TRUSTED
SINCE 1958
WORLDWIDE

MALLARD CONTROL

A BRAND OF Taylor Valve Technology®

WORLDWIDE

PRODUCT INTRODUCTION

5400
Control Valve

5646C
Pressure Regulator

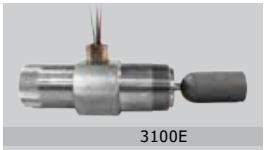
3200/3201
Liquid Level Controllers

MORE THAN 100 U.S. AND FOREIGN PATENTS IN OVER 60 YEARS!

Precise. Quality. Reliable.

WWW.TAYLORVALVE.COM

LEVEL INSTRUMENTATION



3100E

3100P1

Model 3100E/P/P1
LIQUID LEVEL SWITCHES

The Model 3100E is an electric, float-operated switch which can be used as a high or low level alarm or for liquid level control. The 3100E is rated for high pressure applications, and can be mounted directly onto the vessel nozzle or into an external float chamber. The Model 3100P and 3100P1 are pneumatic, float-operated switches for liquid level control. The 3100P is a 2-way normally-open or normally-closed switch and the 3100P1 is a 3-way block-and-bleed switch. The 3100P and 3100P1 are rated for high pressure applications. Both models can be mounted directly onto the vessel nozzle or into an external float chamber.

Specifications: Model 3100E
- Process Connection: 2" MNPT
- Minimum Operating Specific Gravity: 316 stainless steel float: 0.68 Polystyrene float: 0.50
- Leadwires: 18 AWG x 36" long

Specifications: Model 3100P/P1
- Process Connection: 2" MNPT
- Supply Pressure Connection: 1/8" FNPT
- Exhaust Connection: 1/4" FNPT
- Supply Pressure: 30 to 60 psig

3200

3201

Model 3200-3201
LIQUID LEVEL CONTROLLERS

The Model 3200/3201 liquid level controller is ideal for oilfield scrubber and separator applications. Its rugged and versatile design make it the preferred choice of production operators for reliable service in a wide variety of applications. Model 3200 is available in pneumatic snap and throttling pilots, or electric SPDT and DPDT limit switches; direct or reverse action; with a variety of displacer sizes, materials, and vessel connections.

Pilot:
- Pneumatic (standard) Snap (on/off)
- Throttle (modulating)
- Electric (optional): SPDT (explosion proof); DPDT (explosion proof)
- Electric switch rating: SPDT: 15 amps @ 125, 250 or 480 VAC; DPDT: 10 amps @ 125, 250 or 480 VAC

Features:
- Pneumatic throttling, ECO snap Pilot
- Electric pilots:Available with explosion proof SPDT or DPDT electric switches
- Field reversible action: Requires no additional parts or special tools
- Displacers: Mallard offers a variety of displacer materials and designs
- Available with wetted materials that meet NACE MR0175 specifications for sour service.

3500 3510

Model 3500-3510
GAUGE VALVE

The Model 3500 (rigid-union) and Model 3510 (union-union) gauge valves are recommended for use with Model 3520 glass liquid level gauges and are compatible with all armored flat-glass liquid level gauges.

Specifications:
- Gauge Connections: 1/2" or 3/4" FNPT, rigid or union
- Vessel connection: 1/2" or 3/4" MNPT, union only
- Seating Service: Integral to valve body
- Maximum operating pressure: 4000 psi

Features:
- Safety shutoff: Equipped with a stainless steel ball check located upstream of the seat
- Offset pattern: Gauge and drain connections are offset 0.75" from the vessel connection centerline
- Materials of construction which comply with NACE MR0175 specifications are available on request.

Reflex Transparent
3520

Model 3520
LIQUID LEVEL GAUGE

The Model 3520 glass liquid level gauge is a rugged flat glass gauge. Standard construction includes a solid one-piece chamber, steel covers, alloy steel bolts and nuts, and tempered glass.

Specifications:
- Connections: 1/2" Top-bottom (standard); 3/4" Top-bottom (optional)
- Gauge Length: Gauge sections are available in nine standard glass sizes.

Features:
- Quality materials: Tempered borosilicate glass
- Quality assurance testing: All gauges are hydrostatically tested to 1.5 times the rated pressure
- No-leak design: Recessed gasket seat in chamber and cover prevents leaks

Liquid-gas or liquid-liquid interface applications: Available in either reflex or transparent styles
Wetted parts conform to NACE MR0175 specifications

CONTROL VALVES

5100

Model 5100
CONTROL VALVE

The Model 5100 "Freezeless" Control Dump Valve is perfectly suited for fluid control in oil and gas separators and other process vessels. The valve body design allows the plug and seat to be constantly submerged in the process media, thus giving the valve its "freezeless" characteristic.

Features:
- Compact valve size
- Stainless Steel trim
- Threaded process connections
- NACE MR0175 compliance option

Specifications:
- Process Connections: 1" MNPT x 1/2" FNPT; 1" MNPT x 1" FNPT
- Body Style: "Freezeless" angle
- Maximum Operating Pressure: 2220 psig at 100°F (38°C)
- Trim Characteristic: Quick opening (on/off)

5127

Model 5126/5127
CONTROL VALVE

The Model 5126/5127 "Freezeless" Control Dump Valve is designed for fluid control in oil and gas separators and other process vessels. The valve body design allows the plug and seat to be constantly submerged in the process media, thus giving the valve its "freezeless" characteristic.

Features:
- Simple maintenance: No special tools are required.
- Simple installation: Compact, lightweight design
- Variety of valve trims: Available in stainless steel or tungsten carbide trim
- Bonnet safety pressure relief
- Variety of actuators: available in adjustable and non-adjustable configurations

Specifications:
- Body Style: angle
- Process Connections: 2" MNPT x 1" FNPT
- Pressure Rating: 1500 psig at 100°F (38°C)
- Assembled Valve Temperature Range: -20 to 200°F (-29°C to 93°C)
- ANSI Leakage Class: Class IV

5450

Model 5400/5450
CONTROL VALVE

The Mallard Model 5400 open yoke and 5450 close-coupled Control Dump Valves are designed to meet the high-pressure and erosive applications common to the oil and gas industry. These valves are ideally suited for pressure, level, temperature, and flow control applications on separators, scrubbers, wellheads, and other oilfield equipment. The ease of maintenance, rugged steel construction, flexibility to meet a wide variety of applications, and safety features make models 5400/5450 control valves the preferred choice of production operators worldwide.

Features:
- Simple maintenance: No special tools are required.
- Compact, lightweight design
- Bonnet safety pressure relief
- Hardened Trim: available in stainless steel or tungsten carbide

Specifications:
- Available configurations: Open yoke (model 5400); Close-coupled (model 5450)
- Flow characteristic: Modified percent (throttling) and Quick opening (on/off)
- Body styles: Globe, angle, and tee
- End connections: FNPT and flanged,
- Shutoff classification: ANSI class IV (Stainless steel or tungsten carbide trim)

PRESSURE REGULATORS


5600

Model 5600
PRESSURE REGULATOR

The Model 5600 pressure regulator pressure relief valve is spring-loaded, self-operated and available in 1" and 2" sizes. It provides economical control of air, natural gas and a variety of other gases and is built to withstand the most difficult processes and environments. It is offered in both low pressure and high pressure constructions and designed for inlet pressures up to 1500 psig and outlet pressures from 3 to 500 psig. Model 5600 is well suited for high pressure, high capacity applications.

Specifications:
- End Connections: 1" & 2" NPT female
- Operating Temperature: -20° to 150°F (-29° to 65°C)
- Multiple Pressure Ranges

Features:
- Easy Maintenance
- Variety of flow capacities
- Rugged construction
- Excellent control at low pressure settings
- NACE compliance


5602

Model 5602
AIR/GAS REGULATOR

The Model 5602 is a spring-operated regulator used to supply air or gas to pilots, positioners or to pneumatic controls.

Specifications:
- Connections: 1/4"NPT
- NPT Temperature Range: -20°F to 180°F (-29°C to 82°C)
- Inlet Pressure Rating: 250psi
- Multiple Pressure Ranges

Features:
- Inlet Relief
- Dual Outlet
- Built-in 40 micron filter & dripwell
- Self-relieving
- Low droop at high flow


5646C

Model 5646C
PRESSURE REGULATOR

The Model 5646C pressure regulator provides economic control of natural gas, air, or a variety of other gases in commercial and industrial applications. This self-operated pressure reducing regulator is equipped with an integral pitot (boost) tube for increased flow capacities and stability. It is designed for inlet pressures up to 1000 psig and outlet pressures from 5 to 200 psig.

Specifications:
- Body size: 1"
- Orifice sizes: 1/4", 1/8", 3/16", 3/8", 1/2"
- Maximum body inlet pressure: 1000 psig at 100 °F
- Maximum soft seat disc inlet /differential pressure: Nylon: 1000 psig / 1000 psig; Buna: 600 psig / 400 psid
- Operating temperature range: -20 to 250°F (-29° to 65°C)

Features:
- Rugged construction
- Easy maintenance: Easy access to trim parts without removing the regulator from the line.
- Installation flexibility: The diaphragm case can be rotated in relation to the regulator body to allow installation in locations with limited space.
- Wide range of flow capacities: A variety of orifice sizes are available
- Tight shutoff: A soft seat disc; provides excellent shutoff performance.


5660

Model 5660
HIGH PRESSURE REGULATOR

The Model 5660 is designed to reduce high inlet pressures to working pressures. Careful design and quality materials throughout assure long, trouble-free operation in the most difficult industrial environments.

Specifications:
- Connections: 1/4"NPT
- Operating Temperature Range: 70 to 225°F (-57 to 107°C)
- Maximum Inlet Pressure: 6000 psig at 100°F (38°C)
- Outlet Ranges: 0 to 125 psi, 0 to 150 psi and 0 to 225 psi

Features:
- Non-venting
- Seating surface is field repairable by simply rotating the seat block
- 90 degrees to a new seating surface

Taylor Valve is a pioneer in the design, development and manufacture of valves and precision instrumentation to meet your pressure, flow and measurement needs.

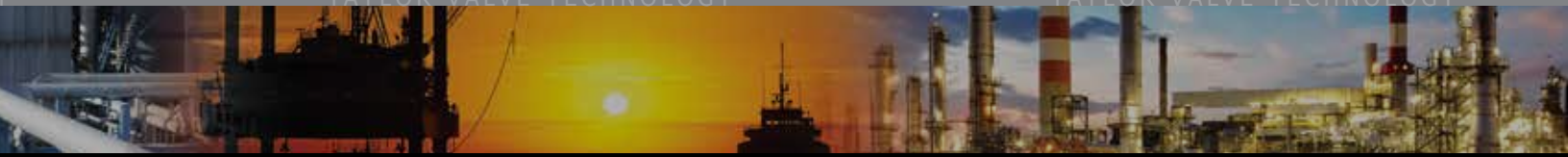
Every Taylor product is designed to meet the highly demanding requirements of oil and gas producers, refiners, chemical plant operators, power generators and the processing industry in order to more effectively control their liquid, steam and gas operations. Our promise is to meet these needs in an economical, operationally safe, and environmentally responsible manner.

Quality API and ASME Code products can be shipped from Taylor's facility in the United States quickly and reliably anywhere in the world.

Taylor products perform unlike any other due to their unique design, precise manufacturing and uncompromising quality - an emphasis proven by more than 100 U.S. and foreign patents and over 60 years of service.

CONTACT TAYLOR VALVE TODAY!

TAYLOR VALVE TECHNOLOGY



CELEBRATING Over 60 years in business

Taylor Valve has been in business for over 60 years and considers it a privilege being able to partner with many loyal and successful companies in the oil and gas industry. From our humble beginnings in 1958 with Mr. Julian Taylor's plug and probe innovation to our many high quality valve products of today, Taylor Valve is excited about the future as we continue to provide high quality, timely delivered state-of-the-art products which provide innovative solutions that save lives.

Taylor Valve Technology®

Rupture Pin® A BRAND OF Taylor Valve Technology®

MALLARD CONTROL A BRAND OF Taylor Valve Technology®

PHONE: (405) 787-0145 • FAX: (800) 805-3401
WEBSITE: www.taylorvalve.com • EMAIL: info@taylorvalve.com
ADDRESS: 8300 S.W. 8th St. • Oklahoma City • Oklahoma 73128

4/8/24