# BRAY CONTROLS PRODUCT PROFILE







# **Bray Tri Lok® - Triple Offset Valve High Pressure • Zero Leakage Metal To Metal Sealing**

## **SEAT & SEAL RING**

Field replaceable seat and seal ring system extends the overall life, without the need for costly off site repairs or total replacement.

#### **STEM**

Tri Lok's unique splined disc-to-stem connection minimizes hysteresis, eliminates external connections and allows for easy assembly and disassembly. Tri Lok features a one piece stem with a blow out prevention ring located outside the pressure boundary, in accordance with international standards.

# **PACKING**

Fully adjustable, field replaceable stem seal system eliminates fugitive emissions.

## **LOW FUGITIVE EMISSIONS**

Tri Lok is certified to the most stringent fugitive emissions standards including API 641 and ISO/5848-1.



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



# McCannalok - Double Offset **Butterfly Valve**

# **High Pressure & Temperature**

The Bray McCannalok's innovative seat design offers easy maintenance and industry leading performance in high and low pressure services.

Available with low temperature, cryogenic, metal to metal, and fire safe seat designs; the Bray McCannalok offers robust performance in some of the most demanding applications.

The cryogenic Bray McCannalok offers industry leading shut off for the air separation industry.

The metal meated Bray McCannalok offers low torque performance while providing customers with a rugged control or isolation valve for abrasive and harsh chemical applications.

The fire safe Bray McCannalok is validated to the latest industry standards and is offered in a low temperature configuration for ship building.



Size Range	2" - 66" (50mm - 1500mm)		
Body Style	Wafer   Lug	Double Flanged	
Temperature Range	-320°F to 900°	°F (-196°C to 482°C)	
Pressure Rating	ASME Class 1	50, 300, 600	
Shut Off Class	Zero Leakage ii	Zero Leakage in Normal and Dead End Service	
Body Materials	Carbon Steel	Carbon Steel   Stainless Steel   Nickel Aluminum Bronze	
Disc Materials	Stainless Steel   Nickel Aluminum Bronze		
Stem Materials	Stainless Steel   Monel® K500		
	Resilient Seat	RPTFE with Resilient Energizer   PTFE with Resilient Energizer	
	Fire Safe	RPTFE and Inconel® with Resilient Energizer	
Seat Materials Polar® Engineered		Engineered Thermoplastic	
	Metal Seat	Inconel*	
	Low Temp.	TFM with Resilient Energizer	
Applications	High Pressure	High Temperature   Low Temperature   Cryogenic Service   Critical Service	



# **RESILIENT SEATED BUTTERFLY VALVES**

# **SERIES 20/21**

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



# **SERIES 22/23**

J_1(1_5		
Size Range	2" - 24" (50mm - 600mm)	
Body Style	Wafer, Lug	
Temperature Range	0°F to 392°F (-18°C to 200°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off   150 psi (10.3 bar)	
<b>Body Materials</b>	Ductile Iron, Carbon Steel, Stainless Steel	
Disc/Stem Materials	Stainless Steel, PTFE/SS, UHMWPE/SS, UHMWPE/DI, Hastelloy®, Titanium, PFA/SS	
Seat Materials	PTFE, Conductive PTFE, UHMWPE	
Applications	Highly Corrosive, Toxic Media, Ultra Pure Water	



# **SERIES 30/31**

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



# **SERIES 31H**

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



# **RESILIENT SEATED BUTTERFLY VALVES**





# **BRAY ACRIS® SERIES 24/25**

Size Range	NPS 2 to 24   DN 50 to 600	
Body Style	2-piece Wafer, Lug	
Temperature Range	-20°F to 320°F   -29°C to 160°C	
Pressure Ratings	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	
Body Materials	Ductile Iron	
Shutoff Rating	Zero leakage	
Disc/Stem Materials	17-4 Stainless Steel with over-molded PFA disc	
Liner Material	PFA	
Seat Energizer Material	Silicone   Viton™	
Applications	Corrosive Chemical   Semiconductor   Ultrapure Water	



# **SERIES 31U**

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



# **SERIES 3A/3AH**

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



# **SERIES 39L**

SERIES SSE		
Size Range	2" - 20" (50mm - 500mm)	
Body Style	Wafer, Flanged Long Body	
Temperature Range	-20°F to 300°F (-29°C to 150°C)	
Pressure Rating	230 psi (16 bar)	
Shut Off Rating	> Class 4	
Body Materials	Ductile Iron, Stainless Steel	
Disc Materials	Chrome-Molly Iron (Hardened), PSZ Ceramic (Partially Stabilized Zirconia)	
Stem Materials	Stainless Steel	
Liner Materials	Ceramic (Sintered Silicone Carbide), Metallic Carbide Rich, Chrome Iron Alloy	
Applications	Highly Abrasive, Slurry Control	



# **RESILIENT SEATED BUTTERFLY VALVES**

# **SERIES 32/33 & 35/36**

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



## **SERIES 36H**

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



# **SERIES 35F**

Size Range	32" - 60" (800mm - 1500mm)	
Body Style	Full Flanged	
Temperature Range	-20°F to 250°F (-29°C to 121°C)	
Pressure Ratings	Bidirectional Bubble Tight Shut Off	75 psi (5.2 bar)
Body Materials	Cast Iron, Ductile Iron, Hastelloy®	
Disc Materials	Duplex Stainless Steel, Super Austenitic Stainless Steel, Hastelloy®	
Stem Materials	Stainless Steel	
Seat Materials	Bonded BUNA-N, Bonded EPDM	
Applications	FGD, Mining, Seawater	



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

 ${\sf FKM}\ is\ the\ ASTM\ D1418\ designation\ for\ Fluorinated\ Hydrocarbon\ Elastomers\ (also\ called\ Fluoroelastomers)\ Hastelloy^*\ is\ a\ registered\ trademark\ of\ Haynes\ International,\ Inc.\ ASTM\ D1418\ designation\ for\ Fluorinated\ Hydrocarbon\ Elastomers\ (also\ called\ Fluoroelastomers)\ Hastelloy^*\ is\ a\ registered\ trademark\ of\ Haynes\ International,\ Inc.\ ASTM\ D1418\ designation\ for\ Fluorinated\ Hydrocarbon\ Elastomers\ (also\ called\ Fluoroelastomers)\ Hastelloy^*\ is\ a\ registered\ trademark\ of\ Haynes\ International,\ Inc.\ ASTM\ D1418\ designation\ for\ Fluorinated\ Hydrocarbon\ Elastomers\ (also\ called\ Fluoroelastomers)\ Hastelloy^*\ is\ a\ registered\ trademark\ of\ Haynes\ International,\ Inc.\ ASTM\ D1418\ designation\ for\ Fluorinated\ Hydrocarbon\ Elastomers\ (also\ called\ Fluoroelastomers\ Hydrocarbon\ Elastomers\ Hydrocarbon\ Hydr$ Halar" is a registered trademark of Solvay Solexis, Inc.





#### **Peroxide Cured EPDM**

-20°F to 250°F (-29°C to 121°C)

#### **HTEPDM**

-20°F to 300°F (-29°C to 150°C)

#### **BUNA-N (Black or White)**

0°F to 212°F (-18°C to 100°C)

#### **FKM**

0°F to 400°F (-18°C to 204°C)

#### **Polyurethane**

-20°F to 175°F (-29°C to 80°C)

#### **Neoprene Seat (Black Or White)**

0°F to 180°F (-18°C to 82°C)

#### **PTFE Lined EPDM**

-20°F to 250°F (-29°C to 121°C)

#### **PTFE Lined HTEPDM**

-20°F to 300°F (-29°C to 150°C)

## **Virgin PTFE**

0°F to 400°F (-18°C to 204°C)

#### **Conductive PTFE**

0°F to 400°F (-18°C to 204°C)

#### **UHMWPE**

0°F to 185°F (-18°C to 85°C)

**PEROXIDE CURED EPDM** food grade seats are standard and perfectly suitable for sanitary applications as well as standard industrial uses.

**HTEPDM** is a proprietary rubber blend offered by Bray to increase the thermal resistance properties of standard EPDM and is formulated to provide long term service at elevated temperatures for hot water. HTEPDM Food Grade seats are suitable for sanitary applications as well as standard industrial uses.

BUNA-N (Black or White) is an excellent general purpose seat material which is particularly suitable for hydrocarbon service.

**FKM** has improved acid, oil, and temperature resistance over standard seat materials.

**POLYURETHANE** will withstand severe impact, recover its original shape after distortion and resist abrasion better than other elastomers.

**NEOPRENE** (Black or White) is an all-purpose polymer with desirable characteristics including high resiliency with low compression, resistance for vegetable and animal oil, and flame resistance. This sealing material is excellent for

refrigerants, ammonia and freon, and is principally used in pulp and (non-bleached) paper lines. Neoprene is not recommended for strong oxidizing acids, chlorinated solvents, esters, ketones, aromatic hydrocarbons or hydraulic fluids. White neoprene is generally used in sanitary applications while the black grade provides better abrasion and oil resistance than the white grade neoprene.

PTFE LINED EPDM seats are usually used where BUNA-N and EPDM seats are not chemically suitable, especially in corrosive services.

**VIRGIN PTFE** inherent molecular bonding provides optimum protection against permeation of the line media.

**CONDUCTIVE PTFE** seats combine electrostatic discharge protection and the excellent chemical resistance properties of PTFF.

**UHMWPE** provides exceptional chemical resistance, and are the ideal choice for highly abrasive chemical applications.

Seat material availability depends on valve size and series. Please consult your local Bray representative for your specific application as the pressure and temperature of service also affect seat life and performance.



## **SERIES 70 ELECTRIC ACTUATOR**



## **SPECIFICATIONS**

SPECIFIC	ATIONS		
Output	120/230 V	300 to 18,000 lb-in   34-2034 N m	
Torque	24 V	S70-E06: 600 lb-in   68 N m	
		S70-E20: 2,000 lb-in   226 N m	
		S70-050: 5,000 lb-in   565 N m	
Control Options	On/Off	Interposing Relay Board (I.R.B) 120/230 VAC	
		On/Off NXT Controller 24VAC/DC	
	Modulating	Servo NXT Controller 120/230 VAC/24 VAC/DC 4-20 mA, 0-10 V, 0-5 V, 2-10 V	
	Communication Protocols	Analog   DeviceNet   EtherNet/IP	
Voltages	120/230 VAC 50/60 Hz, 1-phase 24 VAC/VDC		
Enclosure Ratings	NEMA 4, 4x, 7, 9 and IP65, IP67 (IP67 does not include S70-130/131 and 180/181) Class I, DIV 1 & 2, Group C, D Class II, DIV 1 & 2, Group E, F, G		
Mounting	IS05211		
Motor	120/230 VAC: 1-phase, reversable, permanent split capacitor induction motor		
	24 V: Permanent magnet brushed DC Motor		
Temp. Range	-20°F to 150°F   -29°C to +65°C		
Switch	2 SPDT mechanical switches standard		
Options	Additional auxiliary switches available (up tp 6 total)		
	Optional torque switches available		
Duty Rating	Continious Duty	Will operated continuously at max ambient temperature of 104°F   40°C	
	Intermittent Duty	One motor-on period followed by three motor-off periods	

#### **CERTIFICATIONS AND APPROVALS**

UL, CSA and CE approved (most 120V models)

70-24V: CE approved

**NOTES:** A complete listing of certifications and approvals can be found at BRAY.COM

# **SERIES 76 ELECTRIC ACTUATOR**



## **SPECIFICATIONS**

(110143
3 Phase: 220V, 380V & 460V 1 Phase: 110V, 220V & 240VAC 24V DC, 24V AC/DC
3 Phase: Torque up to 79,000 in-lbs (9,000 Nm) 1 Phase: Torque up to 26,500 in-lbs (3,000 Nm)
NEMA: 4, 4X, 6 Ingress Protection: 66/67 Submersible: IP68 (Optional)
High grade aluminum alloy Anodized interior and exterior Polyester powder top coated
Top mount visual position indicator
90 degrees +/- 5°
Squirrel Caged AC Induction Motor Class F Motor Insulation 311F(155C) Embedded thermal protection 275F (135C)
S4 Per EN 60034-1
Potentiometer: 1K Ohm Position Transmitter: Output Signal: 4-20mA dc Modulating: 0-20mA, 4-20mA, 0-5V, 1-5V, 0-10V, 2-10V Local Control Stations
-4°F   -20°C to 140°F   +60°C -40°F  -40°C to 140°F  +60°C Opt.
<b>Weatherproof:</b> Sizes 1 thru 5 = 3x 3/4" NPT or 3x M20 Sizes 6 thru 7 = 2x 3/4" NPT + 1x 1"NPT or 2x M20 + 1x M25
Explosionproof: 2x 3/4" NPT or 2x M25
Removable Lug Drive
ISO 5211   MSS SP-101
Grease moly EP
Declutch mechanism, which can be padlocked

## **CERTIFICATIONS AND APPROVALS**

Weatherproof: FCC, ICES, CE, UKCA, CSA

Explosionproof: FCC, ICES, ATEX, IECEx, CSA









Extreme High Temperature Actuator



Stainless Steel Actuator

# **BRAY SERIES 92/93**

Rack and pinion actuators available in double acting and spring return

#### **SPECIFICATIONS**

Output Torque	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	
Pressure Range	40 - 140 psi   2.8 - 10 bar	
	Standard	-4°F to 200°F   -20°C to 93°C
	Low	-40°F to 176°F   -40°C to 80°C
Temperature Range <sup>1</sup>	High	0°F to 300°F   -18°C to 149°C
	Extreme High Temperature	0°F to 482°F   -18°C to 250°C
Supply Media	Dry Compressed Air   Inert Gas*	
Series 92 Double Acting	Available in 90°, 135°, 180° rotation	
Series 93 Spring Return	Available in 90° Rotation	
Direct Mounting	ISO 5211: 2001(E)	
Testing Standard	EN 15714-3:2009	
Control Options	On-Off   Modulating   Double Acting   Spring Return	
Power Source	Pneumatic	
Enclosure Ratings	IP66/IP67M per IEC 60529	
Options	Single or Double Acting   Extended Travel Stops	
Valve Compatibility	Butterfly Valves   Ball Valves	

<sup>\*</sup>Contact factory for other media or non-standard temperature range.

#### **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

## **CERTIFICATIONS AND APPROVALS**

ABS | ATEX | Bureau Veritas | PED | SIL 3

 $<sup>{\</sup>bf 1}$  Cycle life on low and high temperature seal kits is reduced compared to standard BUNA-N seals.

# **SCOTCH YOKE ACTUATORS**



# **BRAY SERIES 98 PNEUMATIC**

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

<sup>1</sup> Contact factory for other media or non-standard temperature range.



# **BRAY SERIES 98H HYDRAULIC**

Media <sup>1</sup>	Hydraulic Fluid - Standard Trim ISO VG 32/46, ISO-L-HV, flash point>157°C
Pressure Range	500 to 3000 psi   35 to 207 bar
	Standard: -20°F to 212°F   -29°C to 100°C
Temperature Range <sup>1</sup>	Low Temperature: Down to -50°F   Down to -46°C
	PED: -20°F to 176°F   -29°C to 80°C
Torque Output	Double Acting 730 lb-in to 885,100 lb-in   Double Acting 84 N m to 100,000 N m
Spring-End Torque	2,741 to 445,261 lb-in   310 to 50,306 N m
Mounting Base	ISO 5211: 2017
Accessory Mounting	NAMUR-VDE (Shaft Driven)
Performance Testing	EN 15714-4:2009
Ingress Protection	IP67M and IP68 per IEC 60529
Safety	ATEX   SIL 3 suitable   PED on request
	•

<sup>1</sup> Contact factory for other media or non-standard temperature range.



# **BRAY SERIES 98EH**

Torque Output	Double Acting 730 lb-in to 885,100 lb-in   Double Acting 84 N m to 100,000 N m
Spring-End Torque	2,741 lb-in to 445,261 lb-in   310 N m to 50,306 N m
Supply Voltage	12 or 24 VDC or 48 VDC   120 - 220 VAC   480 V 3-Phase   50/60 Hz Solar or wind charged power packs
Control Signal	4-20mA or 0-10VDC   12 or 24 VDC or 48 VDC   120 - 220 VAC Network Protocols

Rugged and repeatable performance under the most challenging conditions.



# **BRAY SERIES 93EH ELECTRIC FAIL-SAFE**

Torque Output	Double Acting 75 lb-in to 44,130 lb-in   Double Acting 9 N m to 4,986 N m
Spring-End Torque	24 lb-in to 14,173 lb-in   3 N m to 1,601 N m
Supply Voltage	12 or 24 VDC or 48VDC  120 - 220 VAC   50/60 Hz Solar or wind charged power packs
Control Signal	4-20mA or 0-10VDC   2 or 24 VDC or 48 VDC   120 - 220 VAC Network Protocols

Compact tubeless configurations are excellent where space and weight consideration is important.



## SERIES 6A ELECTRO-PNEUMATIC POSITIONER

- > Precision digital control
- > Zero bleed design
- > Compatible with rotary or linear actuators for single and double acting applications
- > Various housing options available
- > Precise, microprocessor driven flow control and advanced communication
- > Non-contacting position sensor technology
- > Integral volume booster
- > Connective and preventative maintenance self-diagnostic checks



## SERIES 6P PNEUMATIC POSITIONER

- > Pneumatic to pneumatic positioner for single and double acting actuators
- > Rugged aluminum diecast 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



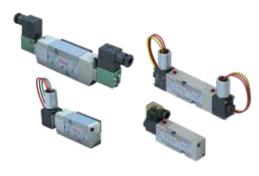
## **SERIES 5A, 5B AND 5C VALVE STATUS MONITORS**

- > Discrete status monitor for quarter turn rotary actuators
- > NEMA 4, 4X and IP66 and IP67 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



## **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



## **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.

VISIT **BRAY.COM** TO LEARN MORE ABOUT BRAY PRODUCTS AND LOCATIONS NEAR YOU.

## **HEADQUARTERS**

**Bray International, Inc.** 13333 Westland East Blvd. Houston, Texas 77041 Tel +1.281.894.5454

All statements, technical information, and recommendations in this bulletin are for general use only. Consult Bray representatives or factory for the specific requirements and material selection for your intended application. The right to change or modify product design or product without prior notice is reserved. Patents issued and applied for worldwide. Bray\* is a registered trademark of Bray International, Inc.

© 2024 BRAY INTERNATIONAL, INC. ALL RIGHTS RESERVED. BRAY.COM

EN\_B-1008\_Bray Controls Product\_Profile\_2024-08-19

