



Bray CONTROLS

BRAY / McCANNALOK
Cryogenic & Low Temperature
High Performance Butterfly Valves

Polar Seat™



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High Performance Butterfly Valves



FEATURES

- Wafer, Lug and Double Flanged bodies
- ASME Class 150
3" - 12" (80 - 300mm)
Unique composite seat design
- High-strength, one-piece stem
- Anti-blowout design
- Easily accessible and adjustable stem packing
- Disc engineered to maximize flow

Cryogenic Bray/McCannalok (White Polar Seat)



Bray's unique field replaceable Polar Seat, engineered for the Bray/McCannalok, meets industry requirements and standards for cryogenic and low temperature High Performance Butterfly Valves. Cryogenic service valves utilize the white Polar Seat and an extended bonnet which positions the packing system and the actuator away from the extremely low temperatures. Valves for low temperature service utilize the Blue Polar Seat and do not require an extended bonnet.

■ **White Seat** with extended bonnet
-320°F to 250°F (-196°C to 121°C)

■ **Blue Seat** without extended bonnet
-60°F to 250°F (-51°C to 121°C)

Specification Compliance:

Certified to British Standard-6364, the Bray/McCannalok raises the bar and exceeds the performance of competitive valves by holding pressure at cryogenic, low and ambient temperatures.

- ANSI B16.34
- API 598
- BS 6364

- ANSI B16.25
- API 609
- CE/PED

Double Offset Stem & Disc Design:

For over 40 years the reliability of the Bray/McCannalok has been conclusively proven, both in lab tests and thousands of field applications. The Bray/McCannalok's unique, patented design received Chemical Processing's Vaaler Award for Best Product shortly after it was introduced. When open, the disc does not contact the seat, therefore seat service life is extended and operating torques are reduced.

Bray raises the bar with in-house cryogenic testing capabilities combined with clean room facilities and parametric analysis tools to ensure consistent quality and design excellence.



Industries and Applications:

- Aerospace
- Air Separation
- Food Processing
- Gas-To-Liquids
- Liquid Hydrogen
- Liquid Nitrogen
- Liquid Helium
- LNG Liquefaction
- LNG Receiving Terminals
- LPG Handling
- Oxygen
- Petrochemical

CRYOGENIC MATERIALS OF CONSTRUCTION

(White Polar Seat & Extended Bonnet)

Body: Stainless Steel,
ASTM A351 GR CF8M
or ASTM A240 GR 316

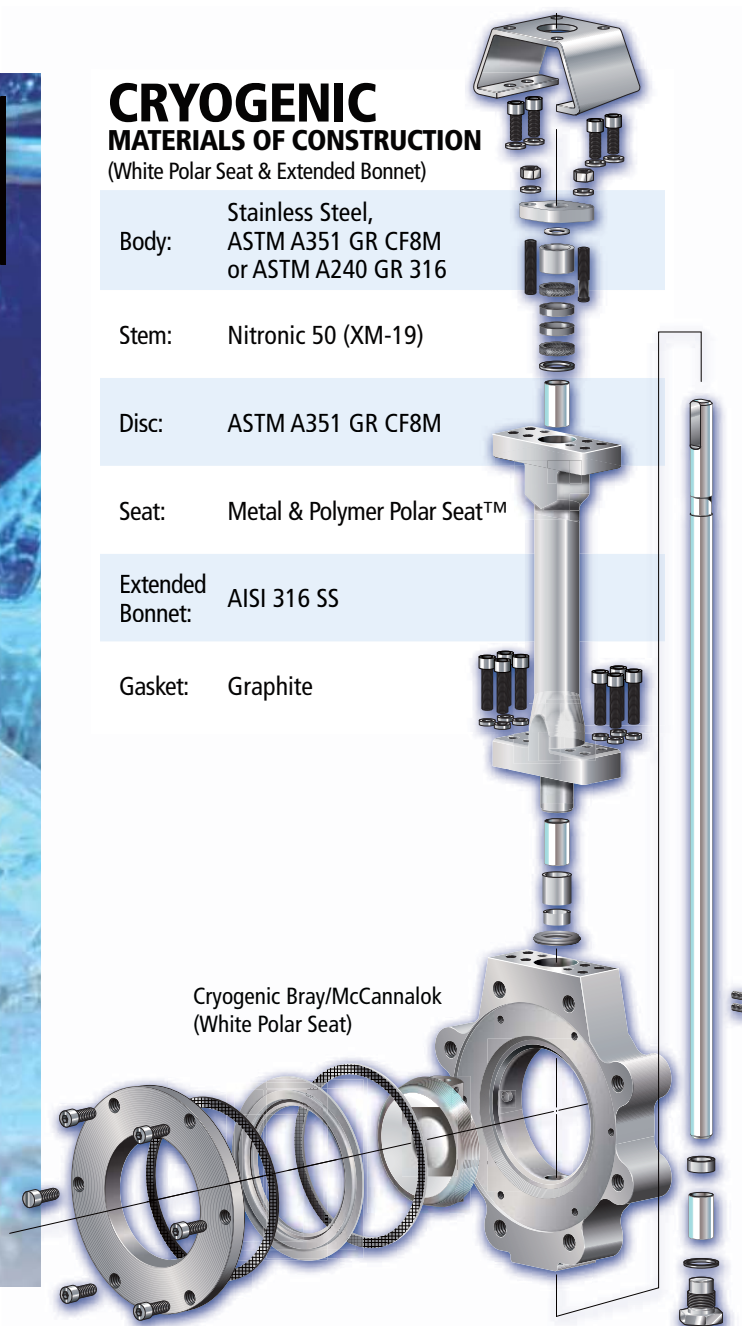
Stem: Nitronic 50 (XM-19)

Disc: ASTM A351 GR CF8M

Seat: Metal & Polymer Polar Seat™

Extended Bonnet: AISI 316 SS

Gasket: Graphite



Cryogenic Bray/McCannalok
(White Polar Seat)



Double Flanged Low Temperature
Bray/McCannalok (Blue Polar Seat)

LOW TEMPERATURE MATERIALS OF CONSTRUCTION

(Blue Polar Seat without Extended Bonnet)

Body: Carbon Steel,
ASTM A352 GR LCC – Impact tested to -60°F (-51°C)
or ASTM A516 GR 60 – Impact tested to -60°F (-51°C)

Stem: 17-4 PH SS, ASTM A564-Type 630

Disc: ASTM A351 GR CF8M

Seat: Metal & Polymer Polar Seat™

Gasket: Graphite



Wafer Low Temperature
Bray/McCannalok (Blue Polar Seat)

BRAY CONTROLS

USA

Houston, TX. +281.894.5454

ARGENTINA

Buenos Aires + 54.11.4362.0666

BENELUX

Heerhugowaard +31.72.572.1410

BRAZIL

Paulinia SP-Brazil +55.19.3844.6161

CANADA

Montréal +514.344.2729

CHILE

Santiago +56.2739.2966

CHINA

Hangzhou, Zhejiang +86.571.828.52200

GERMANY

Krefeld +49.2151.53360

INDIA

Gujarat +91.265.2633868

MEXICO

Zapopan, Jalisco, +52.33.3836.4460

PACIFIC

Melbourne, Australia +613.9580.9755

PERU

Lima +511.251.0251

POLAND

Oświęcim +48.33.842.1968

UNITED KINGDOM

Inchinnan +44.141.812.5199

VIETNAM

Ho Chi Minh City +84.8.3742.3428

FLOW-TEK

USA

Houston, TX +832.912.2300

CHINA

Hangzhou, Zhejiang +86.571.828.52200

RITEPRO

CANADA,

Montréal +514.324.8900

CHINA,

Hangzhou, Zhejiang +86.571.828.52200



WORLD HEADQUARTERS - BRAY INTERNATIONAL, INC.
Houston, Texas - U.S.A.

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To serve you locally, each region maintains a
factory certified sales and service network
for all Bray International products.

 **Bray** CONTROLS

www.braycontrols.com

PENDIA

奔達實業股份有限公司

TEL: (07) 375-8555 FAX: (07) 375-8999
公司: 814 高雄市仁武區澄觀路349號