b>	CS
<b>Face-to-Face</b>	MSS SP-81			<b>Packing Materials</b>	PTFE Impregnated Synthetic Fiber
<b>Certification</b>	CRN   PED   UKCA   ATEX UKCA EX			<b>Applications:</b> Heavy-duty on/off service and isolation of dirty, corrosive, abrasive or viscous media in chemical, mining, and power applications.	
<b>Drilling</b>	ASME B16.5 CL150				
<b>Actuator Options</b>	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric		



### BRAY SERIES 953 UNIDIRECTIONAL KNIFE GATE VALVES

<b>Size Range</b>	NPS 2 to 24   DN 50 to 600			<b>Body Materials</b>	Cast Iron
<b>Pressure Rating</b>	NPS 2 - 10 150 psi NPS 12 - 16 90 psi NPS 18 75 psi NPS 20 - 24 60 psi	DN 50 - 250 10 bar DN 300 - 400 6 bar DN 450 5 bar DN 500 - 600 4 bar		<b>Gate Materials</b>	304 SS
<b>Body Style</b>	Single Piece   Semi Lug			<b>Seat Materials</b>	Metal   BUNA-N EPDM   FKM   RPTFE
<b>Design</b>	Manufacturer Standard			<b>Stem Materials</b>	304 SS
<b>Testing</b>	MSS SP-151			<b>Gland Materials</b>	Carbon Steel
<b>Face-to-Face</b>	MSS SP-81			<b>Packing Materials</b>	PTFE Impregnated Synthetic Fiber with Quad Seal
<b>Drilling</b>	ASME B16.5 CL150			<b>Applications:</b> General purpose on/off service and isolation of clean/dirty corrosive, abrasive, viscous, and high temperature media in power, mining, pulp and paper, cement, carbon black, and chemical applications.	
<b>Actuator Options</b>	Handwheel Bevel Gear	Pneumatic Hydraulic	Electric Lever		

## BRAY SLURRYTUFF® - EZI-VAC AIR RELEASE VACUUM BREAK VALVE

<b>Operation</b>	Air Release & Vacuum Break (EV)   Triple Action (ET)   Vacuum Break Only (EB)
<b>Sizes Range</b>	NPS 1 to 16   DN 25 to 400
<b>Rating</b>	ASME Class 150   300   600
<b>Body</b>	Fabricated or Cast Carbon Steel   Stainless Steel   Duplex Steel
<b>Float</b>	High Density Polyethylene or Urethane Coated Aluminum
<b>Outlet Cover</b>	Carbon Steel Standard   Stainless Steel Optional
<b>Connection</b>	Flanged ANSI B16.5 RF Class 150   300   600 (Or as Required)
<b>Seal</b>	Chutex Wear Resistant Natural Rubber Standard   Nitrile   Viton™   EPDM
<b>Gasket</b>	BUNA-N O-ring   Viton™   EPDM   Other Options on Request
<b>Fasteners</b>	Galvanized Carbon Steel   Stainless Steel
<b>Lining (Optional)</b>	Natural Rubber   Nitrile   Urethane   EPDM   Bromobutyl
<b>Finish</b>	2-coat Interzone 954 Epoxy Paint
<b>Testing</b>	API 598
<b>Standard</b>	ASME B16.34   ASME B16.5   ASME B31.3
<b>Option</b>	Non-Slam   Bird Screen   Flush Port   Secondary Release
<b>Applications</b>	Slurries   Chemical   Sand   Pulp   Dewatering and Process Water



## BRAY SLURRYTUFF® - MAXI-CHECK H HIGH WEAR BALL CHECK VALVE (MH)

<b>Sizes Range</b>	NPS 2 to 32   DN 50 to 800
<b>Rating</b>	ASME Class 150   300   600   900
<b>Body</b>	Carbon Steel Standard   Stainless Steel Option
<b>Connection</b>	Flanged ANSI B16.5 RF Class 150   300   600   900 (Or as Required)
<b>Ball</b>	Urethane Coated Aluminum   Silica Bronze   Stainless Steel
<b>Seat</b>	Stainless Steel   Hardened Carbon Steel (Replaceable)
<b>Seal</b>	Molded Rubber (40 Shore hardness) when Required (Replaceable)
<b>Gasket</b>	BUNA-N & Synthetic Fiber   Nitrile   Viton™   EPDM
<b>Fasteners</b>	Galvanized Carbon Steel   Stainless Steel
<b>Lining</b>	Natural Rubber as Standard   Nitrile   EPDM   Bromobutyl
<b>Finish</b>	2-Coat Interzone 954 Epoxy Paint
<b>Applications</b>	Slurries   Chemicals   Sands   Pulp   Dewatering and Ash Disposal





### BRAY SLURRYTUFF® - MAXI-CHECK L LOW WEAR BALL CHECK VALVE (ML)

<b>Size Range</b>	NPS 3 to 24   DN 80 to 600
<b>Rating</b>	ANSI B16.5 150   300
<b>Body</b>	Carbon Steel Standard   Stainless Steel Option
<b>Connection</b>	Flanged ANSI B16.5 Class 150   300 (Or as Required)
<b>Ball</b>	Urethane Coated Aluminum
<b>Seat</b>	Integral Carbon Steel
<b>Gasket</b>	BUNA-N O-Ring   Nitrile   Viton™   EPDM
<b>Fasteners</b>	Galvanized Carbon Steel   Stainless Steel
<b>Lining</b>	Epoxy Coated as Standard   Natural Rubber   Nitrile   EPDM
<b>Finish</b>	2-Coat Interzone 954 Epoxy Paint
<b>Applications</b>	Light Duty   Dewatering   Process Water   Chemical   Wastewater Sewerage   Pulp   Food



### BRAY SLURRYTUFF® MAXI-CHECK I DUAL FUNCTION BALL CHECK ISOLATION VALVE (MI)

<b>Sizes Range</b>	NPS 2 to 30   DN 50 to 750
<b>Actuation</b>	Hand Wheel Actuated Up to DN 450   Bevel Gearbox DN 500-DN 750 and Higher
<b>Option</b>	Electric, Pneumatic or Hydraulic Actuators as Required Proximity Switches are Optional
<b>Rating</b>	ASME B16.5 class 150   300   600   900
<b>Body</b>	Carbon Steel Standard   Stainless Steel Optional
<b>Connection</b>	Flanged ANSI B16.5 RF Class 150   300   600   900 (Or as Required)
<b>Ball</b>	Urethane Coated Aluminum   Silica Bronze   Stainless Steel
<b>Seat</b>	Stainless Steel   Hardened Carbon Steel (Replaceable)
<b>Seal</b>	Molded Rubber (40 Shore hardness) when Required (Seal is Replaceable)
<b>Gasket</b>	BUNA-N O-Ring   Nitrile   Viton™   EPDM
<b>Fasteners</b>	Galvanized Carbon Steel   Stainless Steel
<b>Lining</b>	Natural Rubber as Standard   Nitrile   EPDM   Bromobutyl
<b>Finish</b>	2-coat Interzone 954 Epoxy Paint
<b>Applications</b>	Slurries   Chemicals   Sands   Pulp   Dewatering and Ash Disposal

## CHECK VALVES

### RITE® SERIES 210/212 WAFER CHECK VALVES

<b>Size Range</b>	NPS 1 to 60   DN 25 to 1500
<b>Temp. Range</b>	Cryogenic to High Temperature (pending materials/models selected)
<b>Pressure Ratings</b>	ASME 125   150   300   PN 10/16/25/40
<b>Body Materials</b>	ASTM A126 CLB   ASTM A216 WCB   ASTM A351 CF8M   ASTM A 395 DI (Exotics optional)
<b>Seat Materials (Hard or Soft)</b>	<b>Soft:</b> Integral (as per body) or Seat Ring (A240 304 SS) with O-Ring as BUNA, EPDM, PTFE Virgin, Teflon Encapsulated Silicone, Viton™. <b>Hard:</b> Integral (as per body) or Seat Ring (A240 304 SS)
<b>Disc Materials</b>	ASTM A351 CF8M (Exotics optional)
<b>Spacer</b>	ASTM A479 316 SS (PTFE optional)
<b>Face to Face</b>	Manufacturer Standard <b>Valve Design</b> ASME B16.34
<b>Test Standard</b>	API 598   ASME B16.34
<b>Optional Approvals</b>	CE   CRN   FM   NSF-61   PED   ULC
<b>Optional Special Accessories</b>	H100   SA01   SA1   SA2   SA3   SA4   SA4A   SA6   SA7 SA10   SA16   SA40   SA40A   SA50



### RITE® SERIES 205 WAFER CHECK VALVES

<b>Size Range</b>	NPS 2 to 48   DN 50 to 1200
<b>Temp. Range</b>	Cryogenic to High Temperature (pending materials/models selected)
<b>Pressure Ratings</b>	ASME 125   150   300   600   900   1500   PN 10/16/25/40/64/100
<b>Body Materials</b>	ASTM A126 CLB   ASTM A216 WCB   ASTM A351 CF8M   ASTM A 395 DI (Exotics optional)
<b>Seat Materials (Hard or Soft)</b>	<b>Soft:</b> Integral (as per body) or Seat Ring (A240 304 SS) with O-Ring as BUNA, EPDM, PTFE Virgin, Teflon Encapsulated Silicone, Viton™. <b>Hard:</b> Integral (as per body) or Seat Ring (A240 304 SS)
<b>Disc Materials</b>	ASTM A351 CF8M (Exotics optional)
<b>Spacer</b>	ASTM A479 316 SS (PTFE optional)
<b>Face to Face</b>	API 594 <b>Valve Design</b> API 594
<b>Test Standard</b>	API 598   ASME B16.34
<b>Optional Approvals</b>	API 6FD   CE   CRN   NSF-61   PED
<b>Optional Special Accessories</b>	H100   SA01   SA1   SA2   SA3   SA4   SA4A   SA6   SA7 SA10   SA16   SA40   SA40A   SA50   SA54



### RITE® SERIES 211 FLANGED CHECK VALVES

<b>Size Range</b>	NPS 2 to 42   DN 50 to 1050
<b>Temp. Range</b>	Cryogenic to High Temperature (pending materials/models selected)
<b>Pressure Ratings</b>	ASME 125   150   300   600   900   1500   PN 10/16/25/40/64/100
<b>Body Materials</b>	ASTM A126 CLB   ASTM A216 WCB   ASTM A351 CF8M   ASTM A 395 DI (Exotics optional)
<b>Seat Materials (Hard or Soft)</b>	<b>Soft:</b> Integral (as per body) or Seat Ring (A240 304 SS) with O-Ring as BUNA, EPDM, PTFE Virgin, Teflon Encapsulated Silicone, Viton™. <b>Hard:</b> Integral (as per body) or Seat Ring (A240 304 SS)
<b>Disc Materials</b>	ASTM A351 CF8M (Exotics optional)
<b>Spacer</b>	ASTM A479 316 SS (PTFE optional)
<b>Face to Face</b>	API 594 <b>Valve Design</b> API 594
<b>Test Standard</b>	API 598   ASME B16.34
<b>Optional Approvals</b>	API 6FD   CE   CRN   NSF-61   PED
<b>Optional Special Accessories</b>	H100   SA01   SA1   SA2   SA3   SA4   SA4A   SA6   SA7 SA10   SA16   SA40   SA40A   SA50   SA54



### RITE® SERIES PVC FLANGED CHECK VALVES

<b>Size Range</b>	NPS 2 to 24   DN 50 to 600
<b>Temp. Range</b>	35°F to 140°F   2°C to 60°C
<b>Pressure Ratings</b>	ASME 125   150
<b>Body Material</b>	ASTM D 1784 PVC
<b>Seat Materials (Soft)</b>	Integral (as per body) with O-Ring as BUNA, EPDM, Viton™.
<b>Disc Materials</b>	ASTM A351 CF8M (Exotics optional)
<b>Spacer</b>	ASTM A479 316 SS
<b>Face to Face</b>	Manufacturer Standard <b>Valve Design</b> ASME B16.34
<b>Test Standard</b>	Manufacturer Standard
<b>Optional Special Accessories</b>	SA4A





### RITE® SERIES H100

#### External Hydraulic Damper, Spring and Weight

**Use:** Design slows down the opening of the valve to protect the disc assembly in the last few degrees of travel in fluctuating flow applications.



### RITE® SERIES SA3

#### External Backflush Lever and Spring

**Use:** Design allows manual operation to backflush pipelines and spring applies additional force for valve closure while providing a visual indication of the disc position.



### RITE® SERIES SA01

#### External Spring

**Use:** Design applies additional force for valve closure. Extra force needed to close as it has rapid media with high potential for flow. Design can be used for downward flow application.



### RITE® SERIES SA4

#### External Position Indicator

**Use:** Design allows visual indication of degree of open/close.



### RITE® SERIES SA1

#### External Spring and Weight

**Use:** Design allows additional force for valve closure and additional cracking pressure to the disc which allows for closing time adjustment (decrease/increase). Can be used on applications with mixed solids/liquids. Design can be used for downward flow application.



### RITE® SERIES SA4A

#### External Backflush Lever

**Use:** Design allows manual operation to backflush pipelines while providing a visual indication of the disc position.



### RITE® SERIES SA2

#### External Limit Switch

**Use:** Design allows remote indication signal where required for flow and valve position monitoring in automated control system.



### RITE® SERIES SA6

#### External Basket

**Use:** Design strains impurities, maintains pump prime, and allows valve to close as intended. May include applications with mixed solids/liquids.



## OPTIONAL SPECIAL ACCESSORIES FOR CHECK VALVES



### RITE® SERIES SA7

#### External Fusible Link

**Use:** Design allows fusible link to melt releasing lever allowing disc to close in fire condition to contain spread. Provides failsafe protection and emergency shutoff.



### RITE® SERIES SA40A

#### External Compression Spring and Weight

**Use:** Design allows additional force for valve closure and additional cracking pressure to disc with protected spring. Closing time adjustment (decrease/increase), may include applications with mixed solids/liquids. Design can be used for downward flow application.



### RITE® SERIES SA10

#### External Weights

**Use:** Design allows additional cracking pressure to the disc. Weight #1 is used to adjust cracking pressure and Weight #2 is used to counterbalance the disc. For use on low flow rate applications (blowers).



### RITE® SERIES SA50

#### External Compression Spring, Hydraulic Damper and Weight

**Use:** Design allows additional force for valve closure with protected spring, which slows down valve opening to protect the disc assembly in the last few degrees of travel. Additional cracking pressure to the disc is applied for fluctuating flow applications.



### RITE® SERIES SA16

#### External Weight

**Use:** Design allows additional cracking pressure to open disc, and torque to close. Design can be used for downward flow application.



### RITE® SERIES SA40

#### External Compression Spring

**Use:** Design allows additional force for valve closure with protected spring. Extra force is needed to close as it has rapid media with high potential for flow. Design can be used for downward flow application.



### RITE® SERIES SA54

#### External Compression Spring, Reversible

**Use:** Design allows additional force for valve closure with protected spring to suit various installation directions. Extra force needed to close as it has rapid media with high potential for flow. Site reversible orientation from left/right hand mount.





S92 Double Acting



S93 Spring Return



Extreme High Temperature Actuator



Stainless Steel Actuator

## BRAY SERIES 92/93

Rack and pinion actuators available in double acting and spring return

## SPECIFICATIONS

<b>Output Torque</b>	Double Acting up to: 44,130 lb-in   4,986 N m	
	Spring End Torque up to: 14,173 lb-in   1,601 N m	
<b>Pressure Range</b>	40 - 140 psi   2.8 - 10 bar	
<b>Temperature Range<sup>1</sup></b>	Standard	-4°F to 200°F   -20°C to 93°C
	Low	-40°F to 176°F   -40°C to 80°C
	High	0°F to 300°F   -18°C to 149°C
	Extreme High Temperature	0°F to 482°F   -18°C to 250°C
<b>Supply Media</b>	Dry Compressed Air/Inert Gas*	
<b>Series 92 Double Acting</b>	Available in 90°   135°   180° rotation	
<b>Series 93 Spring Return</b>	Available in 90° Rotation	
<b>Direct Mounting</b>	ISO 5211: 2001(E)	
<b>Control Options</b>	On-Off   Modulating   Double Acting Spring Return	
<b>Power Source</b>	Pneumatic	
<b>Enclosure Ratings</b>	IP66/IP67M per IEC 60529	
<b>Options</b>	Single or Double Acting   Extended Travel Stops	
<b>Valve Compatibility</b>	Butterfly Valves   Ball Valves	

\*Contact factory for other media or non-standard temperature range.

1. Cycle life on low and high temperature seal kits is reduced compared to standard BUNA-N seals.

## CERTIFICATIONS AND APPROVALS

ABS | ATEX | Bureau Veritas | PED | SIL 3

## FEATURES

- > Series 92/93 is completely enclosed and self contained
- > Minimal maintenance
- > Safe, simple disassembly and assembly.
- > Two independently adjustable travel stop screws and a cam on the output shaft to permit precise bidirectional adjustment of movement in both the open and closed positions for quarter turn valves (+5° to -5° limit adjustment)
- > Integral porting
- > Standard units have anodized aluminum bodies with polyester coated end caps
- > Optional Seacorr® coating for harsh environments
- > SIL 3 capable
- > NAMUR accessory compatible



### BRAY SERIES 98 PNEUMATIC

<b>Media<sup>1</sup></b>	Dry Compressed Air   Inert Gas   Natural Gas
<b>Pressure Range</b>	40 to 150 psi   2.8 to 10.3 bar
	Standard -20°F to 200°F   -29°C to 93°C
<b>Temperature Range<sup>1</sup></b>	High Temperature Up to 300°F   Up to 149°C
	Low Temperature Down to -50°F   Down to -46°C
<b>Torque Output</b>	Double Acting 1787 lbf-in to 885,100 lbf-in Double Acting 220 N m to 100,000 N m
<b>Spring End Torque</b>	2,741 to 445,261 lbf-in   310 to 50,306 N m
<b>Torque Base</b>	Mounting Dimensions as per ISO 5211: 2017
<b>Accessories</b>	Shaft Driven Accessories   Mounting per NAMUR-VDE
<b>Performance Testing</b>	EN 15714-3:2009
<b>Ingress Protection</b>	IP67M per IEC 60529
<b>Safety</b>	ATEX   SIL 3 suitable   PED on request

1 Contact factory for other media or non-standard temperature range.



### BRAY SERIES 98H HYDRAULIC

<b>Media<sup>1</sup></b>	Hydraulic Fluid - Standard Trim ISO VG 32/46, ISO-L-HV
<b>Pressure Range</b>	500 to 3000 psi   35 to 207 bar
	Standard: -20°F to 212°F   -29°C to 100°C
<b>Temperature Range<sup>1</sup></b>	Low Temperature: Down to -50°F   Down to -46°C
	PED: -20°F to 176°F   -29°C to 80°C
<b>Torque Output</b>	Double Acting 730 lbf-in to 885,100 lbf-in Double Acting 84 N m to 100,000 N m
<b>Spring-End Torque</b>	2,741 to 445,261 lbf-in   310 to 50,306 N m
<b>Mounting Base</b>	ISO 5211: 2017
<b>Accessory Mounting</b>	NAMUR-VDE (Shaft Driven)
<b>Performance Testing</b>	EN 15714-4:2009
<b>Ingress Protection</b>	IP67M and IP68 per IEC 60529
<b>Safety</b>	ATEX   SIL 3 suitable   PED on request

1 Contact factory for other media or non-standard temperature range.



### BRAY SERIES 98C COMPACT

<b>Media<sup>1</sup></b>	Dry Compressed Air   Inert Gas   Natural Gas
<b>Pressure Range</b>	40 to 150 psi   2.8 to 10.3 bar
	Standard -20°F to 200°F   -29°C to 93°C
<b>Temperature Range<sup>1</sup></b>	High Temperature Up to 300°F   Up to 149°C
	Low Temperature Down to -50°F   Down to -46°C
<b>Torque Output</b>	Double Acting 699 lbf-in to 17,701 lbf-in Double Acting 79 N m to 2,000 N m
<b>Spring End Torque</b>	490 to 8,921 lbf-in   55 to 1,008 N m
<b>Torque Base</b>	Mounting Dimensions Options per ISO 5211
<b>Accessories</b>	Shaft Driven Accessories Mounting Adaptation as per NAMUR-VDE
<b>Performance Testing</b>	EN 15714-3:2022
<b>Ingress Protection</b>	IP66, IP67M & IP68 per IEC 60529
<b>Safety</b>	ATEX   SIL 3 suitable   PED

1 Contact factory for other media or non-standard temperature range.

## SYMMETRICAL OR CANTED YOKES

The heart of the Series 98 actuator is the scotch yoke. This mechanism converts linear motion into rotational motion. The piston and/or springs directly couple to a rotating yoke with a slot that engages the sliding blocks.

This type of actuator has a distinct torque curve, which starts high, then dips toward the middle of the stroke, and ends with increasing torque — offering an inherent optimization of torque requirements associated with many valve applications.



### SYMMETRICAL YOKE

- > Torque output curve is balanced.
- > Torque demands are similar at seat break and end positions.



### CANTED YOKE

- > Torque output curve is shifted.
- > Torque demands are not the same at seat break and end positions.
- > Applications for optimizing the torque output vs shaft angle curve.

## SCOTCH YOKE COMMON FEATURES

- > Compact design offers a high torque-to-weight ratio.
- > Modular design offers multiple configurations, providing flexibility and efficiency at reduced cost.
- > Module alignment ensured by precision machined centering rings.
- > Symmetrical yoke or canted yoke options available to meet a broad range of application torque requirements.
- > Optimized for ISO 5211 mounting bases, with fully configurable direct-mount accessories.
- > Easy field configuration and simplified maintenance.
- > Premium epoxy/polyurethane coating as standard.

## EMERGENCY SHUTDOWN CAPABILITY

- > Fast Acting (less than one second)
- > Rugged Design
- > Customizable Configurations
- > Manual and Automatic Release Options
- > Certified Safety Integrity Level 3 (SIL) per IEC 61508

## MODULAR DESIGN

### PRESSURE MODULE

- > Pneumatic

### TORQUE MODULE

- > Symmetrical or Canted Yoke

### HAND PUMP

- > Hand Pump for Hydraulic Override

### DIRECT ACTING OR SPRING RETURN MODULES

- > Jackscrew Direct Drive Override
- > Jackscrew Gear Driven Override
- > Hydraulic Override
- > Extended Travel Stop
- > Hydraulic Damper
- > Partial Stroke Testing/Locking Device



## OPTIONS

### DAMPER

- > Provides self contained hydraulic cushioning at the end of high speed stroke, preventing slamming and seat damage to the valve, as well as shock to the piping. (Available for Double Acting or Spring Return.)



### PARTIAL STROKE DEVICE

- > Allows ESD valve function verification without disrupting the running process.





Compact Automation

### COMPACT AUTOMATION

<b>Hydraulic Break to Open Torque Range</b>	730 lb-in to 885,100 lb-in   84 N m to 100,000 N m
<b>Spring-Ending Torque Range</b>	2,741 lb-in to 445,261 lb-in   310 N m to 50,306
<b>Supply Voltage</b>	12 or 24 VDC or 48VDC 120 - 220 VAC 480 V 3-Phase 50/60 Hz Solar or wind charged power packs
<b>Control Signal</b>	4-20mA 12 or 24 VDC or 48 VDC 120 - 220 VAC Network Protocols

Rugged and repeatable performance under the most challenging conditions.



Custom Built Automation Packages



Custom Built Linear Actuators

### KEY FEATURES

- > Completely Self-Contained
- > Electric On/Off Failsafe
- > Continuous Modulating Duty
- > Precise Controllability and Repeatable Accuracy
- > Adjustable Opening and Closing Speeds
- > Weather-Proof or Explosion-Proof Construction
- > Fail Freeze, Fail Last, Fail Open Or Fail Close Using Spring or Stored Accumulator Energy
- > ESD and PST Capable
- > Line Break Protection
- > SIL Capable
- > UL | FM | ATEX | CSA Certifications
- > Manual Hydraulic Override
- > Custom Built Options Available

### APPLICATIONS

- > Power Generation
- > Mining and Minerals
- > Refining
- > LNG Facilities
- > Gas Pipelines
- > Liquid Pipelines
- > Water / Wastewater
- > Oil and Gas Exploration and Production
- > Pulp and Paper Plants

SERIES 70 ELECTRIC ACTUATOR



SPECIFICATIONS

Output Torque	120V AC, 220V AC	300 to 18,000 lb-in   34-2034 Nm
	24V AC/DC	S70-E06: 600 lb-in   68 Nm
		S70-E08: 800 lb-in   90 Nm
		S70-E20: 2,000 lb-in   226 Nm
		S70-050: 5,000 lb-in   565 Nm
Control Options	On/Off	Interposing Relay Board (I.R.B) - 120V AC, 220V AC
		On/Off NXT Controller - 24V AC/DC
	Modulating	Servo NXT Controller 120V AC, 220V AC, 24V AC/DC
	Communication Protocols	EtherNet/IP™ 120V AC, 220V AC, 24V AC/DC
Voltages	120V, 220V AC, 50/60 Hz, 1-phase 24V AC/VDC	
Enclosure Ratings	NEMA Type 4, Type 4X   IP65   IP67 (IP67 does not include S70-130/131 and 180/181)	
Mounting	ISO-5211 & MSS SP-101	
Motor	120V, 220V AC, 1-phase   Reversible, Permanent Split Capacitor Induction Motor	
	24 V: Permanent Magnet Brushed DC Motor	
Temp. Range	-22°F to +150°F   -29°C to +65°C	
Switch Options	2 SPDT Mechanical Switches Standard	
	Additional Auxiliary Switches Available (up to 6 total)	
	Optional Torque Switches Available	
Duty Rating	Continuous Duty - Will Operate Continuously at Max Ambient Temperature of 104°F   40°C	
	Intermittent Duty - One Motor-On Period, followed by Three Motor-Off Periods	

CERTIFICATIONS & APPROVALS

UL | CSA and CE Approved (most 120V models)

24V & 220V: CE Approved

**NOTE:** For a complete list of certifications by product, please consult your local Bray representative.



SERIES 76 ELECTRIC ACTUATOR



SPECIFICATIONS

<b>Voltage</b>	3 Phase: 220V, 380V & 460V AC   1 Phase: 110V, 220V & 240V AC   24V DC, 24V AC/DC	
<b>Torque Rating</b>	3 Phase: Torque up to 79,000 lb-in (9,000 Nm)   1 Phase: Torque up to 26,500 lb-in (3,000 Nm)	
<b>Enclosure Ratings</b>	NEMA: Type 4, Type 4X, Type 6   Ingress Protection: IP66, IP67   Submersible: IP68 (Optional)	
<b>Main Housing</b>	High Grade Aluminum Alloy   Anodized Interior and Exterior   Polyester Powder Top Coated	
<b>Mounting</b>	ISO 5211 & MSS SP-101	
<b>Ambient Temperature</b>	-4°F to +140°F (-20°C to +60°C)   Optional: -40°F to +140°F (-40°C to +60°C)	
<b>Conduit Entries</b>	Weatherproof: > Sizes 1 thru 5 = 3x 3/4" NPT or 3x M20 > Sizes 6 thru 7 = 2x 3/4" NPT + 1 x 1" NPT or 2x M20 + 1x M25	Explosionproof: > 2x 3/4" NPT or 2x M25
<b>Lubrication</b>	Grease Moly EP Type	
<b>Duty Cycle</b>	S4 Per EN 60034-1	
<b>Control Options</b>	Potentiometer: 1k Ohm Position Transmitter: Output Signal: 4-20mA Modulating: 0-20mA   4-20mA   0-5V   1-5V   0-10V   2-10V Local Control Station	
<b>Motor</b>	Squirrel Caged AC Induction Motor > Class F Motor Insulation 311°F (155°C) > Embedded Thermal Protection 275°F (135°C)	
<b>Drive Bushing</b>	Removable Drive Bushing	
<b>Manual Override</b>	Declutch Mechanism, which can be Padlocked	
<b>Position Indicator</b>	Top Mount Visual Position Indicator	
<b>Travel</b>	90 degrees +/- 5°	

CERTIFICATIONS & APPROVALS

NEMA Type 4, Type 4X & Type 6	Flameproof: Ex db IIB T4
IP66   IP67	Dust: Ex tb IIIC T135°C
IP68 Certified for Submersible Applications (32 ft   72 hours)	Weatherproof: FCC   ICES   CE   UKCA   CSA
CSA   CE   UKC	Explosionproof: ATEX   IECEx   CSA





## BRAY SERIES 6A ELECTRO-PNEUMATIC POSITIONER

- > Smart Digital Positioner for Precise Control of Valve in Various Applications
- > Low Air Consumptions Thanks to Zero Bleed Design
- > Compatible with Rotary or Linear Actuators for Single and Double Acting Applications
- > Various Enclosure Options Available to Withstand Challenging Environmental Conditions
- > Equipped with On-Board Diagnostics Checks to Support Preventative and Efficient Maintenance
- > Local User Interface for Quick and Easy Positioner Configuration
- > Modular Design Capable of Field Upgradeable Options
- > Integral Volume Booster Available for Fast Operation of Large Valves
- > Fail Safe, Fail in Place, Fail to Open Options Available
- > Advanced Communications Via PROFIBUS PA, Foundation Fieldbus and HART



## BRAY SERIES 6P PNEUMATIC POSITIONER

- > Pneumatic to Pneumatic Positioner for Single and Double Acting Actuators
- > Rugged Aluminum Die Cast Housing for Harsh Environments
- > Minimal Setup Time for Zero and Span Adjustment
- > Split Range Capabilities
- > High Visibility Dome Position Indicator
- > Optional 2 x SPDT Mechanical Switches



## BRAY SERIES 5A, 5B AND 5C VALVE STATUS MONITORS

- > Discrete Status Monitor for Quarter Turn Rotary Actuators
- > All Models: NEMA 4, 4X and IP66 and IP67 Ingress Protection
- > Model 5A/B Resin and 5C Aluminum:  
NEMA 4, 4X and IP66, IP67 and IP68 Ingress Protection
- > Intrinsically Safe Or Explosion-Proof Options for Hazardous Locations
- > High Visibility Dome Position Indicator
- > Up to 6 SPDT Switches or Non-Contacting Proximity Switches
- > Switches Pre-Wired to Internal Terminal Block
- > Available in Die-Cast Aluminum Housing Coated with 2-Layers of Polyester or Fiberglass Reinforced PBT Housing for Highly Corrosive Environments



## BRAY SERIES 54 VALVE PROXIMITY SENSOR

- > Dual Proximity Sensors for Valve Position
- > IP66, IP67, IP69K Ingress Protection Available
- > Available Solenoid Outputs
- > 2 or 3 wire DC, AC/DC, intrinsically Safe, and AS-i interface
- > Pin Connector or Conduit Versions Available



## BRAY SERIES 63 SOLENOID VALVES

- > Weatherproof NEMA 4, 4X and explosion proof housings available
- > Flying leads or DIN connectors, single or dual coil
- > 5/2 or 3/2 operation
- > NAMUR mounted
- > High Flow up to 1.4 Cv
- > Intrinsically Safe Versions Available
- > Available Voltages: 12, 24 VDC; 24, 110, 220 VAC

SINCE 1986, BRAY HAS PROVIDED FLOW CONTROL SOLUTIONS  
FOR A VARIETY OF INDUSTRIES AROUND THE WORLD.

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BRAY PRODUCTS AND LOCATIONS NEAR YOU.

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