SERIES 3A 2"-20" (50mm-500mm)

PRESSURE RATINGS		
BIDIRECTIONAL BUBBLE-TIGHT SHUT-OFF & DEAD-END SERVICE		
2-12" (50-300mm)	Standard Disc	175 psi (12 Bar)
	Reduced Disc	50 psi (3.4 Bar)
14-20" (350-500mm)	Standard Disc	150 psi (10.3 Bar)
	Reduced Disc	50 psi (3.4 Bar)
BODY: 250 psi (17.2 Bar) CWP		

VELOCITY LIMITS For On/Off Services:	
Fluids 30 ft/sec (9 m/s)	Gases 175 ft/sec (54 m/s)

Bray's Series 3A/3AH valve is a Double Flanged design which can be used for dead-end service. A major design advantage of Bray valve product lines is international compatibility. The same valve is compatible with most world flange standards – ASME Class 125/150, BS 10 Tables D and E, BS 4504 NP 10/16, DIN ND 10/16, AS 2129 and JIS 10. In addition, the valves are designed to comply with ISO 5752 - Table 2 (EN 558 Table 13) face-to-face and ISO 5211 actuator mounting flanges. Therefore, one valve design can be used in many different world markets.

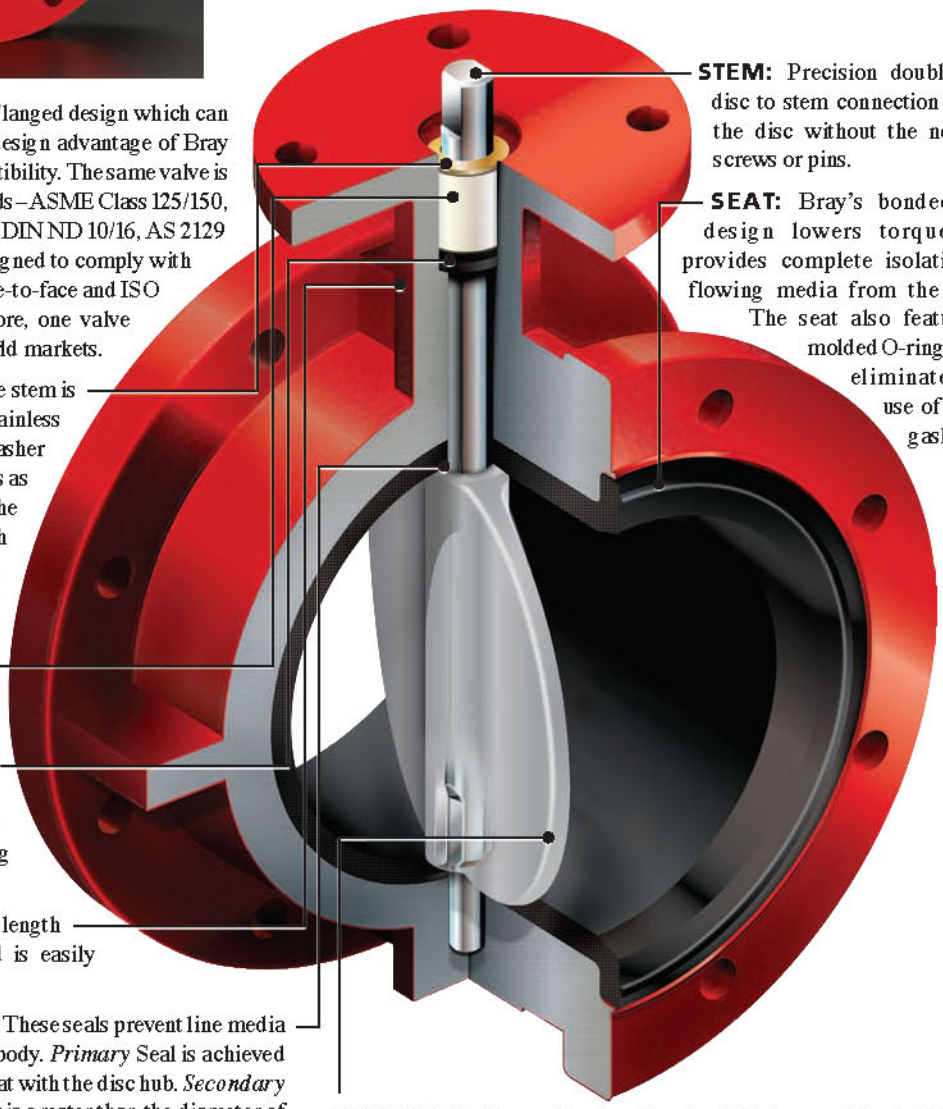
STEM RETAINING ASSEMBLY: The stem is retained in the body by means of a unique Stainless Steel Spirolox® retaining ring, a thrust washer and two C-rings, manufactured from brass as standard, stainless steel upon request. The retaining ring may be easily removed with a standard hand tool. The stem retaining assembly prevents unintentional removal of the stem during field service.

STEM BUSHING: Non-corrosive, heavy duty acetal bushing absorbs actuator side thrusts.

STEM SEAL: Double "U" cup seal design is self-adjusting, gives positive sealing in both directions, and prevents external substances from entering the stem bore.

EXTENDED NECK: Extended neck length allows for 2" of piping insulation and is easily accessible for mounting actuators.

PRIMARY & SECONDARY SEALS: These seals prevent line media from coming in contact with the stem or body. *Primary* Seal is achieved by an interference fit of the molded seat flat with the disc hub. *Secondary* Seal is created because the stem diameter is greater than the diameter of the seat stem hole.



STEM: Precision double "D" disc to stem connection drives the disc without the need of screws or pins.

SEAT: Bray's bonded seat design lowers torque and provides complete isolation of flowing media from the body. The seat also features a molded O-ring which eliminates the use of flange gaskets.

DISC: Spherically machined and hand polished to provide a bubble-tight shut off, minimum torque, and longer seat life.

Spirolox® designation is a registered trademark of Kaydon Ring and Seal, Inc.

HIGH PRESSURE RESILIENT SEATED

SERIES 3AH

Series 3AH double flanged valves are drilled and tapped to meet ASME Class 125/150 and PN16 flanges.

PRESSURE RATINGS	
BIDIRECTIONAL BUBBLE-TIGHT SHUT-OFF & DEAD-END SERVICE	
2-20" (50-500mm)	250 psi (17.2 Bar)
BODY: 250 psi (17.2 Bar) CWP	

VELOCITY LIMITS For On/Off Services:	
Fluids 30 ft/sec (9 m/s)	**Gases** 175 ft/sec (54 m/s)

STANDARD MATERIALS SELECTION – Series 3A/3AH

NAME	MATERIAL
Body	Cast Iron
	Ductile Iron
	Carbon Steel
Disc	Aluminum Bronze
	Coated Ductile Iron
	Nylon 11 Coated Ductile Iron
	Halar® Coated Ductile Iron
	304 Stainless Steel
	316 Stainless Steel
	Duplex Stainless Steel
	Super Duplex Stainless Steel
	Hastelloy®
Stem	416 Stainless Steel
	304 Stainless Steel
	316 Stainless Steel
	Monel K500
Seat	Bonded EPDM
	Bonded BUNA-N
	Bonded FKM*

Material availability depends on valve size & series. Other materials are available. 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 Ausimont U.S.A., Inc.