

Product Specification

Flowserve FCD Corporation A Unit of Flowserve Corporation Flow Control Division 11444 Deerfield Road Cincinnati, OH 45242 www.flowserve.com Phone: 513 489 7800 Facsimile: 513 489 5243 E-mail: actuators@flowserve.com

# **Automated Ball Valve: Threaded-End**

### Introduction

Flowserve's Automated Ball Valve combines two well-known names in the quarter-turn valve industry: Durco and Automax. Durco 3-piece 1000 WOG valves feature 316 stainless steel bodies and balls for corrosion resistance. Glass-filled PTFE seats provide optimal pressure and temperature performance and true V-ring PTFE packing provides one of the best stem seals in the industry.

These valves have been carefully matched with Automax SuperNova rack-and-pinion actuators. The SuperNova is well known for durability and reliability because of its heavy-duty, hard anodized aluminum housing and precision die-cast pistons. This actuator utilizes unique travel stops to allow precise and easy adjustments of valve open and closed positions. Sized for a minimum of 70 psi air supply, these actuators will provide years of trouble-free service.



Our Automated Ball Valve is *factory* assembled with *factory* mounting hardware. Flowserve custom-designs all brackets and couplers to assure proper valve operation and maintainability. With Flowserve personnel building your automated valve, you will avoid common problems associated with valve/actuator misalignment or improper travel stop adjustment. Few companies have assembled more automated valves than Flowserve.

### **Features**

- Whether it be the valve, actuator, or hardware, Flowserve gives careful consideration to atmospheric and process fluid corrosion resistance:
  - Actuator: Hard anodized body, polyurethane powder-coated endcaps, electroless nickel plated pinion
  - Valve: 316 Stainless steel body, ball and stem, PTFE packing, glass-filled PTFE seats
  - Hardware: Epoxy powder-coated steel bracket and coupler; stainless steel fasteners
- Three-piece valve construction allows for easy seat maintenance.
- Valve incorporates an ISO 5211 mounting flange to provide a **solid 4-point actuator mounting surface** and **optimal actuator alignment**.
- PTFE V-ring packing provides excellent valve stem sealing.
- Field-reversible actuator pistons allow easy conversion from fail closed to fail open.
- NAMUR actuator interfaces for bolt-on accessories such as limit switches, positioners, solenoids, etc.

### How-to-Order

Valve Size	Double Acting Actuator	Spring-Return Actuator (Fail Closed)
1/2	ABVTDA.5	ABVTSR.5
3/4	ABVTDA.75	ABVTSR.75
1	ABVTDA1	ABVTSR1
1 1/2	ABVTDA1.5	ABVTSR1.5
2	ABVTDA2	ABVTSR2



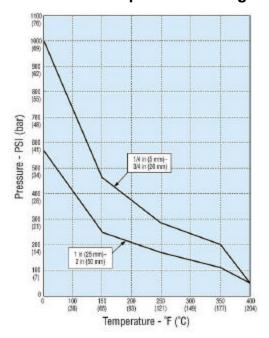
# Valve Port Diameter and Flow Coefficient

Valve Size	Port Diameter	
valve Size	Port Diameter	C <sub>v</sub>
	In (mm)	
1/2	0.63 (16)	23
3/4	0.81 (20)	45
1	1.00 (25)	90
1 1/2	1.50 (38)	230
2	2.00 (50)	450

### **Materials of Construction**

Description	Material
Valve Body, Ball, Stem	316 Stainless Steel
Valve Seat	Glass-filled PTFE
Valve Packing	PTFE
Actuator Body	Hard-anodized Aluminum
Actuator End Caps	Powder Polyurethane coated
•	Aluminum
Actuator Pinion	Electroless Nickel plated Steel
Actuator Pistons	Aluminum
Actuator Springs	Painted Chrome Silicone Spring
(Optional)	Steel
Actuator Seals	Buna N
Travel Stop Bolts & Nuts	Stainless Steel
Actuator End Cap Bolts	Stainless Steel
Bracket and Coupler	Powder Epoxy coated Steel
Hardware	Stainless Steel

## **Pressure-Temperature Ratings**



### Other Specifications

.3<del>94</del>

*.*394

.394

.551

.551

.394

.551

.551

.551

.39

.39

.77

.77

.47

.77

.77

.77

.79

.79

.79

.79

<del>.79</del>

.79

.79

.79

.79

Ambient Temperature Range:	-20 to 175 °F
Minimum Supply Pressure:	70 psi

.75

88.

1.00

1.00

.88

1.QD

1.GD

1/8 3.150

1/8 3.150 1.19

1/8 3.150 1.31

1/8 3.150 1.77

1/8 3.150 2.34 1/8 3.150 .97

1/8 3.150 1.19

1/8 3.150 1.31

1.38 1/4 3.150 1.77 4.72

1/4 5.118 2.34

2.95

3.15

3.54

4.72

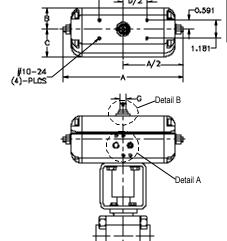
5.51

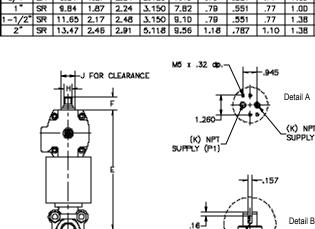
2.95

3.15

3.54

### **Dimensions**





DA 6.69

DA

DA 7,95

1.14 1.58 3.150 6.98

1,40 1,77 3,150 7,82

5.69 1.14 1.58 3.150 7.19

-1/2" DA 9.84 1.87 2.24 3.150 9.10

2" DA 9.84 1.87 2.24 3.150 9.56 1/2" SR 7.95 1.40 1.77 3.150 6.98

3/4" SR 9.84 1.87 2.24 3.150 7.19

