Industrial Valves, Fittings, Flanges & Actuators

Product Catalogue — Demonstration Edition

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Butterfly Valves

Quarter-turn wafer and lug type valves — including chemical-resistant UPVC/PP bodies — for isolation and flow regulation.

Wafer Type Butterfly Valve (CI Body)

A compact, lightweight wafer-pattern butterfly valve fitted between two flanges. Suitable for isolation and throttling in water treatment, HVAC chilled-water and general utility services.

Size range	DN 50 – DN 600 (2" – 24")
Pressure rating	PN 10 / PN 16
Body material	Cast iron (IS 210 FG 200)
Disc	SS 304 / Ductile iron, nylon coated
Seat	EPDM / NBR
Operation	Lever (up to DN 150), gear box above
End connection	Wafer, suits PN 10/16 flanges
Temperature	-10 °C to 120 °C (EPDM)

Applications: Water treatment plants, HVAC chilled-water lines, Fire-fighting systems, Cooling towers

Lug Type Butterfly Valve (DI Body)

Ductile-iron lug-pattern butterfly valve with threaded lugs, allowing one side of the pipeline to be removed while the valve remains in service.

Size range	DN 80 – DN 400 (3" – 16")
Pressure rating	PN 16
Body material	Ductile iron (GGG 40)
Disc	CF8M stainless steel
Seat	EPDM / Viton
Operation	Gear box / pneumatic actuator
End connection	Lug, drilled to PN 16
Temperature	-10 °C to 150 °C (Viton)

Applications: Process water, Pump discharge isolation, Industrial utilities

UPVC / PP Butterfly Valve (Chemical Service)

A thermoplastic wafer butterfly valve with UPVC or PP body and EPDM/Viton liner, designed for corrosive chemical lines, water treatment and FRP/PP tank outlets where metal valves would corrode.

Size range	DN 50 – DN 300 (2" – 12")
Pressure rating	PN 10 (at 20 °C)
Body material	UPVC / PP / PVDF (on request)
Disc	UPVC / PP / PVDF
Seat	EPDM / Viton (FKM)
Operation	Lever / gear box / pneumatic actuator
End connection	Wafer, suits PN 10 / ANSI 150 flanges
Temperature	0 °C to 60 °C (UPVC), up to 90 °C (PP)

Applications: Acid & alkali transfer lines, Water & effluent treatment, Tank outlets, Scrubber systems

Ball Valves

Reliable tight shut-off for water, air, oil and chemical lines — screwed, flanged and full-bore designs.

3-Piece Ball Valve (SS 316, Screwed)

A three-piece full-bore ball valve in stainless steel, allowing the centre section to be removed for maintenance without disturbing the pipeline.

Size range	15 NB – 50 NB (½" – 2")
Pressure rating	1000 WOG
Body material	CF8M (SS 316)
Ball	SS 316, full bore
Seat	PTFE / RPTFE
Operation	Lever with locking device
End connection	Screwed (BSP/NPT) or socket weld
Temperature	-20 °C to 180 °C

Applications: Chemical dosing, Compressed air, Food & pharma utilities, Hot water lines

Flanged Ball Valve (Carbon Steel)

A robust two-piece carbon-steel ball valve with raised-face flanged ends, commonly used for isolation in oil, gas and process utilities.

Size range	25 NB – 200 NB (1" – 8")
Pressure rating	ASME Class 150 / 300
Body material	ASTM A216 WCB
Ball	SS 304 / SS 316
Seat	RPTFE
Operation	Lever / gear operated
End connection	Flanged RF (ASME B16.5)
Temperature	-29 °C to 200 °C

Applications: Oil & gas utilities, Thermic fluid lines, Boiler house, Process plants

Gate Valves

Rising-stem and non-rising-stem gate valves for on/off isolation in pipelines and utilities.

Cast Steel Gate Valve (OS&Y;)

A flanged cast-steel gate valve with bolted bonnet and rising stem, giving clear visual indication of open/closed position.

Size range	50 NB – 300 NB (2" – 12")
Pressure rating	ASME Class 150 / 300
Body material	ASTM A216 WCB
Wedge	Flexible wedge, 13% Cr trim
Seat	Stellite-faced (optional)
Operation	Handwheel, rising stem
End connection	Flanged RF / butt weld
Temperature	-29 °C to 425 °C

Applications: Steam lines, Refinery utilities, Power plants, Water mains

Bronze Gate Valve (Screwed)

A general-purpose bronze gate valve with non-rising stem and screwed ends, suitable for building services and light industrial use.

Size range	15 NB – 80 NB (½" – 3")
Pressure rating	PN 16
Body material	Bronze (IS 318 LTB 2)
Wedge	Solid wedge, bronze
Seat	Integral bronze
Operation	Handwheel, non-rising stem
End connection	Screwed BSP
Temperature	Up to 180 °C

Applications: Building plumbing, Water supply, Low-pressure steam

FRP Tanks

Fibre-reinforced plastic storage tanks for water, effluent, acids and alkalis — vertical and horizontal designs.

FRP Vertical Storage Tank

A vertical, flat-bottom FRP storage tank built by filament winding or hand lay-up with a chemical-resistant inner liner. Supplied with nozzles, manhole, vent and level indicator as per your drawing.

Capacity	1,000 – 50,000 litres
Resin	Isophthalic / vinyl ester (as per chemical)
Reinforcement	E-glass (CSM + woven roving / filament)
Construction	Filament winding / hand lay-up
Design basis	BS 4994 / ASME RTP-1 (example)
Operating pressure	Atmospheric
Temperature	Up to 80 °C (resin dependent)
Fittings	Flanged nozzles, manhole, vent, level indicator, ladder

Applications: DM / RO water storage, Effluent treatment plants, HCl & NaOH storage, Process water

FRP Horizontal Tank on Saddles

A horizontal cylindrical FRP tank with dished ends, mounted on FRP or MS saddles. Suitable where headroom is limited, or for skid-mounted and vehicle-mounted storage.

Capacity	1,000 – 30,000 litres
Resin	Isophthalic / vinyl ester
Reinforcement	E-glass
Construction	Filament winding with dished ends
Supports	FRP / epoxy-painted MS saddles
Operating pressure	Atmospheric
Temperature	Up to 80 °C (resin dependent)
Fittings	Top manhole, inlet/outlet nozzles, drain, vent

Applications: Chemical transport & dosing, Skid-mounted systems, Low-headroom plant rooms

Chemical Storage Tanks

HDPE and PP-FRP dual-laminate tanks for storing and dosing corrosive chemicals safely.

HDPE Chemical Storage Tank

A seamless HDPE storage tank suited to many dilute acids, alkalis and water-treatment chemicals. Commonly used for dosing systems with fitted outlet, overflow and level gauge.

Capacity	500 – 25,000 litres
Material	HDPE (UV-stabilised)
Construction	Rotomoulded / spiral-wound
Wall thickness	As per capacity & specific gravity
Operating pressure	Atmospheric
Temperature	Up to 50 °C (chemical dependent)
Suitable for	Dilute HCl, NaOH, NaOCl, alum, FeCl■ (verify)
Fittings	Inlet, outlet, overflow, drain, level gauge

Applications: Chemical dosing systems, Water treatment plants, Electroplating units, Textile & dyeing

PP-FRP Dual Laminate Chemical Tank

A dual-laminate tank combining a welded PP (or PVDF) thermoplastic liner for chemical resistance with an FRP outer structure for strength. Used for concentrated and aggressive chemicals.

Capacity	1,000 – 40,000 litres
Inner liner	PP / PVDF / PVC (as per chemical)
Outer structure	FRP — vinyl ester / isophthalic resin
Construction	Welded liner + filament-wound FRP
Design basis	DVS 2205 / BS 4994 (example)
Operating pressure	Atmospheric
Temperature	Up to 90 °C (liner dependent)
Fittings	Flanged nozzles, manhole, vent, lifting lugs

Applications: Concentrated HCl & H■SO■ (verify), Pickling & plating lines, Chemical manufacturing, Scrubber recirculation

Pipe Fittings

Butt-weld and forged fittings — elbows, tees and reducers in carbon and stainless steel.

Butt-Weld 90° Long Radius Elbow

Seamless butt-weld 90° long-radius elbows used to change pipeline direction with minimal pressure drop.

Size range	½" – 24" NB
Wall thickness	SCH 10S, 40, 80, 160
Material	ASTM A234 WPB / A403 WP304 / WP316
Type	Seamless / welded
Radius	Long radius (1.5D)
Standard	ASME B16.9 (example)
End connection	Bevelled butt-weld
Finish	Black / pickled & passivated

Applications: Process piping, Steam & condensate, Water lines, Skid fabrication

Forged Equal Tee (Socket Weld)

Forged socket-weld equal tees for small-bore, high-pressure lines in instrument, hydraulic and utility piping.

Size range	¼" – 4" NB
Pressure rating	Class 3000 / 6000
Material	ASTM A105 / A182 F304 / F316
Type	Forged, socket weld
Standard	ASME B16.11 (example)
End connection	Socket weld / screwed
Finish	Black / bright
Marking	Size, class & material

Applications: Hydraulic lines, Instrument piping, High-pressure utilities

Industrial Gaskets

Spiral-wound, ring-joint and non-asbestos sheet gaskets for leak-free flanged joints.

Spiral Wound Gasket (SS 316 + Graphite)

A semi-metallic spiral-wound gasket with SS 316 winding and flexible graphite filler, fitted with carbon-steel outer ring and SS inner ring.

Size range	½" – 48" NB
Pressure class	Class 150 – 2500
Winding	SS 316
Filler	Flexible graphite
Outer ring	Carbon steel
Inner ring	SS 316
Standard	ASME B16.20 (example)
Temperature	Up to 450 °C (oxidising)

Applications: Steam flanges, Heat exchangers, Refinery & petrochemical

Compressed Non-Asbestos Fibre Gasket

Gaskets cut from compressed non-asbestos fibre (CNAF) sheet, suitable for low to medium pressure flanged joints.

Size range	Any size — cut to drawing
Thickness	1.5 mm / 2 mm / 3 mm
Material	Aramid fibre with NBR binder
Type	Full face / ring (IBC)
Pressure	Up to 40 bar (example)
Temperature	Up to 250 °C
Media	Water, air, oils, mild chemicals
Finish	Anti-stick coated

Applications: Pumps & pipelines, Utility flanges, OEM equipment

Flanges

Weld-neck, slip-on and blind flanges in common pressure classes and face types.

Weld Neck Flange (Raised Face)

Forged weld-neck flanges with a tapered hub that transfers stress to the pipe, used in high-pressure and high-temperature service.

Size range	½" – 24" NB
Pressure class	Class 150 / 300 / 600
Material	ASTM A105 / A182 F304 / F316
Face type	Raised face (RF)
Bore	To match pipe schedule
Standard	ASME B16.5 (example)
Finish	Serrated 125–250 AARH
Coating	Anti-rust oil / painted

Applications: Process piping, Steam headers, Pressure vessels

Blind Flange

Forged blind flanges used to terminate piping systems or close vessel openings, allowing easy future access.

Size range	½" – 24" NB
Pressure class	Class 150 / 300
Material	ASTM A105 / A182 F316
Face type	RF / FF
Drilling	ASME B16.5 / PN 16 (example)
Standard	ASME B16.5 (example)
Finish	Serrated face
Coating	Anti-rust oil

Applications: Pipeline ends, Pressure testing, Vessel nozzles

Pneumatic Actuators

Rack-and-pinion actuators for automating quarter-turn valves, double-acting and spring-return.

Double-Acting Pneumatic Actuator

A compact double-acting rack-and-pinion actuator for automating ball and butterfly valves, with NAMUR interface for solenoid valves and limit switches.

Torque range	10 – 2,000 Nm @ 5.5 bar (example)
Supply pressure	2.5 – 8 bar
Body	Extruded aluminium, hard anodised
Rotation	90° (adjustable ±5°)
Mounting	ISO 5211 / DIN 3337
Accessory interface	NAMUR VDI/VDE 3845
Temperature	-20 °C to 80 °C
Position indicator	Visual top indicator

Applications: Valve automation, Water treatment, Process plants, Remote isolation

Spring-Return Pneumatic Actuator

Single-acting rack-and-pinion actuator with pre-loaded spring cartridges, closing (or opening) the valve automatically when air supply fails.

Torque range	8 – 1,200 Nm (spring end, example)
Supply pressure	3 – 8 bar
Body	Extruded aluminium
Fail mode	Fail-close / fail-open
Mounting	ISO 5211
Accessory interface	NAMUR VDI/VDE 3845
Temperature	-20 °C to 80 °C
Springs	Coated, pre-loaded cartridges

Applications: Safety shut-off, Fuel & gas lines, Process isolation

Request a quotation

Use the RFQ form on the website (Request Quotation) to send product, size, quantity, pressure rating, material and delivery location.