Catalogue of valves

MSA

člen skupiny RKL HOLDING

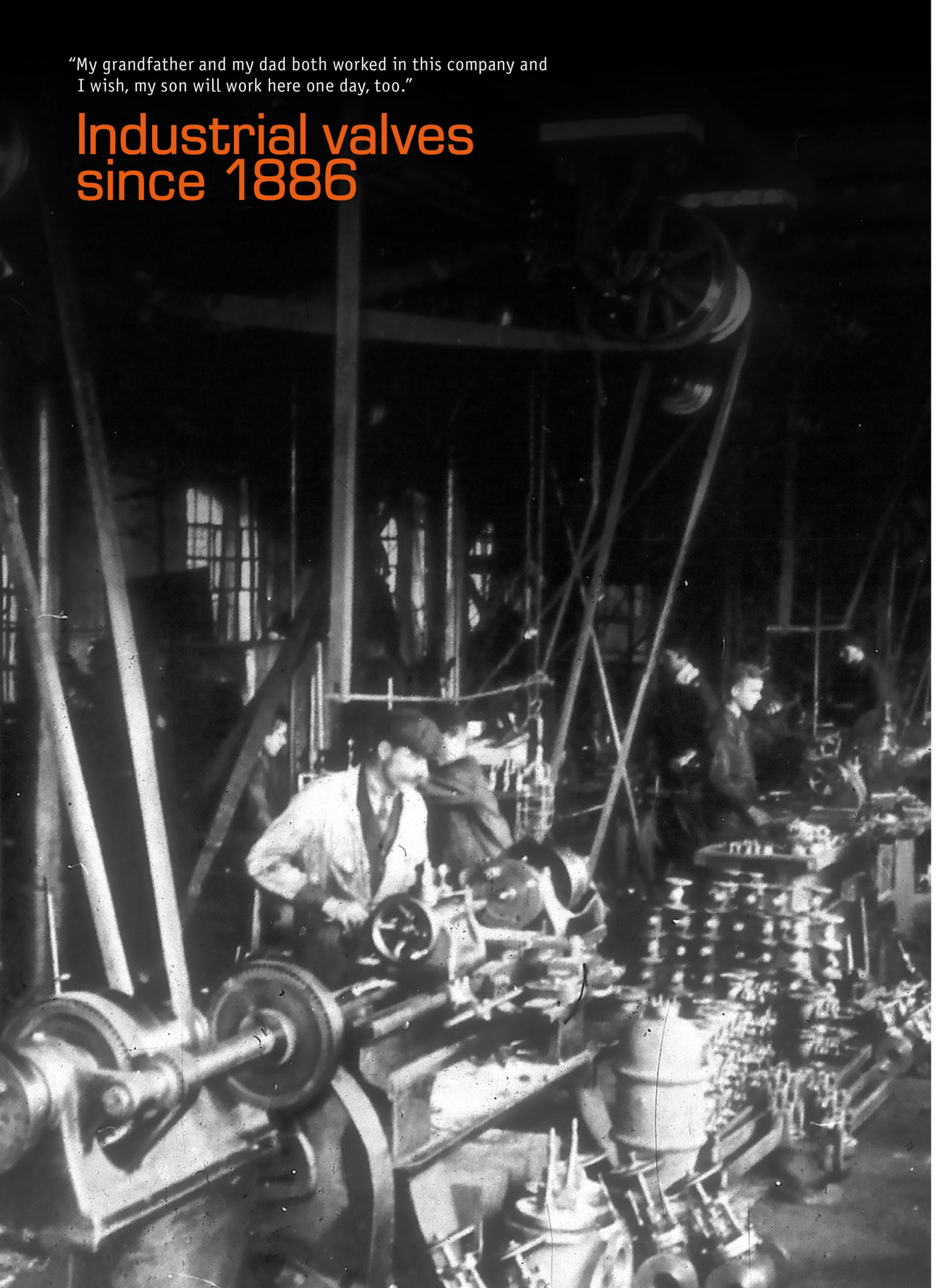
WORLD MANUFACTURER OF INDUSTRIAL VALVES

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.

CONTENT

"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. Dolni Benesov joint-stock company established

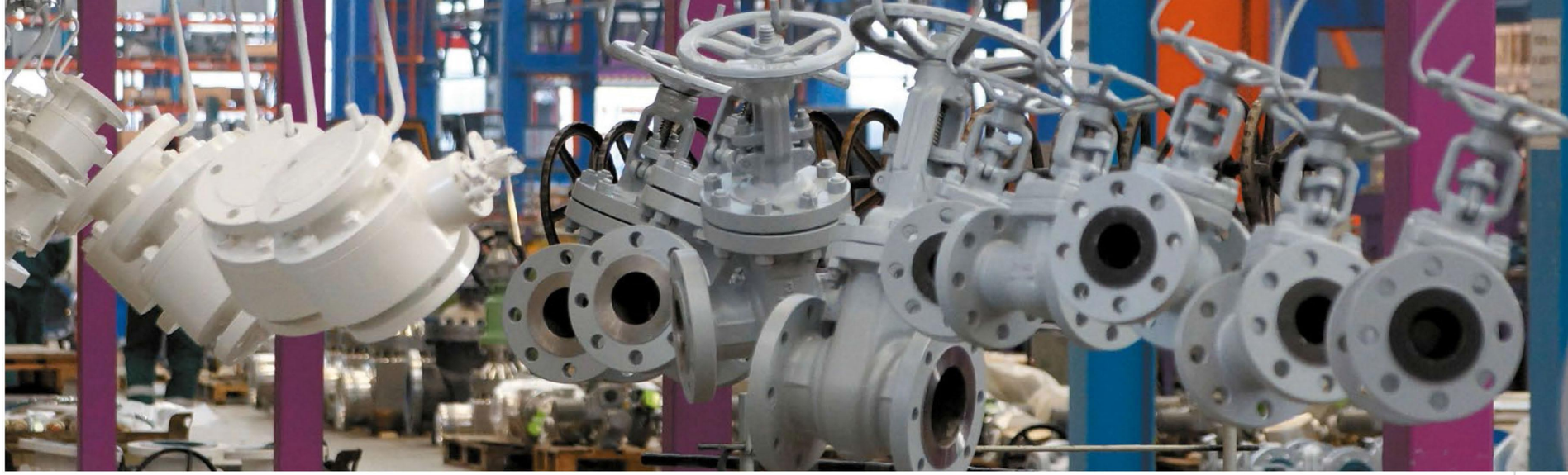
2006 MSA became a member of Chelpipe Group

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 TMK Group, one of the world's Top Five steel pipe manufacturers based on the production volume. TMK 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; The 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.

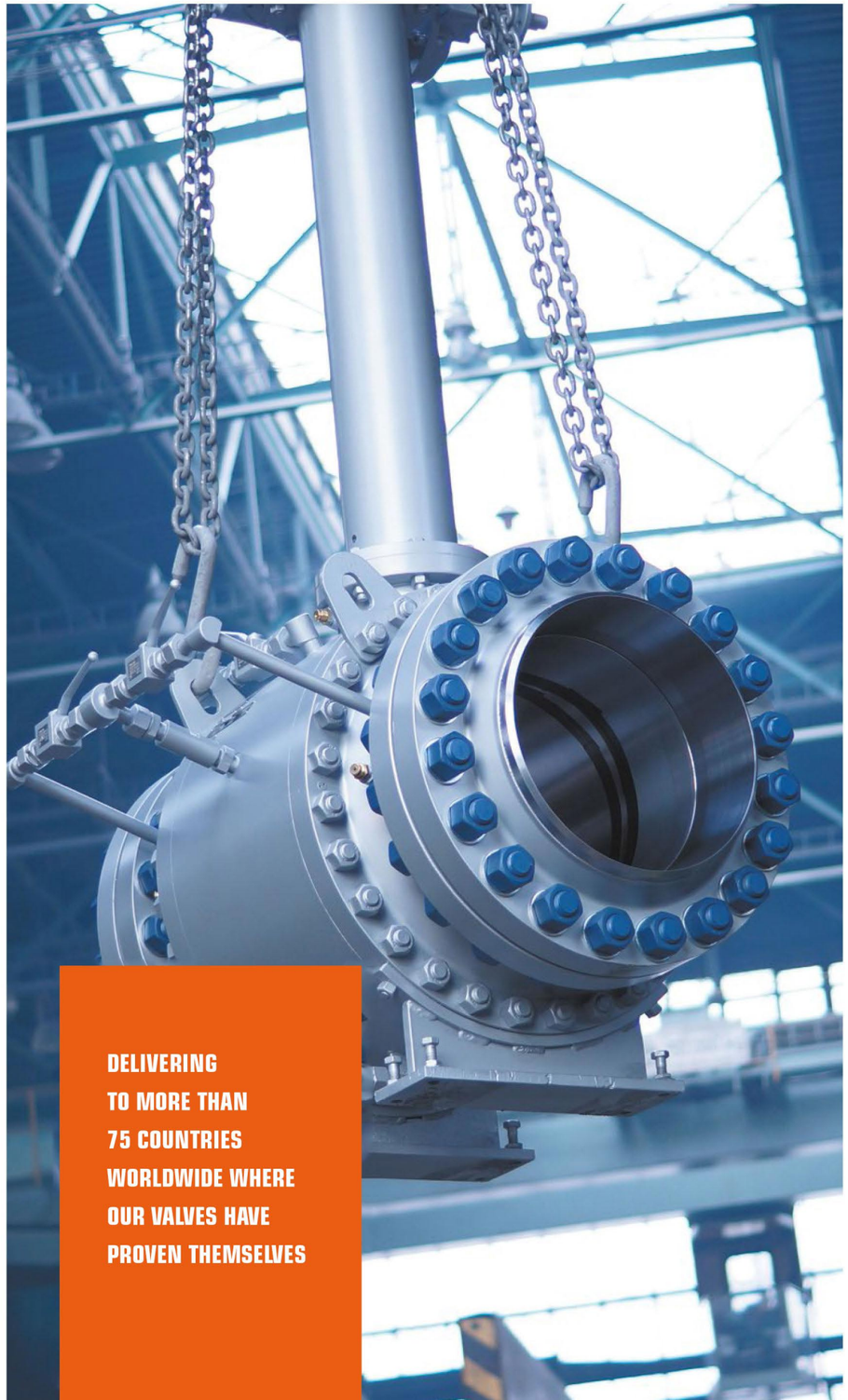
MSA, a.s. has a special pressure testing room as well as test facilities for different kinds of non-destructive tests: 3D measuring, dye-penetrant inspection, ultrasonic and X-ray tests, magnetic particle test, acoustic emission diagnostics, vacuum tightness tests, acceptance tests are held in the presence 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

AMBIENT TEMPERATURE from -60 °C to +60 °C



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

K 83 TW fully welded body ball valves

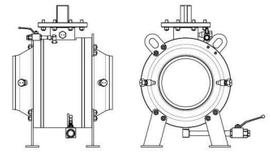
BASIC TECHNICAL DATA

- 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

°C
from -50 up to +200

CLASS 150 - 2500

NPS 1/2" - 56"



K 83 TB bolted body ball valves

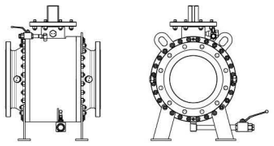
BASIC TECHNICAL DATA

- 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

°C
from -50 up to +200

CLASS 150 - 2500

NPS 1/2" - 56"



K 90 double block and bleed valves

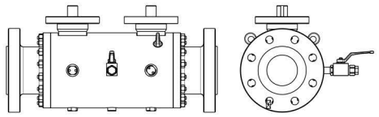
BASIC TECHNICAL DATA

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

°C
from -50 up to +200

CLASS 150 - 2500

NPS 1/2" - 56"



K 89 metal seated ball valves

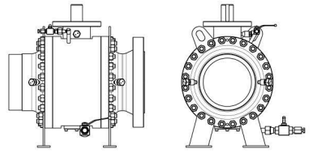
BASIC TECHNICAL DATA

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

°C
from -50 up to +550

CLASS 150 - 2500

NPS 1/2" - 56"



SUSTAINABLE EMPOYER FOR QUALIFIED PERSONNEL

K 88 cryogenic ball valves

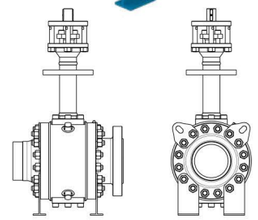
BASIC TECHNICAL DATA

- LNG
- flanged or welded connection
- material stainless steel

°C
from -196 up to -50

CLASS 150 - 2500

NPS 1/2" - 36"



K 73 top-entry soft seated ball valves

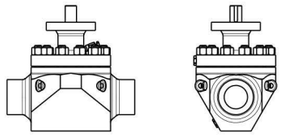
BASIC TECHNICAL DATA

- 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

°C
from -50 up to +200

CLASS 150 – 2500

NPS 1/2“ - 56”



K 79 top-entry metal seated ball valves

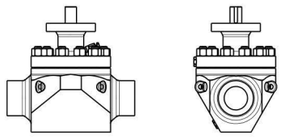
BASIC TECHNICAL DATA

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

°C
from -50 up to +550

CLASS 150 – 2500

NPS 1/2“ - 56”



K 78 top-entry cryogenic ball valves

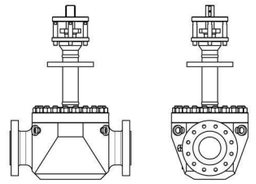
BASIC TECHNICAL DATA

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

°C
from - 50 up to +550

CLASS 150 - 2500

NPS 1/2” - 20”



K 84 ball valves with floating ball

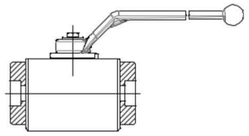
BASIC TECHNICAL DATA

- water, gas, oil, oil producsts, LNG
- manual control (lever)

°C
from - 50 up to +200

CLASS 150 - 2500

NPS 1/2“-6“



VALVES ACCORDING TO API, ANSI, ASME, ASTM STANDARDS

AMBIENT TEMPERATURE from -60 °C to +60 °C

EXPERIENCED SUPPLIER OF CRYOGENIC VALVES SIZE 2“– 36“ CLASS 150 – 2500

C 09.2 gate valves

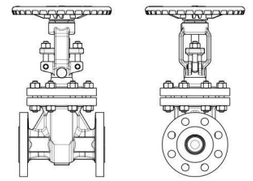
BASIC TECHNICAL DATA

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

°C
from -50 up to +538

CLASS 150 - 1500

NPS 1/2” - 56”



C 09.2 cryogenic gate valves

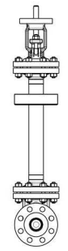
BASIC TECHNICAL DATA

- LNG
- flanged or welded connection
- material stainless steel

°C
from -196 up to -50

CLASS 150 - 1500

NPS 1/2” - 36”



C 09.1 globe valves

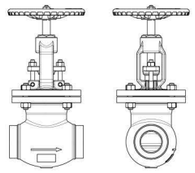
BASIC TECHNICAL DATA

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

°C
from-50 up 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 -196 up to -50

CLASS 150 - 1500

NPS 1/2" - 14"

C 09 swing check valves

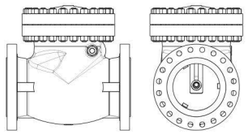
BASIC TECHNICAL DATA

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

°C
from -50 up to +538

CLASS 150 - 600

NPS 1/2" - 42"



C 09.4 swing check valves according to API 6D

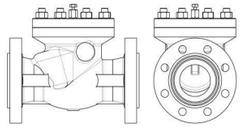
BASIC TECHNICAL DATA

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

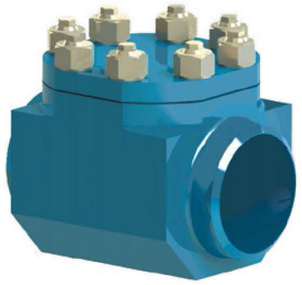
°C
from -50 up to +538

CLASS 150 - 1500

NPS 1/2" - 30"



A 14 nozzle check valves



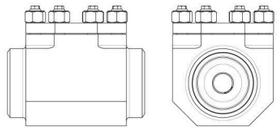
BASIC TECHNICAL DATA

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

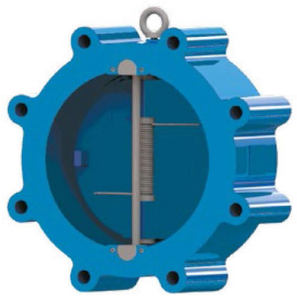
°C
from -30 up to +538

CLASS 150 - 1500

NPS 2“ - 24“



C 65.8 dual plate check valves



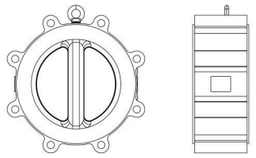
BASIC TECHNICAL DATA

- oil, gas
- flanged or welded connection
- LNG
- material stainless steel

°C
from -50 up to +500

CLASS 150-1500

NPS 1/2”-56”



L 32 butterfly valves

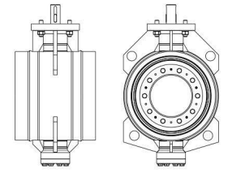
BASIC TECHNICAL DATA

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

°C
from -50 up to +200

CLASS 150 - 2500

NPS 2“ - 56“



K 40 plug valves

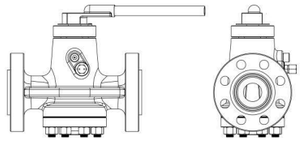
BASIC TECHNICAL DATA

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

°C
from -50 up to +538

CLASS 150-600

NPS 2” - 56”



VALVES ACCORDING TO EN STANDARDS

AMBIENT TEMPERATURE from -60 °C to +60 °C

A 46 check valves

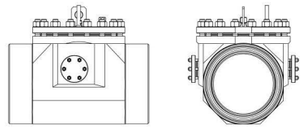
BASIC TECHNICAL DATA

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

°C
from -50 up to +350

PN 16 - 160

DN 200 - 600



S 38 gate valves

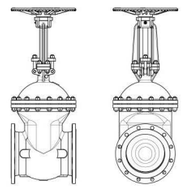
BASIC TECHNICAL DATA

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

°C
from -50 up to +538

PN 16 - 100

DN 50 - 1200



S 38.4 gate valves with non-rising stem

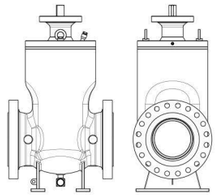
BASIC TECHNICAL DATA

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

°C
from -50 up 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

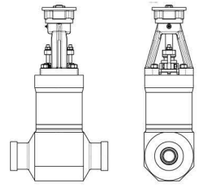
BASIC TECHNICAL DATA

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

°C
from -20 up to +575

PN 160 - 400

DN 50 - 400



L 10 127 swing check valves

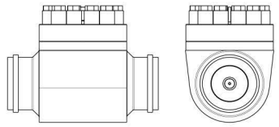
BASIC TECHNICAL DATA

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

°C
from -20 up to +575

PN 160 - 400

DN 30 - 300



M 14 expansion joints (one-sided)

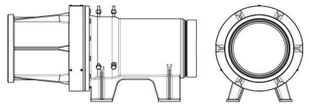
BASIC TECHNICAL DATA

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

°C
up to +200

PN 25

DN 200 - 1200



M 17 expansion joints (two-sided)

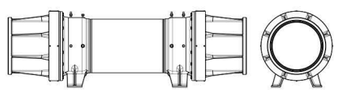
BASIC TECHNICAL DATA

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

°C
up to +160

PN 25

DN 200 - 1200



C 26 centric orifice

BASIC TECHNICAL DATA

- the centric orifice is designed for a wide range of application: steam, liquid and gas flow measurement in pipelines. Flange, v wafer typ

°C
from -50 up to +600

PN up to 400

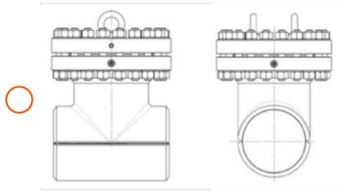
T 10 hot tapping flange

BASIC TECHNICAL DATA

- hot tapping flange is designed for pipe repairs without the ne shutting down the piping system

°C
from -50 up to +120

CLASS up to 600



THROUGH CONDUIT TYPE

AMBIENT TEMPERATURE from -60 °C to +60 °C

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

S 85.1 cast body slab gate valves

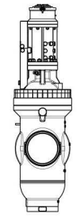
BASIC TECHNICAL DATA

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

°C
from -50 up to +538

CLASS 150 - 1500

NPS 2" - 56"



S 85.2 welded body slab gate valves

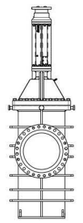
BASIC TECHNICAL DATA

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

°C
from -50 up to +538

CLASS 150 - 600

NPS 2" - 56"



VALVES FOR NUCLEAR POWER PLANTS

AMBIENT TEMPERATURE from 0 °C to +350 °C

A 00 11045, 11065 gate valves

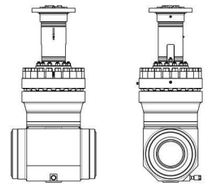
BASIC TECHNICAL DATA

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

°C
up to +350

Pmax 20,0 MPA

DN 50 - 800



A 09 regulating gate valves

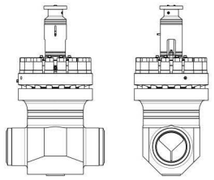
BASIC TECHNICAL DATA

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

°C
up to +350

Pmax 20,0 MPa

DN 65 - 800



A 01 quick-acting gate valves with electrical actuator

BASIC TECHNICAL DATA

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

°C
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 ⩽ 10s
- operating pressure of air 4,5 MPa ± 0,5 MPa
- material carbon steel, austenitic steel

°C
up to +350

Pmax 18,0 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

°C
up to +350

Pmax 20,0 MPa

DN 50 - 150

A 11 regulating bellows-type globe valves

BASIC TECHNICAL DATA

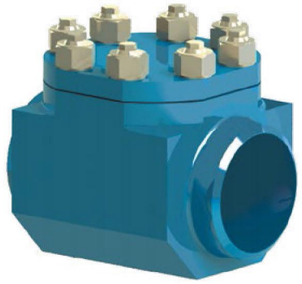
- water, steam, air, gas, oil, nonaggressive fluids
- welded connection
- material carbon steel, austenitic steel
- operation hand wheel, electrical actuator, remote control

°C
up to +350

Pmax 20,0 MPa

DN 50 - 150

A 14, A 15 nozzle check valves



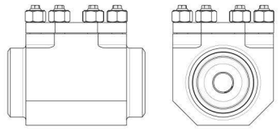
BASIC TECHNICAL DATA

- 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

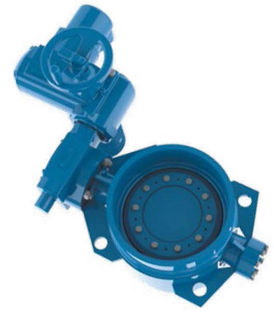
°C
up to +350

Pmax 20,0 MPa

DN 65 - 300



L 32 butterfly valves



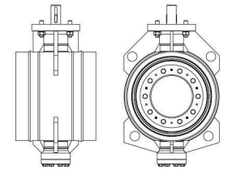
BASIC TECHNICAL DATA

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

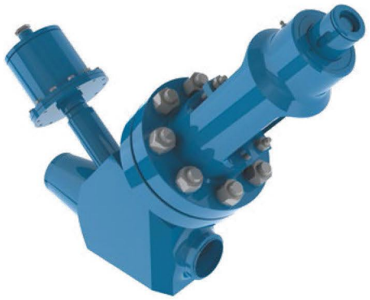
°C
up to +250

Pmax 1,0 MPa

DN 150 - 1200



A 31 stop check valves



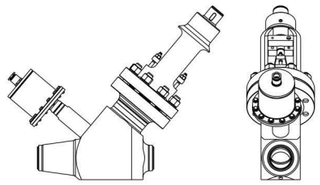
BASIC TECHNICAL DATA

- 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



A 49 regulating butterfly valves

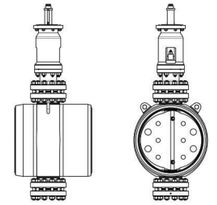
BASIC TECHNICAL DATA

- 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

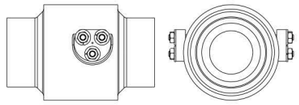
BASIC TECHNICAL DATA

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

°C
up to +350

Pmax 20,0 MPa

DN 50 - 800



MORE THAN
100 DESTINATIONS

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

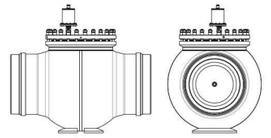
BASIC TECHNICAL DATA

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

°C
up to +350

Pmax 20,0 MPa

DN 80 - 600



C 23 swing check valves

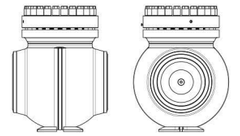
BASIC TECHNICAL DATA

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

°C
up to +350

Pmax 20,0 MPa

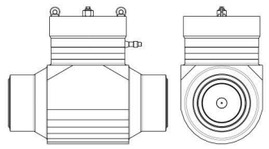
DN 50 - 600



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



°C
up to +350

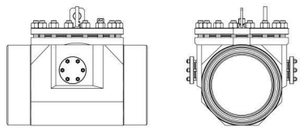
Pmax 20,0 MPa

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



°C
up to +350

Pmax 20,0 MPa

DN 200 - 600

UP TO 10 000 PIECES OF QUALITY VALVES EVERY YEAR

K 83 ball valves

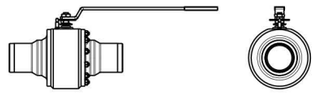
BASIC TECHNICAL DATA

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

°C
up to +200

Pmax 20,0 MPa

DN 50 - 100



NOTES

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