



Discovering Termovent SC



Company Profile & Production Range

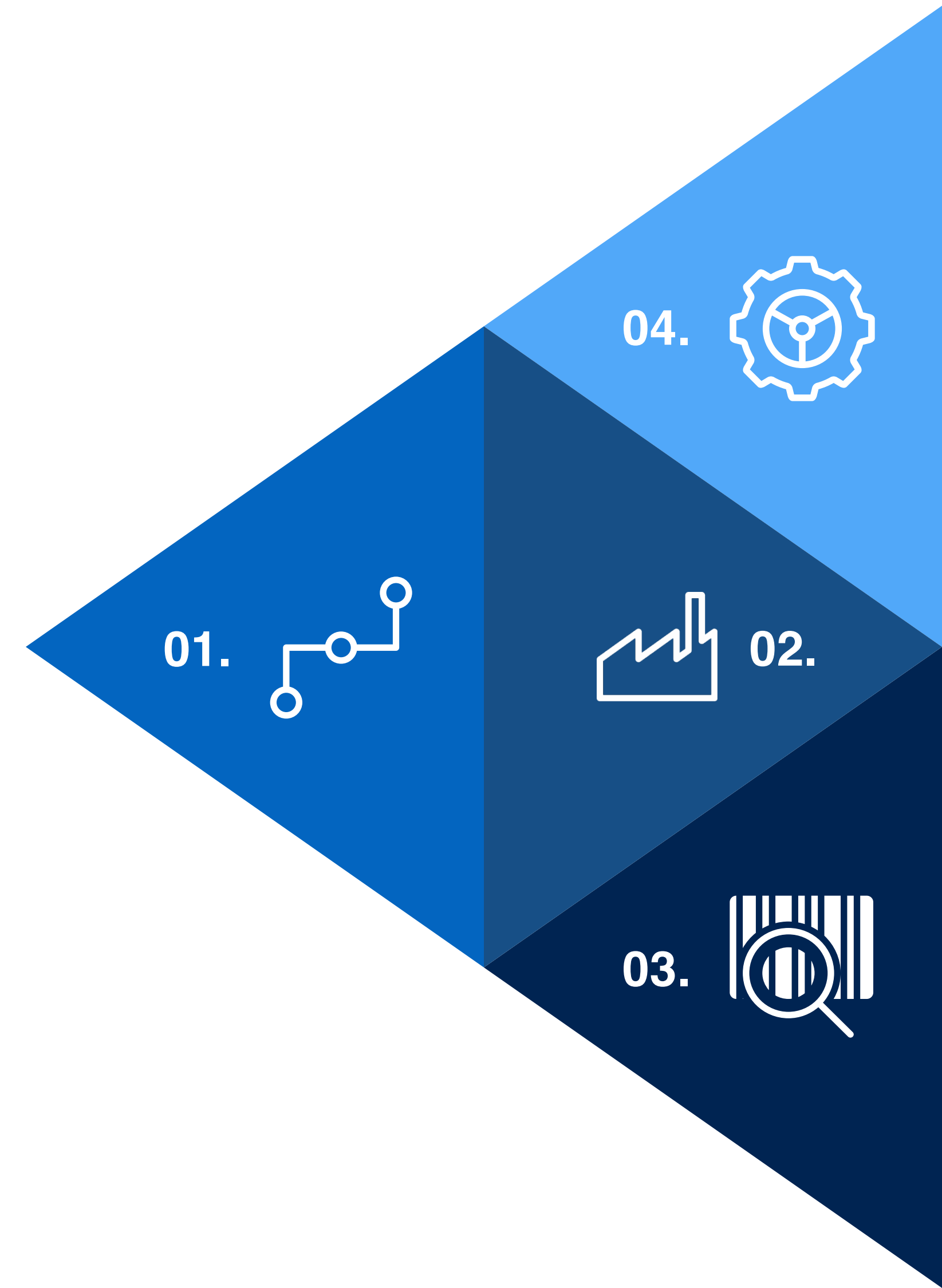
Let Us Introduce Termovent SC

01. Our Story

02. Production

03. Quality System

04. Production Range



Our Story



We are TERMOVENT SC Company, a regional leader in production of industrial valves for process industry and thermo energetics.

We remained until today a company in private ownership and management structure, as for the past 50 years of presence.



Timeline



1963

The company was founded
by Mr. Slobodan Crnogorac



1987

First certification of Quality
Management System



1996

Start of production at the newly built
factory in Temerin, Serbia

Next generation -

Mr. Aleksandar Crnogorac becomes
the new CEO of Termovent SC



2002

Certified according to European
Directive 97/23 EC, since
Termovent SC products carry CE-0035



2003

Steel Foundry in 2003 has become a
member of Termovent SC



2004

The first investment in Steel Foundry -
Induction Furnaces



Next important investment in the
Foundry - Alfaset process moulding
technology



2010

The American Petroleum Institute
certifies Termovnet SC and awarded
The API Monograms



2013

50 Years Anniversary

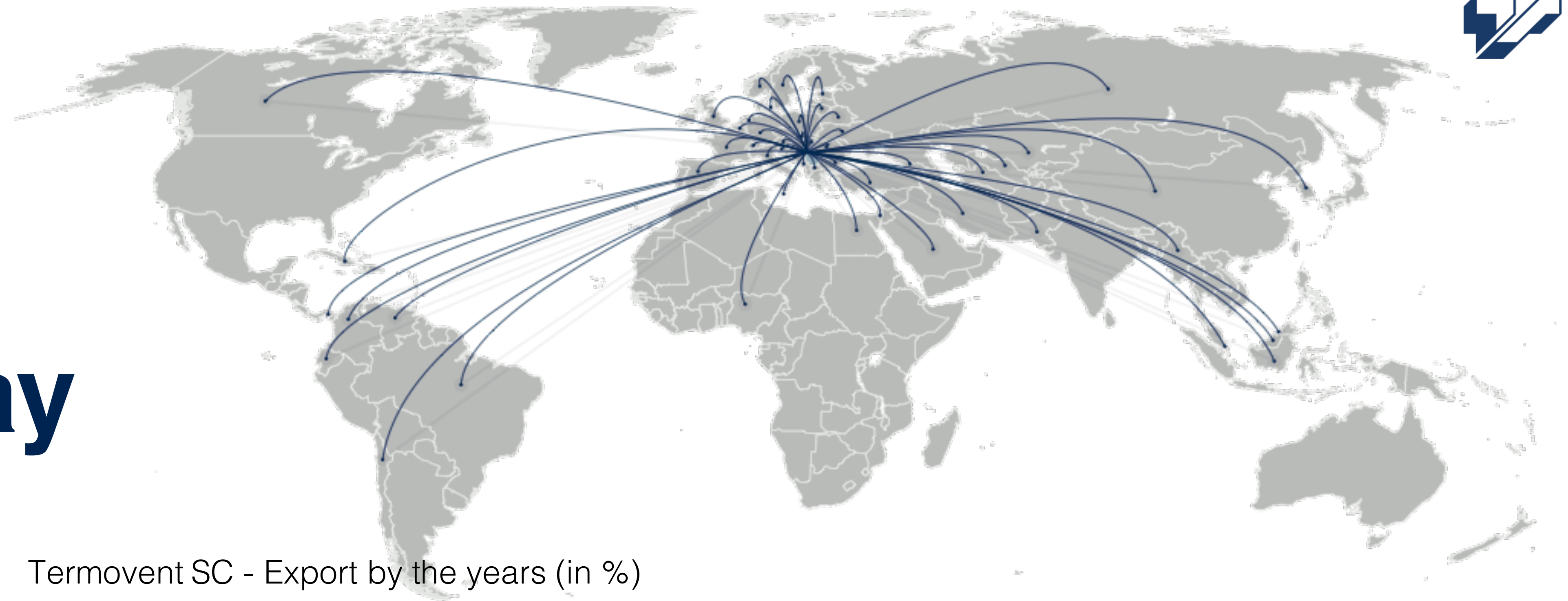


2016

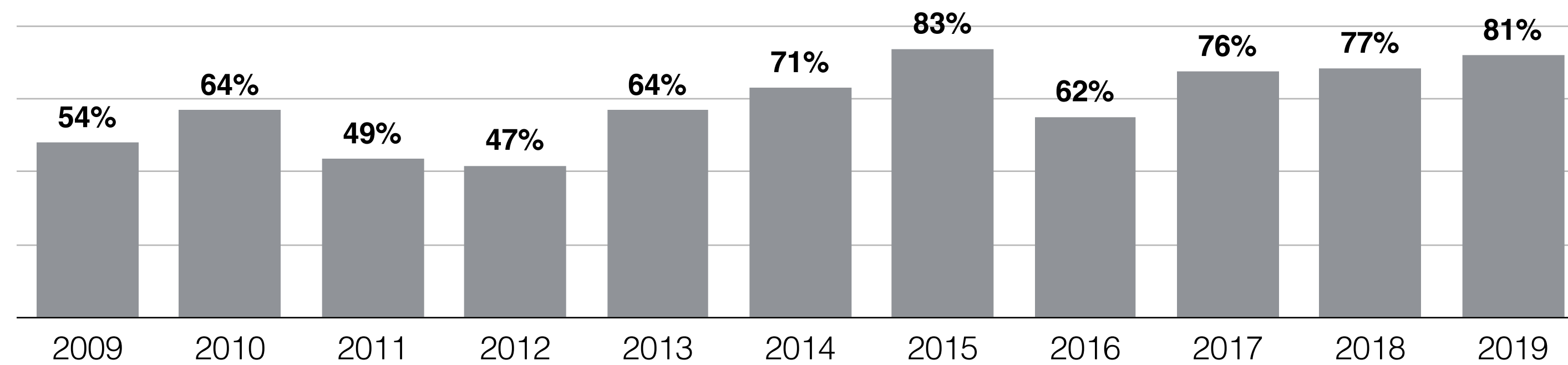
New investments in Termovnet SC
5-axis CNC Machining Center
GT Trivisan DS 600



Today



THERMOVENT SC - Export by the years (in %)



Today, we are present with our products on almost all continents. THERMOVENT SC products are installed and functioning in many plants in more than 60 countries worldwide.

All in One Place



All of the product components are manufactured in Temerin Serbia, at our own manufacturing plant. The casting product components are made in our own TERMOVENT SC Steel Foundry in Backa Topola, Serbia.

Thus we can guarantee high quality of TERMOVENT SC valves.



Valve Plant



TERMOVENT SC Temerin, production site with a comprehensive infrastructure, all necessary equipment for long-range future activities and with modern work environment, in which the production started in 1996. Production of Industrial valves for power plants, pipelines, refineries and industrial plants of any kind.



140
EMPLOYEES



9.000 m²
OF PRODUCTION SPACE

Production of INDUSTRIAL VALVES

Steel Foundry



All casting product components are made in our own TERMOVENT SC Steel Foundry in Backa Topola, Serbia. Our long-standing supplier of castings Steel Foundry has become a member of our company since 2003.



225
EMPLOYEES

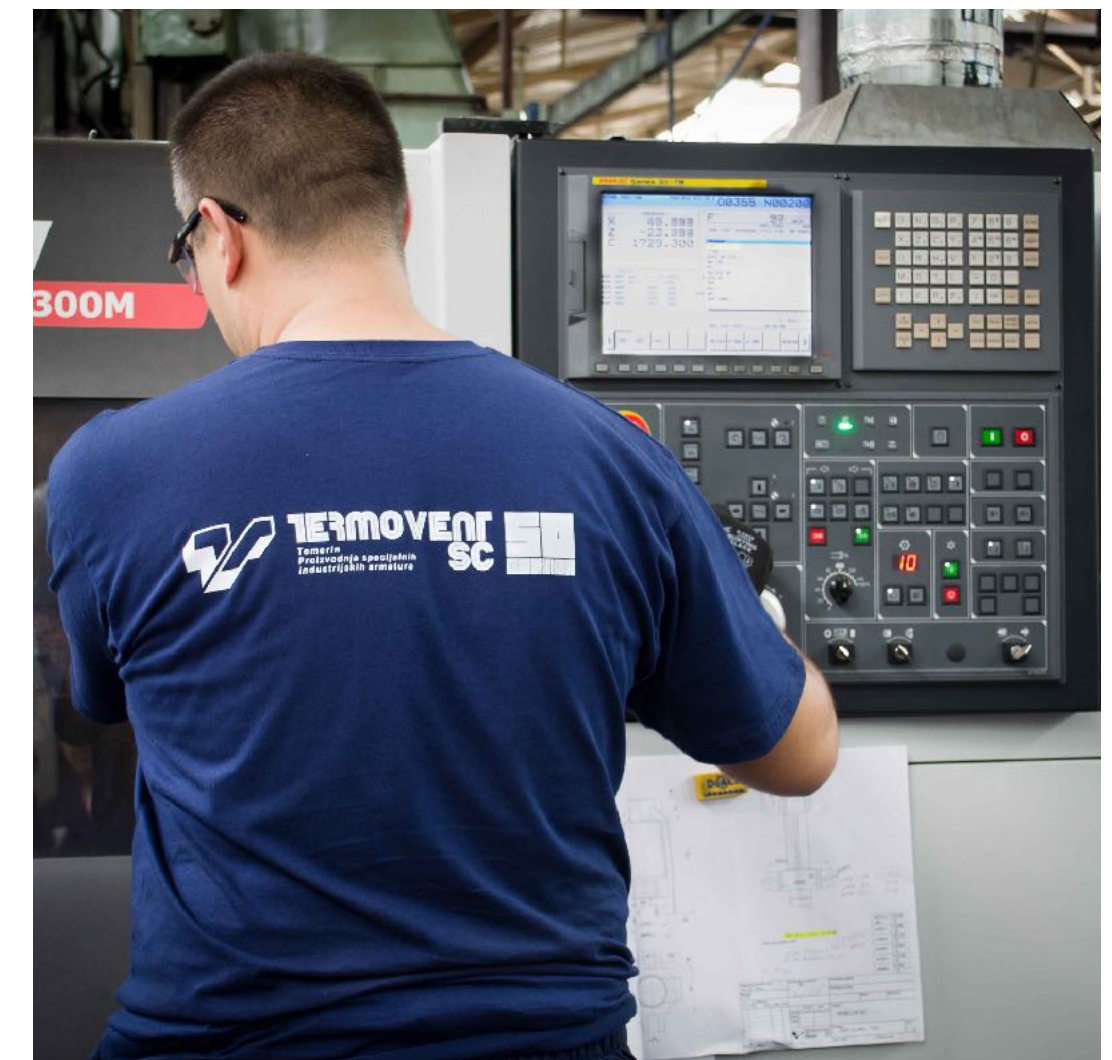


8.500 m²
OF PRODUCTION SPACE

Production of STEEL CASTINGS

Production Capacities

TERMOVENT SC's ongoing investments into the latest machines and process technology is the key factor for continuously increasing productivity ensuring accurate, efficient and high quality production of valve components.





5-axis CNC Machining Center // 2 pcs.

CNC - Lathes // 8 pcs.

CNC Horizontal Machining Centers // 2 pcs.

CNC Metal Saw // 3 pcs.

Automatic Welding Machines // 4 pcs.

Vertical Lathes (Carousel) // 2 pcs.

Universal Lathes // 24 pcs.

Drilling Machines // 9 pcs.

Milling Machines // 7 pcs.

**Horizontal Boring / Milling / Turning Machine
(Borwerk) // 4 pcs.**

Grinding Machines // 3 pcs.

Lapping Machines // 3 pcs.

Automatic Painting Lines / 2 pcs.

Thread Rolling Machine

Machinery

We feature highly developed production capacities. TERMOVENT SC is continuously investing in latest machines and process technologies, every year. This way we can increase our productivity and achieve a successful and good quality production.

Reliable Quality

Design, process planning, casting, machining, assembly, testing, surface treatment, logistic and quality management integrated in our own plants is crucial for ensuring the constant high quality of TERMOVENT SC products.



100% Testing

In keeping with the pertinent standard, every single product is tested. A unique identification number on each product allows a full traceability of all activities and material consumption.





Test bench up to 1600 bar (up to 6 bar with air)

Test bench up to 650 bar (up to 6 bar with air)

Test bench up to 500 bar (up to 6 bar with air)

Test bench for hydraulic testing up to 1000 bar

**Spectrometers for chemical
analysis of materials (PMI)**

Equipment for ultrasonic examination

Equipment for magnetic particle examination

Equipment for wall thickness measuring

Hardness testing equipment

Equipment for coating thickness measuring

Equipment for liquid penetrant examination

Mesuring & Control Equipment

Reliable Quality Maintenance and on-going improvement of products quality are a commitment and responsibility of all company employees. A reliable and quality product is our priority, and a satisfied customer - our objective in continuity.

Quality System

We pay special attention to the application of current international rules and standards in quality system development. We keep improving and maintaining a high level of the quality system through active education.

We have the following valid certificates:



TP TC 032/2013
TP TC 010/2011
TP TC 012/2011



TÜV InterCert
ISO 9001-2015
ISO 14001:2004
OHSAS 18001:2007

EN ISO 3834

AD-2000
Merkblatt HP 0
Merkblatt W 0

PED 2014/68/EU –
Module H1



API Certificates

API 6A - 1129
API 6D - 1049
API 600 - 0096
API 602 - 0019





Fields of Application

Valves

Energetics

- Thermal Power Plants
- Hydroelectric Power Plants
- Heating Stations
- Boilers Production

Oil & Gas

- Oil & Gas Exploitation
- Oil & Gas Pipelines
- Oil Refineries
And Oil Processing
- Pumping Stations & Tanks

Process Industry

- Ironworks
- Smeltery
- Cement Industry
- Paper Industry
- Heating and Cooling Systems
- Production of Agricultural Fertilizers
- Sugar Refineries
- Chemical Plants
- Petrochemical Plants

Fields of Application



Castings

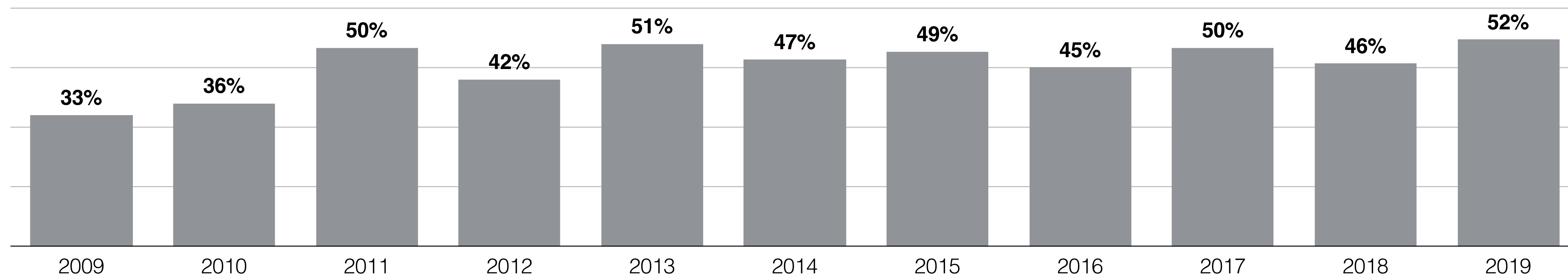
- Thermal Power Plants
- Production of Machines and Tools
- Cement Industry
- Mines and Ironworks
- Construction (Building) Industry
- Railways
- Automotive Industry
- Agricultural Mechanization
- Shipbuilding
- Valves Industry



Foundry Capacity

cca. 3.000 ton yearly

Termovent SC Steel Foundry - Export by the years (in %)



Steel Foundry Materials



Carbon Steels

GE300
GP240GH
WCB
LCB
20L

Heat Resistant Steels

GX40CrNiSi27-4
GX40CrNiSi 25-20
GX130CrSi29

Stainless Steels

GX5CrNi19-10
GX5CrNiMo19-11-2
GX5CrNiMoNb19-11-2
GX5CrNiNb19 11
GX12Cr12
CF8
CF8M
CF8C
12X18H9T
12X18H12M3T

Wear Resistant Steel

G20Mn5
GX120Mn13
GX120Mn18-2

Abrasive Resistant Steels

GX300CrMo15 3
GX300CrMo27 1

Alloy Steels

G20Mo5
G17CrMo5-5
G17CrMo9-10
G24CrMo4
4A
4C
WC1
WC6
WC9
C5
C12A
CA15
G35CrNiMo6-6
G32NiCrMo8-5-4

Other materials acc. to EN or ASTM Standards



Production Range

Globe Valves

Gate Valves

Check Valves

Oil & Gas Exploitation Products

Other Types of Products

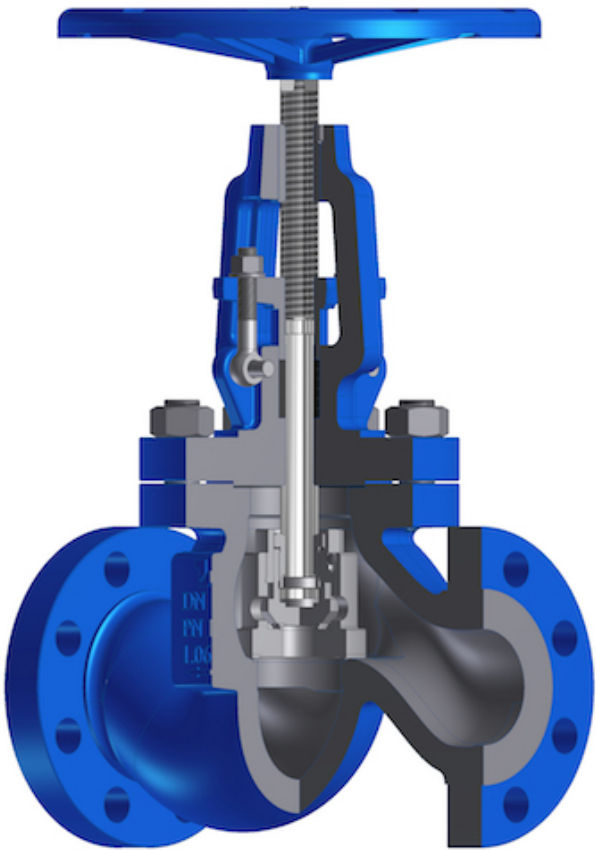
Globe Valves

High Pressure Globe Valve

Type	VHP
DN (NPS)	10 (3/8") ÷ 200 (8")
Rating	PN 250 ÷ 500
	Cl 1500 ÷ 2500
Standard Materials	
1.0460, 1.5415, 1.7335, 1.7383, 1.4903, 1.4301, 1.4541, 1.4404	A105, F1, F12 Cl.2, F22 Cl.3, F91, F304, F321, F316

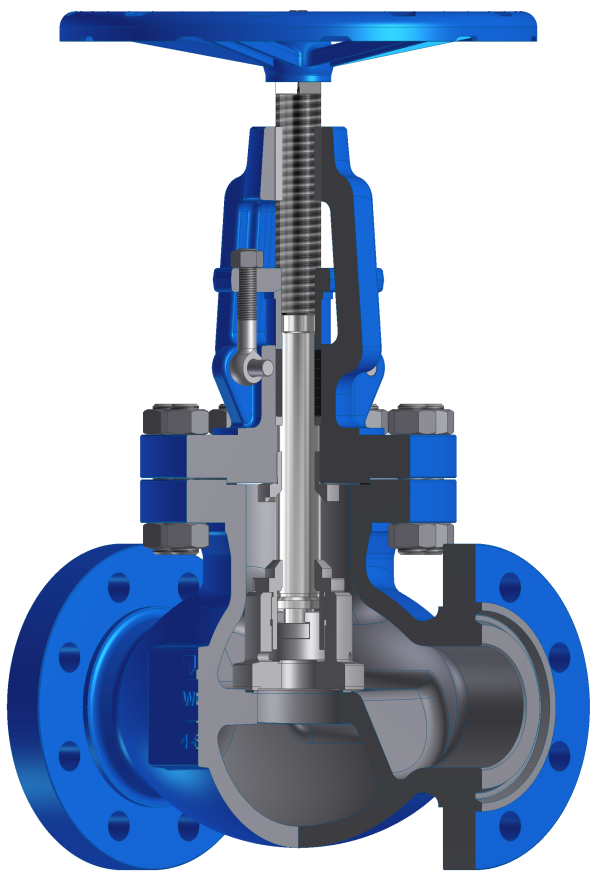
Globe Valve EN 13709

Type	VENS	
DN	15 ÷ 350	
Rating	PN 16 ÷ 160	
Standard Materials		
1.0460, 1.0565,	1.0619, 1.6220,	
1.5415, 1.7335,	1.5419, 1.7357,	
1.4301, 1.4541,	1.4308, 1.4408	
1.4404		



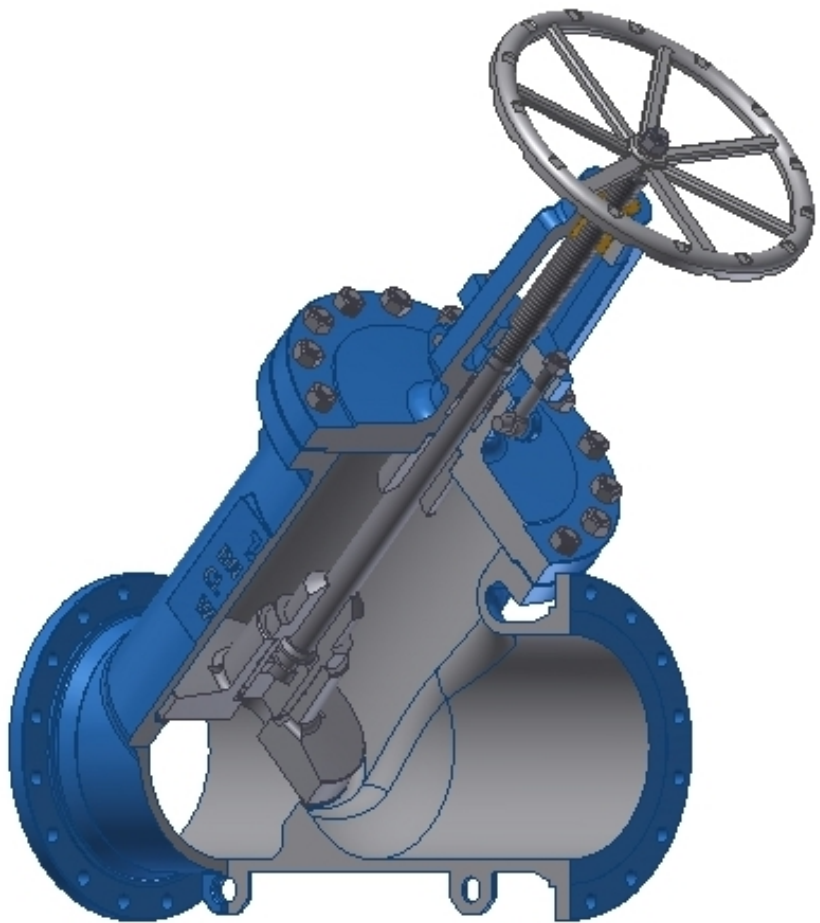
Globe Valve BS 1873

Type	VBS
DN (NPS)	50 (2") ÷ 250 (10")
Rating	Cl 150 ÷ 900
Standard Materials	
WCB, LCB, LCC, LC1, WC6, CF8, CF8M	



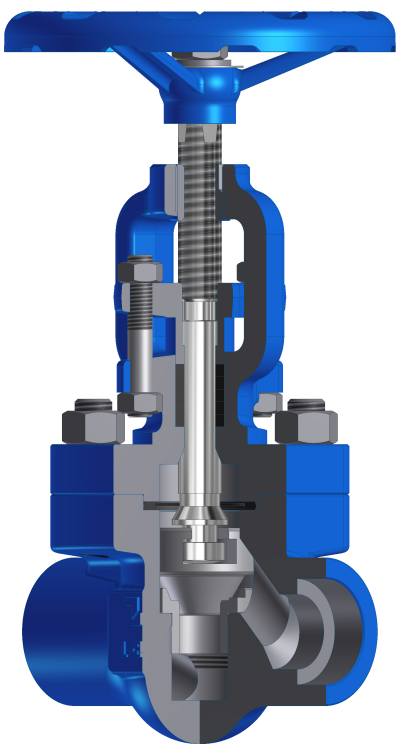
Globe Valve Y type BS 1873

Type	VBSY
DN (NPS)	15 (½") ÷ 500 (20")
Rating	Cl 150 ÷ 300
Standard Materials	
WCB, LCB, LCC, LC1, WC6, CF8, CF8M	



Globe Valve API 602

Type	VAP
DN (NPS)	8 (¼") ÷ 50 (2")
Rating	Cl 150 ÷ 1500
Standard Materials	
A105, LF2, F12 Cl.2, F22 Cl.3, F5, F91, F304, F321, F347, F316	



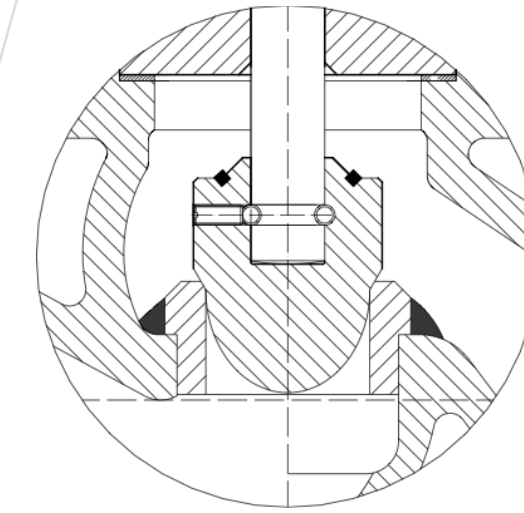
Other materials acc. to EN or ASTM Standards



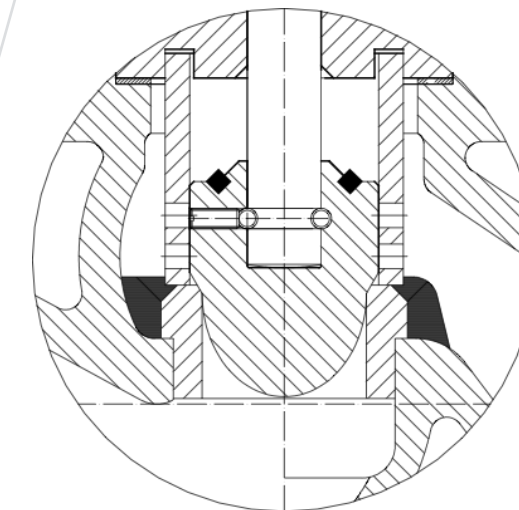
Control Valves

With equal percentage or linear flow characteristic

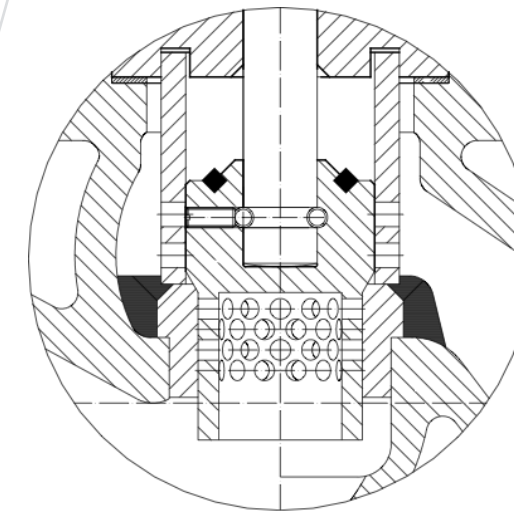
1 Stage design
with Parabolic Plug



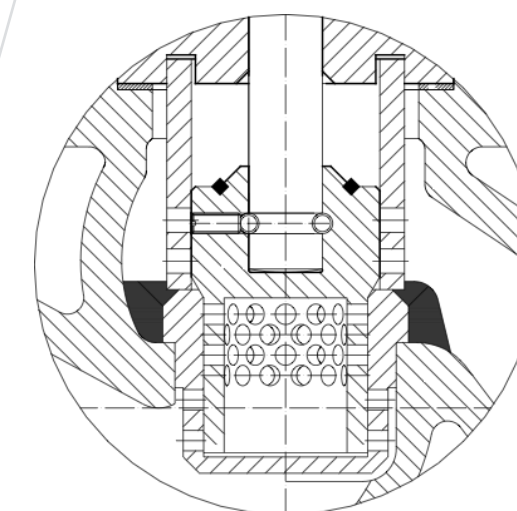
2 Stage design
with Parabolic Plug
and Anti-Cavitation Cage



2 Stage design
with Perforated Plug
and Silencer

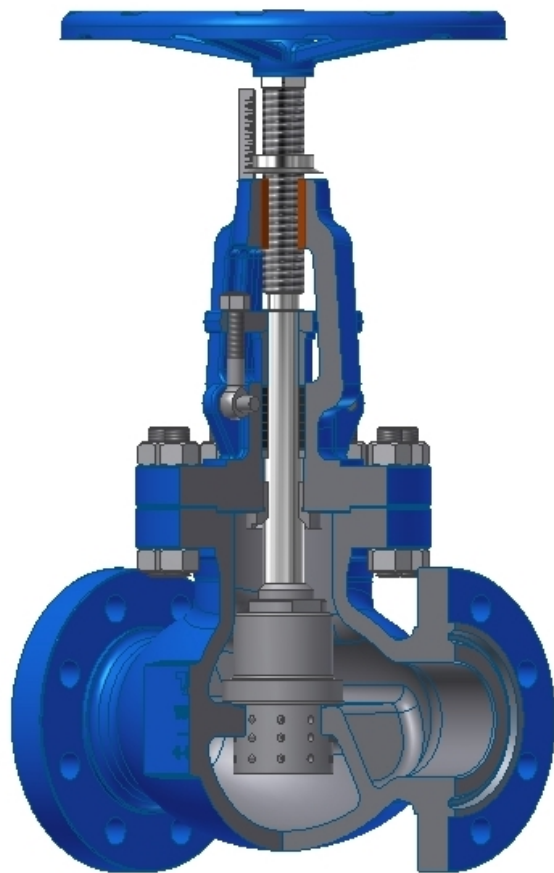


3 Stage design
with Perforated Plug, Seat
and Anti-Cavitation Cage



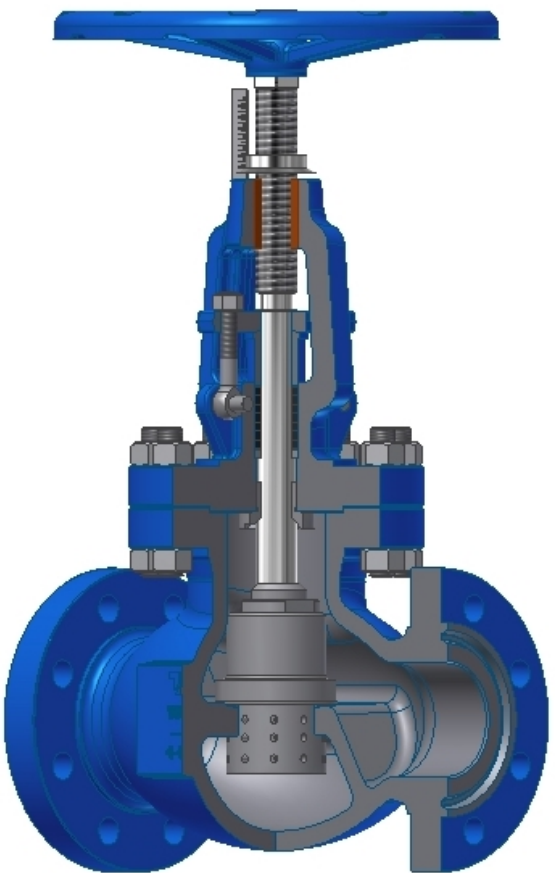
Control Valve EN 1349

Type	VENR
DN	15 ÷ 350
Rating	PN 16 ÷ 160
Standard Materials	
1.0460, 1.0565, 1.5415, 1.7335, 1.4301, 1.4541, 1.4404	
1.0619, 1.6220, 1.5419, 1.7357, 1.4308, 1.4408	



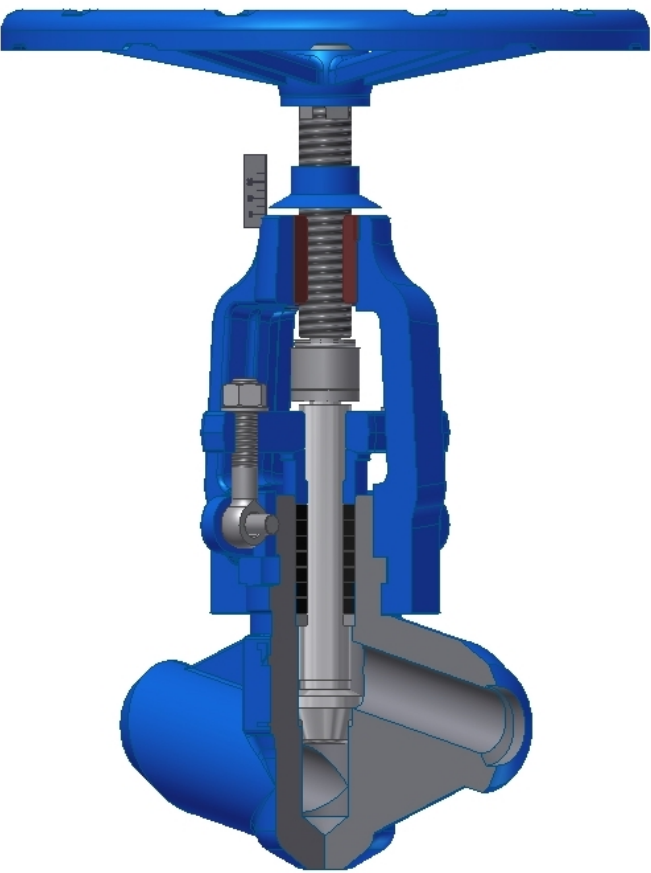
Control Valve BS Std.

Type	VBR
DN (NPS)	50 (2") ÷ 250 (10")
Rating	Cl 150 ÷ 900
Standard Materials	
WCB, LCB, LCC, LC1, WC6, CF8, CF8M	



High Pressure Control Valve

Type	VHPR
DN (NPS)	10 (3/8") ÷ 200 (8")
Rating	PN 250 ÷ 500 Cl 1500 ÷ 2500
Standard Materials	
1.0460, 1.5415, 1.7335, 1.7383, 1.4903, 1.4301, 1.4541, 1.4404	A105, F1, F12 Cl.2, F22 Cl.3, F91, F304, F321, F316



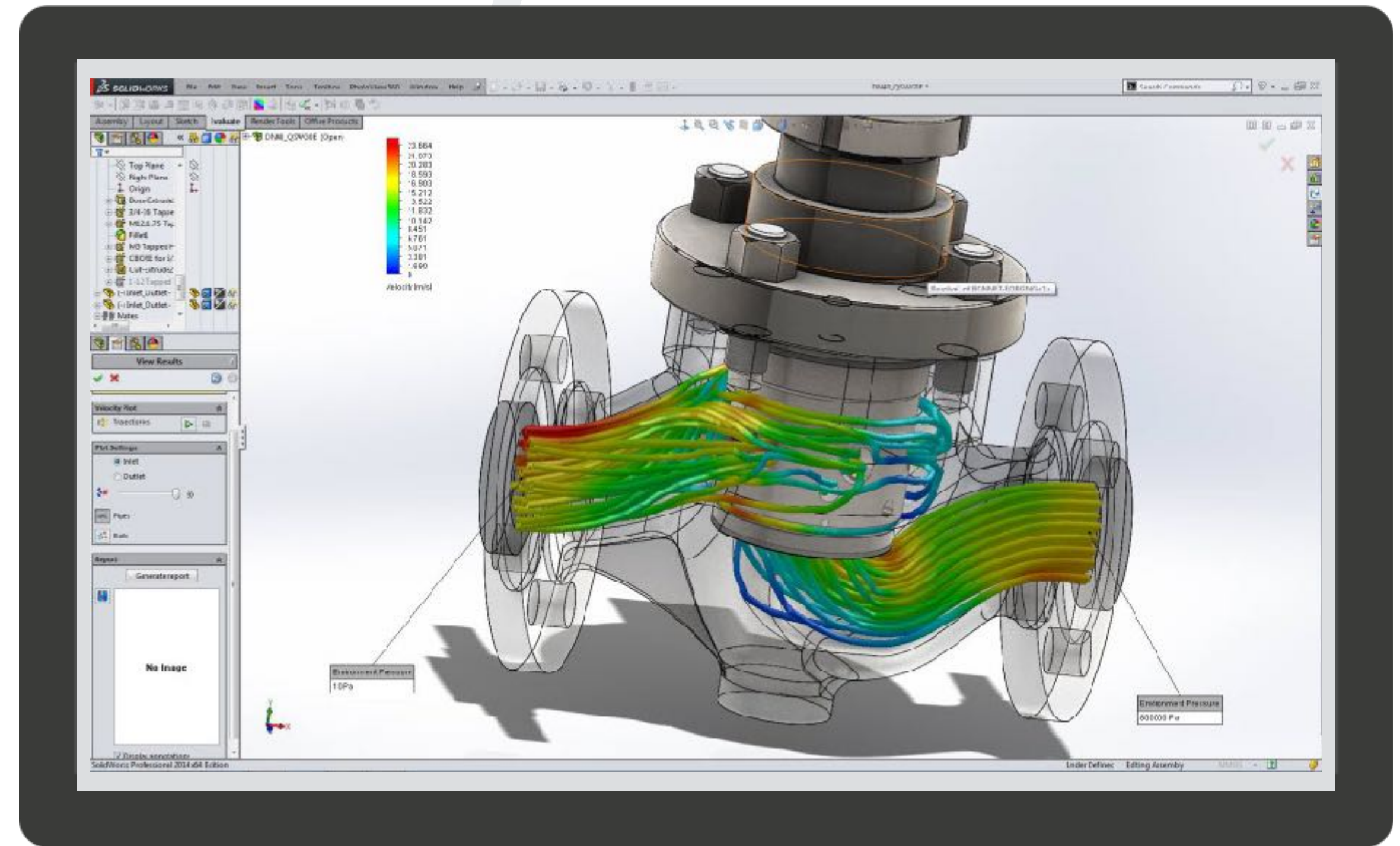
Other materials acc. to EN or ASTM Standards

SolidWorks® Flow Simulation

The SolidWorks® Flow Simulation provides the advanced capabilities we need to get to market faster—designers can catch mistakes sooner, change course quickly, and create better-performing products at a lower cost.

Engaging SolidWorks® Flow Simulation intuitive Computational Fluid Dynamics (CFD) in production process, enables TERMOVENT SC designers to simulate liquid and gas flow in real -world conditions, run “what if” scenarios, and efficiently analyze the effects of liquid flow, heat transfer, and related forces on immersed or surrounding components.

Early in the design process, our designers can easily simulate liquid flow, heat transfer, and liquid forces that are critical to the success of the product design.



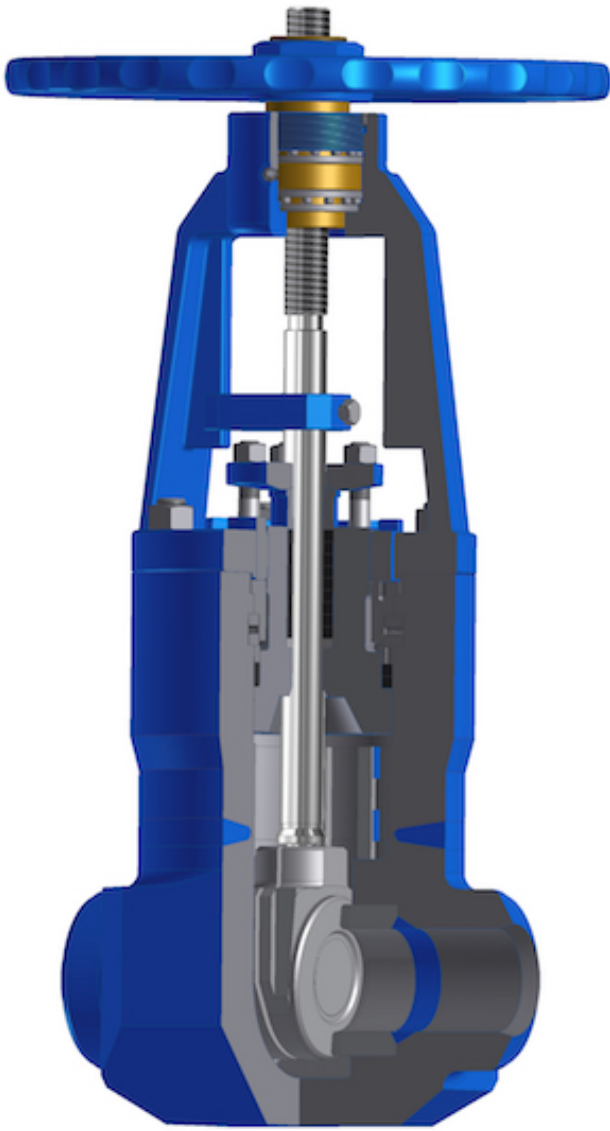
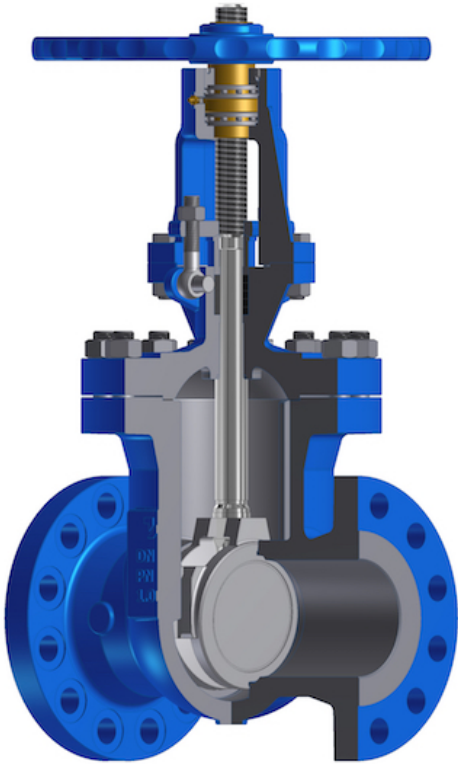
Gate Valves

High Pressure Gate Valve

Type	GHP
DN (NPS)	10 (⅜") ÷ 300 (12")
Rating	PN 250 ÷ 400 CI 900 ÷ 2500
Standard Materials	
1.0460, 1.5415, 1.7335,	A105, F1, F12 Cl.2, F22
1.7383, 1.4903, 1.4301,	Cl.3, F91, F304, F321,
1.4541, 1.4404,	F316,
1.0619, 1.6220, 1.7357,	WCB, WC1, WC6,
1.7379, C12A, 1.4308,	WC9, C12A, CF8,
1.4408	CF8C, CF8M

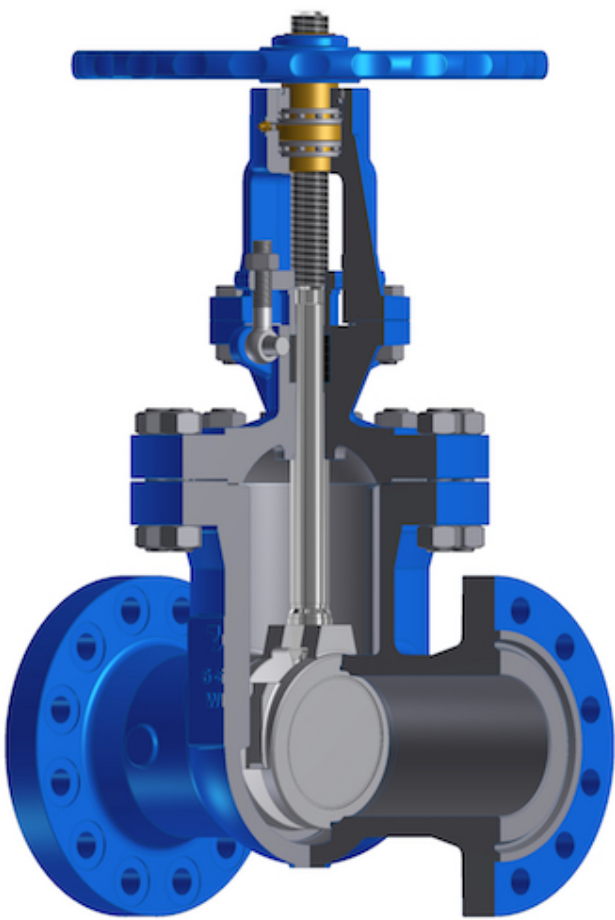
Gate Valve EN 1984

Type	GEN
DN	50 ÷ 600
Rating	PN 16 ÷ 160
Standard Materials	
1.0619, 1.6220, 1.5419, 1.7357, 1.4308, 1.4408	



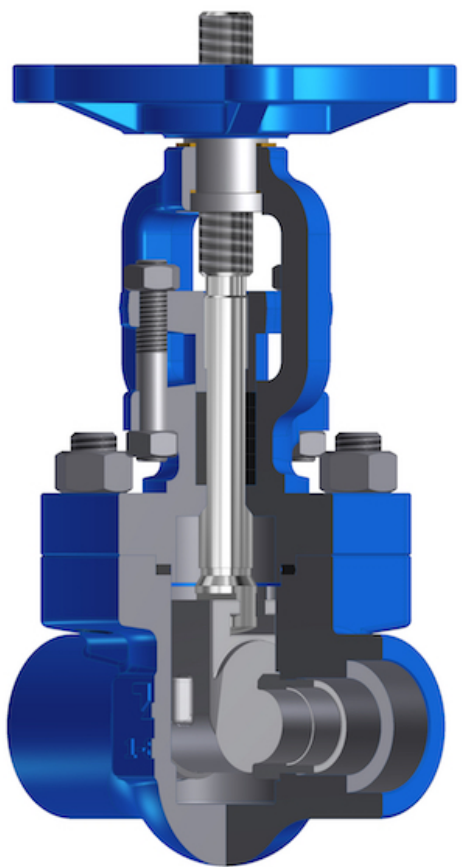
Gate Valve API 600

Type	GAC
DN (NPS)	50 (2") ÷ 650 (26")
Rating	Cl 150 ÷ 1500
Standard Materials	
WCB, LCB, LCC, LC1, WC6, CF8, CF8C, CF8M	



Gate Valve API 602

Type	GAF
DN (NPS)	8 (1/4") ÷ 50 (2")
Rating	Cl 150 ÷ 1500
Standard Materials	
A105, LF2, F12 Cl.2, F22 Cl.3, F5, F91, F304, F321, F347, F316	



Other materials acc. to EN or ASTM Standards

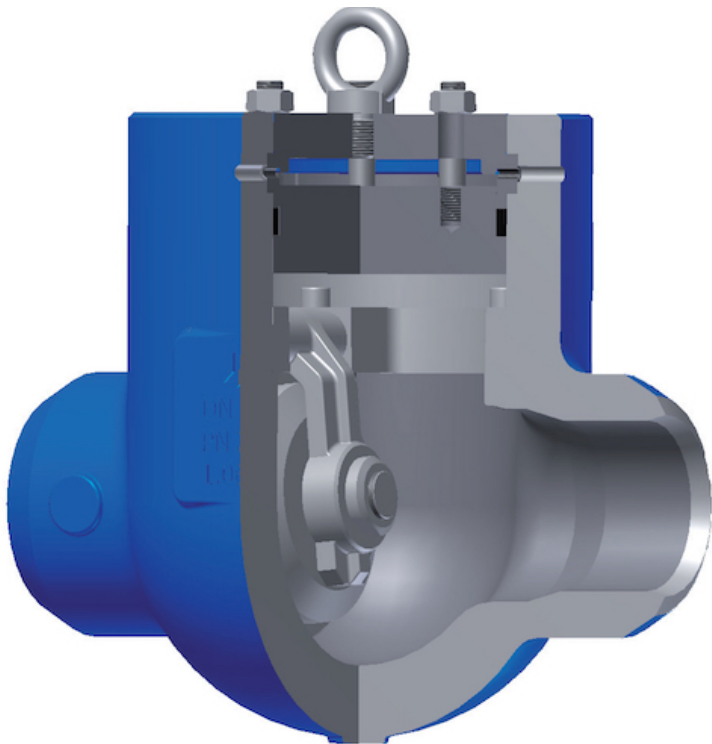


Check Valves

High Pressure Swing Check Valve

Type	CHPS
DN (NPS)	10 (3/8") ÷ 200 (8")
Rating	PN 250 CI 1500
Standard Materials	

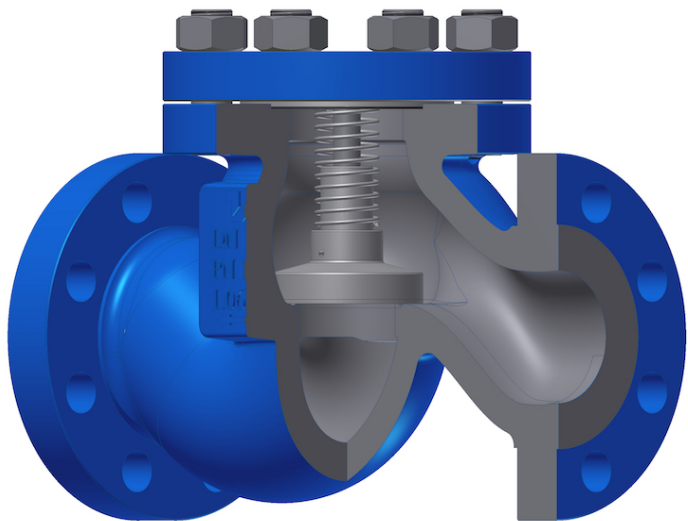
1.0619, 1.6220, 1.7357, 1.7379, C12A, 1.4308, 1.4408	WCB, WC1, WC6, WC9, C12A, CF8, CF8C, CF8M
1.0460, 1.5415, 1.7335, 1.7383, 1.4903, 1.4301, 1.4541, 1.4404,	A105, F1, F12 Cl.2, F22 Cl.3, F91, F304, F321, F316,



Lift Check Valve EN 14341

Type	CLEN
DN	15 ÷ 350
Rating	PN 16 ÷ 160
Standard Materials	

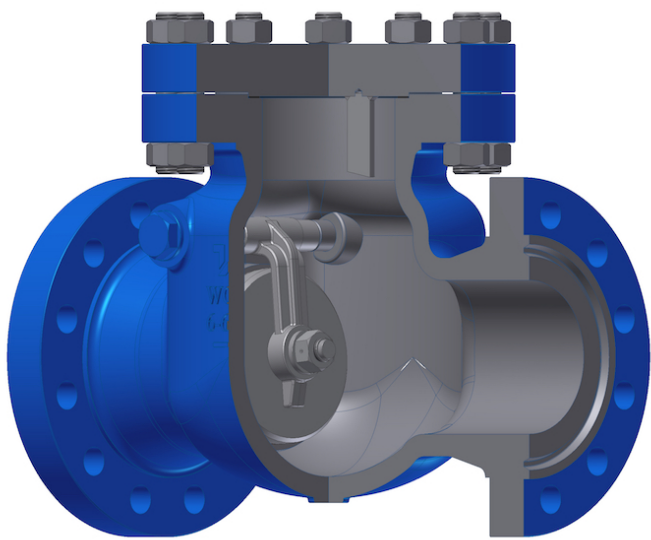
1.0460, 1.0565, 1.5415, 1.7335, 1.4301, 1.4541, 1.4404	1.0619, 1.6220, 1.5419, 1.7357, 1.4308, 1.4408
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Swing Check Valve BS 1868

Type	CSBS
DN (NPS)	15 (1/2") ÷ 600 (24")
Rating	CI 150 ÷ 900
Standard Materials	

WCB, LCB, LCC, LC1, WC6, CF8, CF8M

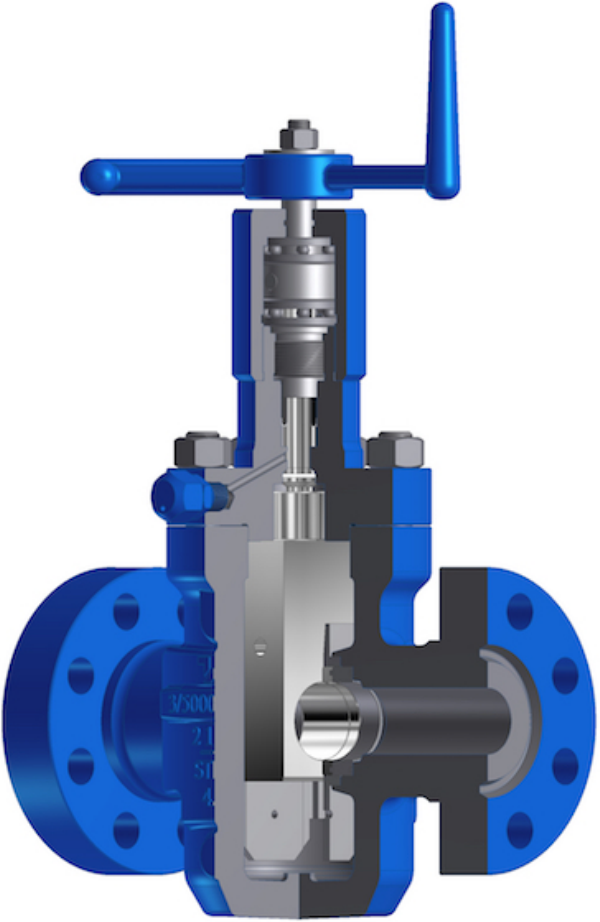


Other materials acc. to EN or ASTM Standards

Oil & Gas Exploitation Products

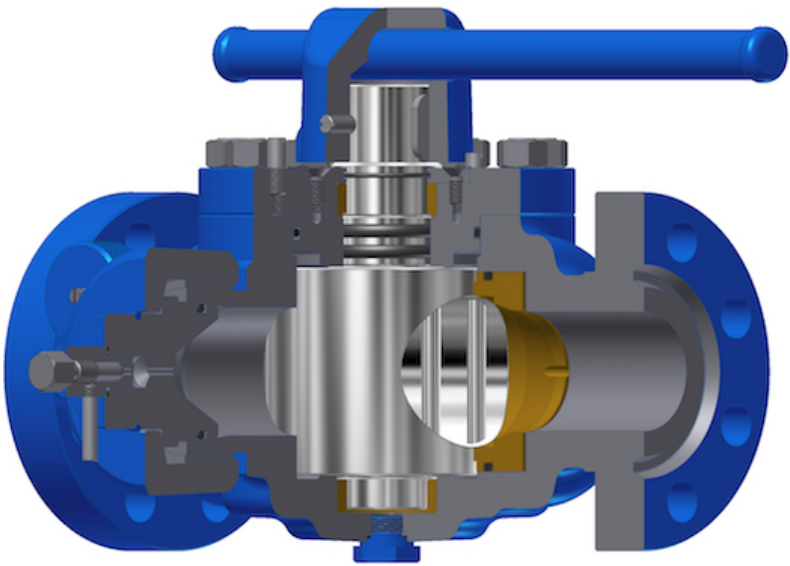
Xmass Tree Gate Valve API 6A

Type	GXT
DN (NPS)	50 (2 1/16") ÷ 100 (4 1/16")
Rating	2000 ÷ 5000 psi
Standard Materials	
4A, CA15	



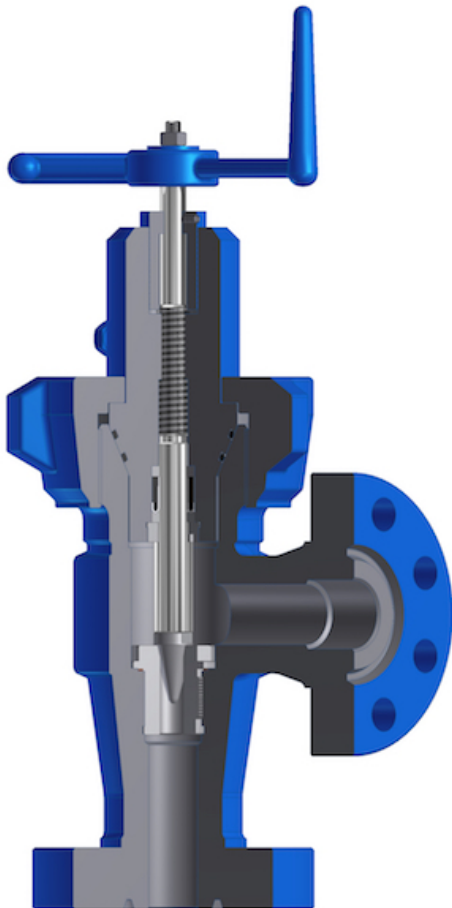
Pig Valve API 6D

Type	CPVP
DN	50 (2") ÷ 150 (6")
Rating	CI 600 ÷ 1500
Standard Materials	
WCB, LCB, LC1, LC2, CA15, CF8, CF8M	



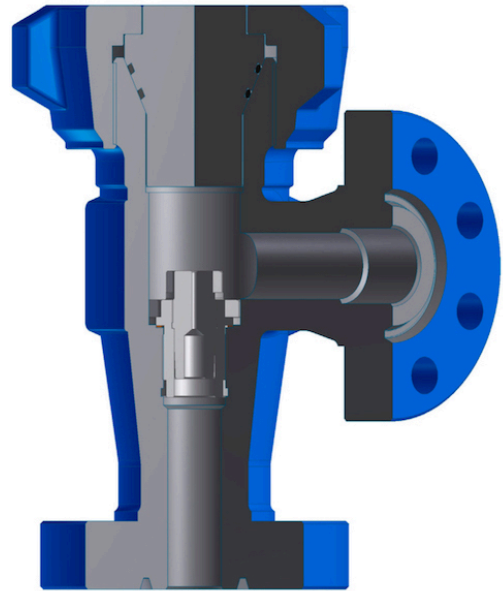
Adjustable Choke API 6A

Type	VAC
DN (NPS)	50 (2 1/16")
Rating	2000 ÷ 5000 psi
Standard Materials	
4A, CA15	



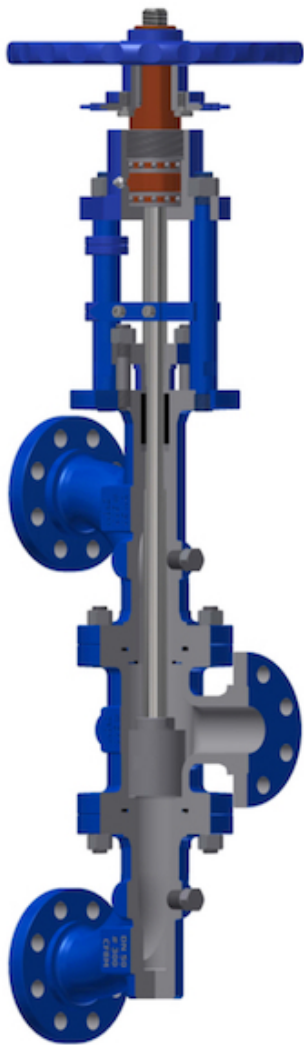
Positive Choke API 6A

Type	VPC
DN (NPS)	50 (2 1/16")
Rating	2000 ÷ 5000 psi
Standard Materials	
4A, CA15	



Change Over Valve

Type	COV
DN (NPS)	50 (2") ÷ 200 (8")
Rating	CI 150 ÷ 900
Standard Materials	
WCB, LCB, LCC, CF8, CF8M	



Other materials acc. to EN or ASTM Standards

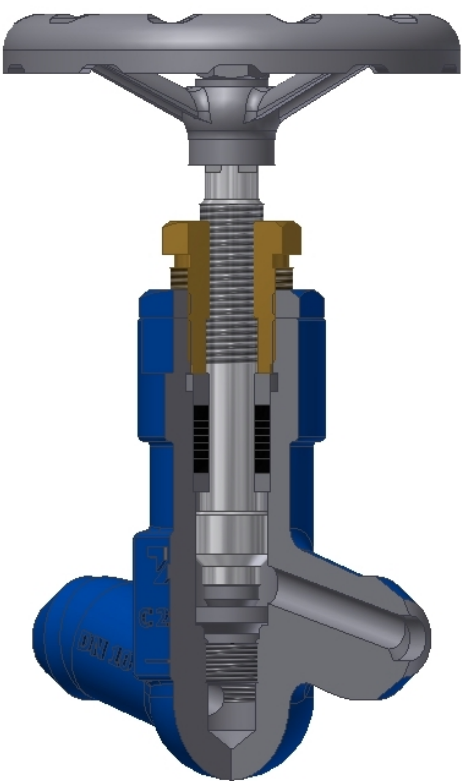


Other Types of Products

Needle Valve

Type	VNS
DN	6 ÷ 15
Rating	PN 16 ÷ 630
Standard Materials	

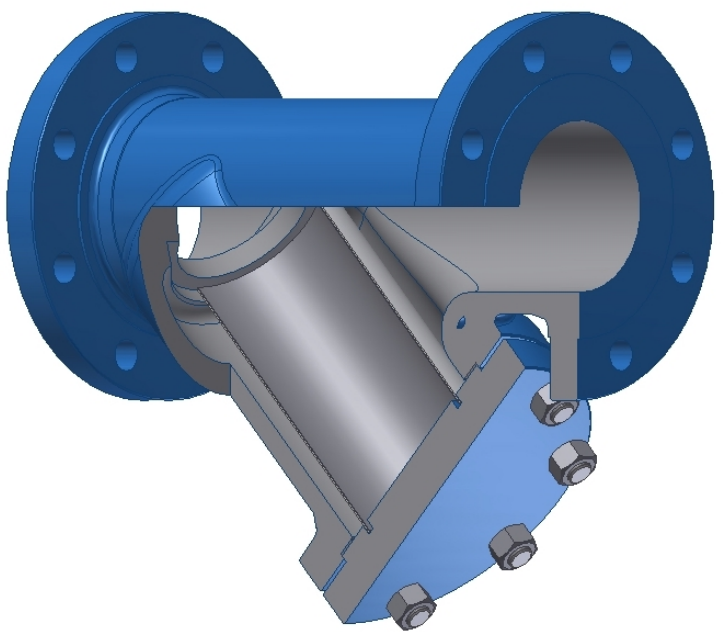
1.0460, 1.0565, 1.5415, 1.7335,
1.7383, 1.4903, 1.4301, 1.4541, 1.4404



Strainer Y type

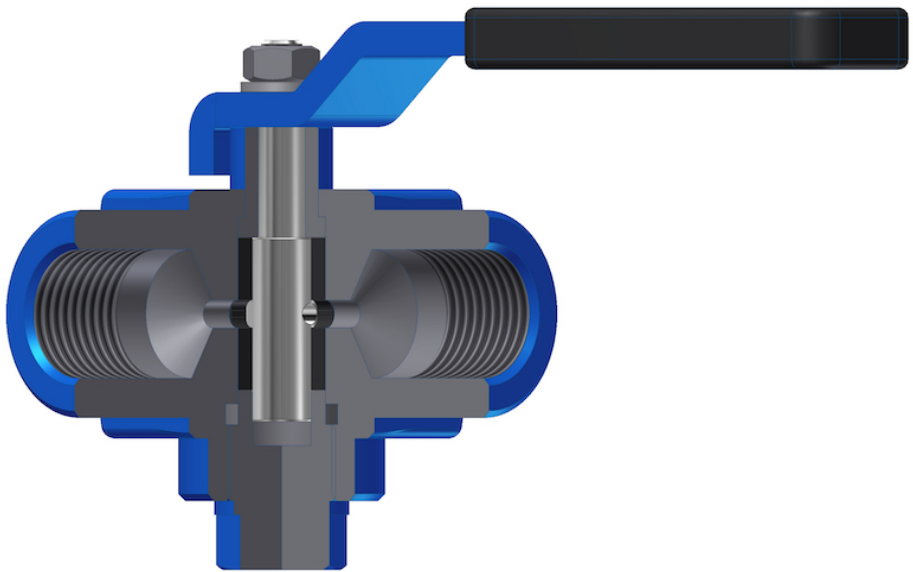
Type	SBSY
DN (NPS)	15 (½") ÷ 500 (20")
Rating	Cl 150 ÷ 300
Standard Materials	

WCB, LCB, WC1, WC6, WC9,
C12A, CF8, CF8C



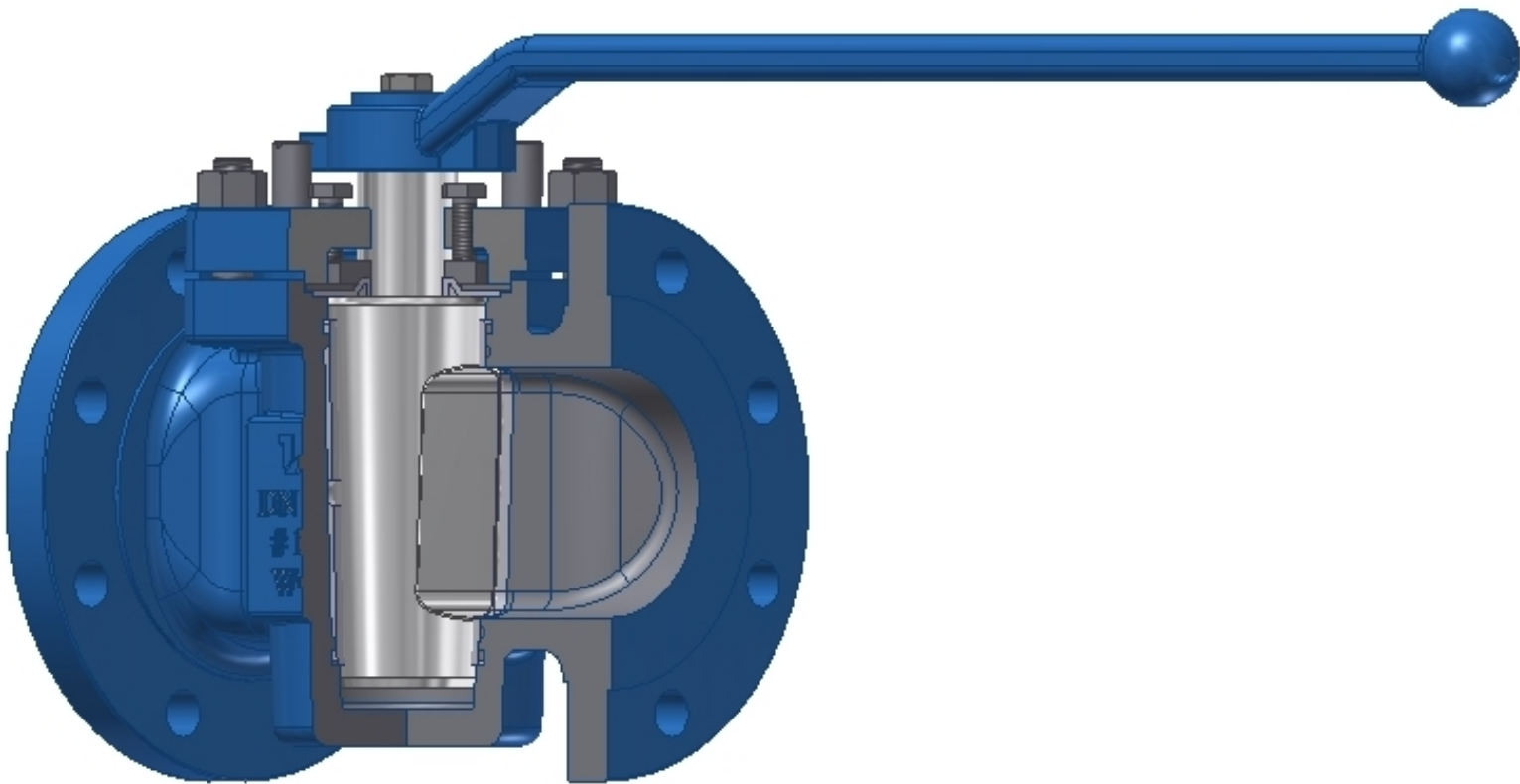
Cock for Pressure Gauge

Type	CPG
DN	15 ÷ 20
Rating	PN 16 ÷ 160
Standard Materials	
1.0460, 1.4301,1.4404	



Plug Valve

Type	CPV
DN (NPS)	15 (½") ÷ 300 (12")
Rating	PN16 ÷ 100CI 150 ÷ 600
DN (NPS) 15 (½") ÷ 50 (2") Rating CI 600	
Standard Materials	
A105, LF2, 304, F321, F316, HASTELLOY B2 WCB,LCB, CF8, CF8C, CF8M	

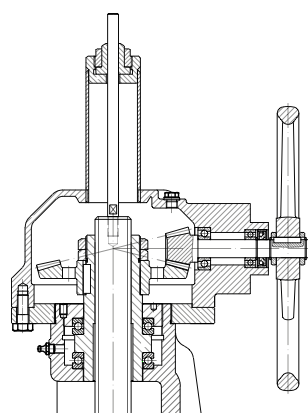


Other materials acc. to EN or ASTM Standards

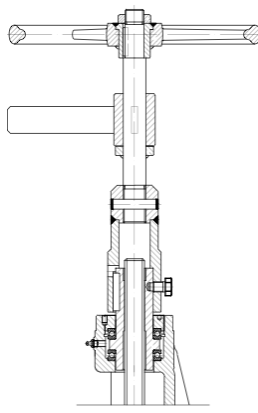


Optional Execution

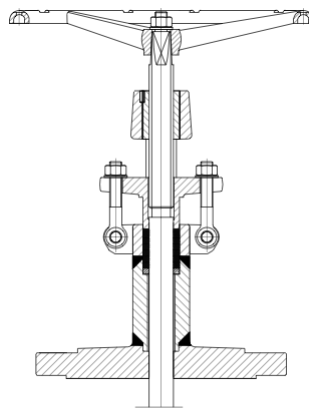
Globe Valves 



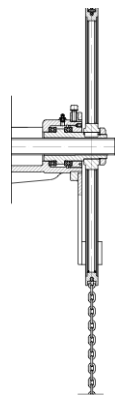
Gear operated



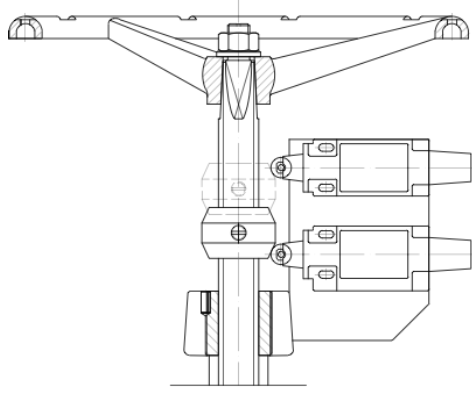
Extended stem



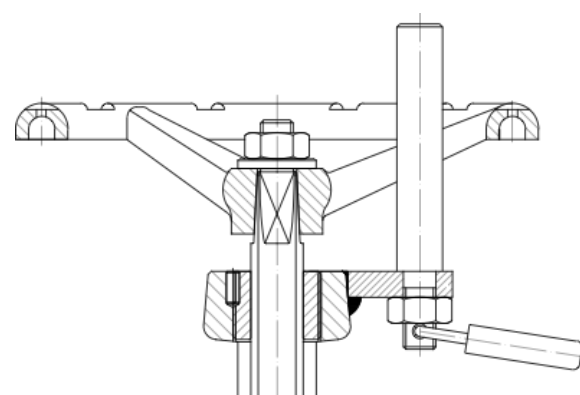
Extended bonnet



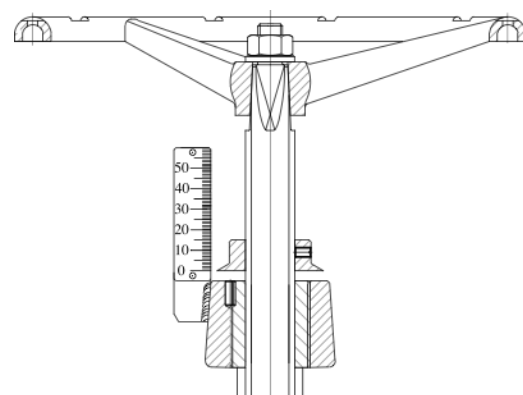
Chain operated



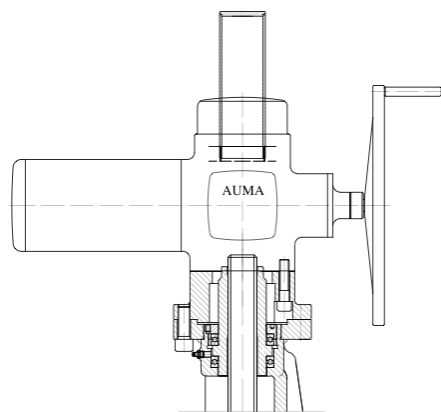
Limit switches



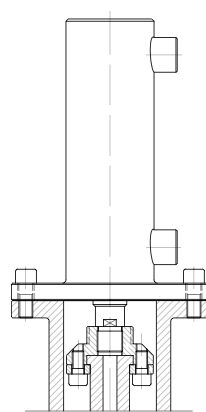
Locking device



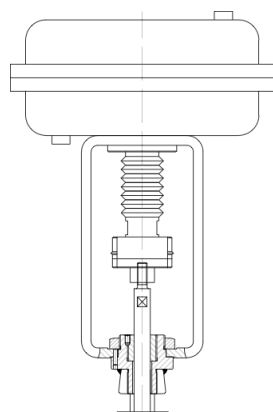
Position indicator



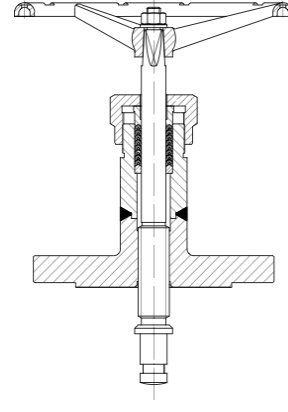
Electric actuator



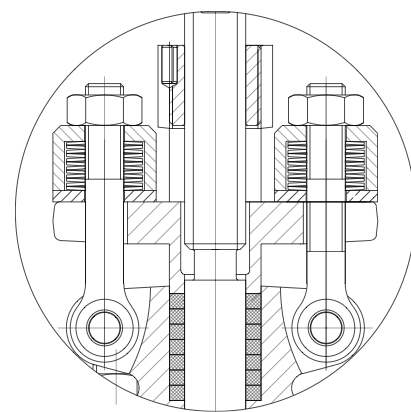
Hydraulic actuator



Pneumatic actuator



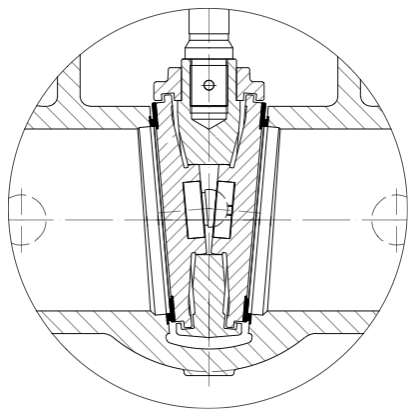
**Inside screw
rising stem (ISRS)**



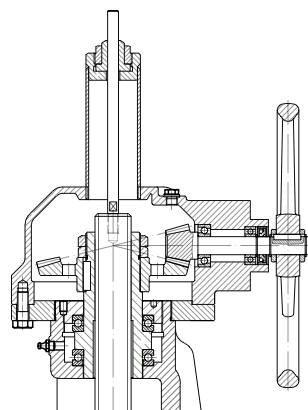
**Spring loaded
stuffing box**

Optional Execution

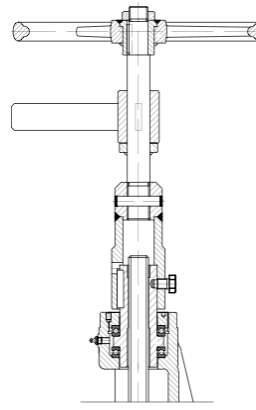
Gate Valves 



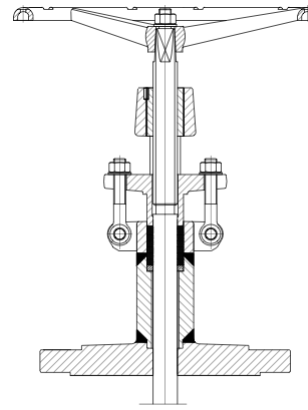
2 piece split wedge



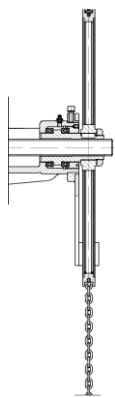
Gear operated



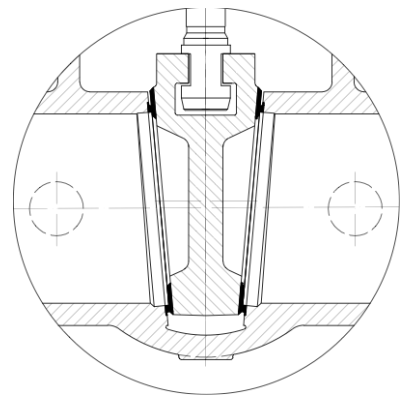
Extended stem



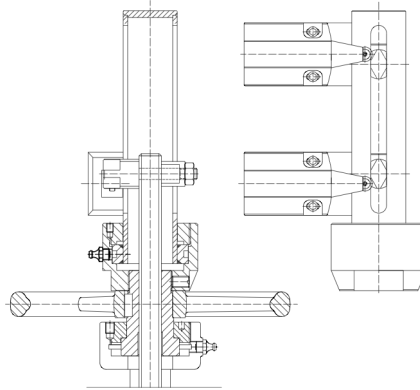
Extended bonnet



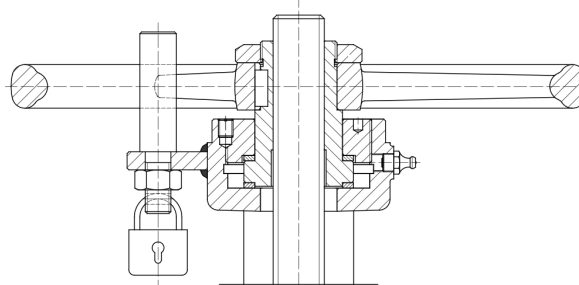
Chain operated



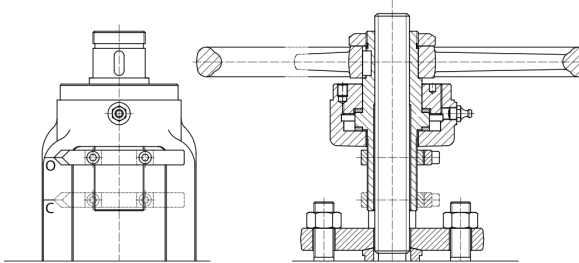
Solid wedge



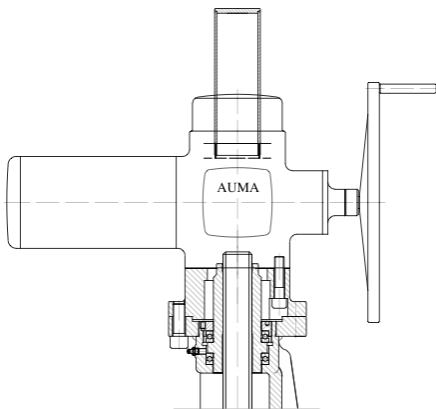
Limit switches



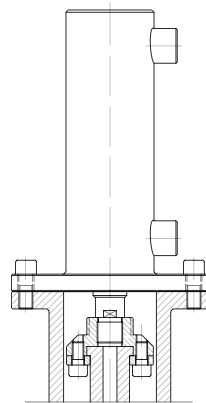
Locking device



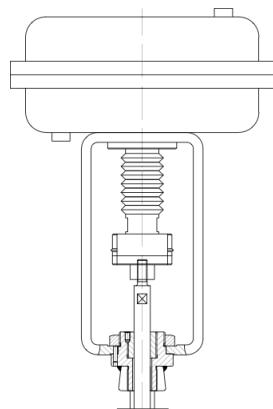
Position indicator



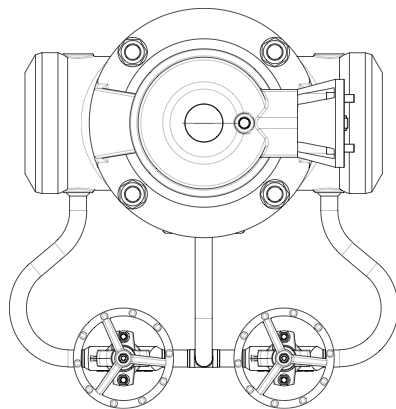
Electric actuator



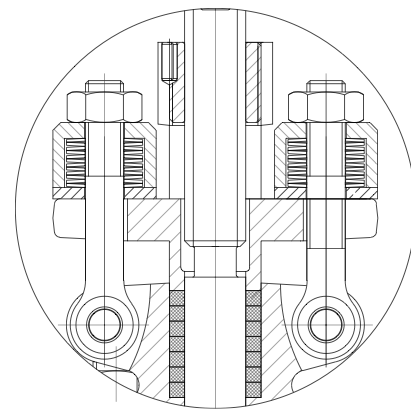
Hydraulic actuator



Pneumatic actuator



Overpressure safety device



Spring loaded stuffing box



Perfect for the pressure.
termoventsc.rs



Thank You!