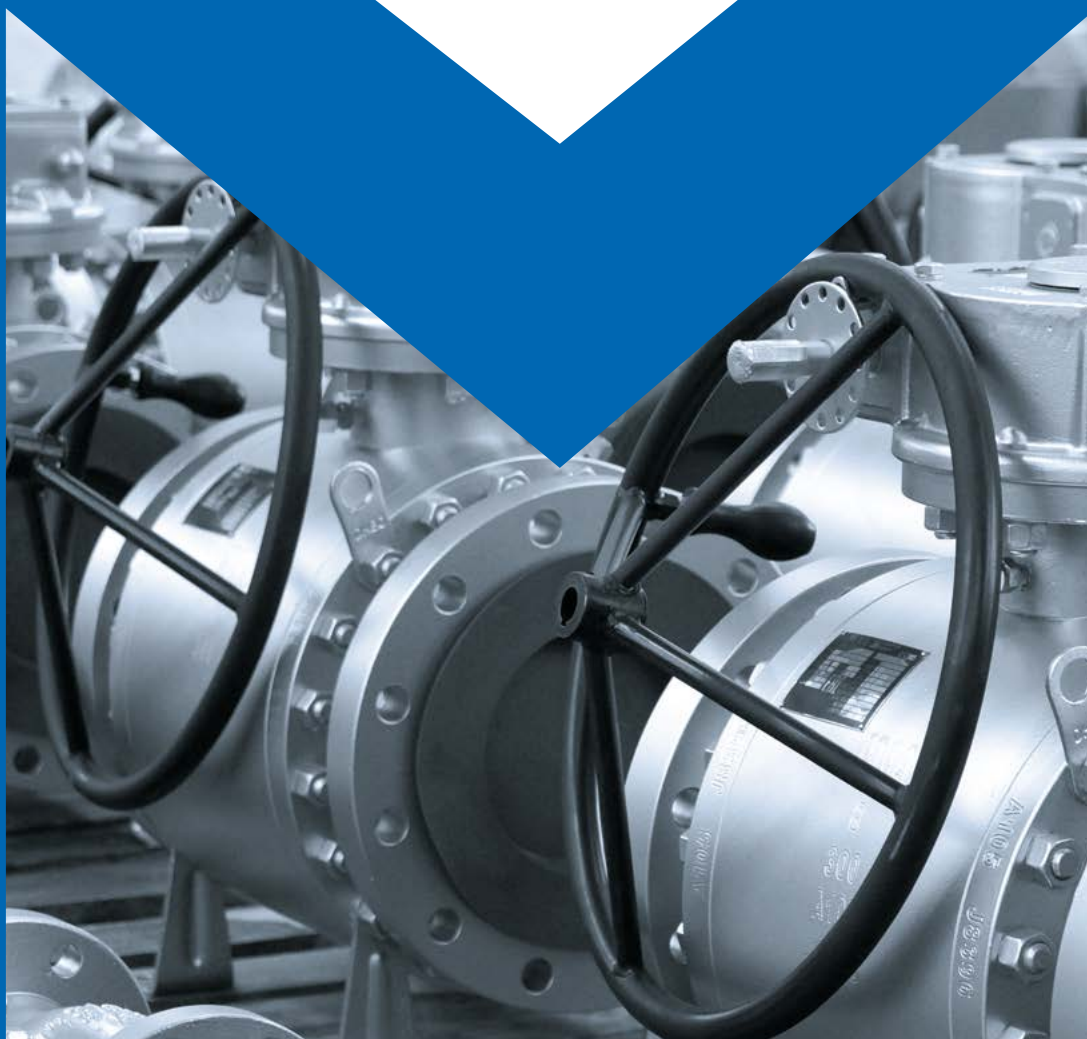


CATALOGUE OF VALVES

MSA



WORLD MANUFACTURER OF INDUSTRIAL VALVES



The long proven and strong position in the world market, experienced personnel, up-to-date technology and capability of producing valves up to the biggest size as well as up to the biggest working pressure make MSA the company that could be considered as one of the world leaders in valve manufacturing.

MSA

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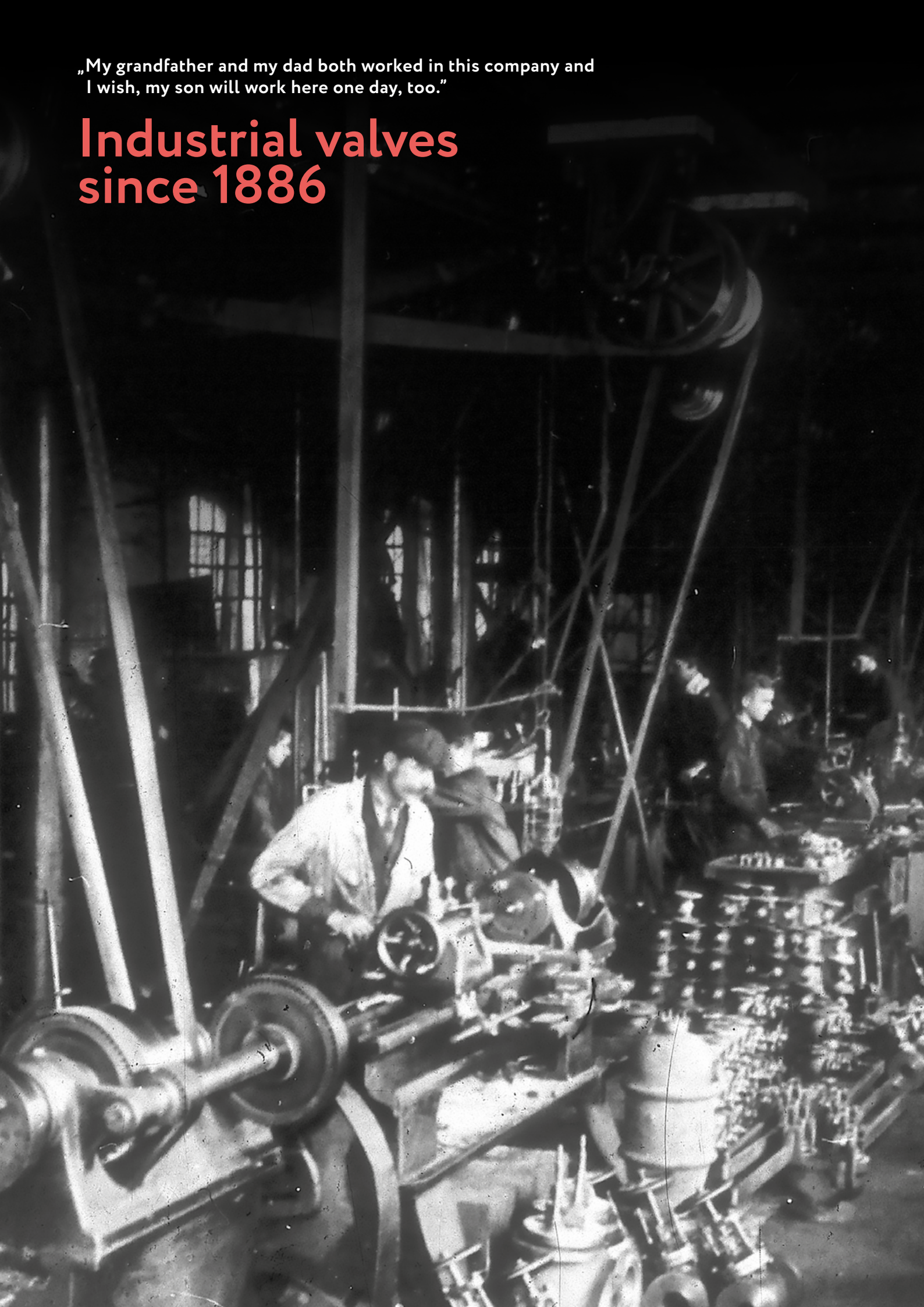
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„My grandfather and my dad both worked in this company and
I wish, my son will work here one day, too.”

Industrial valves since 1886



MORE THAN 130-YEAR-LONG HISTORY OF INDUSTRIAL VALVE PRODUCTION

- 1886** The company DANGO-DIENETHAL focused on industrial valves production was registered at Ostrava County Court
- 1890** Local entrepreneur Jan Holuscha established a small cabinetmaker shop
- 1947** The Jan Holuscha Company renamed to „MSA“
- 1948** The DANGO-DIENETHAL company became a part of MSA
- 1953** Boom of industrial valves manufacturing
- 1975** Valves for nuclear power plant launch
- 1992** MSA, a.s. Dolní Benešov joint-stock company established
- 2006** MSA became a member of **Chelpipe Group**
- 2013** Major restructuring and reconstruction of the company started
- 2015** Finish of the first stage of large reconstruction of manufacturing plant and opening “New manufacturing hall”
- 2019** EHP 003 District Heating certificate received (valves per EN 488)

MSA COMPANY PROFILE



MSA a.s. is a member of ChelPipe Group, one of the world's Top Five steel pipe manufacturers based on the production volume. ChelPipe Group offers its customers a wide range of tubular products and related goods – connecting parts for pipelines as well as artificial lift and oil and gas production equipment.

MSA, a.s. is a company with a long tradition of industrial valves manufacturing. Design and development capacities, strong technological and production background of the company enables to fulfill demanding requirements of our customers and thus ranks MSA, a.s. among the top world manufacturers of industrial valves.

MSA, a.s. manufactures a wide assortment of ball valves, gate valves, globe valves, swing check valves and other valve types, including cryogenic valves and valves for nuclear power plants.

Valves manufactured by MSA, a.s. are used in the following industrial fields:



CRUDE OIL TRANSPORT,
STORAGE AND PROCESSING



NATURAL GAS TRANSPORT,
STORAGE, DISTRIBUTION
AND PROCESSING



NUCLEAR AND
CONVENTIONAL POWER
GENERATION



HEAT GENERATION AND
DISTRIBUTION SYSTEMS



WATER SUPPLY SYSTEMS



METALLURGY



LNG



PETROCHEMISTRY
AND REFINERIES

The products of MSA a.s. meet the strictest requirements of consumers; They are applied for various climatic conditions and pipeline system parameters, including maximum working pressure values, transportation of aggressive media and connecting to large-diameter mains.

Each product developed by MSA a.s. possesses the following functional properties:

- Increased operating reliability under hydraulic and aerodynamic pressure;
- Application of high-strength materials;
- Assurance of the necessary structural rigidity;
- High technical standard, low maintenance cost.

MSA, a.s. has a special pressure testing room as well as test facilities for different kinds of non-destructive tests: 3D measuring, dye-penetrant inspection, ultrasonic and X-ray tests,

magnetic particle test, acoustic emission diagnostics, vacuum tightness tests, acceptance tests are held in the presence of Customer's representatives, cryogenic tests by Helium at temp. -196°C. Quality of the manufactured valves is based on quality system certification of products, employees and selected procedures.

Company certifications are based on requirements of the customers; besides quality system certifications ([EN ISO 9001:2015](#), [EN ISO 14001:2015](#), [API Spec Q1](#), [PED 2014/68/EU](#)) MSA, a.s. holds many different production certificates and type certificates ([API 6D](#), [AD 2000](#), [EN 488](#), [EN 14141](#), [SIL 2](#), [SIL 3](#), [OIT](#), [Firesafe atd](#)).

Health, safety, security, and protection of the environment (HSSE) are core values that constitute the integral part of our commitment to conducting our business in a responsible way ([EMS](#), [ISO 45001 \(OHSAS\)](#)).

BALL VALVES



DELIVERING
TO MORE THAN
75 COUNTRIES
WORLDWIDE
WHERE OUR
VALVES HAVE
PROVEN
THEMSELVES

K 83 TW fully welded body ball valves

BASIC TECHNICAL DATA

- water, gas, oil, acid working medium
- primary metal secondary soft or primary soft secondary metal seats
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



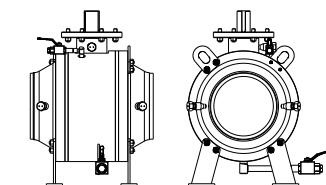
from -60 to +200



CLASS 150 - 2500



NPS 1/2" - 56"



K 83 TB bolted body ball valves

BASIC TECHNICAL DATA

- water, gas, oil, acid working medium
- primary metal secondary soft or primary soft secondary metal seats
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



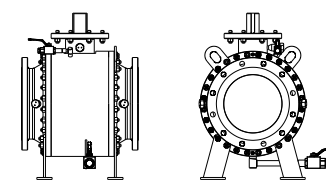
from -60 to +200



CLASS 150 - 2500



NPS 1/2" - 56"



K 90 double block and bleed valve

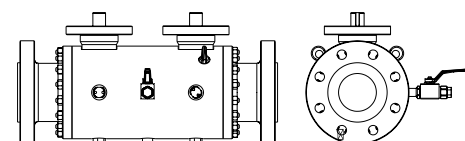
BASIC TECHNICAL DATA

- water, gas, oil, acid working medium
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel

 °C
from -60 to +200

 CLASS 150 - 2500

 NPS 1/2" - 56"



K 89 metal seated ball valves

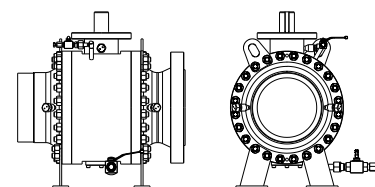
BASIC TECHNICAL DATA

- media with high temperatures and abrasive media
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel

 °C
from -50 to +550

 CLASS 150 - 2500

 NPS 1/2" - 56"



K 88 cryogenic ball valves

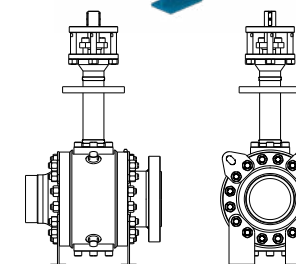
BASIC TECHNICAL DATA

- LNG
- flanged or welded connection
- material stainless steel

 °C
from -50 to +196

 CLASS 150 - 2500

 NPS 1/2" - 36"



K 78 top-entry ball valves

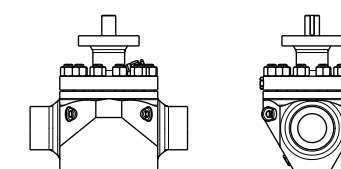
BASIC TECHNICAL DATA

- media with high temperatures and abrasive media
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel

 °C
from -50 to +550

 CLASS 150 - 1500

 NPS 1/2" - 20"



VALVES ACCORDING TO API, ANSI, ASME, ASTM STANDARDS



EXPERIENCED
SUPPLIER
OF CRYOGENIC
VALVES
SIZE 2"-36"
CLASS 150-2500

C 09.2 gate valves

BASIC TECHNICAL DATA

- water, saturated steam, air, oil and gas products, nonaggressive fluids
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



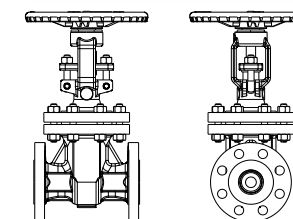
from -46 to +538



CLASS 150 - 1500



NPS 1/2" - 56"



C 09.2 cryogenic gate valves

BASIC TECHNICAL DATA

- LNG
- flanged or welded connection
- material stainless steel



from -50 to -196



CLASS 150 - 1500



NPS 1/2" - 36"



C 09.1 globe valves

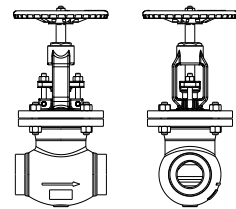
BASIC TECHNICAL DATA

- water, saturated steam, oil and gas products, nonaggressive fluids
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel

 °C
from -46 to +538

 CLASS 150 - 1500

 NPS 1/2" - 24"



C 09.1 cryogenic globe valves

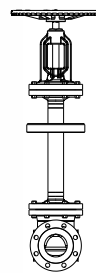
BASIC TECHNICAL DATA

- LNG
- flanged or welded connection
- material stainless steel

 °C
from -50 to -196

 CLASS 150 - 1500

 NPS 1/2" - 14"



C 09 swing check valves

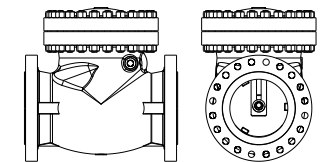
BASIC TECHNICAL DATA

- water, steam, oil and gas products, nonaggressive fluids
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel

 °C
from -46 to +538

 CLASS 150 - 600

 NPS 1/2" - 42"



C 09.4 swing check valves according to API 6D

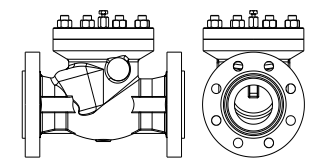
BASIC TECHNICAL DATA

- water, steam, oil and gas products, nonaggressive fluids
- flanged connection
- material carbon steel, alloy steel, stainless steel, duplex steel

 °C
from -46 to +538

 CLASS 150 - 1500

 NPS 1/2" - 30"



A 14 nozzle check valves

BASIC TECHNICAL DATA

- water, steam, gas, oil, nonaggressive fluids
- flanged and welded connection
- material carbon steel, austenitic steel
- minimum pressure loss utilizing Venturi effect
- excellent static and dynamic characteristic



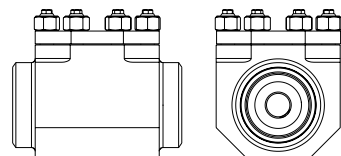
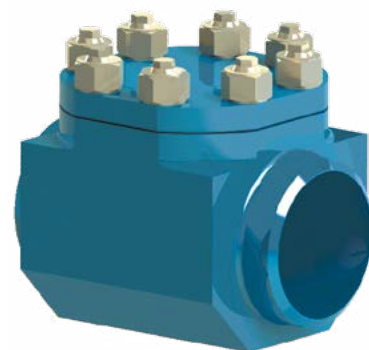
from -46 to +550



CLASS 150 - 1500



NPS 2" - 24"



C 65.8 dual plate check valves

BASIC TECHNICAL DATA

- oil, gas
- flanged or welded connection
- material carbon steel, austenitic steel



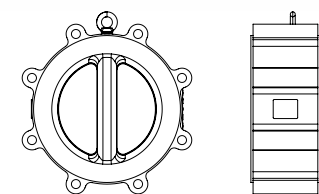
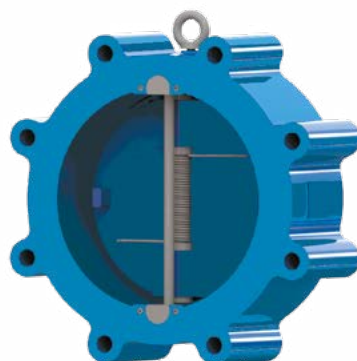
from -46 to +538



CLASS 150-1500



NPS 2" - 56"



L 32 butterfly valves

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- flanged or welded connection
- material carbon steel, austenitic steel, duplex steel



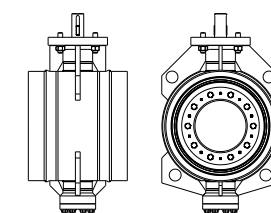
from -46 to +538



CLASS 150 - 600



NPS 2" - 56"



K 40 plug valves

BASIC TECHNICAL DATA

- oil, gas
- flanged or welded connection
- material carbon steel, austenitic steel



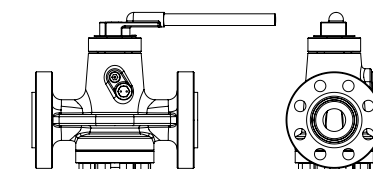
from -46 to +538



CLASS 150-1500



NPS 2" - 36"



VALVES ACCORDING TO EN STANDARDS



ONGOING
INNOVATION AND
MODERNIZATION
OF OUR
PRODUCTION

A 46 check valves

BASIC TECHNICAL DATA

- water, sea water, air, steam, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel, duplex
- triple offset design ensures friction free stroking at the final point of closure



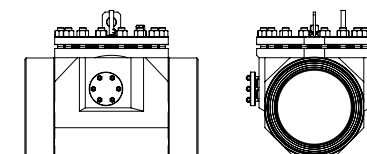
from +20 to +350



PN 1,4 - 12,5



DN 200 - 600



S 38 gate valves

BASIC TECHNICAL DATA

- water, steam, oil and gas products, nonaggressive fluids
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



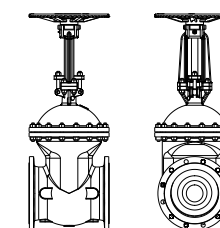
from -46 to +538



PN 16 - 100



DN 50 - 1200



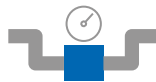
S 38.4 gate valves with non-rising stem

BASIC TECHNICAL DATA

- gas, water
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



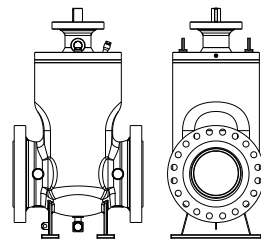
from -46 to +538



PN 16 - 100



DN 50 - 500



SUCCESSFUL
REFERENCES
FROM THE
BIGGEST
PROJECTS
OF THE WORLD

S 42 high-pressure gate valves with pressure-seal bonnet

BASIC TECHNICAL DATA

- water, steam, air, nonaggressive fluids
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



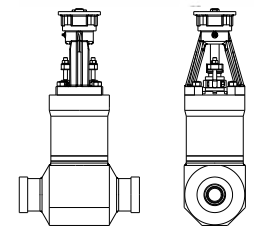
from -20 to +575



PN 160 - 400



DN 50 - 400



L 10 127 swing check valves

BASIC TECHNICAL DATA

- water, steam, air, nonaggressive fluids
- welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



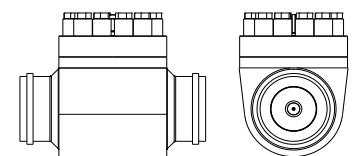
from -20 to +575



PN 160 - 400



DN 50 - 300



M 14 expansion joints (one-sided)

BASIC TECHNICAL DATA

- water, steam, nonaggressive fluids
- welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



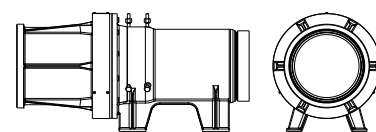
to +200



PN 25



DN 200 - 1200



M 17 expansion joints (two-sided)

BASIC TECHNICAL DATA

- water, steam, nonaggressive fluids
- welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



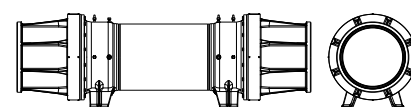
to +160



PN 25



DN 200 - 1200



SUSTAINABLE
EMPLOYER
FOR QUALIFIED
PERSONNEL



THROUGH CONDUIT TYPE



RESEARCH &
DEVELOPMENT
ALL THE KEY
PROCESSES AND
TECHNOLOGIES
ARE IN-HOUSE

S 85.1 cast body slab gate valves

BASIC TECHNICAL DATA

- oil and oil products
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



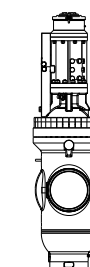
from -46 to +538



CLASS 150 - 1500



NPS 2" - 56"



S 85.2 welded body slab gate valves

BASIC TECHNICAL DATA

- oil and gas products
- flanged or welded connection
- material carbon steel, alloy steel, stainless steel, duplex steel



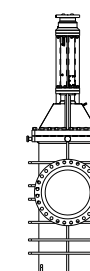
from -46 to +538



CLASS 150 - 300



NPS 2" - 56"



VALVES FOR NUCLEAR POWER PLANTS



VALVES FOR
NUCLEAR
POWER PLANTS
SINCE 1975

A 00 gate valves

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel
- operation hand wheel, electrical actuator, remote control



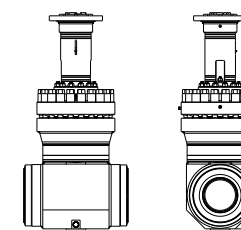
up to +350



Pmax 20,0 MPa



DN 50 - 800



A 09 regulating gate valves

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel
- operation hand wheel, electrical actuator



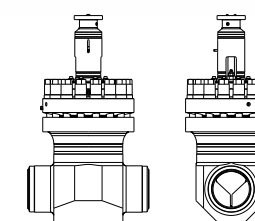
up to +350



Pmax 20,0 MPa



DN 65 - 300



A 01 quick-acting gate valves with electrical actuator

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- actuating time ≤ 10 s
- material carbon steel, austenitic steel



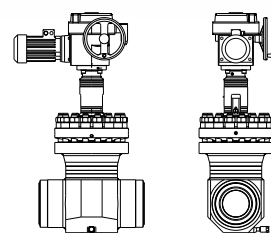
up to +350



Pmax 20,0 MPa



DN 50 - 300



A 01 quick-acting gate valves with pneumatic actuator

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- actuating time ≤ 10 s
- operating pressure of air 4,5 MPa $\pm$ 0,5 MPa
- material carbon steel, austenitic steel



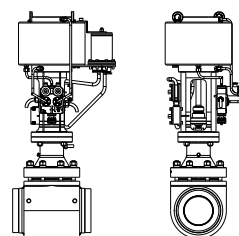
up to +350



Pmax 20,0 MPa



DN 100 - 600



A 10 shut-off bellows-type globe valves

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel
- operation hand wheel, electrical actuator, remote control



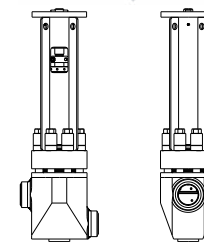
up to +350



Pmax 20,0 MPa



DN 50 - 150



A 11 regulating bellows-type globe valves

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel
- operation hand wheel, electrical actuator, remote control



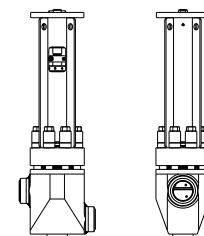
up to +350



Pmax 20,0 MPa



DN 50 - 150



A 14 nozzle check valves

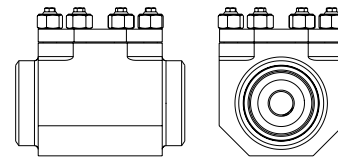
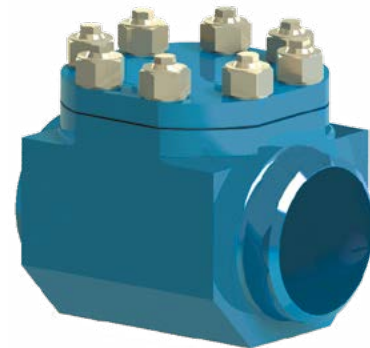
BASIC TECHNICAL DATA

- water, steam, gas, oil, nonaggressive fluids
- flanged and welded connection
- material carbon steel, austenitic steel
- minimum pressure loss utilizing Venturi effect
- excellent static and dynamic characteristic

 °C
from -50 to +550

 Pmax 25,0 MPa

 DN 50 - 300



A 31 stop check valves

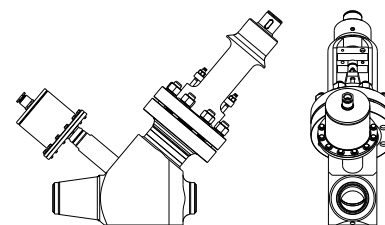
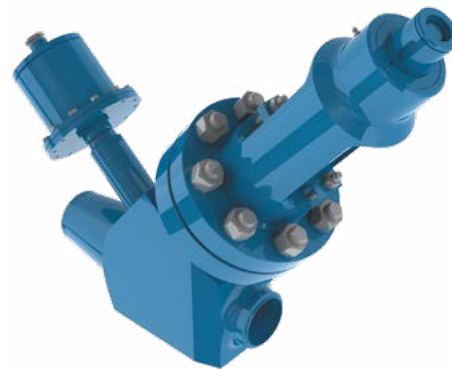
BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel, SAF 2507
- design with remote signaling or without remote signaling
- self-acting by service fluid

 °C
up to +350

 Pmax 20,0 MPa

 DN 80 - 150



L 32 butterfly valves

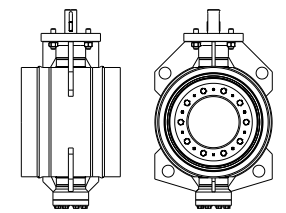
BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- flanged or welded connection
- material carbon steel, austenitic steel, duplex steel

 °C
up to +250

 Pmax 2,5 MPa

 DN 150 - 1200



A 49 regulating butterfly valves

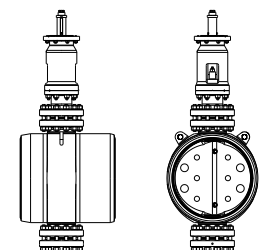
BASIC TECHNICAL DATA

- water, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel

 °C
up to +350

 Pmax 11,0 MPa

 Dmax 800



A 41 non-slam swing check valves

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- flanged or welded connection or wafer type
- material carbon steel, austenitic steel



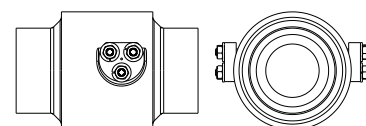
up to +350



Pmax 20,0 MPa



DN 50 - 800



MORE THAN
100 DESTINATION

A 42 swing check valves with remote indication of stop device position

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel



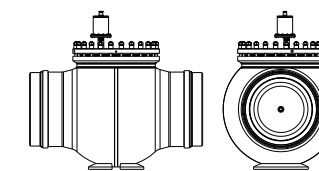
up to +350



Pmax 20,0 MPa



DN 100 - 600



C 23 swing check valves

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel



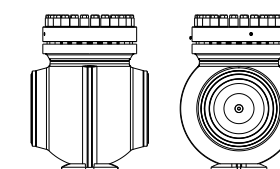
up to +350



Pmax 20,0 MPa



DN 50 - 600



A 44 swing check valves with pressure seal bonnet

BASIC TECHNICAL DATA

- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel



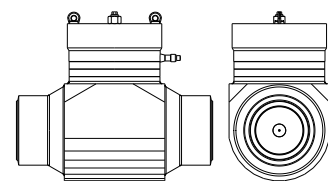
up to +350



Pmax 20,0 MPa



DN 100 - 300



A 46 check valves

BASIC TECHNICAL DATA

- water, sea water, air, steam, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel, SAF 2507
- triple offset design ensures friction free stroking at the final point
- of closure



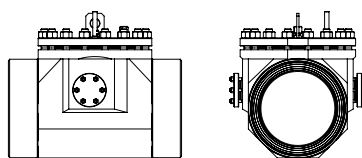
from +20 to +350



PN 1,4 – 12,5



DN 200 - 600



UP TO
10 000 PIECES
OF QUALITY
VALVES EVERY
YEAR



K 83 ball valves

BASIC TECHNICAL DATA

- water (sea water), air, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel, SAF 2507



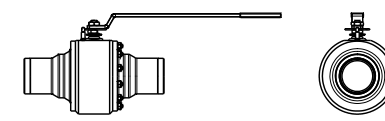
up to +200



Pmax 20,0 MPa



DN 50 - 100



NOTES



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