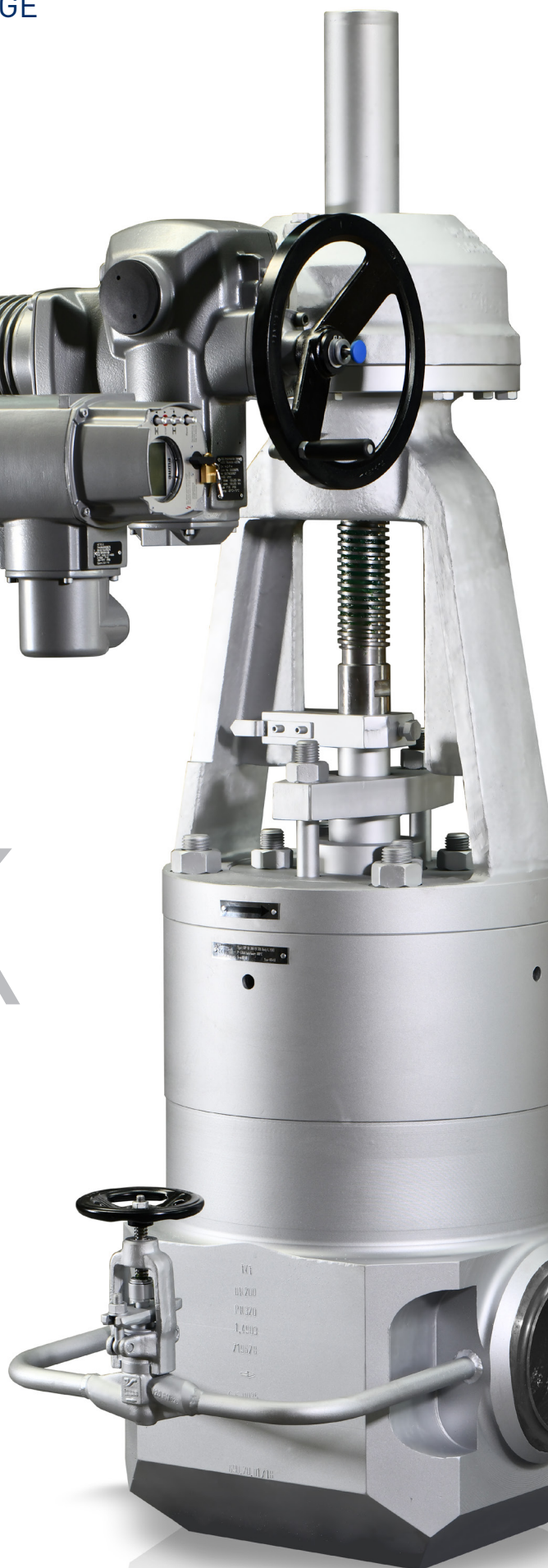


COMPANY PORTRAIT & PRODUCTION RANGE

GATE GLOBE CHECK


TERMOVENT SC SERBIA // INDUSTRIAL VALVES



TERMOVENT
since 1963 **SC**

Let Us Introduce **Termovent SC**

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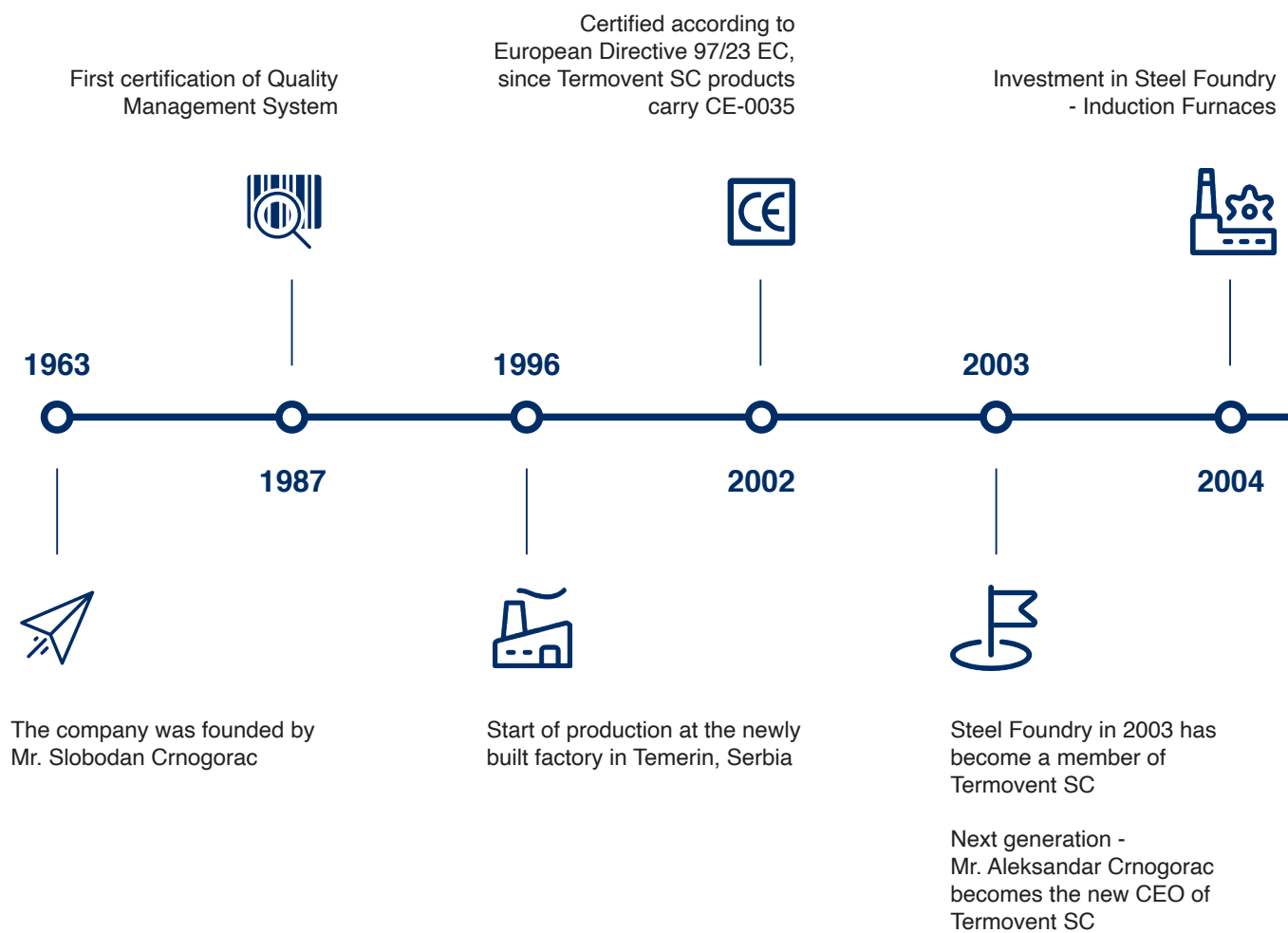


Our Story

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 60 years of presence.

Termovent SC Timeline



Investment in Steel Foundry
- Alfaset process
moulding technology

50 Years Anniversary



Investment in Termovent SC
5-axis CNC Machining Center /
GT Trevisan DS 300

Investment in Steel Foundry
- Dust Collection System



2010

2016

2021

2013

2019



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

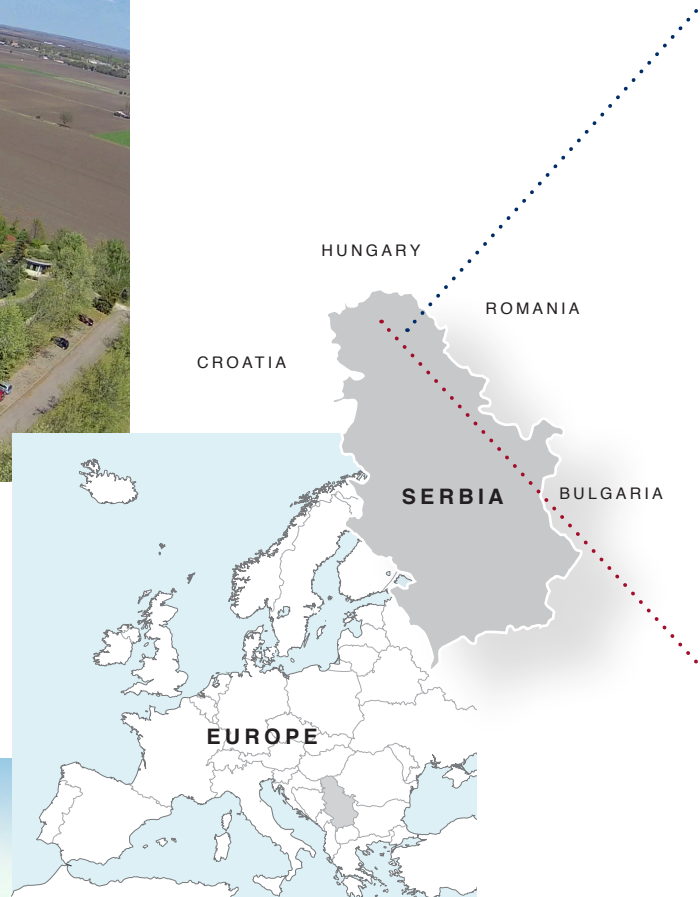
Investment in Termovent SC
5-axis CNC Machining Center /
GT Trevisan DS 600

Investment in Termovent SC
- HVAC system
in production facility

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



140
EMPLOYEES



9.000 m²
OF PRODUCTION SPACE

Production of
INDUSTRIAL VALVES

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.



Steel Foundry



175
EMPLOYEES



8.500 m²
OF PRODUCTION SPACE

Production of
STEEL CASTINGS

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.





Valves 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.



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.

- 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



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



Measuring & 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.

- 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



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:

Valve Plant

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



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



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



Steel Foundry

-
- ISO 9001:2015
 - ISO 14001:2015
 - ISO 45001:2018
 - AD-2000 Merkblatt W 0 Directive 2014/68/EU



Fields of Application

Valves



Energetics

- Thermal Power Plants
- Hydroelectric Power Plants
- Heating Stations
- Boilers Production
- Energy from Waste Power Plants
- Biomass Power Plants
- Solar, Wind, Renewable Energy Power Plants



Oil & Gas

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



Process Industry

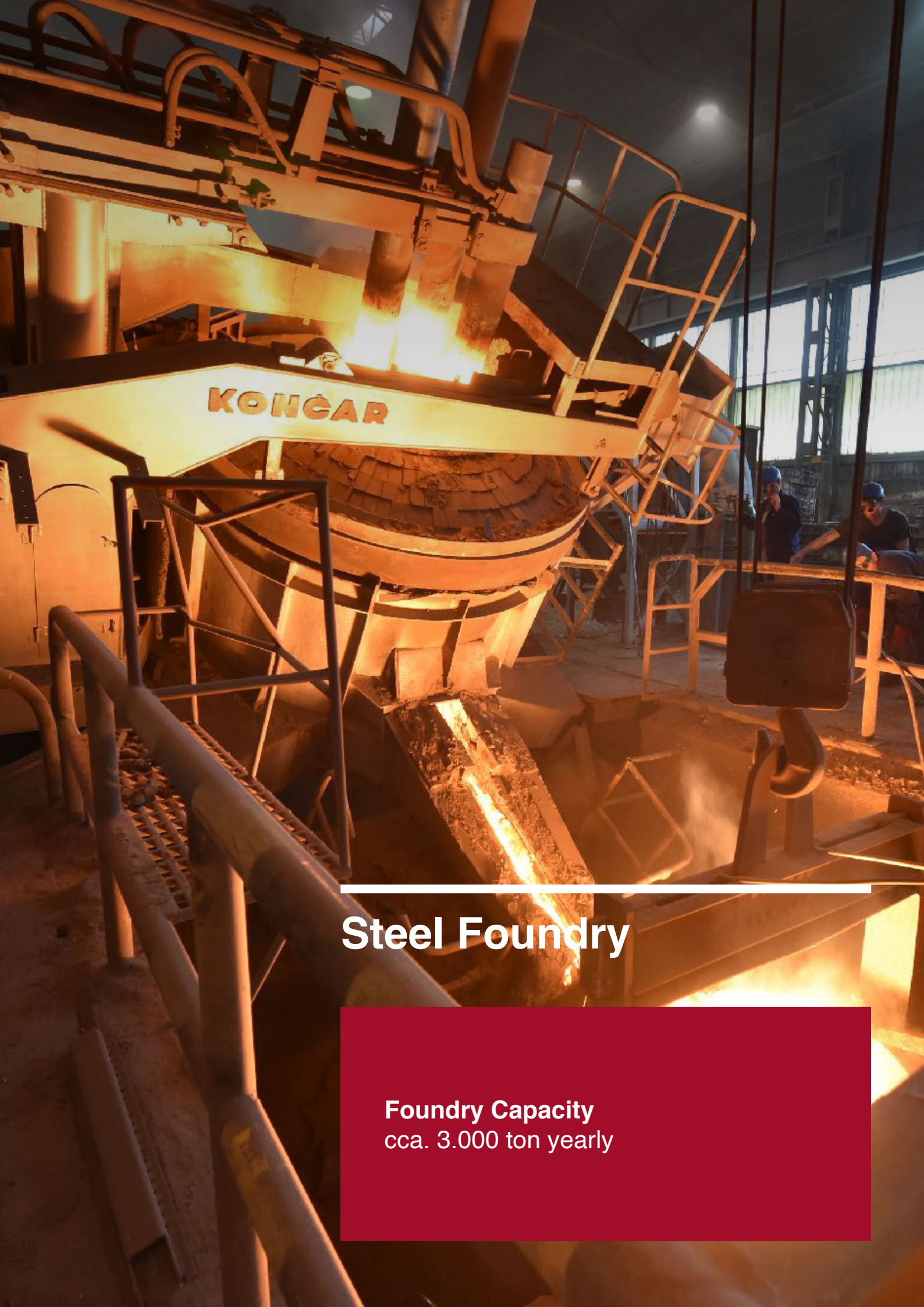
- Ironworks and Mines
- Smeltery
- Cement Industry
- Paper Industry
- Heating and Cooling Systems
- Production of Agricultural Fertilizers
- Sugar Refineries
- Chemical Plants
- Petrochemical Plants

Fields of Application

Castings



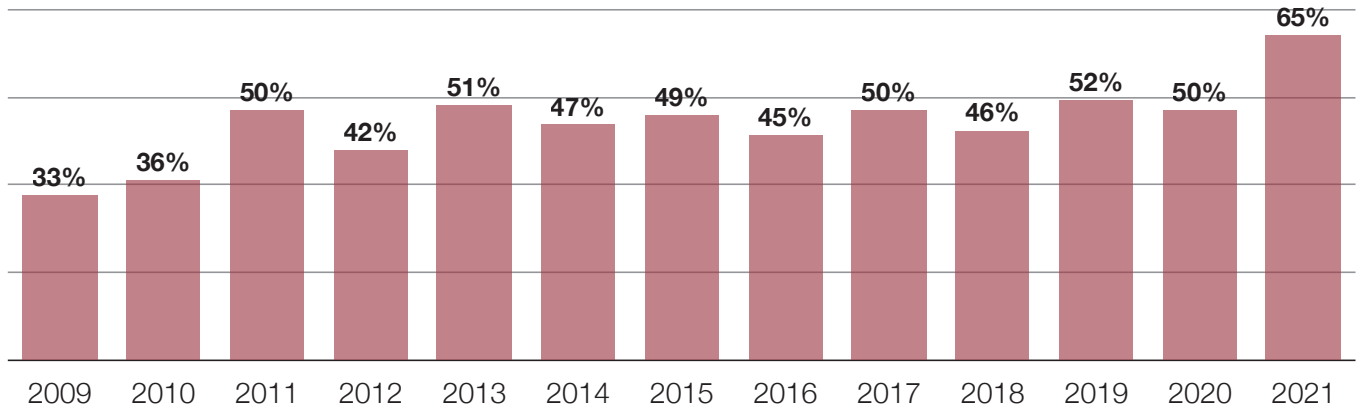
- Thermal Power Plants
- Production of Machines and Tools
- Cement Industry
- Mines and Ironworks
- Construction (Building) Industry
- Railways
- Automotive Industry
- Agricultural Mechanization
- Shipbuilding
- Valves Industry



Steel Foundry

Foundry Capacity
cca. 3.000 ton yearly

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



Materials

Carbon Steels

GE300
GP240GH
WCB
LCB
20L

Stainless Steels

GX5CrNi19-10
GX5CrNiMo19-11-2
GX5CrNiMoNb19-11-2
GX5CrNiNb19 11
GX12Cr12
CF8
CF8M
CF8C
12X18H9TЛ
12X18H12M3TЛ

Heat Resistant Steels

GX40CrNiSi27-4
GX40CrNiSi 25-20
GX130CrSi29

Wear Resistant Steels

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

Production Range

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 Steel	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 Steel	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, 08Х16Н11М3/03Х17Н1 4М3, 08Х18Н10Т, 10Х17Н13М2Т	1.4308, 1.4552, 1.4408, 1.4581	07Х18Н9Л, 12Х18Н9ТЛ, 12Х18Н12М3ТЛ

Pressures-temperatures rating: EN 12516-1

Installation length: EN 558-1 and EN 12982

Flange type and size conform to standard: EN 1092-1 and EN 1759-1

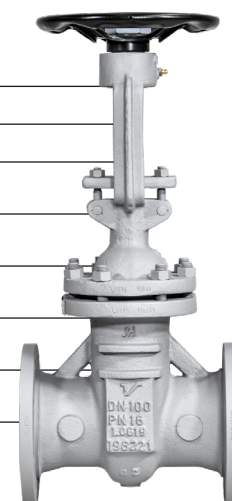
Butt Welding Ends (BW) type and size conform to standard: EN 12627

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

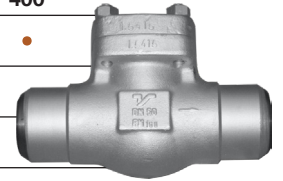
Material type		Forged Materials					Casted Materials											
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	
Nominal Pressure	PN 40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	PN 63	•	•	•	•	•	•	•	•	•	•	•	•	•				
	PN 100	•	•	•	•	•	•	•	•	•	•	•	•	•				
	PN 160	•	•	•	•	•	•	•	•	•	•	•	•	•				
	PN 250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



Lift Type Check Valves acc. to EN 16767

Type: CLEN

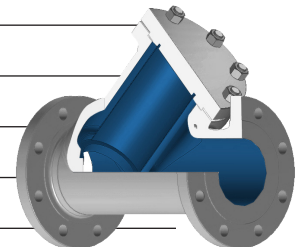
Material type		Forged Materials					Casted Materials											
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	
Nominal Pressure	PN 40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	PN 63	•	•	•	•	•	•	•	•	•	•	•	•	•				
	PN 100	•	•	•	•	•	•	•	•	•	•	•	•	•				
	PN 160	•	•	•	•	•	•	•	•	•	•	•	•	•				
	PN 250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



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

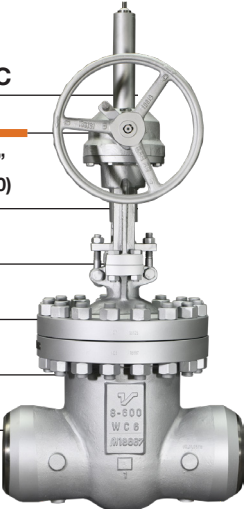
BASIC FEATURES

Materials	Carbon Steel	WCB
	Low Temperature Carbon Steel	LC1, LCB, LCC
	Low Temperature Alloy Steel	LC2
	Low Alloy Steel	WC1
	Heat Resistant Alloy Steel	WC6, WC9, C5, C12, C12A
	Stainless Steel	CF8, CF8M, CF8C
Pressures-temperatures rating:		ASME B16.34
Installation length:		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

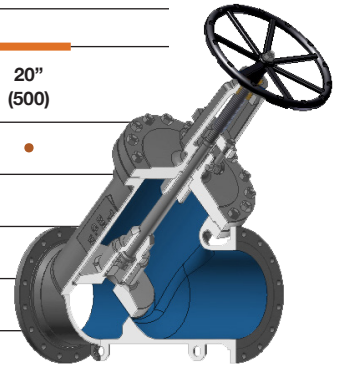
Material type:		Casted Materials									
NPS (DN)	2" (50)	2 1/2" (65)	3" (80)	4" (100)	6" (150)	8" (200)	10" (250)	12" (300)	14" (350)	16" (400)	
Pressure Class	Class 150	•	•	•	•	•	•	•	•	•	
	Class 300	•	•	•	•	•	•	•	•	•	
	Class 600	•	•	•	•	•	•	•	•	•	
	Class 900	•	•	•	•	•	•	•	•	•	



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

Type: VBSY

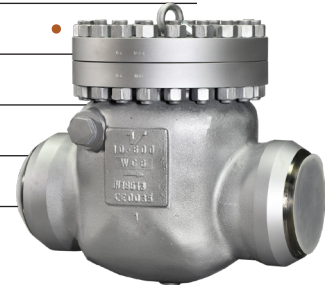
Material type:		Casted Materials											
NPS (DN)	2" (50)	2 1/2" (65)	3" (80)	4" (100)	5" (125)	6" (150)	8" (200)	10" (250)	12" (300)	14" (350)	16" (400)	20" (500)	
Pressure Class	Class 150	•		•	•	•	•	•	•	•	•	•	
	Class 300	•		•	•	•	•	•	•				
	Class 600	•	•	•	•		•	•	•				
	Class 900	•	•	•	•	•	•						
	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)	18" (450)	24" (600)	
Pressure Class	Class 150	•	•	•	•	•	•	•	•	•	•	•	•	
	Class 300	•	•	•	•	•	•	•	•	•	•			
	Class 600	•	•	•	•		•	•	•					
	Class 900	•	•	•	•	•	•	•	•					
	Class 1500	•	•	•	•									



Y type Strainers

Type: SBSY

Material type:		Forged Materials					Casted Materials										
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)
Pressure Class	Class 150	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Class 300	•	•	•	•	•	•	•	•	•	•	•	•				
	Class 600	•	•	•	•	•	•	•	•	•	•	•	•				
	Class 900	•	•	•	•	•	•	•	•	•	•	•	•				
	Class 1500	•	•	•			•	•									



Plug Valves acc. to API 6D/API 599

Type: CPV

Material type:		Forged Materials					Casted Materials								
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)
Pressure Class	Class 150	•	•	•	•	•		•	•	•	•	•	•	•	•
	Class 300	•	•	•	•	•	•	•	•	•	•	•			
	Class 600	•	•	•	•	•					•	•			



High Pressure Globe Valves

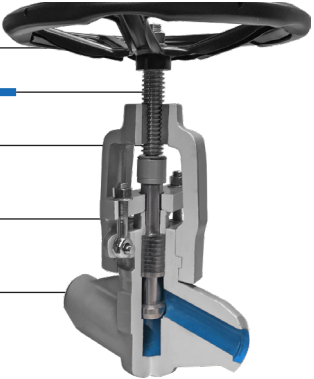
High Pressure Globe Valves acc. to Mnf. Standard
 Pressure Seal Globe Valves acc. to ANSI B16.34

BASIC FEATURES		Forged Steels	Cast Steels
Materials	Carbon Steel	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 Steel	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 rating:		ASME B16.34 or EN 12516	
Installation length:		ANSI B16.10 or EN 558-1 and EN 12982	
Flange type and size conform to standard:		ANSI B16.5 (EN 1759-1) or EN 1092-1	
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

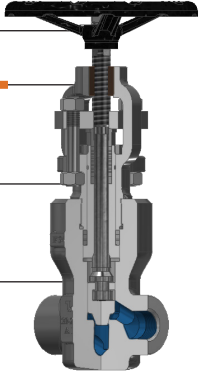
Material type	Forged Materials								
	DN	10	15	20	25	32	40	50	65
Nominal Pressure	PN 250	•	•	•	•	•	•	•	•
	PN 400	•	•	•	•	•	•	•	•
	PN 500	•	•	•	•	•	•	•	•



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

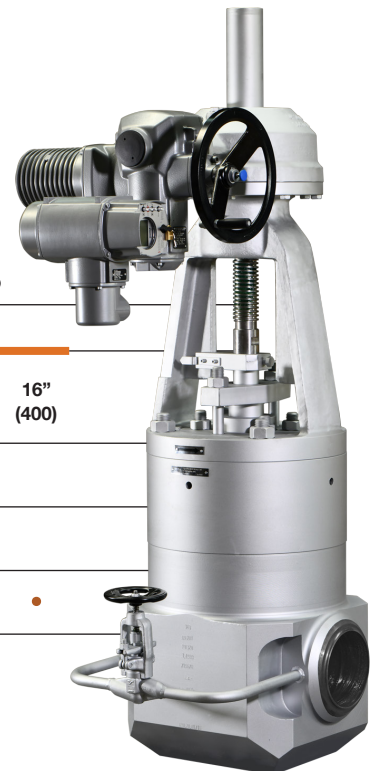
BASIC FEATURES

BASIC FEATURES		Forged Steels	Cast Steels
Materials	Carbon Steel	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 Steel	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 rating:		ASME B16.34 or EN 12516-1	
Installation length:		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

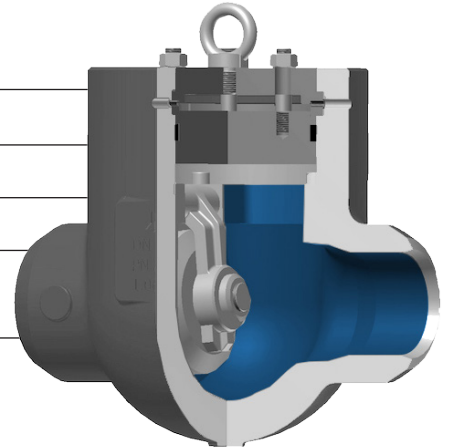
Material type	Forged Materials						Casted Materials							
	NPS (DN)	1/2" (15)	3/4" (20)	1" (25)	2" (50)	2 1/2" (65)	3" (80)	4" (100)	6" (150)	8" (200)	10" (250)	12" (300)	14" (350)	16" (400)
Pressure Class (Nominal Pressure)	Class 600 (PN 100)				•				•	•				
	Class 900 (PN 160)				•	•	•		•	•		•		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



High Pressure Swing Check Valves and Needle Valves

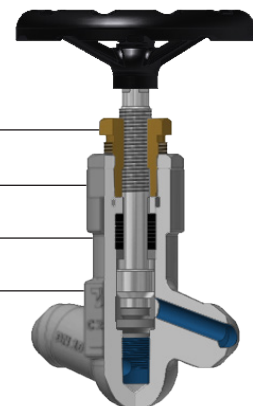
High Pressure Swing Check Valves

Type	CHPS	
DN (NPS)	10 (3/4") ÷ 250 (10")	
Rating	PN 250 (CI 1500) and PN 400 (CI 2500)	
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,



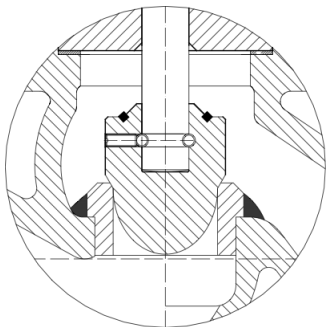
Needle Valves

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

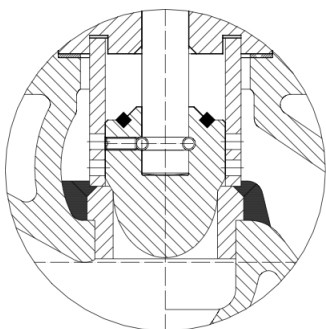


Control Valves

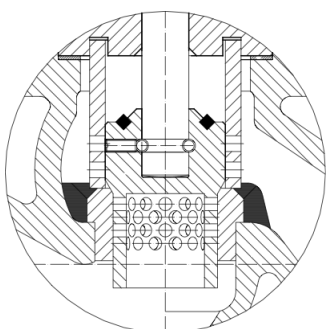
With equal percentage or linear flow characteristic



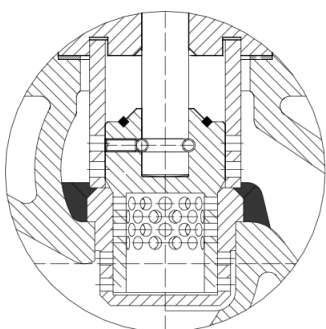
1 Stage design
with Parabolic Plug



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

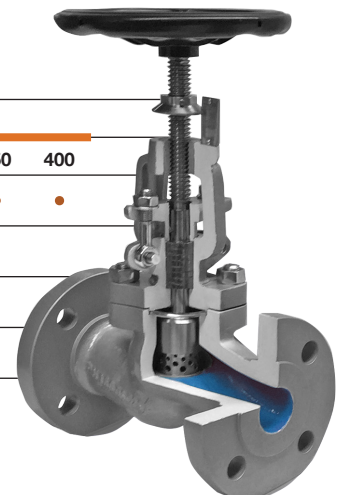
acc. to EN 1349 / EN 60534

BASIC FEATURES		Forgings		Castings	
		EN	GOST	EN	GOST
Materials	Carbon Steel	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 Steel	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 rating:		EN 12516-1			
Installation length:		EN 558-1 and EN 12982			
Flange type and size conform to standard:		EN 1092-1 and EN 1759-1			
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

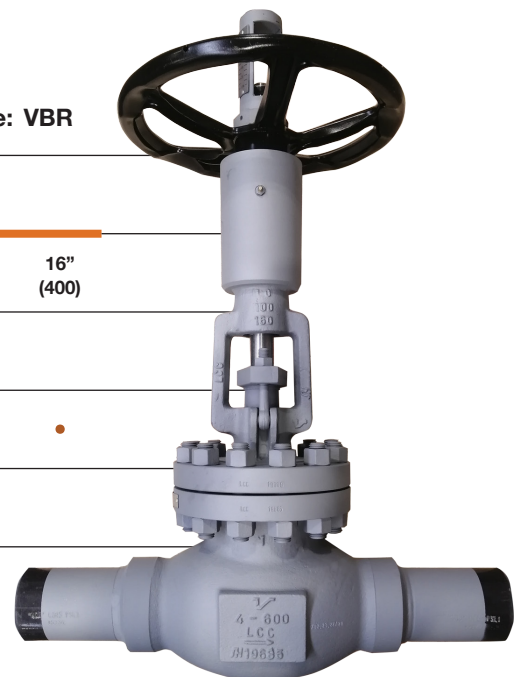
BASIC FEATURES

		Casted Materials
Materials	Carbon Steel	WCB
	Low Temperature Carbon Steel	LC1, LCB, LCC
	Low Temperature Alloy Steel	LC2
	Low Alloy Steel	WC1
	Heat Resistant Alloy Steel	WC6, WC9, C5, C12, C12A
	Stainless Steel	CF8, CF8M, CF8C
Pressures-temperatures rating:		ASME B16.34
Installation length:		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

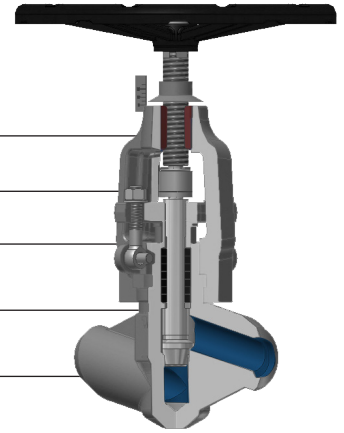
Material type:		Casted Materials									
NPS (DN)	2" (50)	2 1/2" (65)	3" (80)	4" (100)	6" (150)	8" (200)	10" (250)	12" (300)	14" (350)	16" (400)	
Pressure Class	Class 150	•	•	•	•	•	•	•	•	•	
	Class 300	•	•	•	•	•	•	•	•	•	
	Class 600	•	•	•	•	•	•	•			
	Class 900	•	•	•	•	•	•				



High Pressure Control Valves

High Pressure Control Valves

Type	VHPR
DN (NPS)	10 (3/8") ÷ 65 (2 1/2")
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

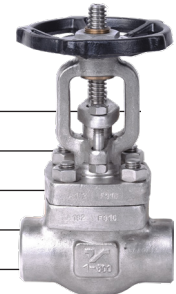


Forged Gate/Globe/Check Valves and Strainers

according to API 602 Standard

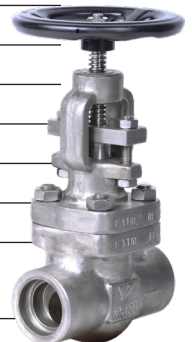
BASIC FEATURES

Valve type	Gate Valves	GAF
	Globe Valves	VAP
	Control Valves	VAPR
	Lift Type Check Valves	CAPL
	Swing Type Check Valves	CAPS
	Strainers	SAP

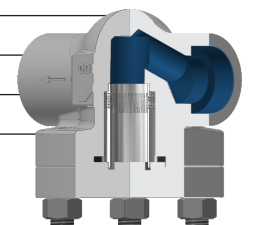


Dimensions:	NPS(DN) 3/8"(10) ÷ 2" (50)
Pressure Class:	Class 150 ÷ Class 1500

Materials	Carbon Steel	A105
	Low Temperature Carbon Steel	LF2
	Low Alloy Steel	F1
	Heat Resistant Alloy Steel	F12Cl.2, F22 Cl.3, F5, F9, F91
	Stainless Steel	F304/304L, F316/316L, F316H, F316Ti, F321/321H, F347/347H



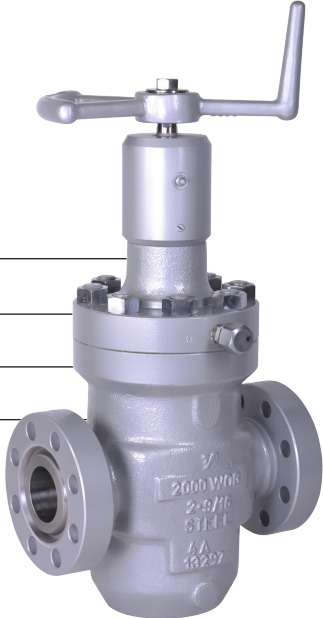
Pressures-temperatures rating:	API 602 and ASME B16.34
Installation length:	ANSI B16.10 and Standard Mnf.
Flange type and size conform to standard:	ANSI B16.5
Socket Welding Ends (SW) type and size conform to standard:	ANSI B16.11
Butt Welding Ends (BW) type and size conform to standard:	ANSI B16.25
Threaded Ends (NPT) type and size conform to standard:	ANSI B1.20.1



Oil & Gas Exploitation Products

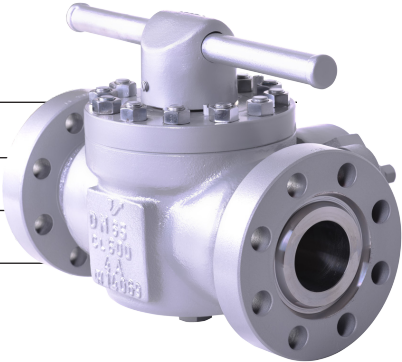
Xmas Tree Gate Valves API 6A

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



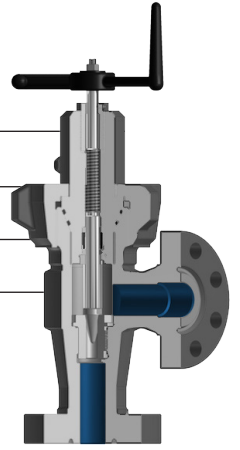
Pig Valves API 6D

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



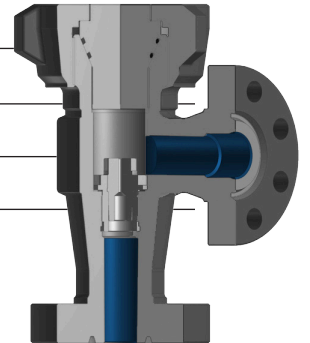
Adjustable Choke API 6A

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



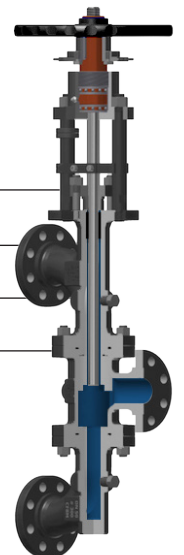
Positive Choke API 6A

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



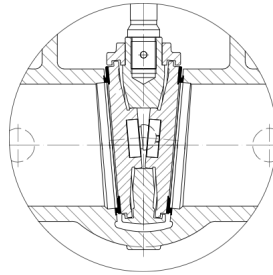
Change Over Valves

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

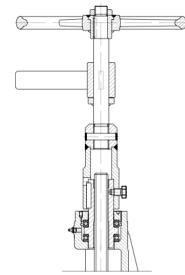


Optional Executions

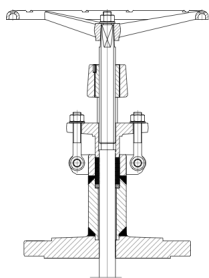
Gate Valves
Globe Valves



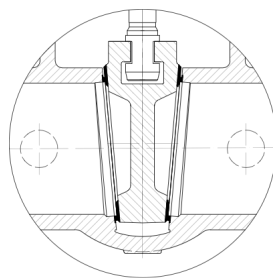
2 piece split wedge



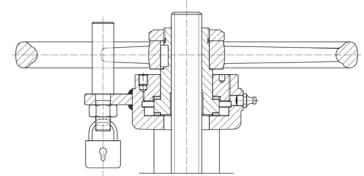
Extended stem



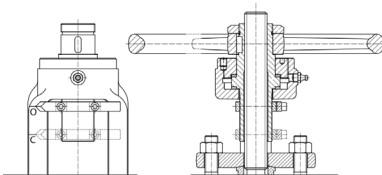
Extended bonnet



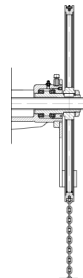
Solid wedge



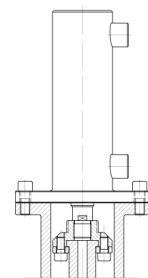
Locking device



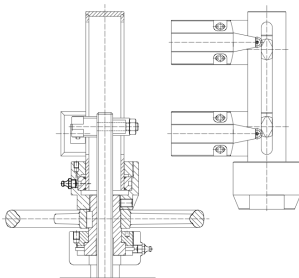
Position indicator



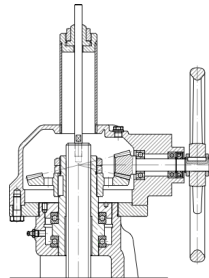
Chain operated



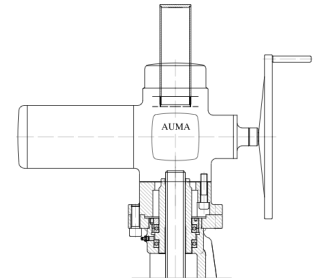
Hydraulic actuator



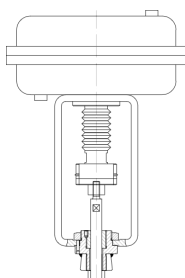
Limit switches



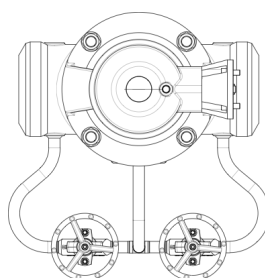
Gear operated



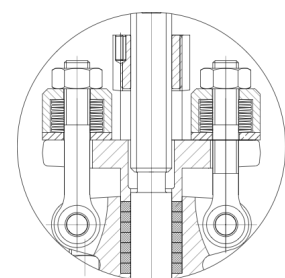
Electric actuator



Pneumatic actuator

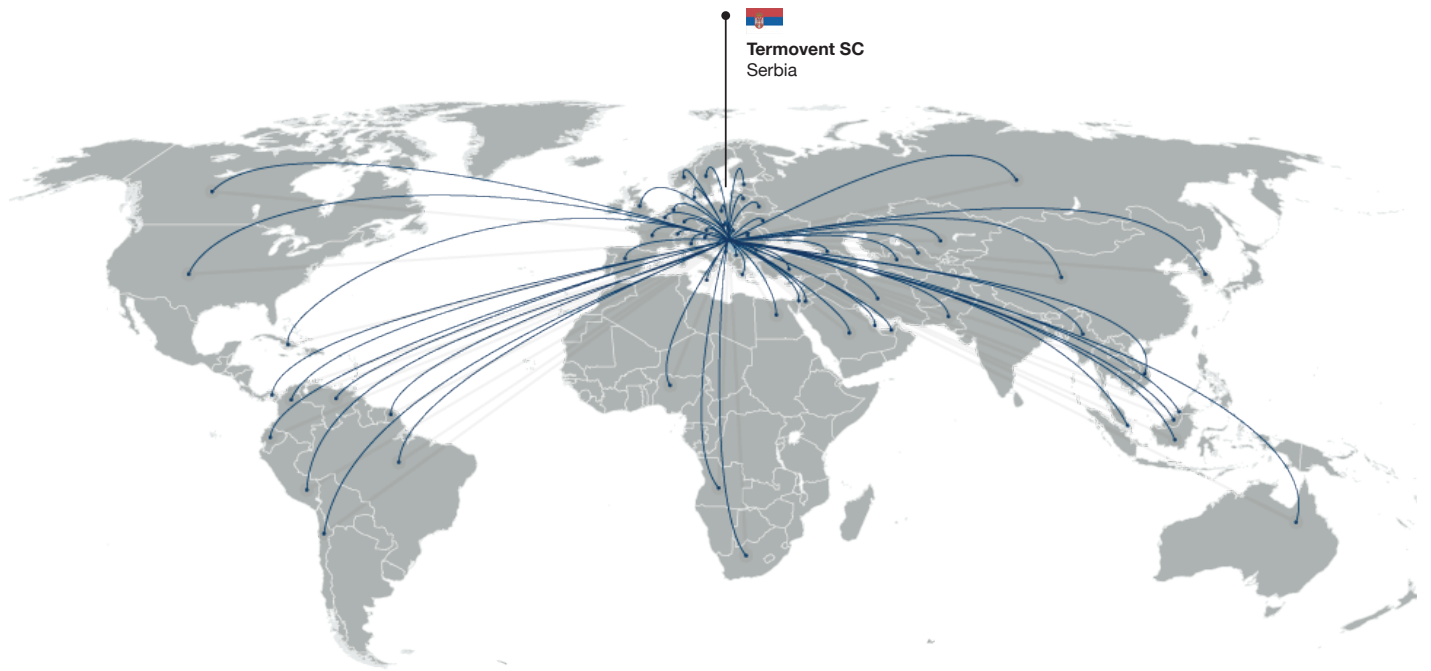


Overpressure safety device

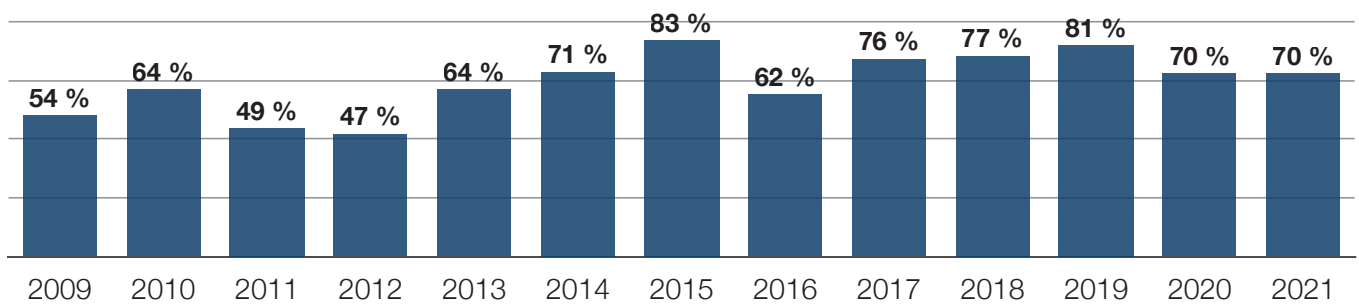


Spring loaded stuffing box

Termovent SC Today

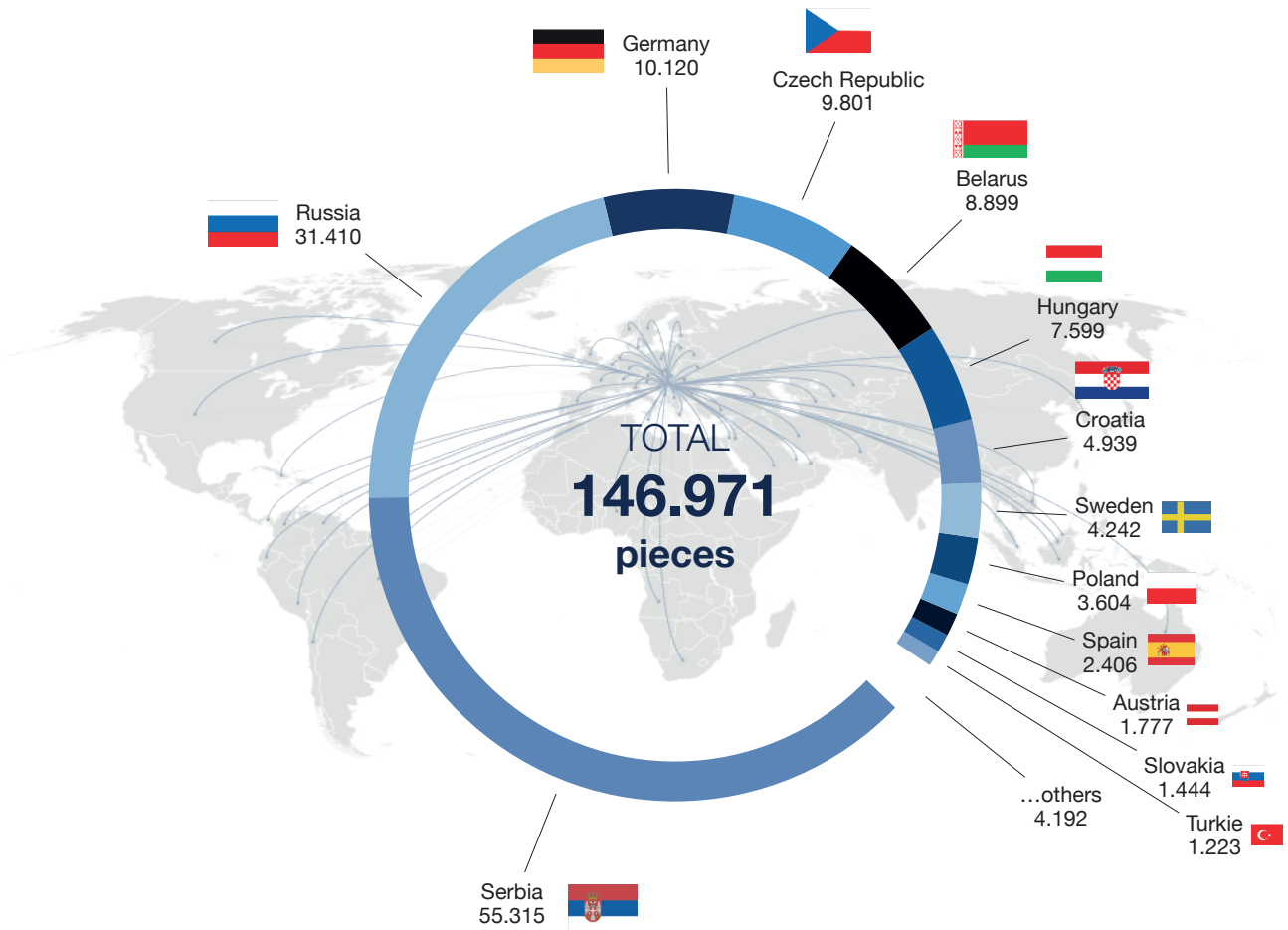


Termovent SC - Export by the years (in %)



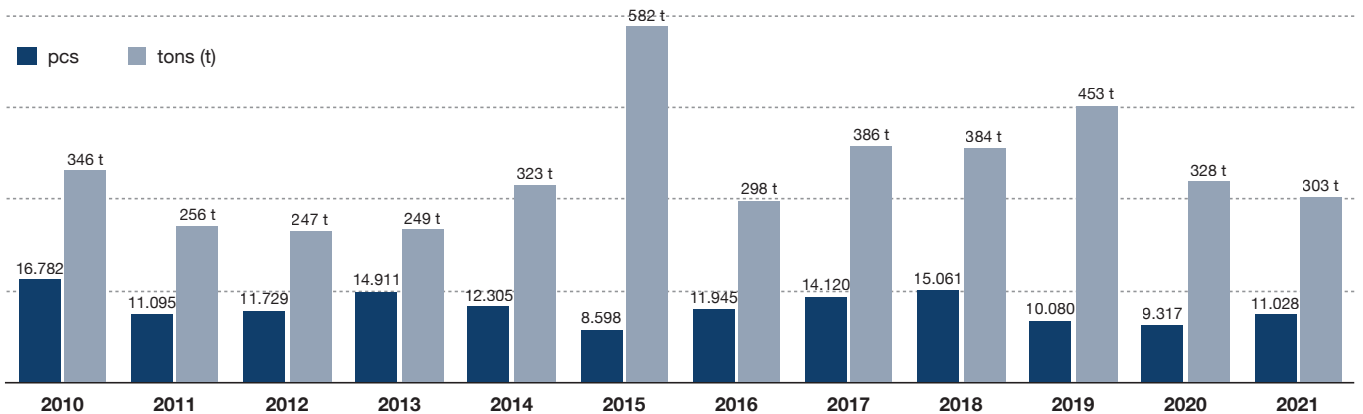
Top Markets

Termovent SC Products delivered 2010 - 2021



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

TOTAL: 4.155 tons



European Origin Global Presence

TERMOVENT SC products are installed and functioning at the many plants of 67 countries worldwide.

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

References

Reference projects 2008 - 2021

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

References

Reference projects 2008 - 2021

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

References

References by the industry

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, Paris, 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-Tonnegrande 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 KGHM Cooper mine, Poland

Oil & Gas

NIS a.d. - Gazpromneft, Serbia Srbijagas, Serbia Turkstream Bulgarian - Hungarian interconnection, Serbia OKTA, North Macedonia MOL, Hungary ORLEN, Poland Lotos, Poland Slovnaft, Slovakia UNIPETROL, Czech Republic Repsol, Spain TOTAL, Germany PCK Refinery, 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 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 Huntoil, Iraq - Erbil Petroperu, Peru ADNOC, UAE Petronas, Malaysia QAPCO, Qatar
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ThermoEnegetics

TPP Nikola Tesla, Serbia Mainz Wiesbaden Gas PP, Germany Lichterfelde PP, Germany Wood-fired CHP Cuxhaven, 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 Lombock PP, Indonesia Grati, Gas PP, Indonesia Namjeju Oil Thermal PP, S. Korea SASOL, South Africa
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Chemical & Petrochemical

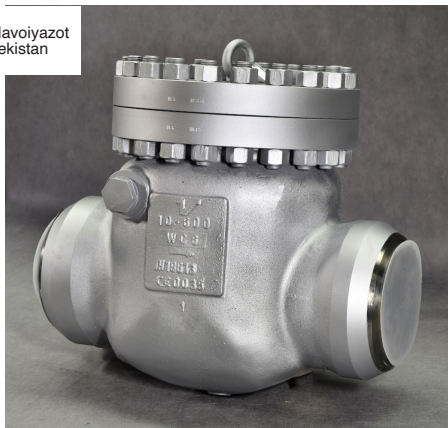
Methanol Acid Plant Kikinda, Serbia Messer CO2 Plant - SOS Rusanda, Serbia MOL Petrolkémia (TVK), Hungary JSR MOL, Synthetic rubber plant, Hungary Borsodchem, Hungary SABIC Spain BASF Spain Borealis Kallo, Belgium Grupa Azoty, Poland Anwil, Poland Precheza a.s., Přerov, Czech Republic EuroChem, NAK Azot, 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 MOPCO Misr Fertilizers Production Company New Kairo, Egypt
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TurkStream Serbia,
Bulgaria - Hungary
Interconnection



CASALE – Navoiyazot
plant Uzbekistan



Bulgartransgaz,
Bulgaria



TAIF NK Refinery
Nizhnekamsk, Russia



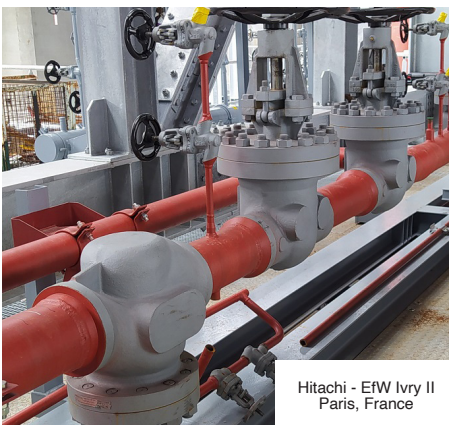
Voestalpine Stahl Linz,
Austria



Gulei Project China



Brunei Fertilizer Plant



Hitachi - EFW Ivory II
Paris, France



UNIS - NAFTAN,
Belarus



Transnafta, Serbia



MOSENERGO
TEC - 22



MSK – Methanol and
Acetic Acid Complex,
Serbia

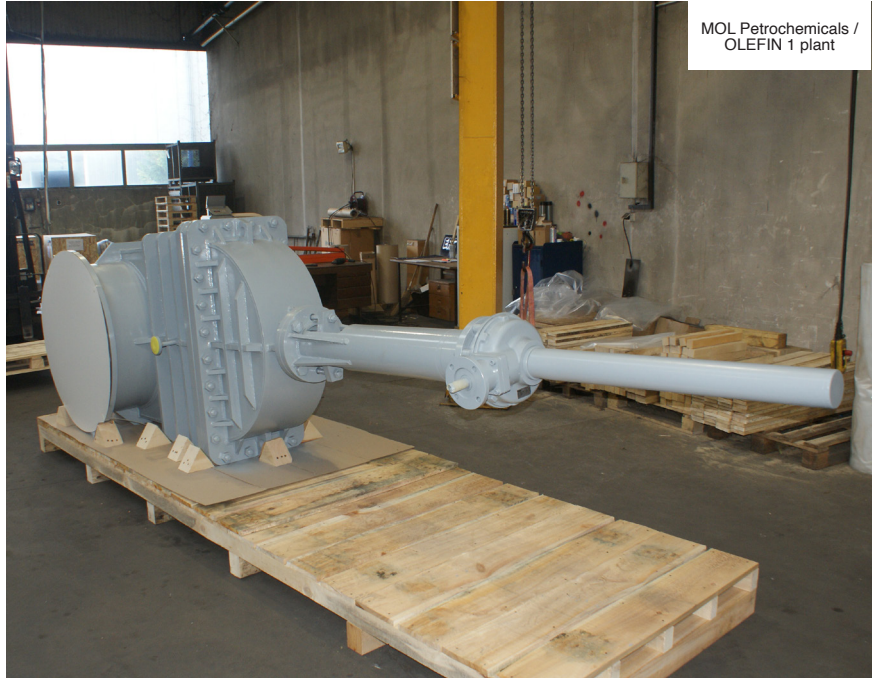


Satem Bio gas power
plant Turkey





SASOL, South Africa



MOL Petrochemicals / OLEFIN 1 plant



Tailor Made Valves



Before

Products Reparation



After



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