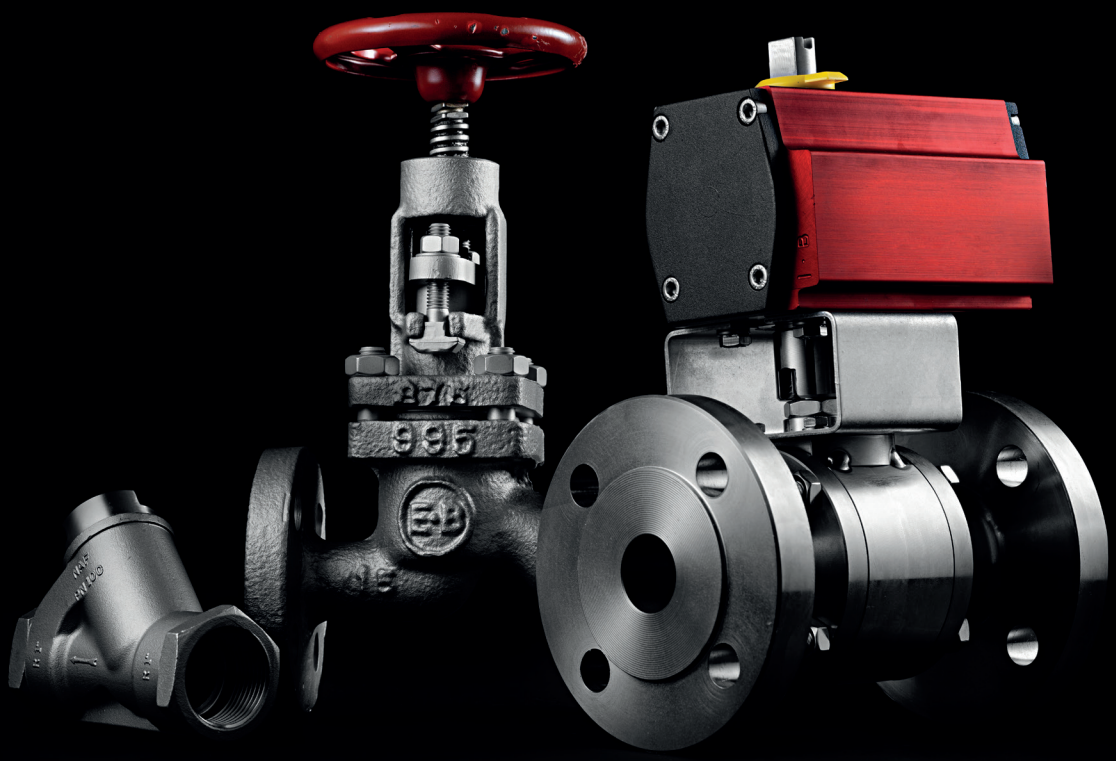

Engelsberg

Industrial valves in high alloy steels and titanium

Ramén Valves

We know the flow

Ramén Valves
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About Engelsberg

Engelsberg was founded in 1949 by Avesta Jernverk, a stainless steel producer with a long and genuine tradition in the Swedish industrial landscape. Since the beginning Engelsberg have manufactured industrial valves in high alloy steels and titanium. All valve models are resistant to corrosion in extreme environments where medias such as sea water, phosphoric acid, sulfuric acid solutions and chlorine gas are common. Our main purpose is to lower the life cycle cost by providing well proven technology and robust constructions.

Unique flexibility in material selection

Engelsberg are unique in the wide selection of materials. We believe in adapting the valve to the characteristics of the application instead of letting the application rule the conditions and generate unnecessary cost and downtime.

Available materials

316 (EN 1.4436)
316L (EN 1.4435)
904L (EN 1.45399
254SMO (EN 1.4547)
Duplex (EN 1.4462)
Superduplex (EN 1.4410)
Titanium ASTM grade 2 and grade 5
Hastelloy C-276
Alloy 20 ASTM A265
Inconel
Monel

Field of applications

Chemical and Fertilizers

- Acids and corrosive media (e.g. nitric acid, sulphuric acid, hydrochloric acid ...)
- Resin production
- Dosing of acids and other chemical injections
- Toluene diisocyanate (TDI) production
- Alkaline solutions (sodium hydroxide, potassium hydroxide...)
- Ammonia and Urea production

Pulp and Paper Industry

- Bleached pulp
- Recycled pulp
- ClO2- Chlorine dioxide (bleaching process
- Vacuum control
- Liquor (black, green and white liquor flow)
- Steam (temperature control)

Mining Industry

- Recycled water (water treatment)
- Vacuum control
- Mixing (density control)
- Dosing (throttling of chemical additives)
- Tank bottom valve (outflow from silo and hoppers)

Marine and Offshore

- Hydrocarbon gases (Corrosive and dirty associate gas and off-spec gases)
- Hydrocarbon liquids (treated and untreated crude oil, residual oil and C3+)
- Acid and alkaline solutions (industrial acids, caustic)
- Side products / Off-spec liquids (process/produced water, off spec slurry, emulsion)
- Utility services (fresh water, sea water, nitrogen, air, hydrogen, argon and steam)

Gas applications

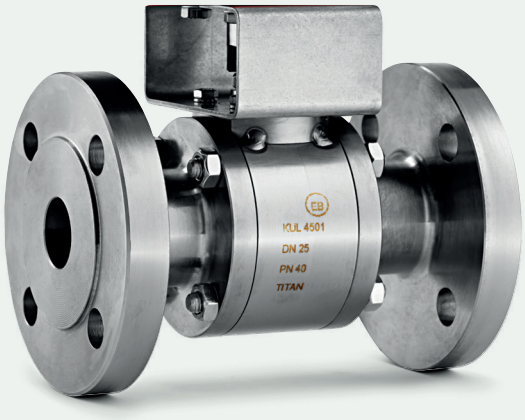
- Hydrocarbon gases (natural gas and heavier cuts C2+)
- Industrial gases (oxygen, ammonia, hydrogen, carbon dioxide, chlorine etc.)
- Gases and vapours (instrument air, nitrogen and steam, corrosive vapours)
- Cryogenic (LNG)

Engelsberg valve types

Ball Valves

DN15-150 PN100

Reliable and durable ball valves for tight shut off in liquid and gas applications. Special design avoiding hidden cavities between ball and body for a long-life cycle, even in applications containing particles and fibers. Available with soft seat in PTFE and with a metal seat for higher temperatures and abrasive media. Can be delivered with hand lever or gear. Actuators can be installed via the mounting flange according to ISO 5211.



Vacuum valves

DN25-150 PN25

Used for gases and vapor to prevent vacuum in pipes, tanks and containers. A spring-loaded metal-seated plug opens and releases media such as air or nitrogen gas. Opening pressure is set, verified and sealed at factory before delivery.

Swing type check valve

Check Valves

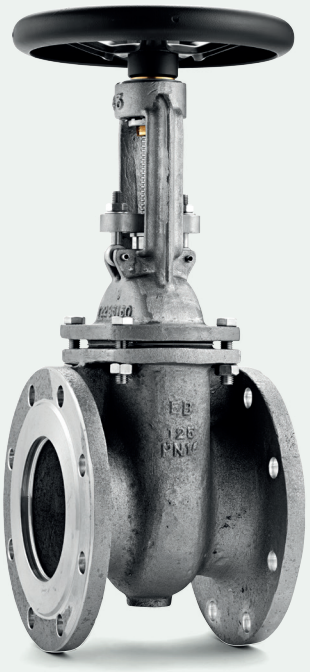
DN8-25 PN100

Globe style check valve in Y-type design used for liquid and gas flow. They are available in soft or metal seated disk and come in female threaded connections.

DN15-600 PN100

Swing check valve for liquid and gas flow. The disk design allows quick shut-off to prevent backflow; however, it opens at very low flowrate. Available in soft-seated or metal-seated design. Can be supplied with spring loaded disc for controlled opening and closing also in various mounting directions. Wafer type design for mounting between flanges.

Globe style check valve



Gate Valves

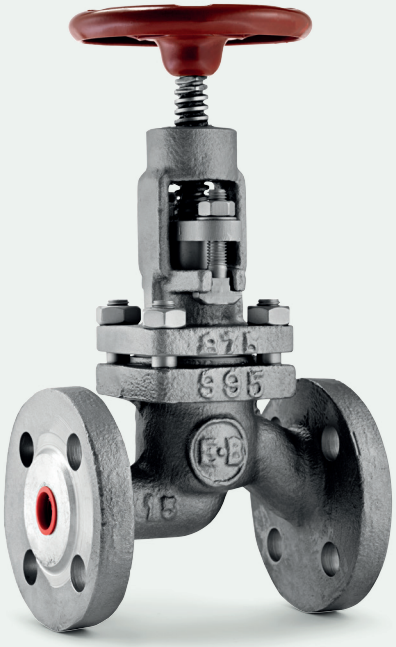
DN15-200 PN10-40

Robust design and reliable operation for tight shutt-off for liquids in demanding applications. These gate valves are particularly suitable for fiber suspensions or other processes containing a considerable amount of solid particles. Multi-turned opening and closing reduce the risk of fluid hammering in the system. Available in soft or metal-seated disk in both full or reduced bore. Delivered with handwheel and can also be supplied with pneumatic or electric actuators.

Globe Valves

DN15-150 PN10-40

Reliable and accurate globe valves for shut-off or regulating of liquid and gas flow. They offer multi-turn shut-off to prevent fluid hammer in the system. Available in soft or metal seated plug with or without check valve function. Can be supplied with a special design with extended stem for cryogenic applications. Delivered with handwheel and can also be supplied with pneumatic or electrical actuators.



Butterfly Valves

DN50-400 PN10-16

Reliable valve for shut-off or simple regulation of corrosive gas and liquids. The valve is completely tight in closed position due to a liner in 25% reinforced carbone fiber PTFE and a seat ring in FKM. Supplied with hand lever or gear and fully compatible with pneumatic or electrical actuators.

3D - Additive manufacturing

As one of the first valve manufacturers in the world, Engelsberg supply valves in titanium grade 5 material manufactured with Additive Manufacturing (AM) . Short lead times, green technology and the speed of design are a few of the many benefits with AM technology.

References

Akzo Nobel
ARAUCO
Emerson
Vattenfall Forsmark
OKG
Boliden Minerals
Södra Cell

Connections

Wafer design
Threaded connections BSP/NPT
Flange connections DIN/ANSI
Welded-on flanges BW/SW

Pressure class

PN 10 - PN 100

Automation options and accessories

- Pneumatic actuators spring retorn (SR) or double acting (DA)
- Electrical actuators 24-400 VAC/DC
- Positioners
- Solenoid valves
- Limit switch box
- Filter regulators

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