

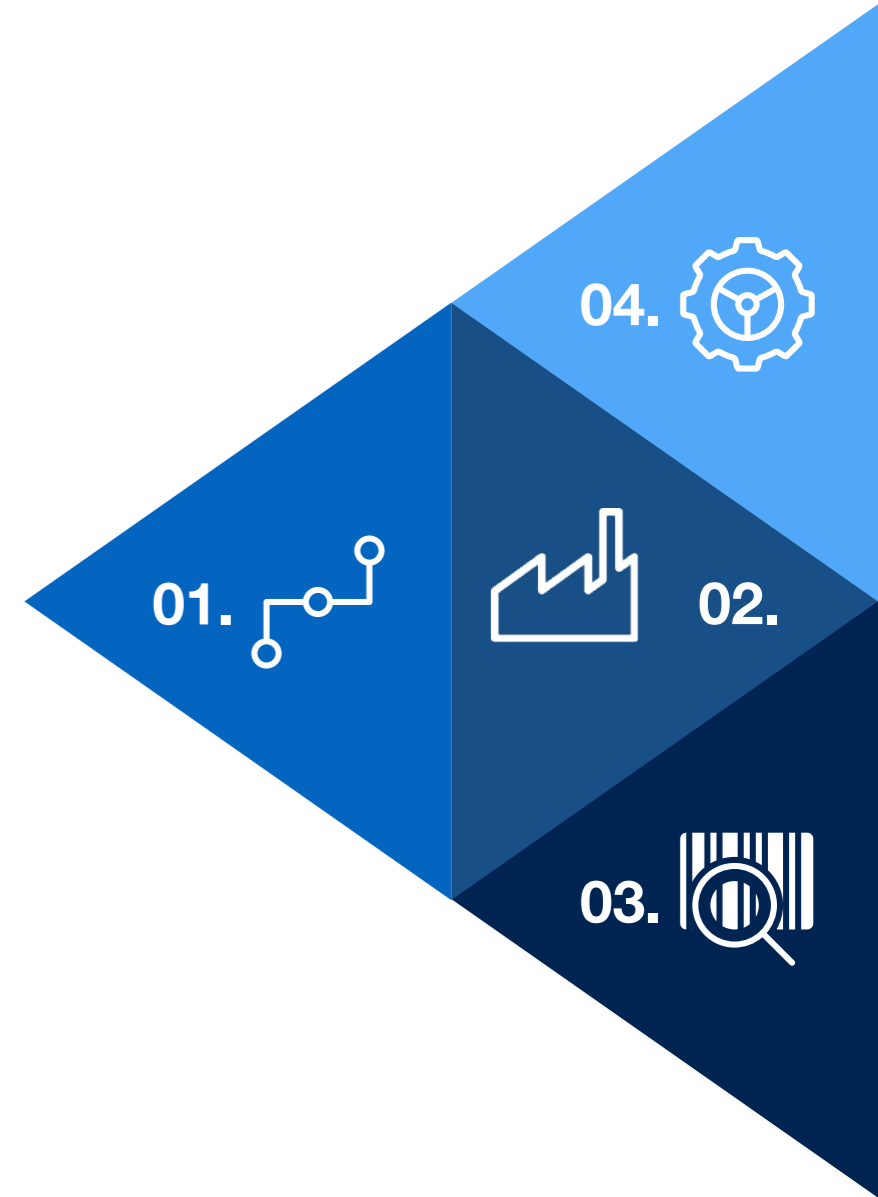
Discovering Termovent SC

Company Portrait & Production Range



Let Us Introduce Termovent SC

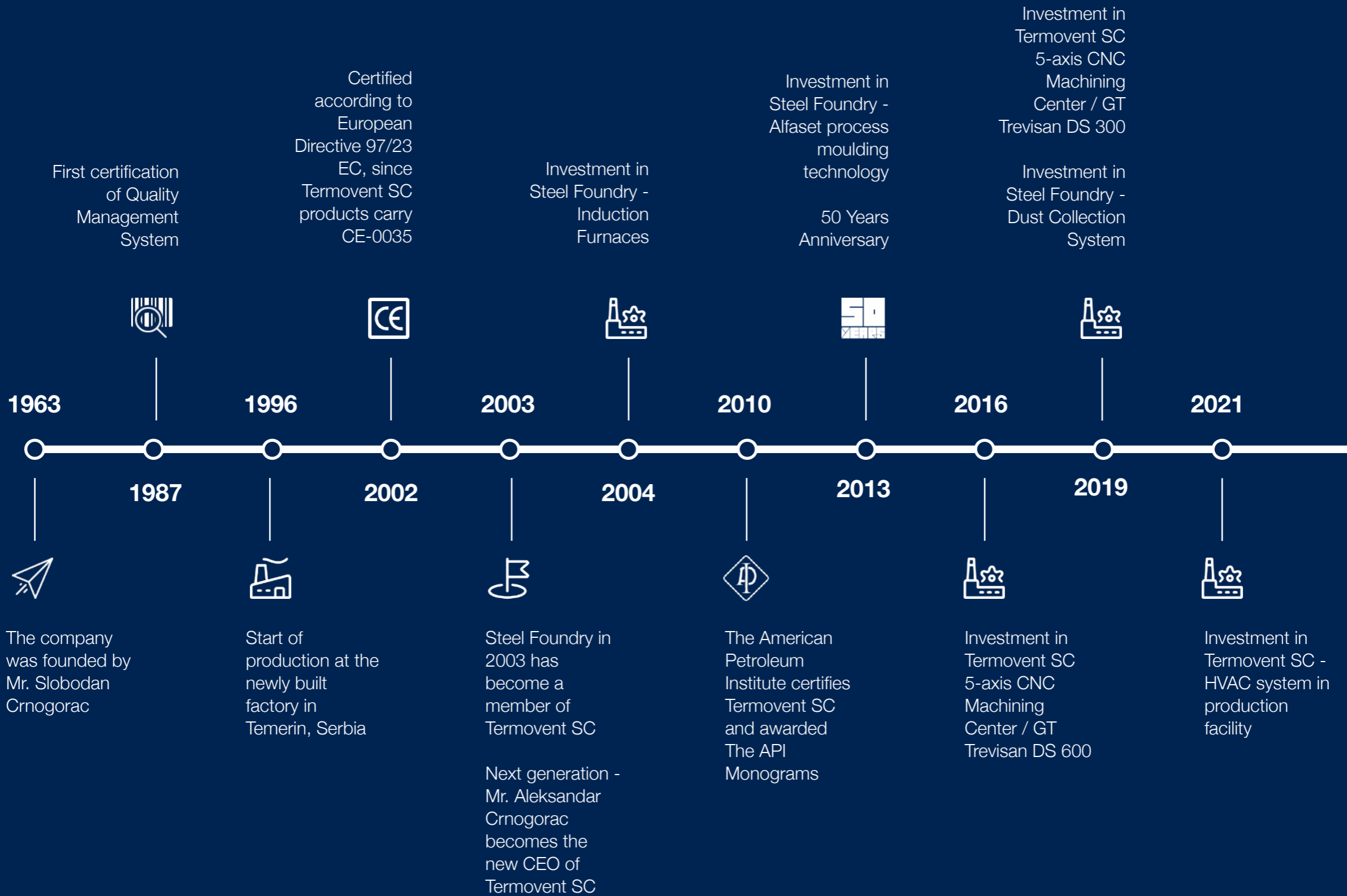
- 01. History**
- 02. Potential**
- 03. Program**
- 04. Achievements**





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 60 years of presence.





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



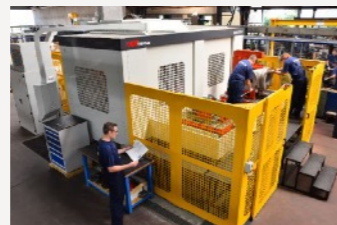
Steel Foundry

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.

 **175**
EMPLOYEES

 **8.500 m²**
OF PRODUCTION SPACE

Production of
STEEL CASTINGS





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.



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.

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.

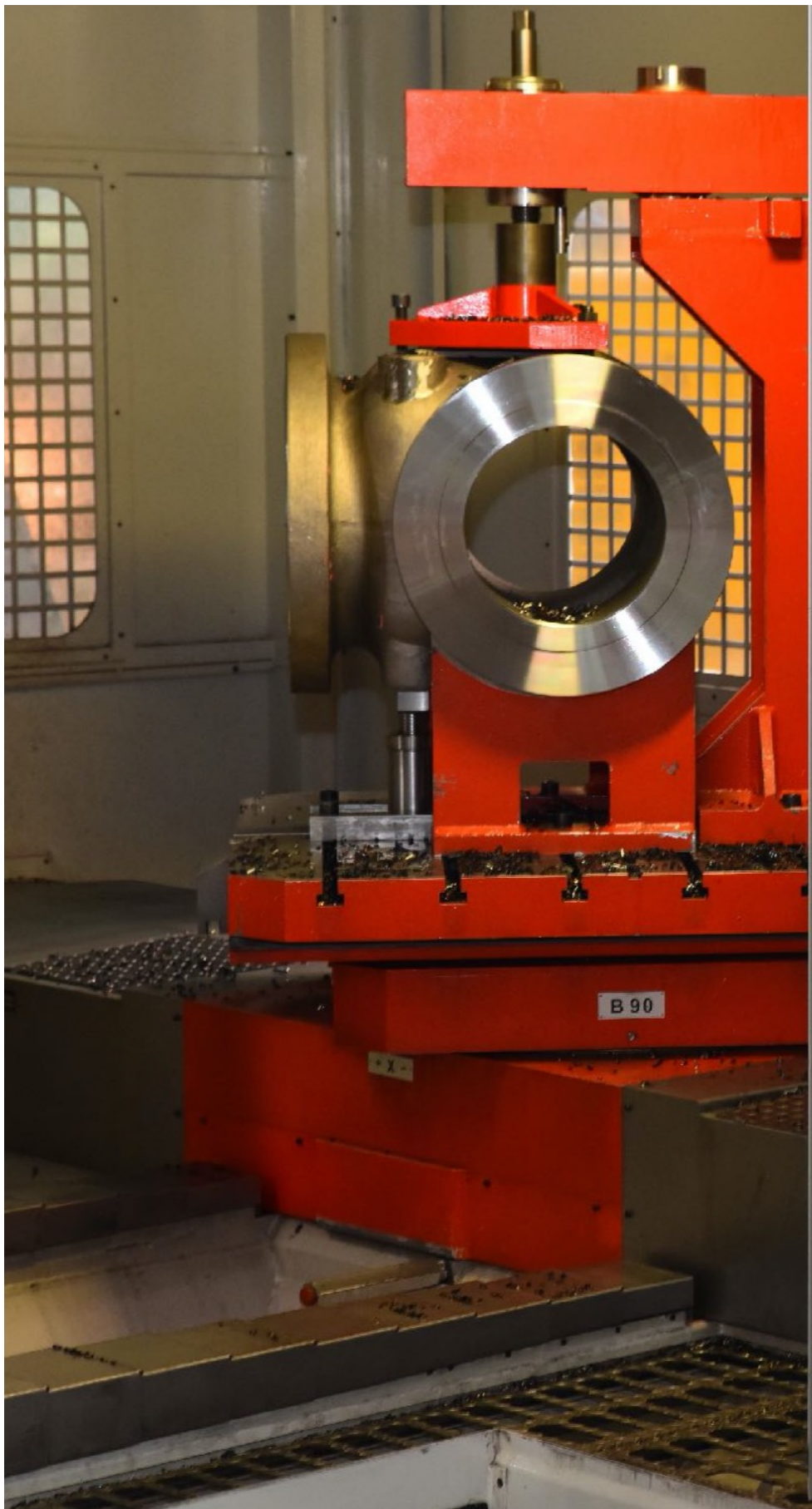
Lapping Machines — 3 pcs.

Automatic Painting Lines — 2 pcs.

Thread Rolling Machine

ProHeat™ 35 Heat Treatment System

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.





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. The control process is a permanent activity in our company, including: reception, process (between stages) and final control.

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.

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 — 2 pcs.

Equipment for magnetic particle examination

Equipment for wall thickness measuring

Hardness testing equipment

Equipment for coating thickness measuring

Equipment for liquid penetrant examination



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:

Valve Plant

- TÜV InterCert ISO 9001-2015
- EN ISO 3834
- AD-2000 Merkblatt HP 0
- PED 2014/68/EU – Module H1



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



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



Steel Foundry

- ISO 14001:2004
- OHSAS 18001:2007
- AD-2000 Merkblatt W 0



Fields of Application



Energetics

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



Oil & Gas

- Oil & Gas Exploitation
- Oil & Gas Pipelines
- Oil Refineries & 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

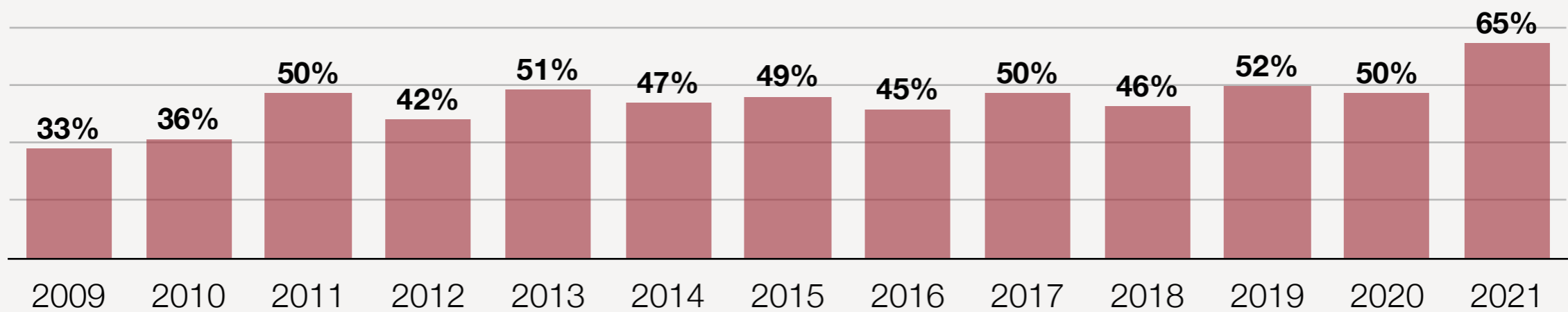


- Thermal Power Plants
- Production of Machines and Tools
- Cement Industry
- Mines and Ironworks
- Construction (Building) Industry
- Railways
- Automotive Industry
- Agricultural Mechanization
- Shipbuilding
- Valves Industry



Foundry Capacity
cca. 3.000 ton yearly

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



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

Gate/Globe/Check Valves and Strainers
acc. to EN Standards

Gate/Globe/Check/Plug Valves and Strainers
acc. to API Std.

High Pressure Globe/Gate and Swing Check Valves

Control Valves

Forged Gate/Globe/Check Valves and Strainers
acc. to API 602

Oil & Gas Exploitation Products

Other Types of Products



Gate/Globe/Check Valves and Strainers according to European Norms (EN)

BASIC FEATURES

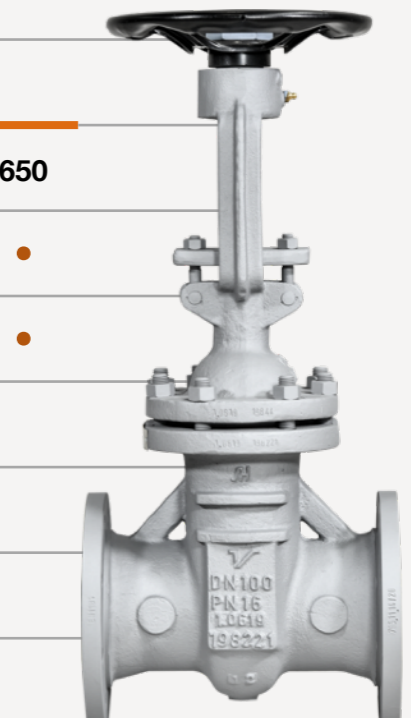
		Forged Materials		Casted Materials	
		EN	GOST	EN	GOST
Materials	Carbon Steels	1.0460	20	1.0619	20Л
	Low Temperature Carbon Steel	1.0565	09Г2С	1.1131	20ГЛ
	Low Temperature Alloy Steel			1.6220	20ГМЛ
	Low Alloy Steel	1.5415	15M	1.5419	
	Heat Resistant Alloy Steels	1.7335, 1.7383, 1.7366, 1.4903	15XM, 10X2M, 15X5M, 10X9MФБ	1.7357, 1.7379, 1.7365, 1.4955	20XMЛ, 20X2M1Л, 20X5MЛ
	Stainless Steel	1.4301/1.4307, 1.4401/1.4404, 1.4541, 1.4550, 1.4571	08X18H10/03X18H11, 08X16H11M3/03X17H14M3, 08X18H10T, 10X17H13M2T	1.4308, 1.4552, 1.4408, 1.4581	07X18H9Л, 12X18H9ТЛ, 12X18H12M3ТЛ
Pressures-temperatures ratings:		EN 12516-1			
Installation lengths:		EN 558-1 and EN 12982			
Flange type and size conform to standard:		EN 1092-1			
Butt Welding Ends (BW) type and size conform to standard:		EN 12627			
Inspection and Testing conform to Standard:		EN 12266, Part 1 and part 2			



Gate Valves acc. to EN 1984

Type: GEN

Material type		Casted Materials														
DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600	650
Nominal Pressure	PN 16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 63	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 160	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



Globe Valves acc. to EN 13709

Type: VENS

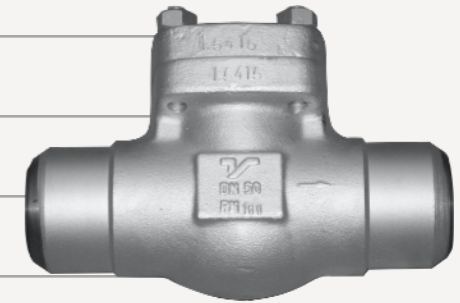
Material type		Forged Materials					Casted Materials										
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
Nominal Pressure	PN 40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 63	●	●	●	●●	●●	●	●	●	●	●	●	●	●	●	●	●
	PN 100	●	●	●	●●	●●	●	●	●	●	●	●	●	●	●	●	●
	PN 160	●	●	●	●●	●●	●	●	●	●	●	●	●	●	●	●	●
	PN 250	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



Lift Type Check Valves acc. to EN 13709

Type: CLEN

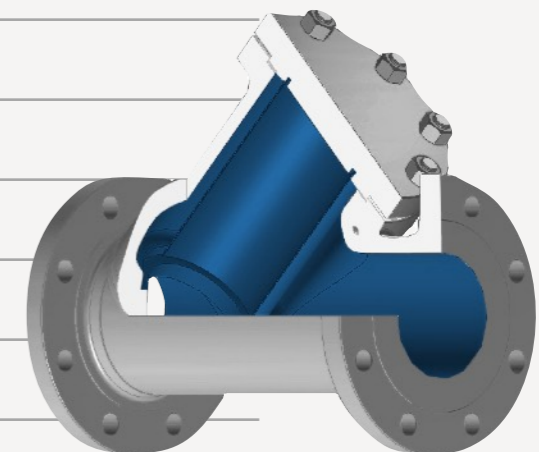
Material type		Forged Materials					Casted Materials										
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
Nominal Pressure	PN 40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 63	●	●	●	●	●	●	●	●	●	●	●	●	●			
	PN 100	●	●	●	●	●	●	●	●	●	●	●	●	●			
	PN 160	●	●	●	●	●	●	●	●	●	●	●	●	●			
	PN 250	●	●	●	●	●											



Y type Strainers

Type: SENY

Material type		Forged Materials					Casted Materials						
DN		15	20	25	32	40	50	65	80	100	125	150	200
Nominal Pressure	PN 16	●	●	●		●	●		●	●	●	●	●
	PN 25	●	●	●		●	●		●	●	●	●	●
	PN 40	●	●	●		●	●		●	●	●	●	●
	PN 63	●	●	●	●	●	●	●	●	●	●	●	●
	PN 100	●	●	●	●	●	●	●	●	●	●	●	●
	PN 160	●	●	●	●	●	●	●	●	●	●	●	●
	PN 250	●	●	●	●	●							



Gate/Globe/Check/Plug Valves and Strainers according to API Standards

BASIC FEATURES

		Casted Materials
M a t e r i a l s	Carbon Steels	WCB
	Low Temperature Carbon Steel	LC1, LCB, LCC
	Low Temperature Alloy Steel	LC2
	Low Alloy Steel	WC1
	Heat Resistant Alloy Steels	WC6, WC9, C5, C12, C12A
	Stainless Steel	CF8, CF8M, CF8C
Pressures-temperatures ratings:		ASME B16.34
Installation lengths:		ANSI B16.10
Flange type and size conform to standard:		ANSI B16.5
Butt Welding Ends (BW) type and size conform to standard:		ANSI B16.25
Inspection and Testing conform to Standard:		API 598



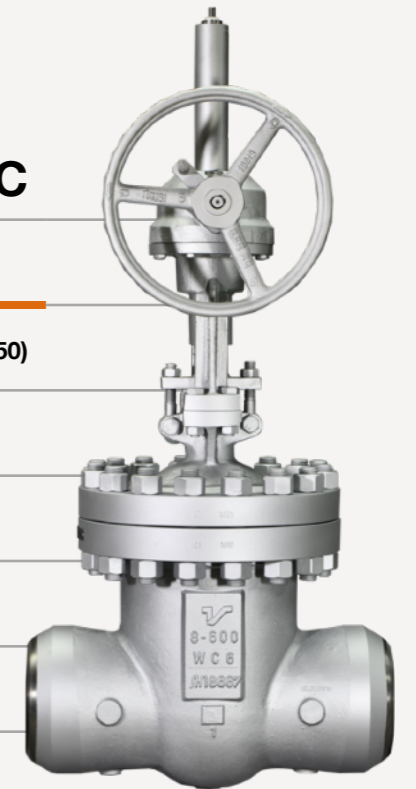
Gate Valves acc. to API 600

Type: GAC

Material type:

Casted Materials

NPS (DN)		2" (50)	2 1/2"(65)	3"(80)	4"(100)	6"(150)	8"(200)	10"(250)	12"(300)	14"(350)	16"(400)	18"(450)	20"(500)	24"(600)	26"(650)
Pressure Class	Class 150	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Class 300	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Class 600	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Class 900	•	•	•	•	•	•	•	•						
	Class 1500	•	•	•	•	•									



Globe Valves acc. to API 623/BS 1873

Type: VBS

Material type:

Casted Materials

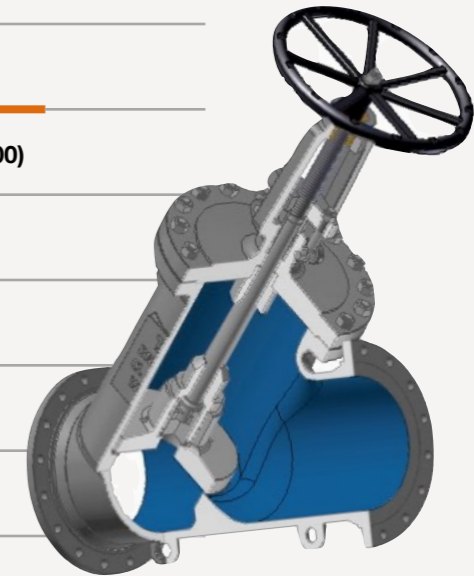
NPS (DN)		2" (50)	2 1/2"(65)	3"(80)	4"(100)	6"(150)	8"(200)	10"(250)	12"(300)	14"(350)	16"(400)
Pressure Class	Class 150	•	•	•	•	•	•	•	•		
	Class 300	•	•	•	•	•	•	•	•	•	•
	Class 600	•	•	•	•	•	•	•			
	Class 900	•	•	•	•	•	•				



Y type Globe Valves acc.to API 623/BS 1873

Type: VBSY

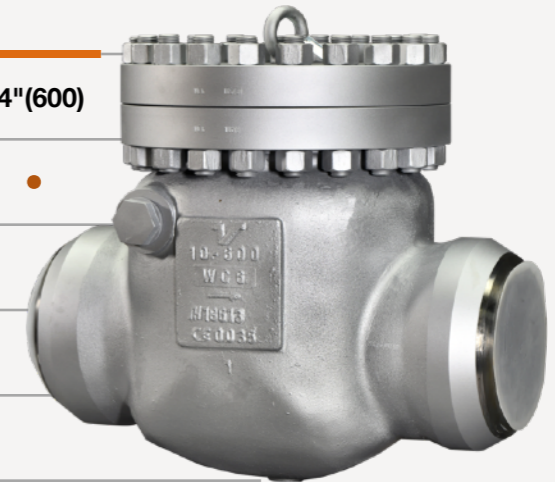
Material type:		Casted Materials											
NPS (DN)		2" (50)	2 1/2"(65)	3"(80)	4"(100)	5"(125)	6"(150)	8"(200)	10"(250)	12"(300)	14"(350)	16"(400)	20"(500)
Pressure Class	Class 150	•		•	•	•	•	•	•	•	•	•	•
	Class 300	•		•	•		•	•	•				
	Class 600	•	•	•	•		•	•					
	Class 900						•						
	Class 1500	•											



Swing Check Valves acc. to API 6D/BS 1868

Type: CSBS

Material type:		Casted Materials											
NPS (DN)		2" (50)	2 1/2"(65)	3"(80)	4"(100)	5"(125)	6"(150)	8"(200)	10"(250)	12"(300)	14"(350)	16"(400)	24"(600)
Pressure Class	Class 150	•	•	•	•	•	•	•	•	•	•	•	•
	Class 300	•	•	•	•	•	•	•	•	•	•	•	
	Class 600	•	•	•	•		•	•	•				
	Class 900	•	•	•	•	•	•	•	•				
	Class 1500	•	•	•	•								



Y type Strainers

Type: SBSY

NPS (DN) 1/2"(15) 3/4"(20) 1"(25) 1 1/4"(32) 1 1/2"(40) 2" (50) 2 1/2"(65) 3"(80) 4"(100) 5"(125) 6"(150) 8"(200) 10"(250) 12"(300) 14"(350) 16"(400) 20"(500)

Material type:

Forged Materials

Casted Materials

Pressure Class	Forged Materials					Casted Materials											
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
Class 150	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Class 300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Class 600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Class 900	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Class 1500	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



Plug Valves acc.to API 6D/API 599

Type: CPV

NPS (DN) 1/2"(15) 3/4"(20) 1"(25) 1 1/4"(32) 1 1/2"(40) 2" (50) 2 1/2"(65) 3"(80) 4"(100) 5"(125) 6"(150) 8"(200) 10"(250) 12"(300) 14"(350)

Material type:

Forged Materials

Casted Materials

Pressure Class	Forged Materials					Casted Materials									
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"
Class 150	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Class 300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Class 600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



High Pressure Globe Valve

High Pressure Globe Valves acc. to Mnf. Standard

Pressure Seal Globe Valves acc. to ANSI B16.34

BASIC FEATURES

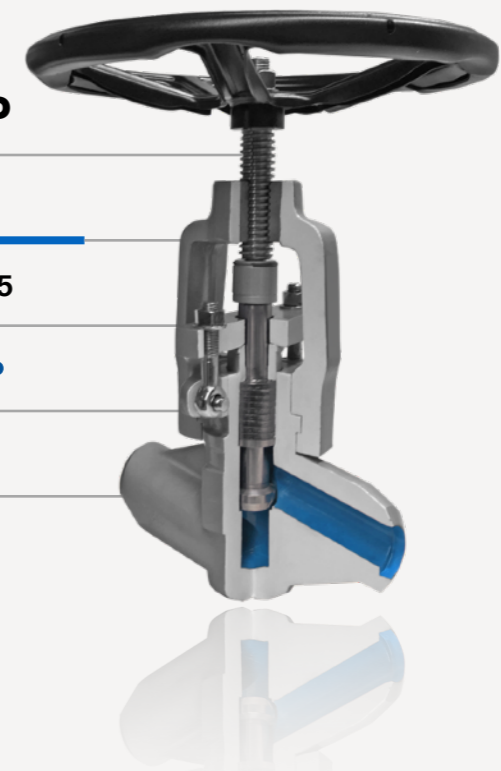
	Forged Steels	Cast Steels	
M a t e r i a l s	Carbon Steels	A105/1.0460	WCB/1.0619
	Low Temperature Carbon Steel	LF2/1.0565	LC1, LCB, LCC
	Low Temperature Alloy Steel		LC2
	Low Alloy Steel	F1/1.5415	WC1
	Heat Resistant Alloy Steels	F12Cl.2/1.7335, F22 Cl.3/1.7383, F5/1.7366, F9, F91/1.4903	WC6/1.7357, WC9/1.7379, C5/1.7365, C12, C12A/1.4955
	Stainless Steel	F304/304L(1.4301/1.4307), F316/316L(1.4401/1.4404), F316H, F316Ti /1.4571, F321/321H(1.4541), F347/347H(1.4550)	CF8/1.4308, CF8M/1.4408, CF8C/1.4552
Pressures-temperatures ratings:	ASME A1:G13 or EN 12516-1		
Installation lengths:	ANSI B16.10 or EN 558-1 and EN 12982		
Flange type and size conform to standard:	ANSI B16.5 or EN 1091-1		
Butt Welding Ends (BW) type and size conform to standard:	ANSI B16.25 or EN 12627		
Inspection and Testing conform to Standard:	API 598 or EN 12266		



High Pressure Globe Valves acc. to Mnf. Standard

Type: VHP

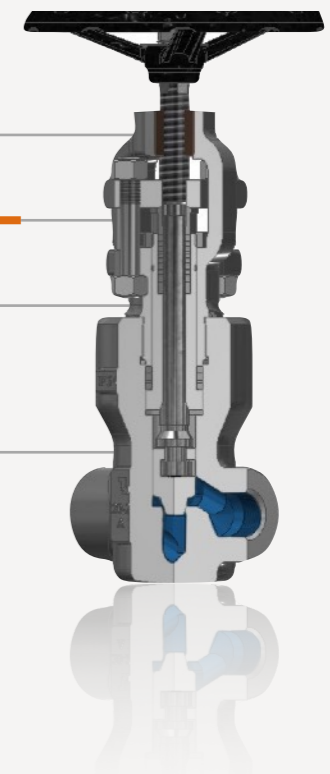
Material type		Forged Materials							
DN	10	15	20	25	32	40	50	65	
Nominal Pressure	PN 250	•	•	•	•	•	•	•	•
	PN 400	•	•	•	•	•	•	•	
	PN 500	•	•	•	•	•	•		



Pressure Seal Globe Valves acc. to ANSI B16.34

Type: VHP_PS

Material type		Forged Materials			Casted Materials		
NPS (DN)	1/2"(15)	3/4"(20)	1"(25)	3"(80)	4"(100)	6"(150)	8"(200)
Pressure Class (Nominal Pressure)	Class 1500 (PN 250)	•	•		•		•
	Class 2500 (PN 400)	•	•	•	•	•	•



High Pressure Gate Valves

BASIC FEATURES

	Forged Steels	Cast Steels	
Materials	Carbon Steels	A105/1.0460	WCB/1.0619
	Low Temperature Carbon Steel	LF2/1.0565	LC1, LCB, LCC
	Low Temperature Alloy Steel		LC2
	Low Alloy Steel	F1/1.5415	WC1
	Heat Resistant Alloy Steels	F12Cl.2/1.7335, F22 Cl.3/1.7383, F5/1.7366, F9, F91/1.4903	WC6/1.7357, WC9/1.7379, C5/1.7365, C12, C12A/1.4955
	Stainless Steel	F304/304L(1.4301/1.4307), F316/316L(1.4401/1.4404), F316H, F316Ti /1.4571, F321/321H(1.4541), F347/347H(1.4550)	CF8/1.4308, CF8M/1.4408, CF8C/1.4552
Pressures-temperatures ratings:	ASME A1:G13 or EN 12516-1		
Installation lengths:	ANSI B16.10 or EN 558-1 and EN 12982		
Flange type and size conform to standard:	ANSI B16.5 or EN 1091-1		
Butt Welding Ends (BW) type and size conform to standard:	ANSI B16.25 or EN 12627		
Inspection and Testing conform to Standard:	API 598 or EN 12266		

Pressure Seal Gate Valves acc. to ANSI B16.34

Type: GHP

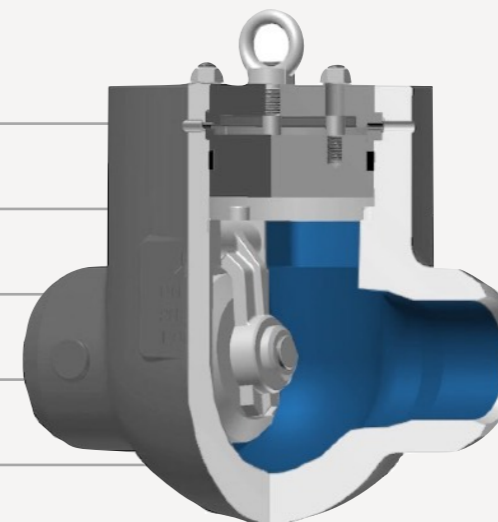
Material type	Forged Materials							Casted Materials						
	NPS (DN)	1/2"(15)	3/4"(20)	1"(25)	2" (50)	2 1/2"(65)	3"(80)	4"(100)	6"(150)	8"(200)	10"(250)	12"(300)	14"(350)	16"(400)
Pressure Class (Nominal Pressure)	Class 600 (PN 100)				•				•	•				
	Class 900 (PN 160)				•	•	•		•	•		•		
	Class 1500 (PN 250)	•	•		•	•	•	•	•	•	•	•	•	•
	Class 2500 (PN 400)	•	•	•		•	•	•	•	•	•	•		



High Pressure Swing Check Valve and Needle Valve

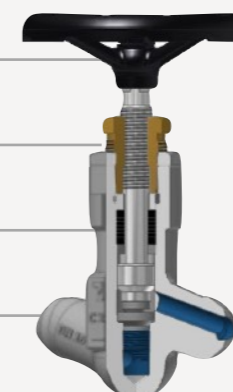
High Pressure Swing Check Valve

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,



Needle Valve

Type	VNS
DN	6 ÷ 15
Rating	PN 16 ÷ 500
Standard Materials	
1.0460, 1.0565, 1.5415, 1.7335, 1.7383, 1.4903, 1.4301, 1.4541, 1.4404	

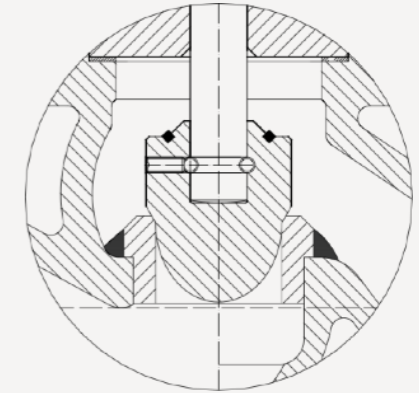


Other materials acc. to EN or ASTM Standards

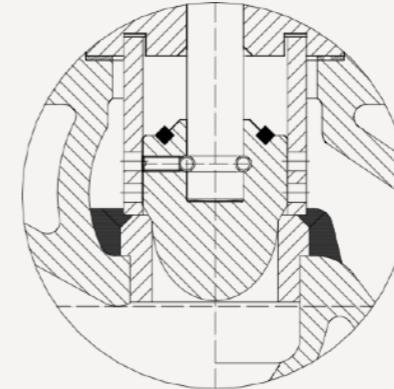
Control Valves

With equal percentage or linear flow characteristic

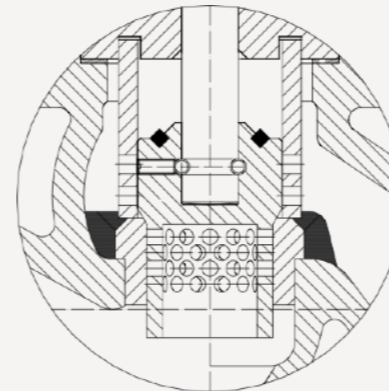
1 Stage design
with Parabolic Plug



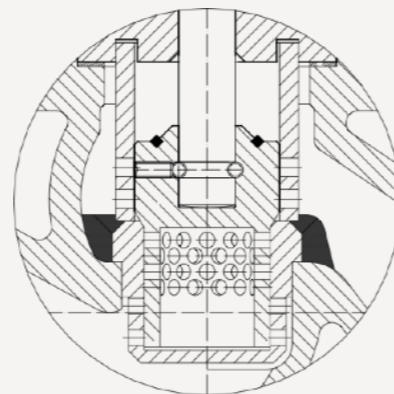
2 Stage design
with Parabolic Plug
and Anti-Cavitation Cage



2 Stage design
with Perforated Plug
and Silencer



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



Control Valves acc. to EN 1349 / EN 60534

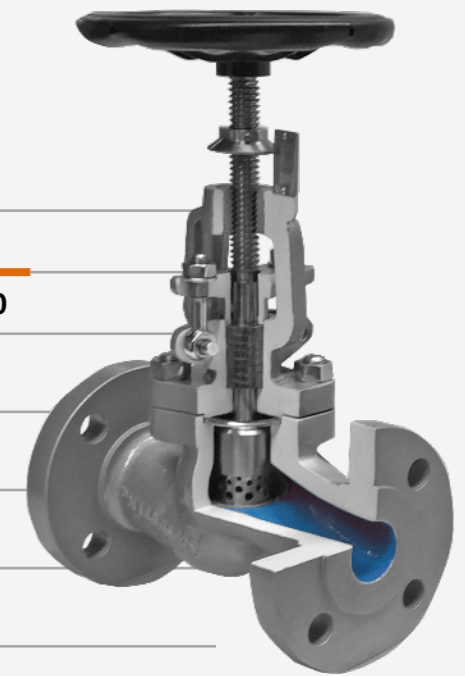
BASIC FEATURES

	Forgings		Castings		
	EN	GOST	EN	GOST	
Materials	Carbon Steels	1.0460	20	1.0619	20Л
	Low Temperature Carbon Steel	1.0565	09Г2С	1.1131	20ГЛ
	Low Temperature Alloy Steel			1.6220	20ГМЛ
	Low Alloy Steel	1.5415	15М	1.5419	
	Heat Resistant Alloy Steels	1.7335, 1.7383, 1.7366, 1.4903	15ХМ, 10Х2М, 15Х5М, 10Х9МФБ	1.7357, 1.7379, 1.7365, 1.4955	20ХМЛ, 20Х2М1Л, 20Х5МЛ
	Stainless Steel	1.4301/1.4307, 1.4401/1.4404, 1.4541, 1.4550, 1.4571	08Х18Н10/03Х18Н11, 08Х16Н11М3/03Х17Н14М3, 08Х18Н10Т, 10Х17Н13М2Т	1.4308, 1.4552, 1.4408, 1.4581	07Х18Н9Л, 12Х18Н9ТЛ, 12Х18Н12М3ТЛ
Pressures-temperatures ratings:	EN 12516-1				
Installation lengths:	EN 558-1 and EN 12982				
Flange type and size conform to standard:	EN 1092-1				
Butt Welding Ends (BW) type and size conform to standard:	EN 12627				
Inspection and Testing conform to Standard:	ANSI/FCI 70-2, EN 12266, and EN 60534				

Control Valves acc. to EN 1349 / EN 60534

Type: VENR

Material type	Forged Materials							Casted Materials									
	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
Nominal Pressure	PN 40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 63	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 160	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PN 250	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



Control Valves acc. to BS/ANSI

BASIC FEATURES

Casted Materials

Materials	Carbon Steels	WCB
	Low Temperature Carbon Steel	LC1, LCB, LCC
	Low Temperature Alloy Steel	LC2
	Low Alloy Steel	WC1
	Heat Resistant Alloy Steels	WC6, WC9, C5, C12, C12A
	Stainless Steel	CF8, CF8M, CF8C
Pressures-temperatures ratings:		ASME B16.34
Installation lengths:		ANSI B16.10
Flange type and size conform to standard:		ANSI B16.5
Butt Welding Ends (BW) type and size conform to standard:		ANSI B16.25
Inspection and Testing conform to Standard:		ANSI/FCI 70-2

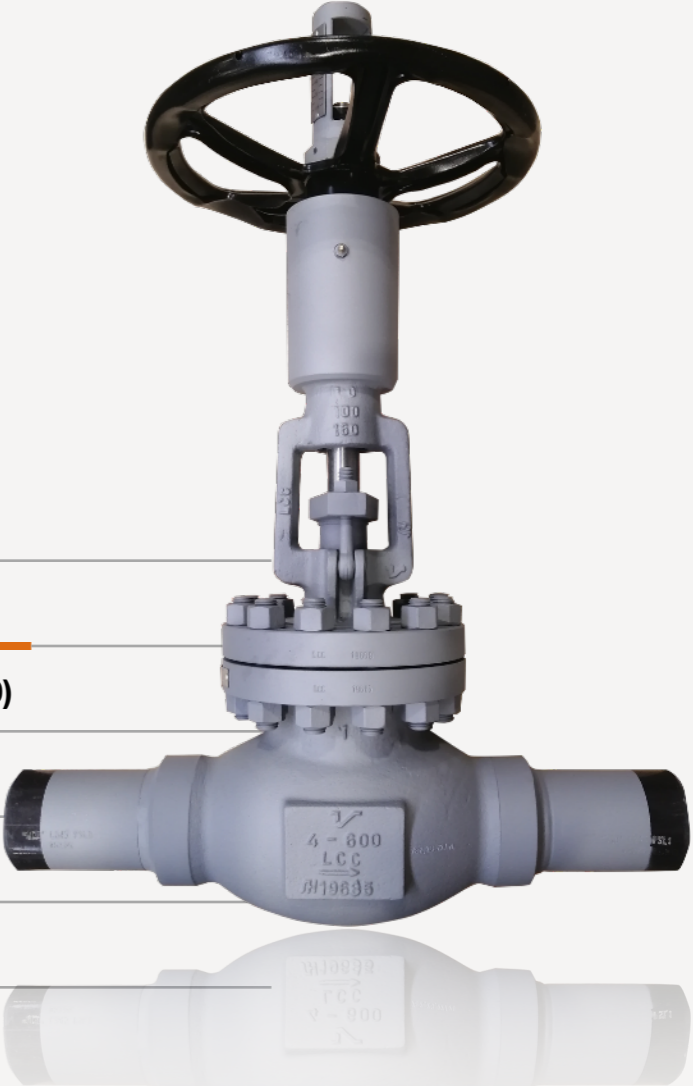
Control Valves acc. to BS/ANSI

Type: VBR

Material type:

Casted Materials

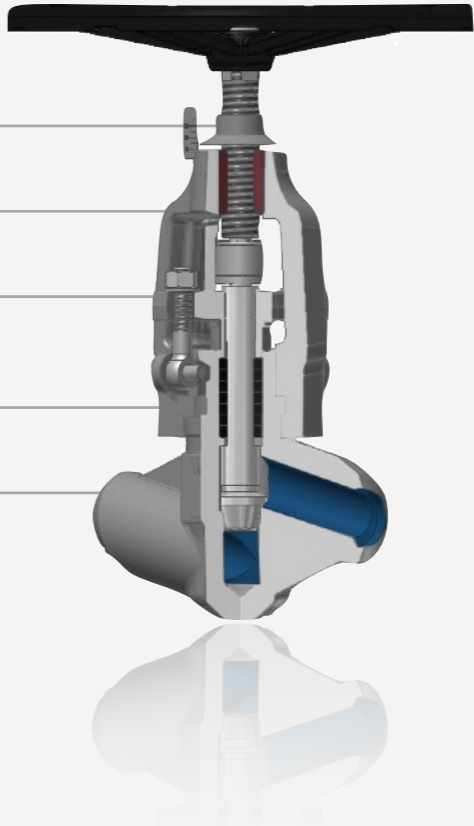
NPS (DN)	2" (50)	2 1/2"(65)	3"(80)	4"(100)	6"(150)	8"(200)	10"(250)	12"(300)	14"(350)	16"(400)
Class 150	•	•	•	•	•	•	•	•		
Class 300	•	•	•	•	•	•	•	•	•	•
Class 600	•	•	•	•	•	•	•			
Class 900	•	•	•	•	•	•				



High Pressure Control Valve

High Pressure Control Valve

Type	VHPR
DN (NPS)	10 (3/8") ÷ 200 (8")
Rating	PN 250 ÷ 500 CI 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



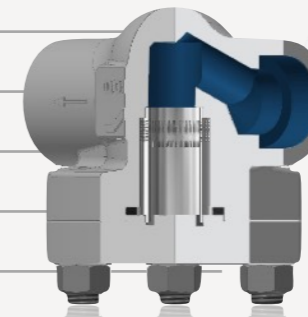
Other materials acc. to EN or ASTM Standards



Forged Gate/Globe/Check Valves and Strainers according to API 602 Standard

BASIC FEATURES

Valve type	Gate Valves	GAF
	Globe Valve	VAP
	Control Valve	VAPR
	Lift Type Check Valves	CAPL
	Swing Type Check Valves	CAPS
	Strainers	SAP
Dimensions:		NPS(DN) 3/8"(10) ÷ 2" (50)
Pressure Class:		Class 150 ÷ Class 1500
Materials	Carbon Steels	A105
	Low Temperature Carbon Steel	LF2
	Low Alloy Steel	F1
	Heat Resistant Alloy Steels	F12Cl.2, F22 Cl.3, F5, F9, F91
	Stainless Steel	F304/304L, F316/316L, F316H, F316Ti, F321/321H, F347/347H
Pressures-temperatures ratings:		API 602 and ASME B16.34
Installation lengths:		ANSI B16.10 and Standard Mnf.
Flange type and size conform to standard:		ANSI B16.5
Socket Welding Ends (SW) type and size conform to standard:		ANSI B16.11
Butt Welding Ends (BW) type and size conform to standard:		ANSI B16.25
Threaded Ends (NPT) type and size conform to standard:		ANSI B1.20.1



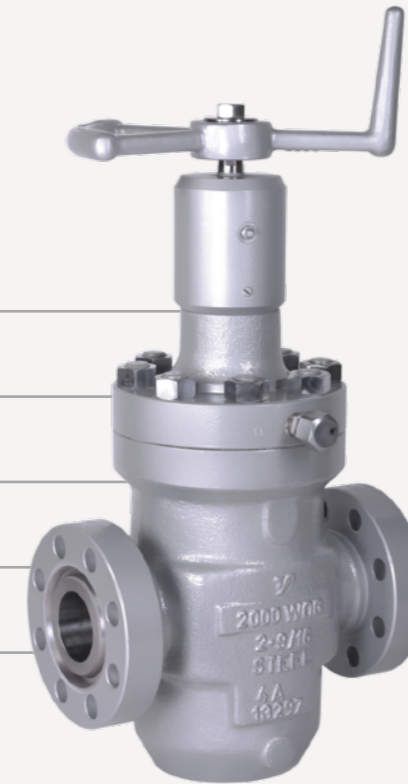
Oil & Gas Exploitation Products

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 (NPS)	50 (2") ÷ 150 (6")
Rating	Cl 600 ÷ 1500

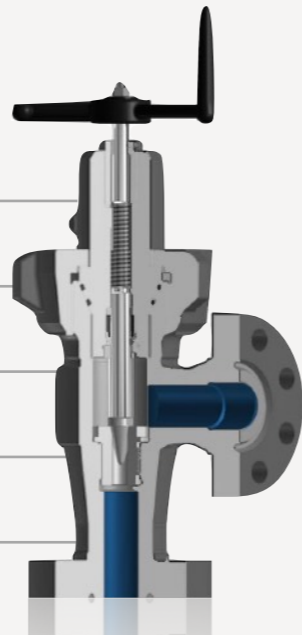
Standard Materials

WCB, LCB, LC1, LC2, CA15, CF8, CF8M



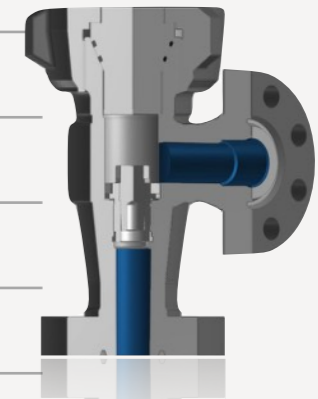
Adjustable Choke API 6A

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



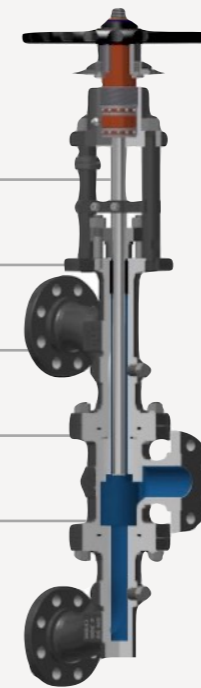
Positive Choke API 6A

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



Change Over Valve

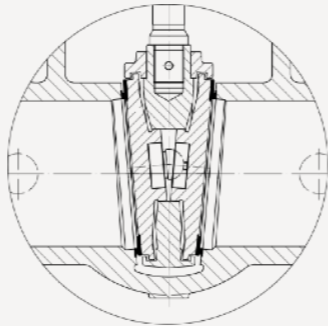
Type	COV
DN (NPS)	50 (2") ÷ 200 (8")
Rating	CI 150 ÷ 900
Standard Materials	
WCB, LCB, LCC, CF8, CF8M	



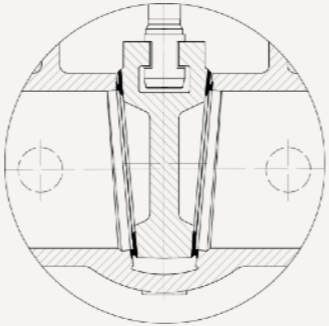
Other materials acc. to EN or ASTM Standards



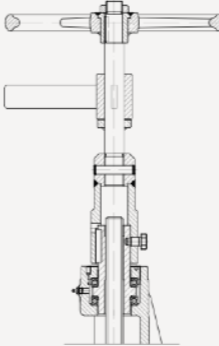
Optional Execution Gate Valves Globe Valves



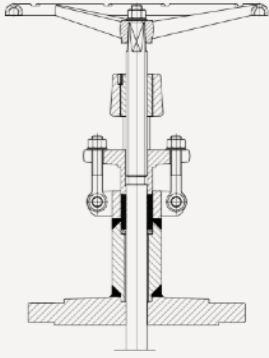
2 piece split wedge



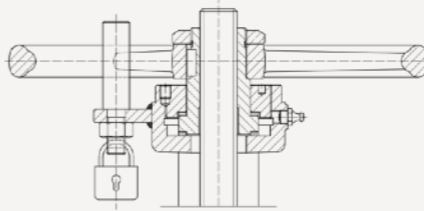
Solid wedge



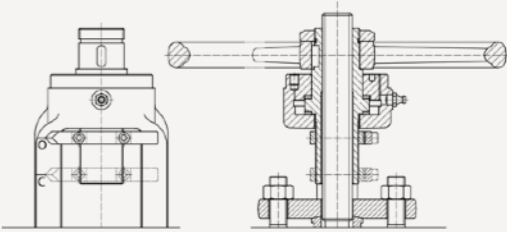
Extended stem



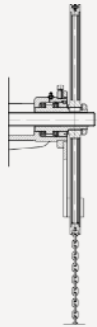
Extended bonnet



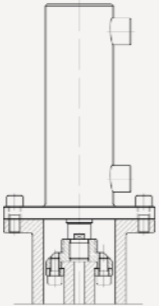
Locking device



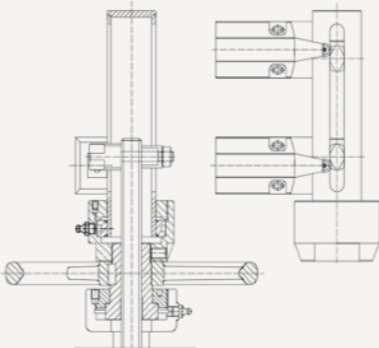
Position indicator



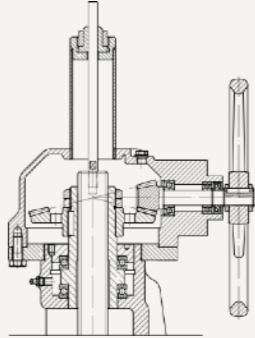
Chain operated



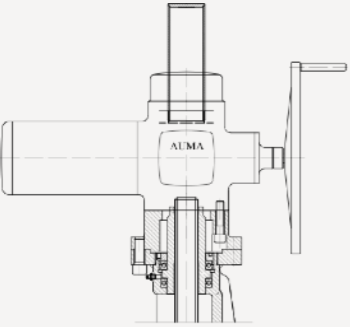
Hydraulic actuator



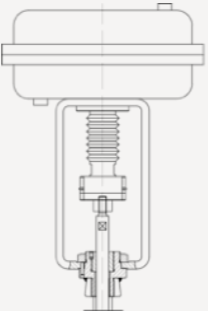
Limit switches



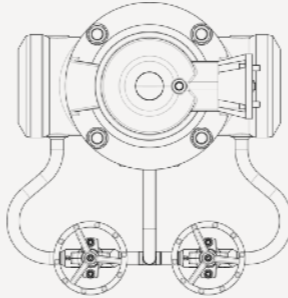
Gear operated



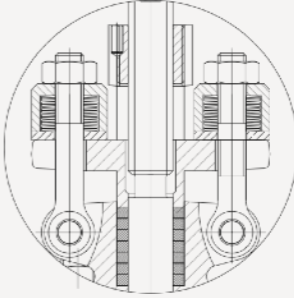
Electric actuator



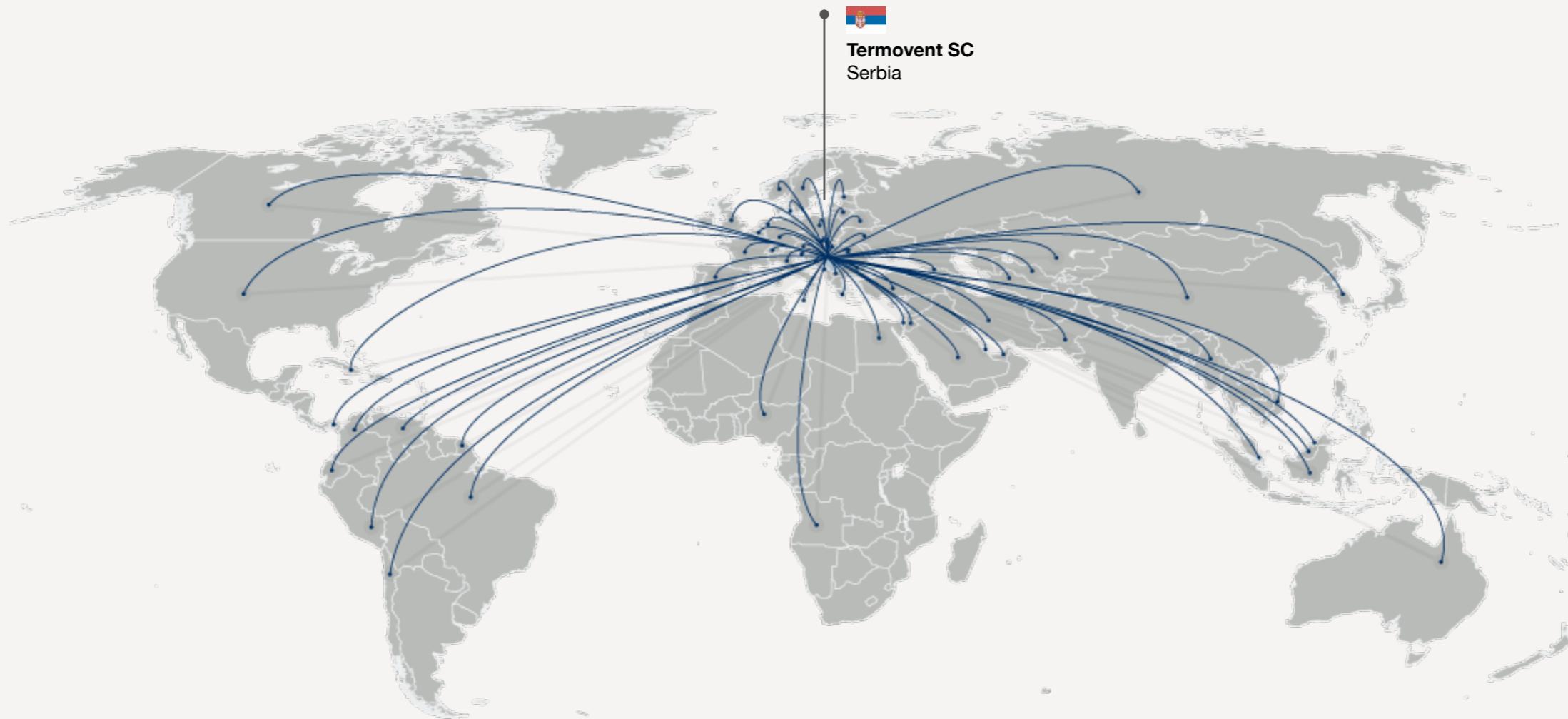
Pneumatic actuator



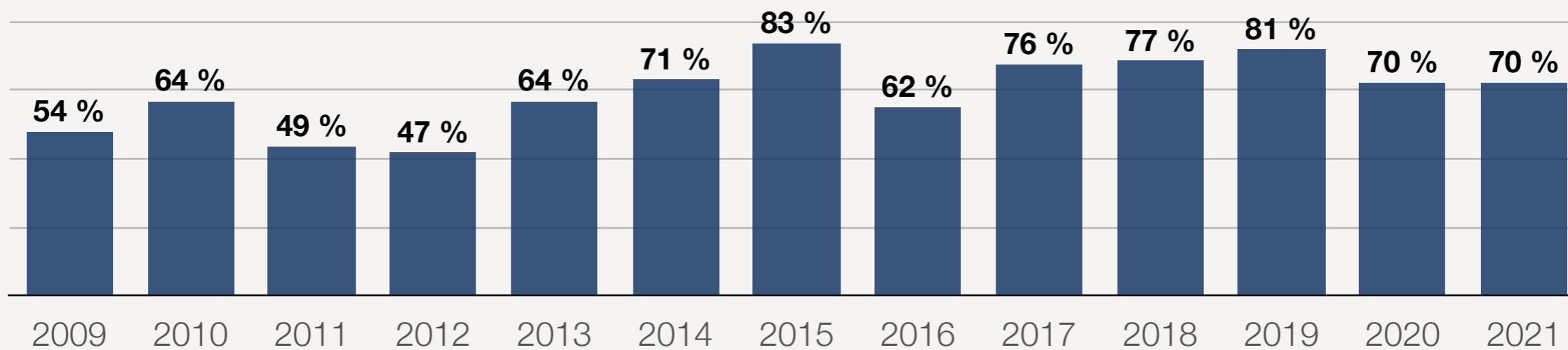
Overpressure safety device



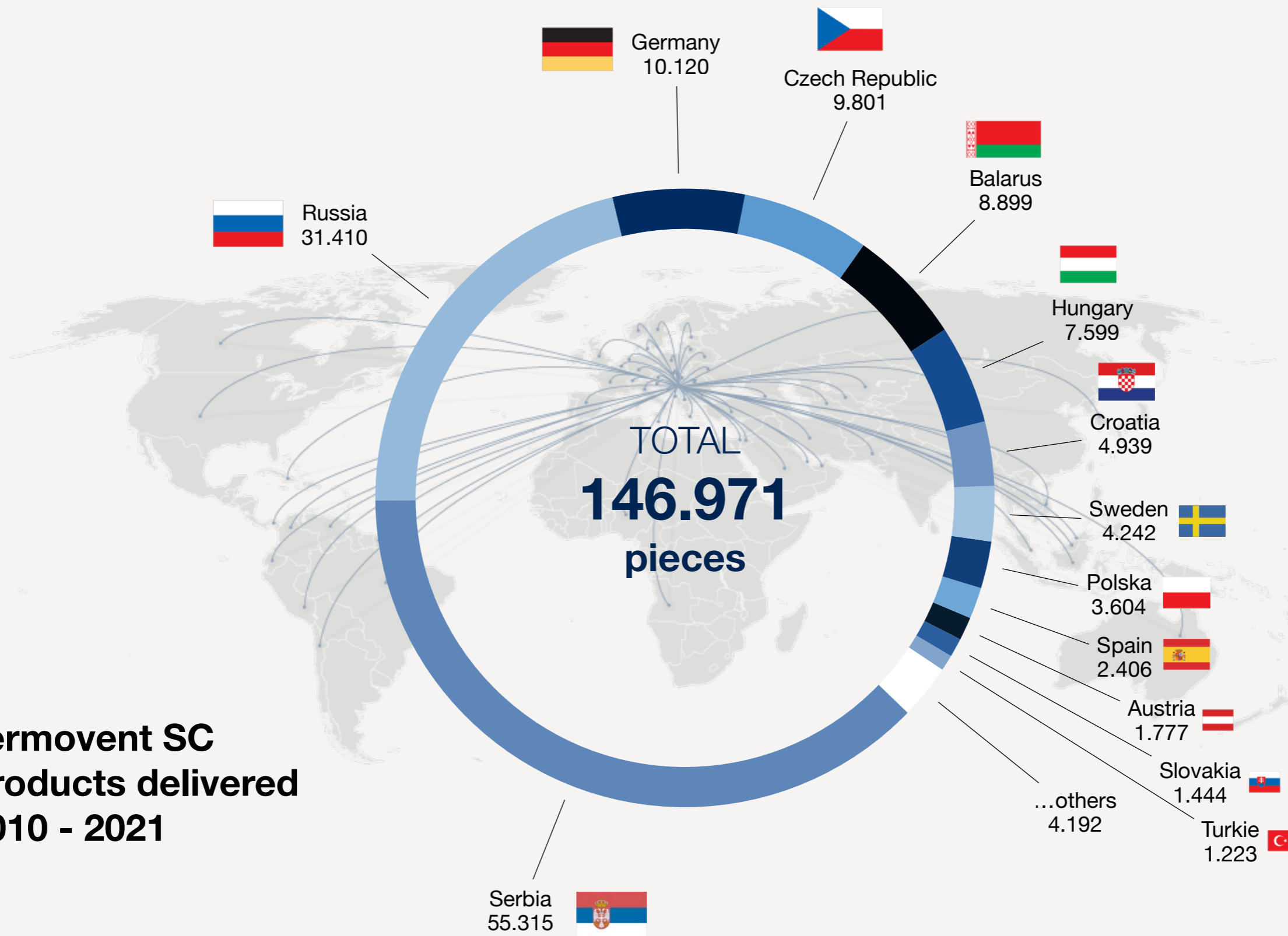
Spring loaded stuffing box



Tervovent SC - Export by the years (in %)



Termovent SC Products delivered 2010 - 2021

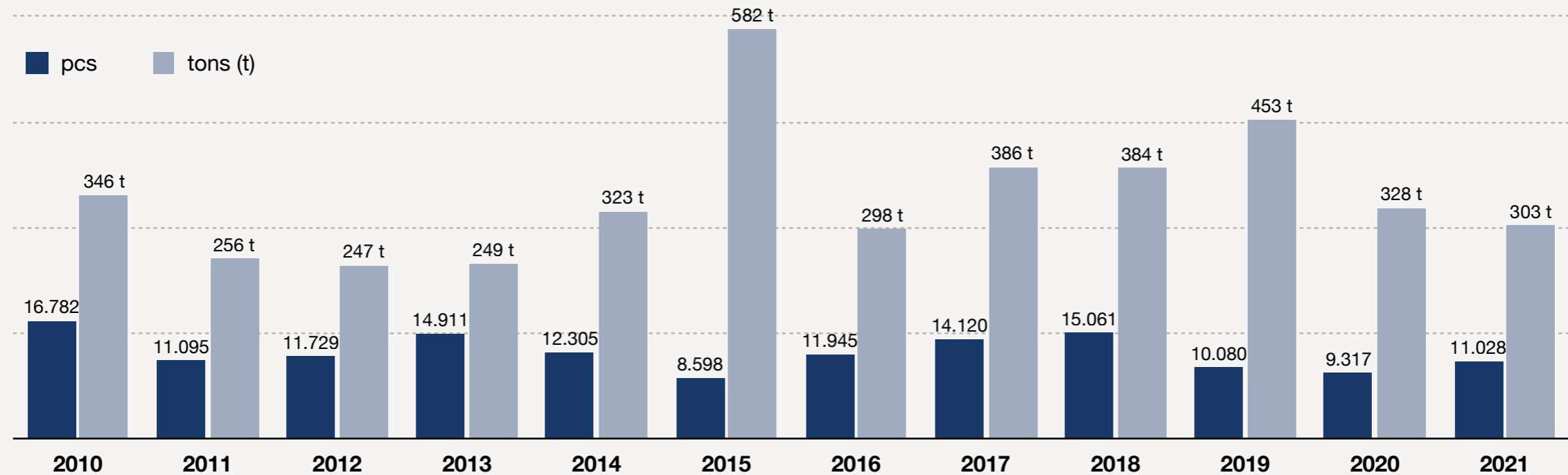


TERMOVENT SC products are installed and functioning at the many plants of 65 countries worldwide.

- | | | | | |
|---------------|-------------|----------------------|--------------|-------------|
| CANADA | SWEDEN | AUSTRIA | ISRAEL | RUSSIA |
| USA | ESTONIA | SLOVENIA | TURKEY | CHINA |
| CUBA | LITHUANIA | CZECH REPUBLIC | UKRAINE | THAILAND |
| FRENCH GUIANA | POLAND | SLOVAKIA | IRAN | SINGAPORE |
| PERU | SPAIN | HUNGARY | GEORGIA | SOUTH KOREA |
| VENEZUELA | NETHERLANDS | ROMANIA | BELORUS | BRUNEI |
| ECUADOR | BELGIUM | CROATIA | TURKMENISTAN | MALAYSIA |
| COLOMBIA | GERMANY | BOSNIA & HERZEGOVINA | KAZAKHSTAN | INDONESIA |
| PANAMA | FRANCE | BULGARIA | UZBEKISTAN | VIETNAM |
| CHILE | SWITZERLAND | NORTH MACEDONIA | PAKISTAN | AUSTRALIA |
| BRAZIL | ITALY | MONTENEGRO | SAUDI ARABIA | |
| GREAT BRITAIN | MALTA | GREECE | JORDAN | |
| NORWAY | NIGERIA | EGYPT | UAE | |
| DENMARK | ANGOLA | | QATAR | |

Termovent SC - Products delivered by the years (in pieces & tons)

TOTAL: 4.155 tons



Europe and Russia

Austria

Voestalpine Stahl Linz

Belgium

MRC Global
Borealis Kallo

Bulgaria

Bulgartransgaz
Lukoil

Croatia

Đuro Đaković - Glina 1 i 2,
St. Gradiška, Di Slavonija
Đakovo, Slatina, Županja

Czech Republic

Precheza – Prerov
SES Tlmače-Synthesia
Planá nad Lužnicí Power
Plant
Horní Planá
Unipetrol

Denmark

DOOSAN - BIO4-Hofor

Germany

Mainz - Wiesbaden Gas
Power Plant
DOOSAN - LICHTERFELDE
Power Plant
TOTAL Refinery

Hungary

MOL OIL Refinery
JSR MOL, Synthetic rubber
plant
MOL Petrolkémia (TVK)
BORSODCHEM

Italy

Macchiareddu Renewable
Energy Complex, Calgiari

Poland

DOOSAN - Olsztyn - EfW
Plant
DOOSAN - Zeran
Opole Power Plant
PKN Orlen
Lotos
Grupa Azoty
Tauron
Anwil

Serbia

Turkstream Bulgaria-
Hungary interconnection
NIS-GAZPROM NEFT
CB&I Construction of Deep
Conversion Complex in
Pančevo Oil Refinery

Slovakia

Slovnaft

Spain

ANDASOL 3 - Solar Power
Plant
REPSOL
TAMOIN
SABIC
DOOSAN - Huelva
DOOSAN - Curtis
DOOSAN - Cubillos

Sweden

DOOSAN - Lund
SIEMENS - Brista and
Jönköping

Turkey

SIEMENS - Hatay
TETA KAZAN-Projects
Acersoy & SATEM, Biomass
PP

Ukraine

Metinvest / Zaporizhstal

France

DOOSAN Pierrefonds –
EfW Plant, La Réunion/
France
Hitachi - Ivry II EfW plant

United Kingdom

Hitachi - Rookery EfW plant
DOOSAN Lostock - EfW
Plant
DOOSAN NESS Aberdeen -
EfW Plant
DOOSAN Protos - EfW
Plant
Hitachi - Ferrybridge EfW
plant
DOOSAN - TeesREP
SIEMENS - Sleaford

Russian Federation

Gazprom
Rosneft
Antipinsky Refinery
NLMK
Rusal
EuroChem
PhosAgro
Metafrax
TER-Teploenergoremont
Mosenergo
TAIF-NK Nizhnekamsk

Belarus

Grodno Azot
Mozyr
Naftan



Americas

Canada

SIEMENS - Biomass power plants in fort St. James and Merritt

SIEMENS - Canfor

Colombia

DOOSAN - Termotasajero II

Chile

DOOSAN - Combined-cycle power plant Kelar

Cuba

DOOSAN - Boca de Jaruco, Condensation Steam Turbine

French Guiana

Montsinéry-Tonnégrande French Guiana, Solar Power Plant

Panama

DOOSAN - Paco Panama

Peru

DOOSAN - Tecnicas Reunidas - Talara I & II

USA

DOOSAN - Lansing, Michigan

Africa and Middle East

Egypt

ENPPI

Abou Zaabal Fertilizers and Chemicals

Al Nouran Sugar project, Al Salhiya Al Jadida

Israel

DOOSAN SOREK – Sea water desalination plant „B“

IEC-Hagit, Ramat & Eshkol

DOOSAN - Mishor

DOOSAN - SOREK

Jordan

DOOSAN - Zarqa

Nigeria

DOOSAN - Okpai

Saudi Arabia

DOOSAN - Fadhili

UAE

Hassyan Clean Coal

Power Plant, Dubai

ADNOC - TAKREER

Refinery

Qatar

Qatar Petrochemical Company (QAPCO) QSC

Asia and Oceania

Brunei

ThyssenKrupp IS -

Fertilizer plant

China

Gulei Petrochemical

Complex

Indonesia

DOOSAN - Grati

DOOSAN - Muara Tawar

LOMBOK - Power Plant

Japan

DOOSAN - Sodegaura

Kazakhstan

CJSC Caspian Pipeline Consortium

Pavlodar Oil Chemistry

Refinery

SIEMENS - Chinarevskoe

Oil Field

Malaysia

Petronas

Pakistan

DOOSAN - Balloka and

Muridke

K-Electric

South Korea

SIEMENS - Dang Jin Bio Mass

DOOSAN - Namjeju OTHP

Taiwan

ThyssenKrupp Uhde - Dragon Steel, CO Plant

Thailand

Siemens BCC2 Project

Uzbekistan

CASALE Navoyazot

NITRIC ACID PLANT



EPC

DOOSAN Škoda Power, Czech Republic
Hitachi Switzerland
McDermott, USA, Czech Republic
Siemens, Czech Republic
ThyssenKrupp Industrial Solution, Germany
ENPPI, Egypt
CASALE, Switzerland
UNIS, Czech Republic
Rafako, Poland

EfW

Ferrybridge UK - England
Rookery UK - England
Lostock UK - England
Protos UK - England
NESS Aberdeen UK - Scotland
Ivry II France
Pierrefonds, La Reunion, France
Tamoin, Spain
Olstyn, Poland

BioMass / Solar / Wind / Renewable

TETA Kazan-Acersoy&SATEM BioMass PP, Turkey
Curtis BioMass PP, Spain
Cubillos BioMass PP, Spain
Huelva BioMass PP, Spain
Lund BioMass PP, Sweden
Karlovac BioMass, Croatia
Gospić BioMass, Croatia
Brinje BioMass, Croatia
Montsinery-Tonnegrade BioMass, French Guiana
St. James and Merritt BioMass PP, Canada
Sodegaura BioMass PP, Japan
Dang Jin BioMass PP, S.Korea
Anda Sol II Solar PP, Spain
Hatay Wind PP, Turkiye
TeesREP, Renewable Energy Plant, UK
Sleaford, Renewable Energy Plant, UK
Macchiarreddu Renewable Energy Complex, Italy

Iron & Steel Industry / Mine

HBIS, Serbia
Zijin Copper, Serbia
Arcelor Mittal, Bosnia and Hercegovina
Voestalpine Stahl Linz
NLMK, Russia
Rusal, Russia
Metinvest/Zaporizhstal, Ukraine
Aluminium Oxid Stade, Germany
Arcelor Mittal, Poland
ZK-REM, Koksownia Jadwiga, Poland

Oil & Gas

NIS a.d. - Gazpromneft, Serbia
Srbijagas, Serbia
Turkstream Bulgarian - Hungarian interconnection, Serbia
MOL, Hungary
ORLEN, Poland
Lotos, Poland
Slovnaft, Slovakia
UNIPETROL, Czech Republic
Repsol, Spain
TOTAL, Germany
PCK Refiner,y Germany
OMV, Austria
Lukoil, Bulgaria
Bulgartransgaz, Bulgaria
Mozyr, Belarus
Naftan, Belarus
Lukoil, Russia
Rosnaft, Russia
Antipinski Refinery, Russia
Achinsk Refinery, Russia
Angarsk Petrochemical Refinery, Russia
Komsomolsk Refinery, Russia
Kuibyshev Oil Refinery, Russia
Novokuibyshevsk Refinery, Russia
Syzran Refinery, Russia
OAO SLAVNEFT-YANOS, Russia
VPK OIL - KOCHENEVSKIY REFINERY, Russia
TAIF NK, Russia
CJSC Caspian Pipeline Consortium, Kazakhstan
Pavlodar Oil Chemistry Refinery, Kazakhstan
SIEMENS - Chinarevskoe Oil Field, Kazakhstan
Petroperu
ADNOC, UAE
Petronas, Malaysia
QAPCO, Qatar

ThermoEnegetics

TPP Nikola Tesla, Serbia
Mainz Wiesbaden Gas PP, Germany
Lichterfelde PP, Germany
SES Tlmače, Czech Republic
Planá nad Lužnicí HPP, Czech Republic
Žeran CCPP Plant, Poland
Opole PP, Poland
Tauron, Poland
TAMEH The Blachownia Generation Plant, Poland
PGE Bełchatów
Legnica Power Station
BIO4-HOFOR CHP Plant, Denmark
Jönköping, Sweden
Brista, Sweden
HEP, Croatia
CE Oltenia, Romania
TPP - TEC 22, Russia
Mosenergo, Russia
TeploEnergoRemont, Russia
Mishor Gas PP, Israel
Zarqa CHP Plant, Jordan
Fadili, CHP Plant, KSA
Hasyan Clean Coal PP, UAE
Lansing Gas PP, USA
Paco Panama PP, Panama
Termotasajero II, Columbia
Kelar CCPP, Chile
Boca de Jaruco Condensation Steam Turbine, Cuba
Muara Tawar CCPP Plant, Indonesia
Lombok PP, Indonesia
Grati, Gas PP, Indonesia
Namjeju Oil Thermal PP, S. Korea

Chemical & Petrochemical

Methanol Acid Plant Kikinda, Serbia
MOL Petrolkémia (TVK), HUNGARY
JSR MOL, Synthetic rubber plant, HUNGARY
BORSODCHEM, HUNGARY
SABIC Spain
BASF Spain
Borealis Kallo, Belgium
Grupa Azoty, Poland
Anwil, Poland
PRECHEZA a.s., Přerov, Czech Republic
EuroChem, NAK Azot, Tula, Russia
EuroChem, Nevinomyssk Azot, Russia
Acron, Velikiy Novgorod, Russia
URALCHEM, Voskresensk Mineral Fertilizers, Russia
PhosAgro, Russia
METAFRAX, Gubaha, Russia
GrodnoAzot, Belarus
Novoyazot Nitric Acid Plant, Uzbekistan
Brunei Fertilizer Plant, Brunei
Abou Zaabal Fertilizersand Chemicals, Egypt





CASALE – Navoiyazot plant Uzbekistan



Bulgartransgaz, Bulgaria



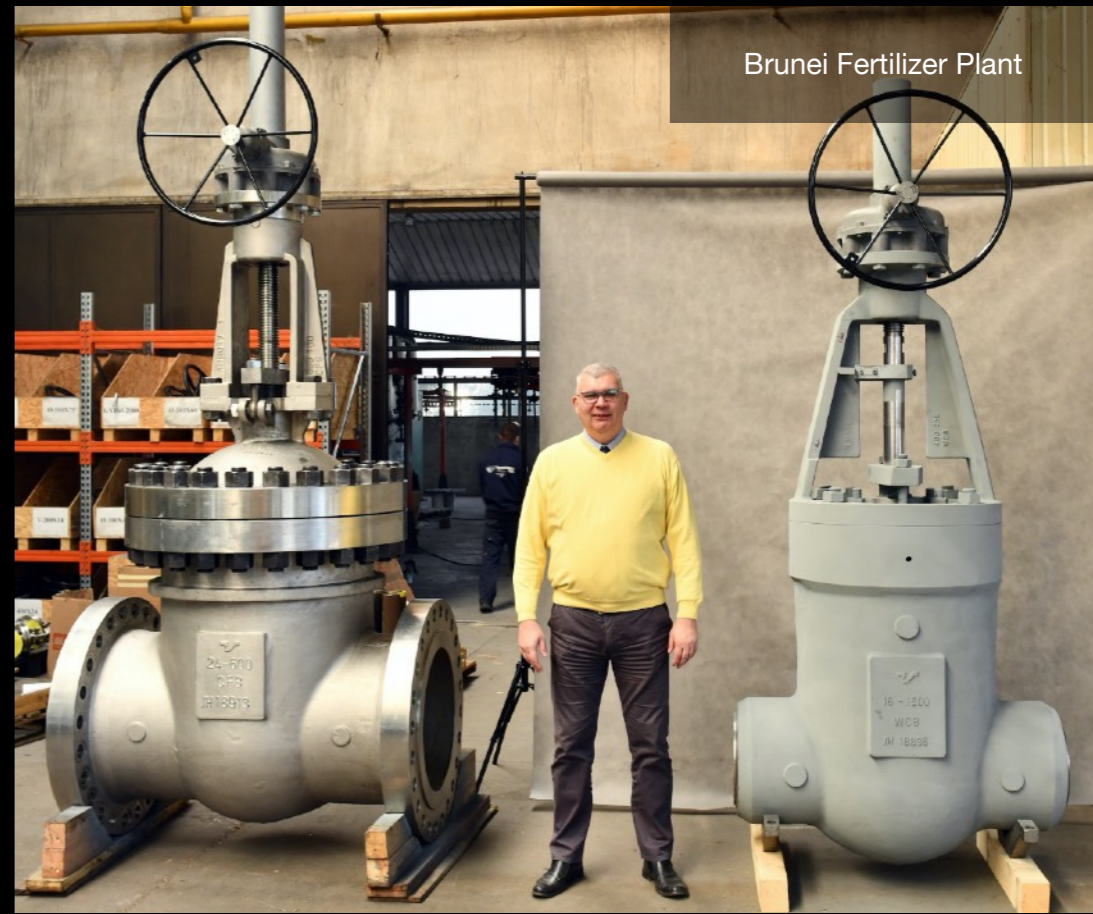
TAIF NK Refinery Nizhnekamsk, Russia







Gulei Project China



Brunei Fertilizer Plant



Hitachi - EfW Ivry II Paris, France



UNIS - NAFTAN, Belarus



Transnafta, Serbia





BorsodChem Hungary



Cold Box Bell - MSK - Methanol and Acetic Acid Complex, Serbia



HBIS Serbia - Iron works



5. 8. 2021. 13:19



Thank You!



termoventsc.rs / E-mail: office@termoventsc.rs / Termovent SC, Serbia 2022