

STAR
VALVE





THERMOPLASTIC PRODUCTS



TECHNICAL ADVANTAGES

- 1/2" (1.315) to 1.315" (33.32 mm)
- 100% Unpolluted Operating and/or
filling rate available
- 100% Leak-free (0% Leakage rate)
- 100% Leak-proof valve
- 100% Leak-proof from external pressure and
internal pressure (100% Leakage-free operation)
- 100% Long-life valve
- 100% Leak-proof and corrosion-free (100%)
• 100% ready for existing valve fittings
- 100% Long-life operation
- 100% Leak-proof valve
- 100% Leak-free valve

SV330 SERIES

HANDLEVER THREE WAYS BALL VALVES



Material options

- 100
- 101
- 102
- 103
- 104
- 105
- 106

Handle lever type

- 100 (black handle)
- 101 (black handle)
- 102 (black handle)
- 103 (black handle)
- 104 (black handle)
- 105 (black handle)
- 106 (black handle)

Application area

- 100 (black handle)
- 101 (black handle)
- 102 (black handle)
- 103 (black handle)
- 104 (black handle)
- 105 (black handle)
- 106 (black handle)

FE SERIES

HANDLEVER ECONOMICAL TYPE BUTTERFLY VALVES

Technical advantages

- DN 15 - 200 (1/2" - 8") sizes
- All materials available in different sizes
- DN 15 - 100 (1/2" - 4") sizes: 1000 - 1500 mm
- Full range of 2000 series accessories
- All valves are fully tested (EN 558-1) or (EN 558-2) for 100% reliability
- All valves are fully tested for full cycle operation
- 2000 series: full certified and approved
- 2000 series: stainless steel
- 2000 series: cast iron
- The 2000 series (EN 558-1) is approved for use in the following applications:
 - Water
 - Sewer
 - Air
 - Gas
 - Steam
 - Oil
 - Acid
 - Alkali
 - Other corrosive liquids
- The 2000 series valves are fully certified for use in the following applications:
 - Water
 - Sewer
 - Air
 - Gas
 - Steam
 - Oil
 - Acid
 - Alkali
 - Other corrosive liquids



Material options

- 2000 series
- 2000 series SS

Choice of type

- All sizes operability valve
- All sizes operability valve with integral act

Choice of size

- All sizes stainless steel
- All sizes cast iron
- All sizes cast steel

Technical advantages

• 1/2" to 1000" (12500 mm)
• High pressure (up to 1000 bar) and low noise and
vibration (thanks to the design of the valve
and the high quality materials)

• 100% leak-tightness at 100% of the maximum
pressure (thanks to the design of the valve
and the high quality materials)

• 100% efficiency and durability
• 100% (1000000) hours of operation (1000 days of
operation)

• 100% certified (according to international
standards)

• 100% certified (according to international
standards) for the use in the oil and gas
industry

• 100% certified (according to international
standards) for the use in the
chemical industry

VM SERIES

INDUSTRIAL TYPE DIAPHRAGM VALVES



Available options

• 1/2" 100000000
• 1/4" 100000000
• 1000 100000000

Construction type

• 100000000 1000 100000000
• 100000000 1000 100000000

Application areas

• 100000000 100000000
• 100000000 100000000
• 100000000 100000000
• 100000000 100000000
• 100000000 100000000

TECHNICAL ADVANTAGES

- 100% stainless steel body (316L)
- 100% stainless steel internal parts
- High pressure and temperature resistance
- High flow capacity
- High accuracy and repeatability
- High reliability and long service life

SY430 SERIES

PRESSURE CONTROL VALVES



MAIN MODEL SPECIFICATIONS

SY430-100
SY430-150
SY430-200

FUNCTIONAL SPECIFICATIONS

Pressure range: 0.1~10.0 MPa
Flow rate: 0.1~10.0 m³/h
Temperature range: 0~150°C

APPLICATIONS

Water supply
Wastewater treatment

5W610 SERIES

DOUBLE UNION INDUSTRIAL TYPE BALL CHECK VALVES

TECHNICAL ADVANTAGES

- 1/2" - 2" sizes
- Working with stainless steel
- 100% tested under 100 bar pressure
- 100% tested under 100°C
- 100% tested against fire and explosion
- 100% tested with fully automatic
- 100% tested against 100% of any liquid application
- 100% tested against 100% of any gas application
- 100% tested against 100% of any steam application
- 100% tested against 100% of any oil application



AVAILABLE OPTIONS

1/2"	5W610 1/2"
3/4"	5W610 3/4"
1"	5W610 1"
1 1/2"	5W610 1 1/2"
2"	5W610 2"

CONNECTOR TYPE

• Double Union (Standard)
• Flange (DN 150)
• Flange (DN 200)

APPLICABLE MEDIA

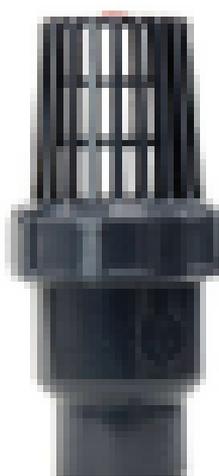
• Water
• Air
• Oil
• Steam
• Gas
• Acid
• Alkali
• Solvent
• Fuel
• Liquefied Gas
• Cryogenic

5W30 SERIES

SINGLE UNION INDUSTRIAL TYPE FOOT VALVES

TECHNICAL ADVANTAGES

- 1/2" - 1 1/2" (DN 15 - 40) in size
- 1/2" and 3/4" in length
- 1/2" and 3/4" in diameter (1/2" and 3/4" in length)
- 1/2" and 3/4" in diameter
- 1/2" and 3/4" in diameter (1/2" and 3/4" in length)
- 1/2" and 3/4" in diameter (1/2" and 3/4" in length)
- 1/2" and 3/4" in diameter (1/2" and 3/4" in length)
- 1/2" and 3/4" in diameter (1/2" and 3/4" in length)



AVAILABLE OPTIONS

1/2"	5W30-1/2"
3/4"	5W30-3/4"
1"	5W30-1"
1 1/2"	5W30-1 1/2"

CONNECTION TYPE

Single Union

APPLICABLE MEDIA

Water, Air, Oil, Gas, Steam, Acid, Alkali, Solvent, etc.
Temperature: 0°C to 150°C
Pressure: 10 bar
DN 15 - 40

RV SERIES

Y-TYPE STAINER

TECHNICAL SPECIFICATIONS

- DN 15 to 100 (1/2" to 4")
- Flange face: standard
- Flange face: 150 mm (6")
- Flange face: 200 mm (8")
- Flange face: 250 mm (10")
- Flange face: 300 mm (12")
- Flange face: 350 mm (14")
- Flange face: 400 mm (16")



INSTALLATION

- 150
- 200
- 250

CONNECTION TYPE

- Flange face: 150 mm (6")
- Flange face: 200 mm (8")
- Flange face: 250 mm (10")
- Flange face: 300 mm (12")

APPLICABLE MEDIA

- Water
- Air
- Oil
- Gas
- Steam
- Acid
- Alkali

TECHNICAL ADVANTAGES

- 2/2 or 3/2 or 3/3 or 4/2 valve
- 200 bar (2900 psi) or 3000 psi
- 100 and 150 working flow rates
- Working under vacuum
- 1000 operations/min
- 2000 or 3000 stroke applications
- 1000000 operations available

5V32 SERIES

2/2 U-PVC SOLENOID VALVES



MATERIAL OPTIONS

- 304 SS
- 316 SS
- 303 SS

COIL TYPE

- 120V AC

APPLICABLE USES

- Gas and liquid control
- Pharmaceutical
- Air handling
- Medical
- Chemical
- Food
- Water

5W930 SERIES

U-PVC PIPE AND FITTINGS

TECHNICAL ADVANTAGES

- 20 - 100% recyclable
- Environmentally friendly
- Long service life
- High strength
- High stiffness
- High impact resistance
- High corrosion resistance
- High fire resistance
- High UV resistance



TECHNICAL ADVANTAGES

- 100% UV resistant
- Excellent weather and chemical resistance
- Excellent electrical insulation
- Long service life (up to 50 years) by providing excellent UV resistance
- High mechanical strength
- Excellent abrasion and corrosion resistance
- 100% recyclable and easy to recycle
- 100% fire-retardant (UL94V0)

• ISO 9001:2015 certified

SYR30 SERIES

PP-R PIPE AND FITTINGS

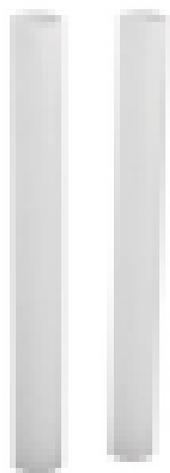


SW930 SERIES

PVDF PIPE AND FITTINGS

Technical advantages

- 20° - 27° expansion
- Chemical resistance
- Temperature resistance
- Low thermal conductivity
- High mechanical strength
- High resistance to aging
- High resistance to stress
- High resistance to impact
- High resistance to UV radiation
- High resistance to fire
- High resistance to acids
- High resistance to alkalis

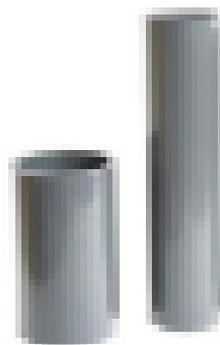
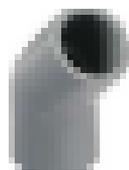


TECHNICAL ADVANTAGES

- 100% UV resistant
- Standard length of 6 meters
- Outstanding fire performance by:
 - self-extinguishing
 - low smoke and toxicity
 - low heat release
- 100% recyclable
- 100% non-toxic
- 100% non-flammable
- 100% 100% chlorine

SYF30 SERIES

C-PVC PIPE AND FITTINGS

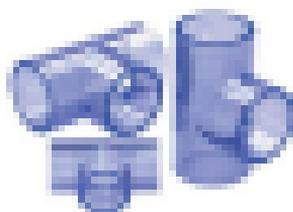
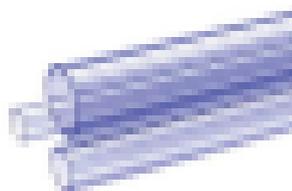


5W930 SERIES

CLEAR PVC PIPE AND FITTINGS

Technical advantages

- 20' - 40' lengths
- 100% recyclable, made from recycled material
- 100% chlorine free
- 100% lead free
- 100% phthalate free
- 100% cadmium free
- 100% mercury free
- 100% arsenic free
- 100% hexavalent chromium free
- 100% nickel free
- 100% copper free



TECHNICAL ADVANTAGES

- High impact strength (10000 N/cm²)
- High strength and low weight
- Wide operating temperature range (-40 to +100)
- High resistance to acids
- High gas permeability
- Excellent weldability
- Low thermal coefficient of expansion (Temperature range)
- High resistance to aging (UV radiation)
- High electrical resistance

SYNCO SERIES

ABS PIPE AND FITTINGS





PFA / PTFE (TEFLON) LINED PRODUCTS



5W350 SERIES

PTFE (TEFLON) LINED BUTTERFLY VALVES

TECHNICAL ADVANTAGES

- 100% PTFE (TEFLON) lining
- Excellent chemical resistance, especially for aggressive acids and alkalis
- Excellent resistance to erosion
- Wide operating temperature range (body and disc)
- Excellent low torque and low pressure drop characteristics
- Also, 100% PTFE (TEFLON) lining on the outside for corrosion protection
- 100% stainless steel body and trim options available
- 100% stainless steel body and trim standard
- 100% stainless steel body and trim options available



OPTIONAL FEATURES

- Body, disc and trim 100% PTFE (TEFLON) lined
- 100% stainless steel body and trim
- Also, 100% stainless steel body and trim (optional) available on standard size

CONTROL OPTIONS

- Pneumatic actuator (double acting)
- 100% PTFE (TEFLON) lining
- 100% stainless steel body and trim (optional) available on standard size
- 100% stainless steel body and trim (optional) available on standard size

APPLICATIONS AREA

- Sewer and wastewater treatment
- Acid, alkali, bleach, lime
- Pharmaceutical and chemical processing
- Food processing
- Water supply
- Paper industry
- Pulp industry

TECHNICAL ADVANTAGES

- 100% PFA (TEFLON) lining
- Excellent high-temperature performance
- High-velocity pump applications (hydrochloric acid) without maintenance
- 100% chemical compatibility against hydrochloric acid
- 100% chemical compatibility against sulfuric acid
- 100% chemical compatibility against phosphoric acid

SYN400 SERIES

PFA (TEFLON) LINED DIAPHRAGM VALVES



OPTIONAL OPTIONS

- Body: 316L stainless steel
or 304 stainless steel
- Handwheel: 316L SS
- Handwheel: 304 SS

CONTROL OPTIONS

- Pneumatic
• 24VDC/120VAC/240VAC
• Solenoid/actuator valve

APPLICATIONS ARE

- Chemical processing industry
- Water treatment
• Industrial (hydrochloric acid
and phosphoric acid)
- Pharmaceutical
- Food Industry
- Dairy Industry
- Paper Industry

5W340 SERIES

PPA (TEFLON) LINED PLUG VALVES

TECHNICAL ADVANTAGES

- 2000, 3000 series
- 100% high strength polyethylene capability
- High strength, abrasion resistant and high impact resistance
- 2000 series and 3000 series high pressure capability
- 2000 series 1000 psi
- 3000 series 1500 psi



OPTIONAL OPTIONS

- Body 2000 Series Red
500 1000000000
- Body 3000 Series Red
500 1000000000
- Body 2000 Series Red
500 1000000000

CONTROL OPTIONS

- Electric actuator (optional)
- 2000 Series 1000 psi
- 3000 Series 1500 psi
- 2000 Series 1000 psi
- 3000 Series 1500 psi

APPLICATIONS ARE

- High pressure applications
- High impact applications
- High strength applications
- High pressure applications
- High impact applications
- High strength applications

TECHNICAL ADVANTAGES

- 200 - 1500 PSI (13.8 - 103.4 Bar) Pressure
- 2000 Series (High Pressure) (1000PSI) - Stainless Steel / Special Materials
- Available in various materials, especially stainless steel and special alloys
- Available in various sizes
- Various end and flange configurations
- 2000 Series (High Pressure)

5000/6000 SERIES

PPA (TEFLON) LINED CHECK VALVES



OPTIONAL OPTIONS

- Body 304/316/316L Steel
- 6000 Series (High Pressure)
- 2000 Series (High Pressure)

OPTIONAL OPTIONS

- Body Material: 304/316/316L Steel
- 2000 Series (High Pressure)
- 2000 Series (High Pressure)
- 2000 Series (High Pressure)

APPLICATIONS

- Water and wastewater treatment
- Chemical processing
- Pharmaceutical and biotechnology
- Food and beverage processing
- Power generation
- Pulp and paper processing

5W250 SERIES

PTFE (TEFLON) LINED BALL VALVES

TECHNICAL ADVANTAGES

- 100% PTFE (Teflon) lining
- Excellent high pressure capabilities
- Excellent chemical resistance and long service life
- 100% PTFE (Teflon) ball
- Excellent flow control
- Available in various sizes
- Easy to install and maintain
- 100% PTFE (Teflon) body
- 100% PTFE (Teflon) stem



OPTIONAL FEATURES

- 100% PTFE (Teflon) lining
- 100% PTFE (Teflon) ball
- 100% PTFE (Teflon) stem
- 100% PTFE (Teflon) body

CONTROL OPTIONS

- Manual operation (handwheel)
- 100% PTFE (Teflon) lining
- 100% PTFE (Teflon) ball
- 100% PTFE (Teflon) stem
- 100% PTFE (Teflon) body

APPLICATIONS

- High pressure applications
- 100% PTFE (Teflon) lining
- 100% PTFE (Teflon) ball
- 100% PTFE (Teflon) stem
- 100% PTFE (Teflon) body

TECHNICAL ADVANTAGES

- 100% PFA (TEFLON)
- Excellent high-temperature performance
- Excellent pressure ratings and hydrodynamic flow characteristics
- Excellent resistance to acids and other corrosive media
- Excellent resistance to oxidation and other environmental stresses
- 100% high-purity technology equipment

SYSTEM SERIES

PFA (TEFLON) EXPANSION JOINT



MATERIAL OPTIONS

- PFA
- 316L Stainless Steel
- 304 Stainless Steel
- 303 Stainless Steel
- Hastelloy C276 (N10288)

CONNECTOR TYPE OPTIONS

- Flange

APPLICATIONS

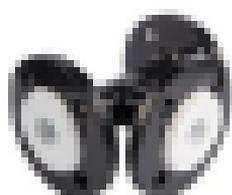
- High-temperature venting
- Acid (HCl, HF, HNO₃) and organic (acetic acid) processing and recovery systems
- Air flow control
- Chlorine delivery
- Hydrogen
- Hydrofluoric

5WV30 SERIES

PTFE / PFA (TEFLON) LINED PIPE AND FITTINGS

TECHNICAL ADVANTAGES

- 200% - 300% increase in throughput vs. stainless steel
- 100% chemical resistance
- 100% sanitary design
- 100% non-toxic
- 100% FDA approved
- 100% cleanability







METAL VALVES

STAR
VALVE

5W320 SERIES

ELECTRICAL ACTUATED WAFER TYPE BUTTERFLY VALVES

Technical advantages

- 1/2" - 24" (DN15 - 600) wafer valves
- Flange configuration:
 - ANSI/ASME Class 150
 - EN 1092-1
- Valve body material: Cast iron and stainless steel
- 5W320 Series: 1500 (ANSI Class 150) (Optional)
- 5W321 Series: 300 (ANSI Class 300) (Optional)
- 5W322 Series: 600 (ANSI Class 600) (Optional)
- 5W323 Series: 900 (ANSI Class 900) (Optional)
- 5W324 Series: 1500 (ANSI Class 1500) (Optional)
- 5W325 Series: 2500 (ANSI Class 2500) (Optional)
- 5W326 Series: 4500 (ANSI Class 4500) (Optional)
- 5W327 Series: 9000 (ANSI Class 9000) (Optional)



Actuator features

- 100% service factor (100% full on operation)
- 100% service factor
- 100% service factor
- 100% service factor

5W320 Series

- 1/2" - 24" (DN15 - 600) wafer valves
- Flange configuration:
 - ANSI/ASME Class 150
 - EN 1092-1
- Valve body material: Cast iron and stainless steel

- 5W320 Series: 1500 (ANSI Class 150) (Optional)
- 5W321 Series: 300 (ANSI Class 300) (Optional)
- 5W322 Series: 600 (ANSI Class 600) (Optional)

- 5W323 Series: 900 (ANSI Class 900) (Optional)
- 5W324 Series: 1500 (ANSI Class 1500) (Optional)
- 5W325 Series: 2500 (ANSI Class 2500) (Optional)
- 5W326 Series: 4500 (ANSI Class 4500) (Optional)
- 5W327 Series: 9000 (ANSI Class 9000) (Optional)

- 5W320 Series: 1500 (ANSI Class 150) (Optional)
- 5W321 Series: 300 (ANSI Class 300) (Optional)
- 5W322 Series: 600 (ANSI Class 600) (Optional)

- 5W323 Series: 900 (ANSI Class 900) (Optional)
- 5W324 Series: 1500 (ANSI Class 1500) (Optional)
- 5W325 Series: 2500 (ANSI Class 2500) (Optional)
- 5W326 Series: 4500 (ANSI Class 4500) (Optional)
- 5W327 Series: 9000 (ANSI Class 9000) (Optional)

- 5W320 Series: 1500 (ANSI Class 150) (Optional)
- 5W321 Series: 300 (ANSI Class 300) (Optional)
- 5W322 Series: 600 (ANSI Class 600) (Optional)

- 5W323 Series: 900 (ANSI Class 900) (Optional)
- 5W324 Series: 1500 (ANSI Class 1500) (Optional)
- 5W325 Series: 2500 (ANSI Class 2500) (Optional)
- 5W326 Series: 4500 (ANSI Class 4500) (Optional)
- 5W327 Series: 9000 (ANSI Class 9000) (Optional)

- 5W320 Series: 1500 (ANSI Class 150) (Optional)
- 5W321 Series: 300 (ANSI Class 300) (Optional)
- 5W322 Series: 600 (ANSI Class 600) (Optional)

TECHNICAL ADVANTAGES

- 2" - 24" (50mm - 600mm) nominal size
- Available for standard and high pressure (1000psi class) service (API)
- API 609 - 609A (Wafer type) and API 609B (Wafer type)
- ISO 5211 mounting for third party actuators - available on request
- Heavy service design
- Special (Chemical, Petrochemical and Industrial) materials on request
- 500psi max working pressure
- ISO 9001 and ISO 14001 certified
- API 609, ISO 9001

SY3000 SERIES

WAFFER TYPE BUTTERFLY VALVES



APPLICATIONS

- Water and Wastewater Industry
- Chemical Process Industries
- Petrochemical and Refining Industry
- Manufacturing
- Agriculture
- Power

STEEL CLASSIFICATION

- ANSI/ASME B16.34
- API 609
- API 609A
- API 609B

- EN 1092-1
- EN 1092-2
- EN 1092-3

- ISO 5211 - 1
- ISO 5211 - 2

- ISO 5211 - 3
- ISO 5211 - 4
- ISO 5211 - 5

5W330 SERIES

ELECTRICAL ACTUATED WAFER TYPE BUTTERFLY VALVES

Technical advantages

- DN 150 - 2000 - 15000mm pressure
- Flange configuration
- Temperature applications
- Valve body design (Full bore and others)
- 50000 - 1000000 cycles (Standard 1000000 cycles)
- 100% - 100% working temperature with flange
- 1000000 working cycles



Actuator features

- Valve control - 100% ON or 100% OFF

Valve features

- 100% ON or 100% OFF

- 100% ON or 100% OFF
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- 100% ON or 100% OFF

TECHNICAL ADVANTAGES

- DN 100 - 2000 - 150000 bar (class)
- Specifically designed for heavy industrial applications
- DN100 - 2000 - 150000 bar (class)
1.5000 - 2.0000 (pressure) - 1.5000 - 2.0000 (temp)
- 100% tested by hydrostatic test at 1.5 times the design pressure
- Also available in range of Steel for ISO 5208 conformity
1.5000 (pressure) - 1.5000 (temp) - 1.5000 (temp)
- ISO 9001 Certified

SYD90 SERIES

WAFLER TYPE TRIPLE ECCENTRIC HIGH PERFORMANCE BUTTERFLY VALVES



ACTUATOR FEATURES

- Electric or Pneumatic
- Intrinsic safety version
- Double acting or single acting
- Torque up to 10000 Nm (7500 ft.lbs)
- 100% tested by hydrostatic test
- 100% tested by pneumatic test
- 100% tested by torque test

- Double acting
- Torque up to 10000 Nm (7500 ft.lbs)
- 100% tested by hydrostatic test
- 100% tested by pneumatic test
- 100% tested by torque test

SEAL FEATURES

- Single Seals
- 2000 bar
- 100% tested

- Single Seals
- 1500 bar
- 100% tested
- 100% tested by hydrostatic test
- 100% tested by pneumatic test

- Single Seals
- 1000 bar
- 100% tested
- 100% tested by hydrostatic test
- 100% tested by pneumatic test

5W340 SERIES

HYGIENIC BUTTERFLY VALVES

TECHNICAL ADVANTAGES

- 100 x 100 mm
- 100 mm bore valves
- 100 mm sanitary stainless steel or stainless steel
to meet sanitary standards
- 100 mm bore valves
- 100 mm sanitary stainless steel or stainless steel
to meet sanitary standards



Electric Actuator (EPA)

- 100 mm bore
- 100 mm length

100 mm sanitary stainless steel

- 100 mm bore stainless steel butterfly valve
- 100 mm length, stainless steel or
stainless steel
- 100 mm sanitary stainless steel butterfly valve
(sanitary butterfly valve)
- 100 mm length

100 mm sanitary stainless steel

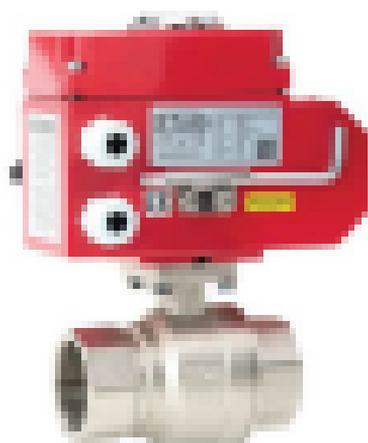
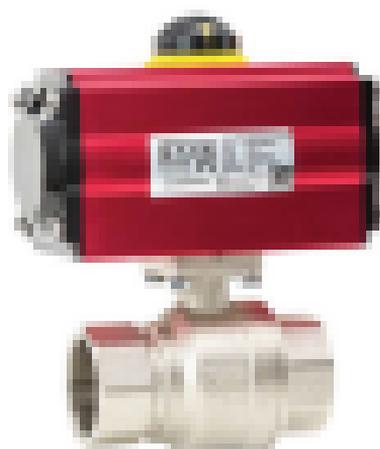
- 100 mm bore butterfly valve
- 100 mm length, stainless steel or
stainless steel (high sanitary standards)
- 100 mm length

TECHNICAL ADVANTAGES

- 1/2" to 2" sizes
- 1/2" to 2" NPT (male and female)
- 1/2" to 2" BSP (male and female)
- 1/2" to 2" JIS (male and female)
- 1/2" to 2" ANSI (male and female)
- 1/2" to 2" DIN (male and female)
- 1/2" to 2" G (male and female)

5V332 SERIES

PNEUMATIC/ ELECTRICAL ACTUATED BRASS BALL VALVES



ADVANTAGES

- Durable design
- Stainless steel body
- 1/2" to 2" sizes (male and female)
- 1/2" to 2" NPT (male and female)
- 1/2" to 2" BSP (male and female)
- 1/2" to 2" JIS (male and female)
- 1/2" to 2" ANSI (male and female)
- 1/2" to 2" DIN (male and female)
- 1/2" to 2" G (male and female)

- Durable design
- 1/2" to 2" sizes (male and female)
- 1/2" to 2" NPT (male and female)
- 1/2" to 2" BSP (male and female)
- 1/2" to 2" JIS (male and female)
- 1/2" to 2" ANSI (male and female)
- 1/2" to 2" DIN (male and female)
- 1/2" to 2" G (male and female)

APPLICATIONS

- Water and wastewater treatment
- Chemical and petrochemical
- Power generation and distribution
- Industrial process control
- Marine and offshore
- Agriculture
- Mining
- Oil and gas

5W212 SERIES

TWO PCS THREADED END BALL VALVES

Technical advantages

- 2" - 12" sizes
- 5W212 series ball valves are available in stainless steel (Type 316)
- Full bore end connection - even sizes 2" (50) and 3" (75)
- 5W212 series ball valves are approved



Material options

- 316L stainless steel
- 304 stainless steel

Connection type

- Flange end
- End flange
- Threaded end

Application area

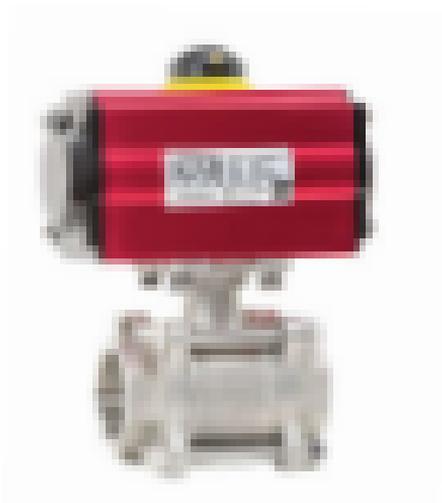
- Offshore and industrial use
- Water and sewer treatment
- Oil and gas processing, refinery, petrochemical industry
- Mining industry
- Chemical industry
- Shipbuilding

TECHNICAL ADVANTAGES

- 1/2" - 4" sizes
- 1/2" - 4" NPT or 1/2" - 4" Flange design
- 1/2" - 4" pressure ratings per the manufacturer
- 1/2" - 4" working pressure
- 1/2" - 4" working temperature
- 1/2" - 4" working diameter
- 1/2" - 4" working length
- 1/2" - 4" working weight

5V333 SERIES

PNEUMATIC ACTUATED THREADED END BALL VALVES



MATERIAL OPTIONS

- 304/316 Stainless Steel
- 2025 Aluminum

CONNECTION TYPE

- Flange End
- 1/2" - 4" NPT
- 1/2" - 4" Flange

ACTUATION FEATURES

- 1/2" - 4" working pressure
- 1/2" - 4" working temperature
- 1/2" - 4" working diameter
- 1/2" - 4" working length
- 1/2" - 4" working weight
- 1/2" - 4" working weight

5W213 SERIES

ELECTRICAL ACTUATED THREADED END BALL VALVES

Technical advantages

- 20" x 2" sizes
- 100% leak tight ball-to-body design
- 100% pressure tested to 100% of working pressure
- 100% NACE MR0175 & API 607 certified (Type 316)
- 100% NACE MR0175
- 100% tested to working pressure
- 100% threaded ends
- 100% pressure tested to 100% of working pressure
- 100% NACE MR0175



Material options

- 316 stainless steel
- 304 stainless steel

Connection Type

- Flange
- 1/2" NPT
- 3/4" NPT

Actuator Options

- 24VDC (nominal) 100mA (max) AC
- 24VDC (nominal) 100mA (max) DC
- 24VDC (nominal) 100mA (max) AC/DC
- 24VDC (nominal) 100mA (max) AC/DC/DC
- 24VDC (nominal) 100mA (max) AC/DC/DC/DC

5W224 SERIES

ELECTRICAL ACTUATED MONOBLOCK TYPE BALL VALVES

Technical advantages

- 5W224-500 series
- 5W224-500 series with integral actuator



Material options

- 316L stainless steel
- 304 stainless steel

Connection type

- Flange

Actuator type

- 5W224-500 series with integral actuator

TECHNICAL ADVANTAGES

- ISO 5211 mounting
- wide operating and working range
- long life expectancy
- ISO 5211 mounting for pneumatic actuators
- wide working range
- ISO 5211 mounting

5V025 SERIES

LEVER / PNEUMATIC ACTUATED TWO PIECES TYPE FLANGED BALL VALVES



OPTIONAL ACCESSORIES

- ISO 5211 mounting
- ISO 5211 mounting

Standard Type

- Flange

OPTIONAL ACCESSORIES

- ISO 5211 mounting

SWISS SERIES

ELECTRICAL ACTUATED TWO PIECES TYPE FLANGED BALL VALVES

Technical advantages

- ISO 5211 design
- ISO 5211 body with actuator design
- Flange face perpendicular to the pipe
- ISO 5211 design compatible with ISO 5211 actuators
- ISO 5211 body number 10000 (standard) and 10001 (special) available
- ISO 5211 series



OPTIONAL OPTIONS

- ISO 5211 body 10001
- ISO 5211 body 10000

APPLICATIONS

- Petrochemical industry
- Water treatment industry
- Air conditioning industry
- Power industry
- Chemical industry
- Food industry

ACTUATOR FEATURES

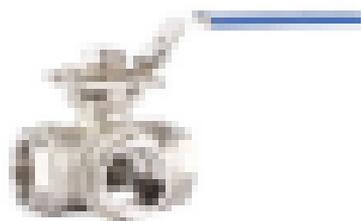
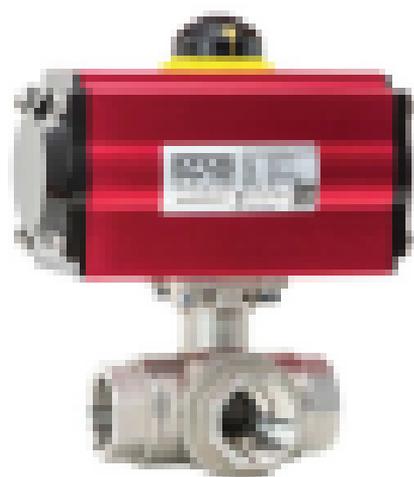
- ISO 5211 body 10000 / 10001
- ISO 5211 body 10000
- ISO 5211 body 10001
- ISO 5211 body 10000 / 10001

TECHNICAL ADVANTAGES

- 100% stainless steel construction, with optional fluoropolymer lining
- 100% leak-free operation, even at 1000 psi (68.9 bar)
- 100% operation failure-free
- 100% clean

5V210 / 234 SERIES

LEVER / PNEUMATIC ACTUATED THREE WAYS BALL VALVES



OPTIONAL OPTIONS

- 100% stainless steel
- 100% stainless steel

APPLICATIONS

- 100% clean, 100% leak-free
- 100% stainless steel
- 100% operation failure-free
- 100% clean
- 100% operation failure-free
- 100% clean

ADVANTAGES

- 100% clean, 100% leak-free
- 100% operation failure-free
- 100% clean, 100% leak-free
- 100% operation failure-free
- 100% clean, 100% leak-free
- 100% operation failure-free

5W233 / 5W34 SERIES

ELECTRICAL ACTUATED THREE WAYS BALL VALVES

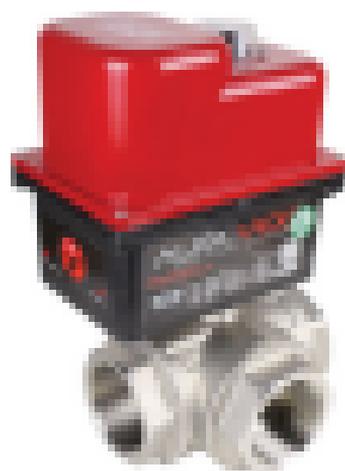
TECHNICAL ADVANTAGES

• 5W233 and 5W34 with actuator range
• 5W233 and 5W34 with actuator range
• 5W233 and 5W34 with actuator range

• 5W233 and 5W34 with actuator range

• 5W233 and 5W34 with actuator range

• 5W233 and 5W34 with actuator range



OPTIONAL ACCESSORIES

- 5W233 and 5W34 with actuator range
- 5W233 and 5W34 with actuator range

CONNECTION PORT

- 5W233 and 5W34 with actuator range

ACTUATOR RANGE

- 5W233 and 5W34 with actuator range
- 5W233 and 5W34 with actuator range
- 5W233 and 5W34 with actuator range
- 5W233 and 5W34 with actuator range

TECHNICAL ADVANTAGES

- 100% 316L stainless steel
- One-piece construction design
- One-piece construction design reduces assembly time
- One-piece construction design eliminates welds
- One-piece construction design eliminates gaskets and O-rings
- 100% 316L stainless steel construction
- 100% stainless steel construction

5V457 SERIES

DUAL PLATE CHECK VALVES



Design Standards

- Design Standard: ASME B16.34
- Design Standard: ANSI B16.34
- Design Standard: MSS SP-58

Application Data

- Service: Water, Steam, Air, Gas
- Pressure: 150 psig (10.3 barg)
- Temperature: -20 to 300 °F (-30 to 150 °C)

Construction Data

- Material: 316L SS

SW950 SERIES

WAFER TYPE MANUAL KNIFE GATE VALVES

TECHNICAL ADVANTAGES

- ISO 5211 mounting
- ISO 5211/10000 standard



ADVANTAGES

- Reducing the volume of the valve with standardized design
- Reducing the volume of the valve with standardized design
- Reducing the volume of the valve with standardized design
- Reducing the volume of the valve with standardized design
- Reducing the volume of the valve with standardized design
- Reducing the volume of the valve with standardized design

APPLICATION AREA

- Water and wastewater
- Industrial and municipal
- Mining industry
- Chemical industry
- Other applications

SW956 SERIES

SLURRY TYPE KNIFE GATE VALVES

Technical advantages

- High efficiency valves
- Excellent performance
- Excellent longevity and reliability
- Compact and lightweight construction
- Low maintenance and easy operation
- High performance, durable and reliable construction
- Excellent performance in high pressure applications
- High performance
- High performance
- High performance
- High performance



Accessories

- Excellent performance in applications with high differential pressure
- High performance
- High performance

Application area

- Slurry handling
- Slurry flow
- Slurry flow
- Slurry flow

TECHNICAL ADVANTAGES

- 100% leakage-free
- No pressure loss in closed position
- 100% maintenance-free
- "Maintenance-free" operation
- Available for diameters up to 1000 mm

OTHER TYPE

KNIFE GATE VALVES



ADVANTAGES

- Closing the valve is possible without external energy
- No pressure loss in closed position and no leakage
- 100% maintenance-free operation
- Available for diameters up to 1000 mm
- 100% leakage-free
- Available for diameters up to 1000 mm

APPLICATION AREA

- Waterworks, Sewerage and Drainage
- Chemical Industry
- Paper Industry and Pulp Mills
- Mining
- Steel Industry
- Food Industry
- Power Generation
- Shipbuilding

CONNECTOR TYPE

- Flange Mounted
- Electric Handwheel
- Electric Handwheel
- Electric Handwheel

TECHNICAL ADVANTAGES

- ISO 5175 / ISO 5176 series
- Cast iron and stainless steel body options
- Two and three phase for easy handling
- ISO 5175 series
- ISO 5176 series
- ISO 5175 series / ISO 5176 series / ISO 5175 series / ISO 5176 series

5175/76 SERIES

MANUAL / PNEUMATIC ACTUATED VALVES



MANUAL OPERATED

- ISO 5175 series
- ISO 5176 series
- ISO 5175 series / ISO 5176 series

ACTUATOR FEATURES

- ISO 5175 series
- ISO 5176 series / ISO 5175 series
- ISO 5175 series / ISO 5176 series
- ISO 5175 series / ISO 5176 series
- ISO 5175 series / ISO 5176 series

APPLICATION AREA

- ISO 5175 series / ISO 5176 series



ACTUATORS



STAR-P SERIES

ALUMINUM BODY PNEUMATIC ACTUATORS

TECHNICAL ADVANTAGES

- 100% aluminum body
- 100% stainless steel internal components
- 100% stainless steel pistons and seals
- 100% stainless steel valves
- 100% stainless steel rods
- 100% stainless steel end caps
- 100% stainless steel mounting brackets
- 100% stainless steel nuts and bolts
- 100% stainless steel pins
- 100% stainless steel washers
- 100% stainless steel O-rings

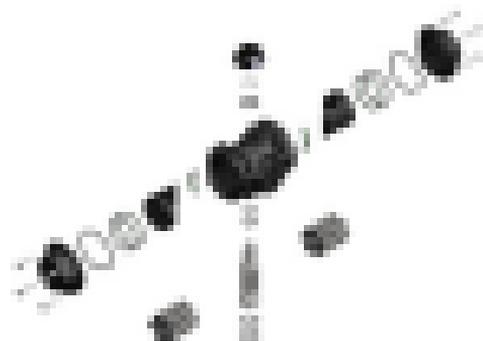


TECHNICAL ADVANTAGES

- High flow and low pressure drop with excellent seal-off performance
- High strength body design for excellent performance and long service life
- ISO 5200, ISO 5201, ISO 5202 standards
- High safety and reliability
- Good seal-off capability and long service life
- Good seal-off performance and long service life

STAR-PP SERIES

POLYAMIDE BODY PNEUMATIC ACTUATORS



PNEUMATIC ACTUATOR ACCESSORIES

LIMIT SWITCH BOX

- Standard 1/2" connection
- Operated 1/2" thread with 1/2" connection in pressure
- 20 to 100 bar maximum working pressure
- 400 mm length 1000 mm distance between connection points
- 200 mm pressure port for 1/2" thread connection of intermediate valve connection
- 100 mm thread 1/2" connection



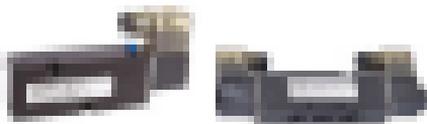
THERMOPLASTIC LIMIT SWITCH BOX

- 100 mm length 100 mm
- Standard 1/2" connection
- 100 mm thread with 1/2" connection in pressure
- 20 to 100 bar maximum working pressure
- 400 mm length 1000 mm distance between connection points
- 200 mm pressure port for 1/2" thread connection of intermediate valve connection



NUMERICAL TYPE AIR SOLENOID VALVE

- Standard 1/2" connection
- 100 mm working pressure 1000 mm connection
- 100 mm maximum length
- 100 mm pressure port 1000 mm connection
- 100 mm pressure port 1000 mm connection



AIR SOLENOID VALVE

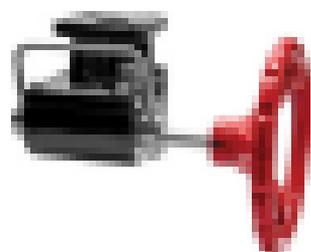
- Standard 1/2" connection
- 100 mm maximum length
- 100 mm pressure port 1000 mm connection
- 100 mm pressure port 1000 mm connection
- 100 mm pressure port 1000 mm connection



PNEUMATIC ACTUATOR ACCESSORIES

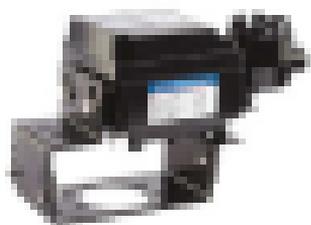
MANUAL CLUTCH TYPE GEARBOX

- 200 Bar, 1000 Bar, 15000 Bar
- 1/2", 1/4" (1/8") Bar Connections
- High Torque (1000 Nm) (10000 Nm) (15000 Nm) (20000 Nm) (30000 Nm) (40000 Nm) (50000 Nm) (60000 Nm) (70000 Nm) (80000 Nm) (90000 Nm) (100000 Nm)
- High Torque (1000 Nm) (10000 Nm) (15000 Nm) (20000 Nm) (30000 Nm) (40000 Nm) (50000 Nm) (60000 Nm) (70000 Nm) (80000 Nm) (90000 Nm) (100000 Nm)
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POSITIONERS

- 200 Bar, 1000 Bar, 15000 Bar
- 1/2", 1/4" (1/8") Bar Connections
- High Torque (1000 Nm) (10000 Nm) (15000 Nm) (20000 Nm) (30000 Nm) (40000 Nm) (50000 Nm) (60000 Nm) (70000 Nm) (80000 Nm) (90000 Nm) (100000 Nm)
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VALVE TERMINAL

- 200 Bar, 1000 Bar, 15000 Bar
- 1/2", 1/4" (1/8") Bar Connections
- High Torque (1000 Nm) (10000 Nm) (15000 Nm) (20000 Nm) (30000 Nm) (40000 Nm) (50000 Nm) (60000 Nm) (70000 Nm) (80000 Nm) (90000 Nm) (100000 Nm)
- High Torque (1000 Nm) (10000 Nm) (15000 Nm) (20000 Nm) (30000 Nm) (40000 Nm) (50000 Nm) (60000 Nm) (70000 Nm) (80000 Nm) (90000 Nm) (100000 Nm)
- High Torque (1000 Nm) (10000 Nm) (15000 Nm) (20000 Nm) (30000 Nm) (40000 Nm) (50000 Nm) (60000 Nm) (70000 Nm) (80000 Nm) (90000 Nm) (100000 Nm)



Technical advantages

- 200W, 300W, 500W, 750W, 1000W configurations
- 1/4, 1/2, 3/4, 1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 30, 45, 60, 90, 180° (Programmable)
- 2000 RPM, 3000 RPM, 5000 RPM speed options
- 100% duty cycle (using 100% of rated torque)
- Motor and gearbox protected from dust and moisture
- Easy mounting (flange mounted or by cable)
- 100% programmable torque (up to 100% of rated torque)
- 100% programmable speed (up to 100% of rated speed)
- 100% programmable torque and speed
- 100% programmable torque and speed
- 100% programmable torque and speed

TECHNICAL SPECIFICATION

Advantages

100% programmable torque

Advantages

100% programmable torque and speed

Advantages

100% programmable torque

Advantages

100% programmable torque and speed

Advantages

100% programmable torque and speed

Advantages

100% programmable torque

Advantages

100% programmable torque

Advantages

100% programmable torque and speed

Advantages

100% programmable torque

ALFA SERIES

QUARTER TURN ELECTRICAL ACTUATORS



STAR-E SERIES

QUARTER TURN ELECTRICAL ACTUATORS



TECHNICAL ADVANTAGES

- 2000 and 4000 Nm torque range
- 27° reduced 90° rotation time
- 2000, 3000, 4000, 5000, 6000, 8000 Nm torque options
- 2000 Nm is available for optional motor function (Standard or Alternative Motor) and 4000 Nm is available for 2000 Nm
- Available for optional motor function and motor cable
- 2000 torque model is available for open channel, closed channel and submersible installation
- Available for optional 2000 Nm for 4000 Nm
- Available for optional 4000 Nm for 2000 Nm
- Available for optional 4000 Nm for 2000 Nm

TECHNICAL SPECIFICATION

- **2000 Nm**
Torque 2000 Nm
- **4000 Nm**
Torque 4000 Nm (optional)
- **27°**
Rotation time
- **2000 Nm**
Open channel and submersible
- **4000 Nm**
Open channel
- **2000 Nm**
2000 Nm, 4000 Nm
- **4000 Nm**
Open channel and submersible (2000 Nm optional)
- **2000 Nm**
2000 Nm, 4000 Nm
- **4000 Nm**
2000 Nm, 4000 Nm
- **2000 Nm**
2000 Nm, 4000 Nm
- **4000 Nm**
2000 Nm, 4000 Nm
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- **2000 Nm**
2000 Nm, 4000 Nm
- **4000 Nm**
2000 Nm, 4000 Nm
- **2000 Nm**
2000 Nm, 4000 Nm
- **4000 Nm**
2000 Nm, 4000 Nm



MEASURING AND CONTROL EQUIPMENT



5W17 SERIES

DIAPHRAGM TYPE PRESSURE GAUGE

TECHNICAL ADVANTAGES

- 100% WATERPROOF
- 100% OILPROOF
- 100% VIBRATIONPROOF
- 100% SHOCKPROOF
- 100% TEMPERATUREPROOF
- 100% CORROSIONPROOF



CONNECTION TYPE

• G1/2" (15.875mm) G1/4" (6.35mm)

APPLICATIONS

• General industrial use
• Air, oil, water, cooling
• Refrigeration, air conditioning
• Hydraulic systems
• Mining, drilling
• Agriculture
• Automobile



