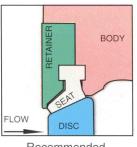
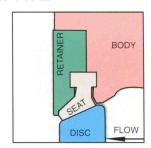


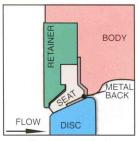
#### SOFT SEAT TYPE



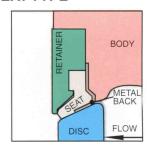
Recommended Flow Direction



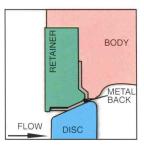
#### FIRE-SAFE SEAT TYPE



Recommended Flow Direction



#### **METAL SEAT TYPE**



STANDARD PRODUCTION RANGE			
	ANSI Class 150	ANSI Class 300	ANSI Class 600
PSI RATING	285	740	1440
SIZE - INCH	2-48	2-48	3-24
SIZE - MM	50-1200	50-1200	80-600
TESTING	API 598 / API 607		
FACE TO FACE SPECIFICATIONS	ANSI B16.10 / API 609 / MSS-SP-68 / ISO 5752		
END FLANGE SPECIFICATIONS	ASME B16.5: Class 150, 300, 600 JIS B2210: 10K, 16K, 20K DIN ISO PN10, PN16, PN25, PN40		
CONNECTION	Wafer, Lugged, Double Flanged, Butt-Welded		
ACTUATOR - MANUAL	Lever Handle, Worm Gear Operator		
ACTUATOR – AUTOMATIC	Electric Motor, Pneumatic Double Acting, Pneumatic Spring Return		
MAIN MATERIALS			
	ANSI Class 150	ANSI Class 300	ANSI Class 600
BODY	Carbon Steel (A216-WCB) 316 SS (A351-CF8M)		
DISC	316SS (A351-CF8M)		
STEM	17/4PH (A564-630)		
SEAT	PTFE, RTFE, 316 SS, Inconel, PTFE + 316 SS, RTFE + 316SS		
SHAFT BEARING	316 SS + RTFE Impregnated, 316 SS + Graphite Impregnated		
PACKING SEAL	PTFE, Graphite		
SEAT MATERIALS at	nd RATING		
SEAT MATERIAL	Rating		
PTFE	Class VI, Bubble Tight		
RTFE	Class VI, Bubble Tight		
316 SS	Class V		
INCONEL	Class V		
PTFE + 316 SS	Class VI Bubble Tight, Class V w/ Preferred Flow After Fire		
RTFE + 316 SS	Class VI Bubble Tight, Class V w/ Preferred Flow After Fire		

# **Features and Benefits**

# 1. Body

High quality one piece casting which provides consistent uniformity. Sizes 2 inch to 6 inch are investment castings. Body is available in Wafer, Lug, Double Flanged, and Butt-welded.

# 2. Mounting Flange

Designed to direct mount actuation for ease of installation and cost savings. No bracket is needed for manual actuation or for automatic automation up to 18 inch.

# 3. Underneath Drawn Gland Packing

Allows for direct mounting of actuation and ease of user adjustment of the gland nuts while method of operation is attached. A rocker design is incorporated to compensate for uneven adjustment of the gland nuts.

#### 4. Seat

An advanced design that provides a bidirectional interference and pressure assisted seal. This design achieves maximum seal at low, medium and high pressure.

#### 5. Extended Neck

Allows for two inches of pipe insulation.

# 6. Packing

PTFE is a cup and cone system and Graphite is die formed rings for positive seals.

# 7. Bearings

Made of Graphite impregnated or Reinforced PTFE impregnated 316 Stainless Steel to ensure long service life.

#### 8. Stem

Manufactured of high strength 17-4 ph Stainless Steel to provide maximum strength and stability for high torque applications.

### 9. Disc

Made of 316 Stainless Steel and engineered to allow for quick release from the seat. This reduces the amount of torque needed to un-seat the disc.

# 10. Disc Taper Pins

Pins are offset from the center of the stem which places them in compression rather than in sheer. This gives them a yield point greater than the stem itself. Pins are welded in place after final assembly and testing.

#### 11. Integrally Cast Disc Position Stop

Machined position stop on the body locates the disc in the seat to achieve maximum seat and seal life.

# **High Performance Applications**

- Construction
- Chemical / Petro Chemical
- Liquified Gas / Refrigeration
- Heavy Industrial
- Power / Co-Generation Plants
- Steel and Iron Works
- Commercial

- Pulp and Paper Mills
- Oil Refineries and Oil Field
- Ship Building
- Hydrocarbon Processing
- Gas Piping
- Local Area Energy Supply
- Industrial





**Shown:** ABZ Handle with 10° Locking Plate

Available Features: Infinite Plate



**Shown:** ABZ Worm Gear **Available Features:** Lock Out

2" Square Nut



**Shown:** ABZ 200 SR Pneumatic Actuator **Available Features:** Double Acting Actuators

Spring Return Actuators

Positioners Solenoids

Limit Switches

Additional features available upon request



Shown: ABZ 9 Electric Actuator

**Available Features:** Position Transmitter

Additional Auxiliary Limit Switches

Local Control Switches

90 to 270 Rotation

**Explosion Proof Enclosures** 

Proportional Control Unit

Failsafe Battery Pack

Additional features available upon request



# **ABZ VALVES & CONTROLS, INC.**

A Division of ABZ Manufacturing, Inc.

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