



# VALVES

FLOW MANAGEMENT SOLUTIONS Division

Standard Service | Critical Application | High Quality VALVES



## DIN/EN Casted valves

- **Type:** Gate, Globe, Check, Butterfly, Ball, Bellow, Self regulated valves, (+).
- **Sizes:** From DN15 to DN1200.
- **Pressure:** From PN10 to PN64.
- **Ends:** Flanged, welded, threaded, wafer, lug, etc.
- **Materials:** Cast iron, stainless steel, brass, (+).
- **Optional:** Soft sealing valves (EPDM, NBR, etc.).
- **Applications:** Water treatment and filtration, power generation, industry, marine, energy, etc.



## ANSI Casted valves

- **Type:** Gate, Globe, Check, Butterfly, Ball, Bellow (+).
- **Sizes:** From 1/2" to 72".
- **Class:** From 150# to 2.500#.
- **Ends:** Flanged, welded and threaded.
- **Materials:** Carbon steel, stainless steel, alloy steel, (+).
- **Applications:** Chemical, petro-chemical, refining, oil & gas, water, power generation, marine, etc.



## Forged valves

- **Type:** Gate, Globe and Check, Bellow.
- **Sizes:** From 1/4" to 8".
- **Class:** From 800# to 4.500#.
- **Construction:** ASME B16.34, BS 5352, API 602.
- **Ends:** Flanged, socket weld, butt weld, threaded.
- **Materials:** Carbon steel, stainless steel, alloy steel, (+).
- **Special options:** Fully welded, extended body, extended bonnet, (+).
- **Applications:** Petroleum refining and production, offshore, oil & gas, power industry, fertilizer, chemical and desalination, etc.



## Butterfly valves

- **Types:** Centred and single offset.
- **Sizes:** From 1 1/4" to 138".  
from DN32 to DN3000.
- **Class:** From 150# to 300#.  
from PN6 to PN100.
- **Ends:** Wafer, lug, flanged.
- **Materials:** Carbon steel, stainless steel and other alloys, (+).





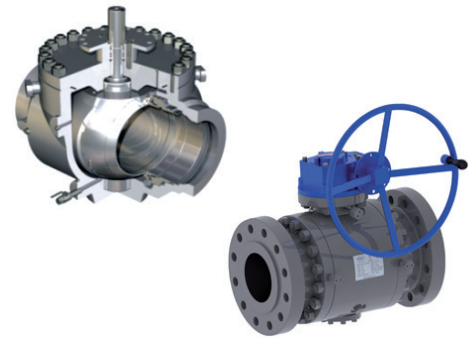
## High Performance Butterfly valves

- **Types:** Double and triple eccentricity.
- **Sizes:** From 2" to 160".  
from DN50 to DN2000.
- **Class:** From 150# to 2.500#.  
from PN10 to PN200.
- **Construction:** Metal to metal closure, zero leakage, fire safe.
- **Ends:** Wafer, lug, flanged and welded, (+).
- **Materials:** Carbon steel, stainless steel, alloy steel, duplex, inconel, hastelloy, etc.



## Trunnion Mounted Ball valves

- **Type:** Side entry and Top entry.
- **Sizes:** From 1" to 60".  
from DN50 to DN200.
- **Class:** From 150# to 2.500#.  
from PN6 to PN400.
- **Construction:** ASME B16.34, API 6D, ISO 17292;  
soft and metal to metal seats; casted and forged body.
- **Ends:** Flanged, welded, (+).
- **Materials:** Carbon steel, stainless steel, alloy steel, bronze, duplex, superduplex, etc.



## Floating Ball valves

- **Sizes:** From 1/2" to 8".  
from DN15 to DN300.
- **Class:** From 150# to 600#.  
from PN16 to PN40.
- **Construction:** ASME B16.34, API 6D, API 608, BS 5351;  
soft and metal-to-metal seats; forged and casted body.
- **Ends:** Flanged, welded and threaded.
- **Materials:** Carbon steel, stainless steel, alloy steel, bronze, brass, duplex, superduplex, etc.



## Knife Gate valves

- **Sizes:** From 2" to 36".  
from DN50 to DN1200.
- **Pressure:** From 150# to 900#  
from PN6 to PN100
- **Closure:** Soft and metal to metal.
- **Ends:** EN 1092, ANSI B16.5, (+).
- **Materials:** Cast iron, carbon steel, stainless steel, (+).
- **Applications:** Water treatment services, mining, solid particles services, paper industry and other industrial processes.



## Dual Plate Check valves

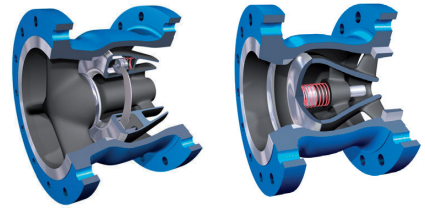
- **Sizes:** From 2" to 80".  
from DN40 to DN1200.
- **Class:** From 150# to 2.500#.  
from PN10 to PN250.
- **Construction:** Soft seat and metal to metal seat, casted and forged body.
- **Ends:** Wafer, lug, hub, flanged and welded.
- **Materials:** Carbon steel, stainless steel, cast iron, (+).





## Nozzle Check valves

- **Sizes:** From 1" to 88".  
from DN25 to DN2200.
- **Class:** From 150# to 2.500#.  
from PN16 to PN400.
- **Ends:** Wafer, lug, hub, flanged, welded and threaded.
- **Construction:** Non-slam, soft and metal to metal seats, fire safe, forged and casted body.
- **Materials:** Carbon steel, stainless steel, cast iron, (+).



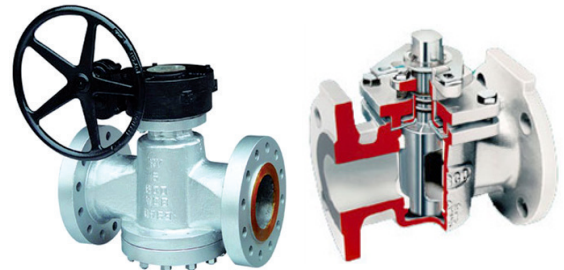
## Safety / Pressure Relief valves

- **Sizes:** From 1/2" to 20".  
from DN15 to DN500.
- **Class:** From 150# to 2.500#.  
from PN16 to PN200.
- **Ends:** Flanged, welded, threaded.
- **Construction:** Forged and casted body.
- **Materials:** Carbon steel, stainless steel, cast iron, (+).
- **Applications:** Steam, gases, vapours and liquids. Cryogenic services.
- **Options:** Open bonnet, soft seat, bellow, lifting device, sealed packing lever, etc.



## Plug valves

- **Type:** Lubricated and non-lubricated plug valves.
- **Sizes:** From 1/2" to 36".  
from DN15 to DN500.
- **Class:** From 150# to 2.500#.  
from PN16 to PN40.
- **Ends:** Flanged, welded and threaded.
- **Materials:** Carbon steel, stainless steel, alloy steel, cast iron and other alloys, duplex, superduplex, (+).



## Double block & bleed (DBB) plug valves

- **Type:** Double expanding plug valve.
- **Sizes:** From 2" to 36".
- **Class:** From 150# to 600#.
- **Construction:** Full or reduced bore, fire safe. It allows in-line maintenance.
- Zero leakage.
- **Ends:** Flanged.
- **Materials:** Carbon steel and alloy steel, (+).
- This valve has emerged as the industry standard for movement and storage of petroleum products in refineries, tank farms and terminals.



## Diaphragm valves

- **Sizes:** From 1/4" to 14".  
from DN8 to DN350.
- **Pressure:** Up to 16 bar.
- **Ends:** Screwed, flanged, socket weld, butt weld.
- **Materials:** Cast and ductile iron, steel, bronze, (+).
- **Applications:** Chemical processing, mining, water treatment, pharmaceuticals, pulp & paper, etc.





## Pinch valves

- **Sizes:** From 2" to 20"  
from DN50 to DN500.
- **Pressure:** From 10 Bar to 200 Bar.
- **Construction:** ASTM A536 60-40-18, BS2789 420-12, SABS936 SG42, DIN1693 GGG40. Open and close frame.
- **Temperature:** Up to 120°C.
- **Operation:** Hand wheel, gearbox and actuator (electric, pneumatic or hydraulic).
- **Applications:** These valves are designed to handle abrasive and corrosive fluids, in high and low pressure, such as minerals, ash, pulp, chemical products, etc.



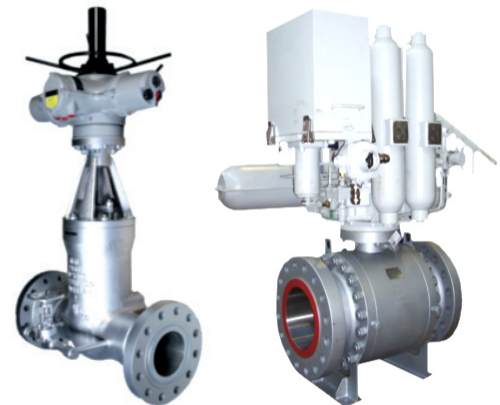
## Control valves

- **Type:** Globe control valve, (+).
- **Sizes:** From 1/2" to 42"  
from DN15 to DN400.
- **Class:** From 150# to 4.500#.  
from PN16 to PN200.
- **Construction:** Casted and forged body.
- **Materials:** Carbon steel, stainless steel, alloy steel, cast iron, duplex, special alloys, (+).



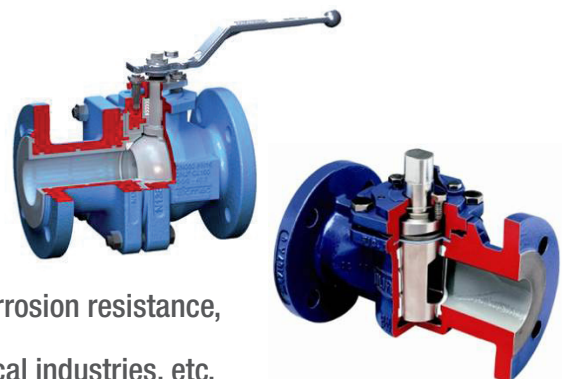
## On-Off valves

- **Type:** Ball, Gate, Globe, Butterfly, Plug, Knife, ...
- **Sizes:** From 1/2" to 80"  
from DN15 to DN2000.
- **Class:** From 150# to 4.500#.  
from PN16 to PN200.
- **Construction:** Casted and forged body.
- **Actuators:** Multiturn and quarter turn electric actuators, pneumatic actuators (rack & pinion, scotch yoke), hydraulic actuators, gas over oil actuators.
- **Extras:** Additional equipments can be supplied as actuator passive fire protection, local control panel, air tank and so on.
- **Materials:** Carbon steel, stainless steel, alloy steel, cast iron, duplex, superduplex, exotic alloys, (+).



## Lined valves

- **Types:** Ball, Plug, Check, Butterfly.
- **Sizes:** From 1/2" to 12"  
from DN10 to DN500.
- **Class:** From 150# to 300#.  
from PN16 to PN25.
- **Construction:** Internally lined valves with PFA, FEP, PP, PTFE, etc. Internal line can cover all wetted parts of the valve.
- **Advantages:** Lower operating torques, zero leakage, corrosion resistance, prevention of fluid contamination.
- **Applications:** Paper, cosmetics, pharmaceutical, chemical industries, etc.





## Bronze and Brass valves

- **Type:** Ball, Gate, Globe, Check, Butterfly, Plug, Needle, Filters,...
- **Sizes:** From 1/2" to 24".  
from DN8 to DN600.
- **Class:** From 150# to 300#.  
from PN10 to PN40.
- **Ends:** Flanged, threaded, wafer, lug, welded.
- **Applications:** Water distribution, cooling and heating, wastewater, sanitary, compressed air, etc.



## Thermoplastic valves

- **Type:** Ball, Diaphragm, Butterfly, Check, Vent and Bleed, Pressure regulation, Filters, Angle valves, etc.
- **Sizes:** From DN10 to DN300.
- **Class:** From PN8 to PN16.
- **Ends:** Flanged, welded, threaded, lug, wafer.
- **Materials:** PVC, polypropylene, ABS, PVDF, etc.
- **Applications:** Water works and sea water, industry, chemical processes, mining, gas distribution, etc.



## Pressure Seal valves

- **Type:** Gate, Globe and Check.
- **Sizes:** From 2" to 48".
- **Class:** From 900# to 2.500#.
- **Design:** ASME B16.34, EN 12516, etc.
- **Ends:** Flanged and butt weld.
- **Materials:** Carbon steel, stainless steel, alloy steel, duplex, super duplex, exotic alloys, (+).
- Recommended for high pressure applications.



## Valves for HF Alkylation

- **Type:** Gate, Globe and Check.
- **Sizes:** From 1/2" to 36".
- **Class:** From 150# to 800#.
- **Construction:** API 600 and 602, fire safe design, low emissions according to API 622 and ISO 15848, acid detecting paint.
- **Materials:** Carbon steel and monel, forged and casted.



## Instrumentation valves and Manifolds

- **Type:** Ball, Needle, Relief, Check, Plug, Manifolds, etc.
- **Sizes:** From 1/8" to 2".
- **Pressure:** From 1000 psi to 60.000 psi.
- **Ends:** Threaded, flanged, quick connections, welded.
- **Materials:** Stainless steel.





## Cryogenic valves

- **Type:** Ball, Gate, Globe, Check, Butterfly, Control, etc.
- **Size:** From 1" to 48".  
from DN15 to DN500.
- **Class:** From 150# to 900#.  
from PN16 to PN40.
- **Temperature:** From -196°C to +200°C
- **Ends:** Flanged, welded, (+).
- **Materials:** Stainless steel, (+).
- **Applications:** Very low temperature services, cryogenic, LNG, etc.



## OTHER PRODUCTS OF FLOW MANAGEMENT SOLUTIONS Division

### Filters & Filtration Products

WET MEDIUM

#### Membrane



#### Cartridge/Bag



#### Basket



#### Self-clean

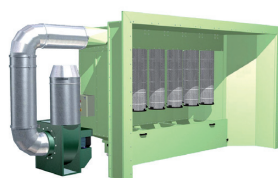


#### Other

- Sand Filters
- Centrifugal separators
- Hydraulics

DRY MEDIUM

#### Dust treatment



#### Air treatment



#### Oil mist separators



#### Other

- Pneumatics
- Gas transfer

For further information see our catalogue of Filters F05-15.



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