ASSURED AUTOMATION

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Doc. AA-101-2021.03.19



101 Series

Nickel Plated Brass 2-way Full Port Ball Valve



END CONNECTIONS

NPT Threaded: 3/8" to 3"

PRESSURE RANGE

3/8" to 1/2": 925 PSIG **3/4" to 1":** 725 PSIG **1 1/4" to 1 1/2":** 580 PSIG **2":** 485 PSIG **2 1/2" to 3":** 365 PSIG

see Pressure/Temperature Curve

TEMPERATURE RANGE

-4°F to 300°F see Pressure/Temperature Curve

MATERIALS

Body: Nickle Plated Brass Seats: PTFE Seals: PTFE Ball: Brass Stem: Brass **The Assured Automation** 101 is a full port, brass, NPT threaded end actuated ball valve. It can be equipped with a manual handle or with direct mount pneumatic or electric actuators. The direct mount actuators eliminate the valve-actuator mounting kit, which adds unnecessary height and expense. A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

FEATURES

- Actuated electrically, pneumatically, or manually
- Full Port for unobstructed flow
- 2-piece body
- Integrated mounting pad for actuators
- Compact assembly
- Complete line of accessories

see page 2 for feature details

TYPICAL APPLICATIONS

- Air Drying Equipment
- Pollution Control Equipment
- Process Control Applications
- Laundry Equipment
- Textile Dyeing & Drying
- Bottling & Dispensing Equipment

ACTUATORS

Pneumatic

- Spring return
- Double Acting

Electric

- various IP ratings and voltages
- modulating or on/off

Manual handle lever

• Manual Basic Lever

see page 3 for accessory details

CUSTOM ACTUATED BALL VALVE ASSEMBLY







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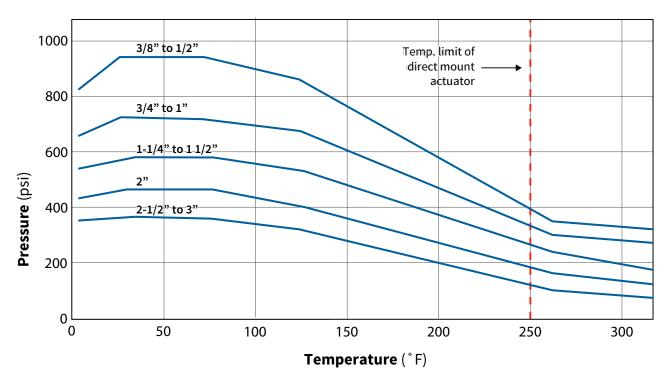


101 Series

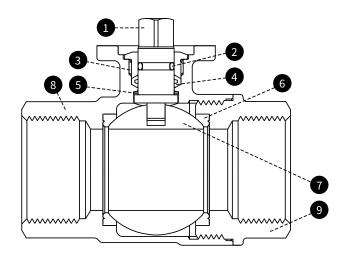


Nickel Plated Brass 2-way Full Port Ball Valve

PRESSURE/TEMPERATURE CURVE



MATERIALS OF CONSTRUCTION



ltem	Name	Material			
1	Shaft	Brass			
2	O-Ring	FKM			
3	Gland Nut	Brass			
4	Shaft Seal	PTFE			
5	Antifriction Rings	PTFE			
6	Seals	PTFE			
7	Ball	Chromium Plated Brass			
8	Body	Nickel Plated Brass			
9	End Cap	Nickel Plated Brass			



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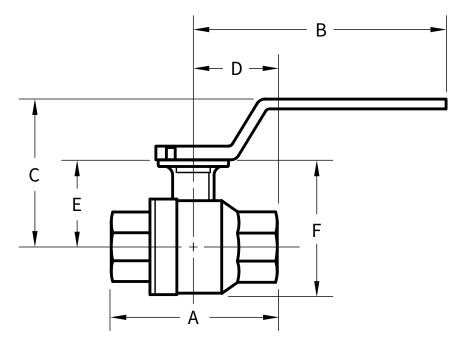


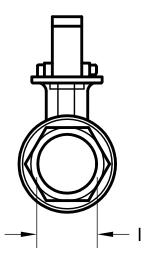
101 Series



Nickel Plated Brass 2-way Full Port Ball Valve

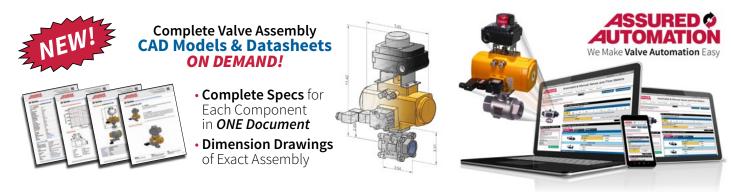
DIMENSIONS





Size	A	В	С	D	E	F	I	Cv	Weight
3/8"	2.45	3.71	2.51	1.22	1.20	1.81	0.375	13	1.2
1/2"	2.45	3.71	2.66	1.22	1.20	1.81	0.500	23	1.2
3/4"	2.69	5.07	3.09	1.34	1.43	2.20	0.750	70	1.4
1"	3.14	5.07	3.28	1.57	1.59	2.50	1.00	117	2.8
1 1/4"	3.63	5.07	3.78	1.82	2.03	3.18	1.25	152	3.7
1 1/2"	4.03	5.07	4.10	2.02	2.29	3.63	1.50	199	5.8
2"	4.58	5.07	4.45	2.29	2.58	4.24	2.00	328	8.8
3"	6.64	9.50	5.72	3.32	3.73	6.14	3.00	901	12.5

CAD FILES AND ASSEMBLY SPECIFIC DATASHEETS





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101 Series



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ACTUATORS AVAILABLE

A full range of actuators are available to choose from. All sizing is done by Assured Automation to make selecting your assembly easy. Any accessories ordered with the actuator will be installed and tested by our ISO certified facility.

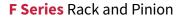
Pneumatic

P Series Dual Scotch Yoke



Spring Return fail position 1 or 2

(see P series web page)





Spring Return fail position 1 or 2

<u>(see **P series** web page)</u>

Accesssories

- NAMUR direct mount solenoid valves
- Variety of limit switches
- Modulating positioners
- 1/4" NPT x 1/4" tube push fittings
- 1/4" NPT x 1/4" compression fittings
- SS and poly tubing

Electric Weatherproof V4 Series



12 to 120 VAC/VDC

- Manual override
- NEMA-4/4X housing
- External wire leads
- High Strenght Gears

12 to 120 VAC/VDC

• Thermally protected

(see R4 series web page)

Compact Design

Spur Gear Drive

motor

Double Acting

fail last place

R4 Series





12 to 240 VAC/VDC

- Isolated end of travel limit switches
- Manual override
- Electronic torque limiter

(see S4 series web page)

K4 Series

Duble Acting

fail position 1 or 2



12 to 120 VAC/VDC • Built-in thermal

- protector
- Worm-gear drive
- Manual override

(see K4 series web page)





24 VDC and 120 VAC

- NEMA 4/4X/7 enclosure
- Heater and thermostat
- installed in all actuators
- Manual override on all units

(see B7 series web page)

(see V4 series web page)

Manual Manual Lever





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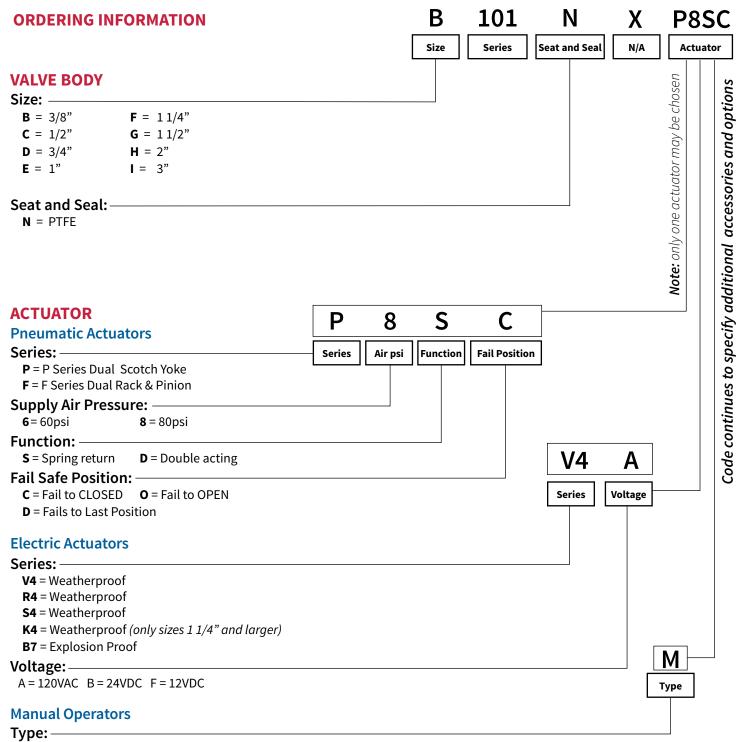
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M = Basic Manual Lever

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ACCESSORIES

Solenoid Valves

NAMUR solenoid valves for direct mount to the actuator. Various coil and connector options are available including weatherproof, explosion proof, corded, NPT conduit, and cable gland.

3-way

for spring return models







Solenoid valve web page

Limit Switches (valve position indicators) Used to communicate the position of the valve to a PLC, HMI, or simple remote indicator lamp. Various switch technologies are available. All include a local visual indicator as well.

UA/UB Series

2x Solid state proximity switches; 1 for Open, 1 for Closed



YF Series 2x SPDT mechanical switches; 1 for Open, 1 for Closed



YE, YH, YO Series

2x Solid State Proximity Sensors or SPDT mechanical switches



Other limit switches are available Limit switch web page

Modulating Positioners

Add modulating control to either of our pneumatic actuator series. These positioners mount to the top of the actuator using the NAMUR standard mounting hole and stem pattern.

Pneumatic

0-15 psi control signal



Electro-pneumatic 4-20mA or 0-10VDC control signal



With feedback unit 4-20mA or 0-10VDC feedback signal



Positioner web page