1100 SERIES
3 Piece Full Port Fire Safe Ball Valve
ANSI Class 600 2000 WOG

Size: 1/4” thru 4”
Ends: NPT, Butt Weld, Socket Weld, Flanged (150#, 300#, 600#), Specials
Body Materials: 316 Stainless Steel Carbon Steel Various Alloys
Ball & Stem Materials: 316 Stainless Steel Hastelloy C Monel 400
Seat Materials: 25% Carbon Filled Teflon 15% Glass Filled Teflon Teflon, PCTFE, PEEK UHMWPE, Metals
Service Applications: Chemical Dry/Liquid Chlorine Fluid Processing Hydraulic Water/Oil/Gas Oxygen, Steam Thermal Fluids Vacuum

1500 SERIES
3 Piece Full Port Fire Safe Cryogenic Ball Valve
ANSI Class 600 2000 WOG

Size: 1/4” thru 4”
Ends: NPT, Butt Weld, Socket Weld, Flanged (150#, 300#, 600#), Specials
Body Materials: 316 Stainless Steel Hastelloy C Monel 400
Ball & Stem Materials: 316 Stainless Steel Hastelloy C, Monel 400
Seat Materials: 25% Carbon Filled Teflon Teflon PCTFE
Service Applications: Aerospace Cryogenic Service Food Processing Liquid H₂ Liquid N₂ Petro-Chemical
1700 SERIES
3 Way Bottom Entry Ball Valve
ANSI Class 600
2000 WOG

Size: 1/4” thru 4”
Ends: NPT, Butt Weld, Socket Weld, Flanged (150#, 300#, 600#), Specials
Body Materials: 316 Stainless Steel Carbon Steel Various Alloys
Ball & Stem Materials: 316 Stainless Steel Various Alloys
Seat Materials: 25% Carbon Filled Teflon 15% Glass Filled Teflon Teflon, PCTFE, PEEK UHMWPE, Metals
Service Applications: Chemical Dry/Liquid Chlorine Fluid Processing Hydraulic Water/Oil/Gas Oxygen, Steam Thermal Fluids Vacuum

1800 SERIES
3 Way Side Entry Ball Valve
ANSI Class 600
2000 WOG

Size: 1/4” thru 4”
Ends: NPT, Butt Weld, Socket Weld, Flanged (150#, 300#, 600#), Specials
Body Materials: 316 Stainless Steel Carbon Steel Various Alloys
Ball & Stem Materials: 316 Stainless Steel Various Alloys
Seat Materials: 25% Carbon Filled Teflon 15% Glass Filled Teflon Teflon, PCTFE, PEEK UHMWPE, Metals
Service Applications: Chemical Dry/Liquid Chlorine Fluid Processing Hydraulic Water/Oil/Gas Oxygen, Steam Thermal Fluids Vacuum

1900 SERIES
3 Piece Vee Port Fire Safe Ball Valve
ANSI Class 600
2000 WOG

Size: 1/4” thru 4”
Ends: NPT, Butt Weld, Socket Weld, Flanged (150#, 300#, 600#), Specials
Body Materials: 316 Stainless Steel Carbon Steel Various Alloys
Ball & Stem Materials: 316 Stainless Steel Various Alloys
Seat Materials: 25% Carbon Filled Teflon 15% Glass Filled Teflon Teflon, PCTFE, PEEK UHMWPE, Metals
Service Applications: Chemical Dry/Liquid Chlorine Fluid Processing Hydraulic Water/Oil/Gas Oxygen, Steam Thermal Fluids Vacuum

2000 SERIES
3 Piece Sanitary Full Port Tube OD Ball Valve
1500 WOG

Size: 1/4” thru 4”
Ends: Extended Tube OD Butt Weld Tube OD Socket Weld Tube OD Clamp & Vacuum Ends Flush Bottom Tank Pads Compression Fittings
Body Materials: 316L Stainless Steel
Ball & Stem Materials: 316L Stainless Steel
 Seat Materials: TFM, PEEK, UHMWPE, Cavity Fillers
Service Applications: Biotech Clean Steam Cleaning Solutions Gas and Air Delivery High Purity Gases High Purity Water/Oils Pharmaceutical Vacuum Waxes

2500 SERIES
3 Piece Sanitary Full Port Tube OD Cryogenic Ball Valve
1500 WOG

Size: 1/4” thru 4”
Ends: Extended Tube OD Butt Weld Tube OD Socket Weld Tube OD Clamp & Vacuum Ends Flush Bottom Tank Pads Compression Fittings
Body Materials: 316L Stainless Steel
Ball & Stem Materials: 316L Stainless Steel
Seat Materials: 25% Carbon Filled Teflon Teflon PCTFE
Service Applications: Aerospace Cryogenic Service Food Processing Liquid H₂ Liquid N₂ Petro-Chemical
2700 SERIES
3 Way Bottom Entry
Sanitary Full Port
Tube OD Ball Valve
1500 WOG

Size: 1/4" thru 4"
Ends: Extended Tube OD
Butt Weld Tube OD
Socket Weld Tube OD
Clamp & Vacuum Ends
Flush Bottom Tank Pads
Compression Fittings

Body Materials:
316L Stainless Steel

Ball & Stem Materials:
316L Stainless Steel

Seat Materials:
TFM, PEEK,
UHMWPE,
Cavity Fillers

Service Applications:
Biotech
Clean Steam
Cleaning Solutions
Gas and Air Delivery
High Purity Gases
High Purity Water/Oils
Pharmaceutical
Vacuum
Waxes

2800 SERIES
3 Way Side Entry
Sanitary Full Port
Tube OD Ball Valve
1500 WOG

Size: 1/4" thru 4"
Ends: Extended Tube OD
Butt Weld Tube OD
Socket Weld Tube OD
Clamp & Vacuum Ends
Flush Bottom Tank Pads
Compression Fittings

Body Materials:
316L Stainless Steel

Ball & Stem Materials:
316L Stainless Steel

Seat Materials:
TFM, PEEK
UHMWPE,
Cavity Fillers

Service Applications:
Biotech
Clean Steam
Cleaning Solutions
Gas and Air Delivery
High Purity Gases
High Purity Water/Oils
Pharmaceutical
Vacuum
Waxes

2900 SERIES
3 Piece Vee Port
Sanitary Full Port
Tube OD Ball Valve
1500 WOG

Size: 1/4" thru 4"
Ends: Extended Tube OD
Butt Weld Tube OD
Socket Weld Tube OD
Clamp & Vacuum Ends
Flush Bottom Tank Pads
Compression Fittings

Body Materials:
316L Stainless Steel

Ball & Stem Materials:
316L Stainless Steel

Seat Materials:
TFM, PEEK
UHMWPE,
Cavity Fillers

Service Applications:
Biotech
Clean Steam
Cleaning Solutions
Gas and Air Delivery
High Purity Gases
High Purity Water/Oils
Pharmaceutical
Vacuum
Waxes

3000 SERIES
3 Piece High Pressure
Fire Safe Ball Valve
ANSI Class 1500

Size: 1/4" thru 4"
Ends: NPT, Butt Weld, Socket
Weld, Flanged (150#, 300#, 600#)

Body Materials:
316 Stainless Steel
Carbon Steel
Various Alloys

Ball & Stem Materials:
316 Stainless Steel
Various Alloys

Seat Materials:
25% Carbon Filled Teflon
15% Glass Filled Teflon
Teflon, Kel-F, PEEK
UHMWPE, Metals

Service Applications:
Chemical
Dry/Liquid Chlorine
Fluid Processing
Hydraulic
Water/Oil/Gas
Oxygen, Steam
Thermal Fluids
Vacuum

3500 SERIES
3 Piece High Pressure
Fire Safe Cryogenic
Ball Valve
ANSI Class 1500

Size: 1/4" thru 4"
Ends: NPT, Butt Weld, Socket
Weld, Flanged (150#, 300#, 600#)

Body Materials:
316 Stainless Steel
Hastelloy C
Monel 400

Ball & Stem Materials:
316 Stainless Steel
Hastelloy C, Monel 400

Seat Materials:
25% Carbon Filled Teflon
Teflon
Kel-F

Service Applications:
Aerospace
Cryogenic Service
Food Processing
Liquid H
Liquid N
Petro-Chemical
6000 SERIES
Knife Gate Valve
ANSI Class 150

Size: 2" thru 24"
Ends: 150# Lug
Port Type: Standard
V-Port
Deflector Cone
Body & Shim Materials: 316 Stainless Steel
Hastelloy
Seat Materials: Metal
Buna
EPDM
Neoprene
Viton
Service Applications: Chemical
Food & Beverage
Minning
Power Plants
Paper & Pulp
Waste Water

7000 SERIES
3 Way/4 Way
Ball Valve

Size: 1/2" thru 2"
Ends: Tube OD, Clamp, NPT, Butt Weld, Socket Weld, Flanged (150#, 300#)
Body Materials: 316 Stainless Steel
Ball & Stem Materials: 316 Stainless Steel
Seat Materials: Metal
Buna
EPDM
Neoprene
Viton
Service Applications: Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Oxygen
Steam
Thermal Fluids
Vacuum

9100 SERIES
2 Piece Full Port
Fire Safe (as Standard)
Flanged Ball Valve
ANSI Class 150 & 300

Size: 1/2" thru 12"
Body Materials: 316 Stainless Steel
Carbon Steel
Alloy 20
Ball & Stem Materials: 316 Stainless Steel
Disc & Bonnet Materials: 316 Stainless Steel
Seat Materials: Metal
Buna
EPDM
Neoprene
Viton
Service Applications: Chemical
Dry/Liquid Chlorine
Fluid Processing
Hydraulic
Water/Oil/Gas
Oxygen
Steam
Thermal Fluids

1116/1226/1236 SERIES
Gate Valve
ANSI Class 150

Size: 1116 - 1/2" thru 10"
1226 - 1/2" thru 2"
1236 - 1/2" thru 2"
Ends: 1116 - 150# Flanged
1226 - NPT
1236 - Socket Weld
Body Materials: 316 Stainless Steel
Disc & Bonnet Materials: 316 Stainless Steel
Seat Materials: Metal
Service Applications: Chemical
Dry/Liquid Chlorine
Fluid Processing
Hydraulic
Water/Oil/Gas
Oxygen
Steam
Thermal Fluids

2116/2226/2236 SERIES
Globe Valve
ANSI Class 150

Size: 2116 - 1/2" thru 10"
2226 - 1/2" thru 2"
2236 - 1/2" thru 2"
Ends: 2116 - 150# Flanged
2226 - NPT
2236 - Socket Weld
Body Materials: 316 Stainless Steel
Disc & Bonnet Materials: 316 Stainless Steel
Seat Materials: Metal
Service Applications: Chemical
Dry/Liquid Chlorine
Fluid Processing
Hydraulic
Water/Oil/Gas
Oxygen
Steam
Thermal Fluids
3116/3226/3236 SERIES
Check Valve
ANSI Class 150

Size:
3116 - 1/2" thru 10"
3226 - 1/2" thru 2"
3236 - 1/2" thru 2"

Ends:
3116 - 150# Flanged
3226 - NPT
3236 - Socket Weld

Body Materials:
316 Stainless Steel

Disc & Bonnet Materials:
316 Stainless Steel

Seat Materials:
Metal

Service Applications:
Chemical
Dry/Liquid Chlorine
Fluid Processing
Hydraulic
Water/Oil/Gas
Oxygen
Steam
Thermal Fluids

Torque rating:
Non Spring Return
135 thru 40500 in.lbs
Spring Return
27 thru 2300 in.lbs

Temperature Range:
-40 thru 150 °F

Supply Voltage:
12vac/dc thru 230vac

Operation Speed:
3 thru 150 secs power
3 thru 20 secs spring

Features:
Field Selectable Options
Native Manual Override
ISO 5211 Mount Available
Position Indicator
NAMUR Solenoid Mount
Blow-Out Proof Pinion

Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam

Torque rating at 80 psig:
Double Acting
195 thru 28500 in.lbs
Spring Return
50 thru 16500 in.lbs

Temperature Range:
-30 thru 300 °F

Supply Pressure:
35 thru 150 psig

Operation Speed:
0.3 thru 6 seconds
Model Dependent

Features:
Adjustable Travel Stops
Explosion Proof
Gas Approved
Intrinsically Safe
Dome Indicator
Standard NEMA 4X
External Zero/Span Adjust

Material:
Aluminum

Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam

AUTOMATION
Quarter Turn
Pneumatic Actuator
Double Acting & Spring Return

Torque rating:
Non Spring Return
135 thru 40500 in.lbs
Spring Return
27 thru 2300 in.lbs

Temperature Range:
-40 thru 150 °F

Supply Voltage:
12vac/dc thru 230vac

Operation Speed:
3 thru 150 secs power
3 thru 20 secs spring

Features:
Field Selectable Options
Native Manual Override
ISO 5211 Mount Available
Position Indicator
NAMUR Solenoid Mount
Blow-Out Proof Pinion

Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam

Material:
Aluminum

Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam

AUTOMATION
Quarter Turn
Electric Actuator
Non Spring & Spring Return

Style:
Mechanical Switches
Proximity Sensor
4-20mA Feedback

Temperature Range:
-4 thru 185 °F

Features:
Explosion Proof
Weather Proof
Position Indicator
NAMUR Shaft
Dual Cable Entries
Captive Cover Bolts

Material:
Aluminum

Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam

AUTOMATION
Limit Switch

Style:
Mechanical Switches
Proximity Sensor
4-20mA Feedback

Temperature Range:
-4 thru 185 °F

Features:
Explosion Proof
Weather Proof
Position Indicator
NAMUR Shaft
Dual Cable Entries
Captive Cover Bolts

Material:
Aluminum

Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam

AUTOMATION
Positioner

Features/Options:
Mechanical Switches or Reed switches
4-20mA Feedback
Pneumatic
Electro-Pneumatic
Fail Freeze
Explosion Proof
Gas Approved
Intrinsically Safe
Dome Indicator
Standard NEMA 4X
External Zero/Span Adjust

Material:
Aluminum

Temperature Range:
-40 thru 185 °F

Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam
AUTOMATION
Solenoid Valve
NAMUR Direct Mount

Operating Pressure:
Vacuum thru 150 psig
Temperature Range:
0 thru 180 °F
Supply Voltage:
12vac/dc thru 230vac
Valve Operation:
3 Way, 2 Position N.C
4 Way, 2 Position Single
4 Way, 2 Position Double

Electrical Connections:
NEMA 4x with DIN 43650
NEMA 4x 1/2" NPT Conduit
Explosion Proof
Intrinsically Safe
Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam

AUTOMATION
Declutchable Gear
Override with Integral
ISO 5211 Mount Pad

Operating Pressure:
5 thru 150 psig Standard
3 thru 60 psig
3 thru 20 psig
Temperature Range:
40 thru 160 °F
Options:
Polycarb or Metal Bowl
5 Micron Filter
Non Relieving
Piston Drain
Overnight Drain
Panel Mount
Pressure Gauge

Material:
Cast Iron
Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam

AUTOMATION
Filter Regulator

Operating Pressure:
Vacuum thru 150 psig
Temperature Range:
40 thru 160 °F
Options:
Polycarb or Metal Bowl
5 Micron Filter
Non Relieving
Piston Drain
Overnight Drain
Panel Mount
Pressure Gauge

Features:
Mico Seat Finish
Diaphragm Operation
Tamper Proof Cap
Relieving Style Standard
Buna N Seals
20 Micron Filter

Service Applications:
Chemical
Fluid Processing
Hydraulic
Water/Oil/Gas
Pharmaceutical
Steam

FLOW MEASUREMENT
Orifice Plate

Size:
1/2" thru 24"
Style:
Paddle
Universal
Standard Concentric
Counter Bored
Eccentric
Quadrant
Segmental
Restriction

Class:
150# thru 1500#
Materials:
316 Stainless Steel
Carbon Steel
Alloy 20
Hastelloy
Monel

FLOW MEASUREMENT
Orifice Flange Set

Size:
1/2" thru 24"
Class:
150# thru 1500#
Included in Set:
Flanges
Orifice Plate
Gaskets
Jack Screws
Studs
Nuts
Pipe Plugs
Location Dowel (if req.)

Materials:
316 Stainless Steel
Carbon Steel
Alloy 20
Hastelloy
Monel
Face Types:
Raised Face
Ring Type Joint
FLOW MEASUREMENT
Flow Nozzle

Size: 1/4" thru 2"
Style: Concentric
Connection: Socket Weld
Material: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy, Monel

FLOW MEASUREMENT
Venturi

Size: 1/2" thru 24"
Style: Machined Inlet, Rough Cast Inlet, Rough Welded Inlet, 7° Exit Cone, 15° Exit Cone
Class: 150# thru 1500#
Material: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy, Monel

FLOW MEASUREMENT
Restriction Union
3000# & 6000#

Size: 1/4" thru 2"
Style: Concentric
Connection: Socket Weld, Threaded NPT
Material: 316 Stainless Steel, Carbon Steel

FLOW MEASUREMENT
Flow Conditioner

Size: 2" thru 36"
Class: 150# thru 1500#
Type: Line Fit, Flange Fit, CPA
Standard Bore: Schedule 40, Schedule 80
Material: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy, Monel

FLOW MEASUREMENT
Complete Meter Run

Size: 2" thru 12"
Class: 150# thru 1500#
Options: Standard Orifice Flange, Dual Chamber Orifice, Single Chamber Orifice, Flow Conditioner, Venturi, Flow Nozzle, Honed Flow Tubes
 Included Equipment: Orifice, Upstream Pipe, Downstream Pipe, Manifold, DP Transmitter, Flow Computer
Material: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy, Monel
BRACKETS & COUPLERS

Namur
ISO 5211

ENGINEERING ASSISTANCE

General:
AVCO are pleased to offer design assistance with all our products utilizing our in-house designers.
Please feel free to contact us with any specific requirements and we will be happy to oblige.

Examples:
Flow Calculations
Vee Port Sizing
Customized Valve Ends
Skid Layouts
Panel Layouts
CAD Blocks

Material:
316 Stainless Steel

COMPANY PROFILE

Alloy Valves and Control, Inc. (AVCO) is a global leader in innovative engineered valves and instrumentation devices for all types of fluid flow conditions in the piping process market. AVCO’s mission is to design, manufacture and integrate superior products to better serve our customers’ demands and provide engineered solutions for some of the world’s harshest operating conditions in piping.

OUR COMMITMENT

AVCO’s success comes from the ability to supply versatile products for all types of media and the attention to detail we pay each engineered component to create the final design, thus providing a long lasting and cost effective solution. AVCO continues to engineer high quality products and adhere to industry standards to be at the forefront of the wide variety of markets we serve.

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