

TECHNICAL CATALOG 2017



M S A
CHELPIPE
GROUP



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ABOUT COMPANY

Chelpipe is a Russian steel industry group and one of the nation's largest pipe manufacturers with an aggregate market share of around 20 %. Chelpipe Group unites steel and iron plants and companies: Chelyabinsk Pipe Rolling Plant, Pervouralsk New Pipe Plant, a chain of warehouses selling tubulars in the regions, META scrap metal collection and processing company; transmission pipeline equipment companies SOT, ETERNO, MSA (Czech Republic); and an oil service division represented by Rimera.

MSA, a.s.

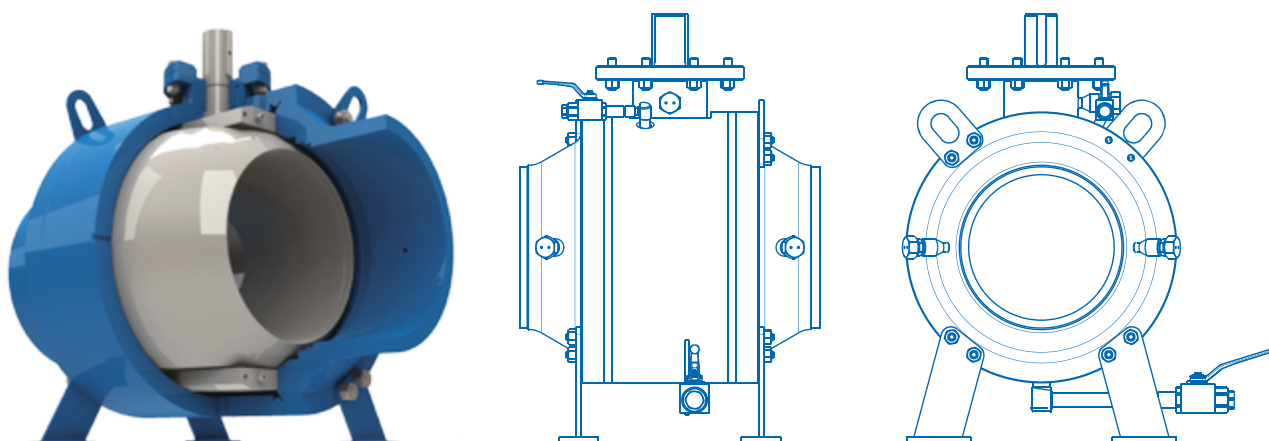
MSA, the Czech asset of Chelpipe Group, is one of the oldest producers of pipeline valves in both Europe and worldwide. The plant is thriving on successful partnerships with customers in 40 countries, offering products that enjoy steady demand from the world's premier energy companies.

Our equipment boasts a number of technical advantages over competition. Combined, they enable us to make offers that our customers find hard to pass up. Competently structured production processes combined with efficient logistics make MSA products indispensable. Ball valves of our Czech plant are available in both welded and bolted designs, enabling routine maintenance and replacement of valve seats and seals in field conditions. Ball valves are also available in a DBB (Double Block and Bleed) design that makes repairs possible without the need to shut down and depressurize the pipeline. This translates into significant savings in valve servicing costs.

Customers have the option of choosing any actuators for their ball valves from the available range of vendors and operating principles. MSA ball valves have been also successfully tested for resistance to a magnitude 10 earthquake on the MSK64 scale, which is further proof of their superior reliability for the most extreme deployment environments.

K 83 TW

Fully welded body ball valves



BASIC TECHNICAL DATA:

gas, petroleum, acid working medium, water
flanged or welded connection
range of working temperatures from -60 °C to +200 °C
CLASS 150 – 1500, NPS 2" – 56"

OPERATION:

without control
hand wheel
electrical actuator
hydro-pneumatic actuator
electro-hydraulic actuator
pneumatic actuator
hydraulic actuator

DESCRIPTION:

Ball valve body is made of three forgings that are mutually welded. Seat thrust to a ball is created by cylindrical pressing springs at low pressure and it is increased by working medium pressure in pipeline at high pressure. The ball valves are supplied in BB design (Block and Bleed) or DBB design (Double Block and Bleed) that means it is possible to empty a body cavity in fully closed or open positions.

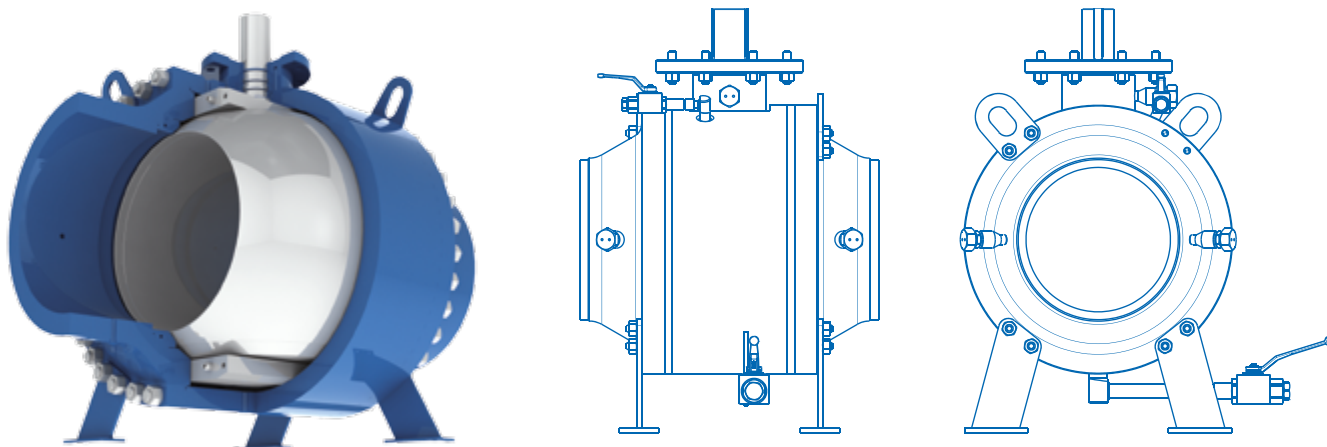
PRODUCTION RANGE:

CLASS PN		150 16, 25		300 40, 50		400 63		600 100		900 160		1500 250	
NPS	DN	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL
2	50												
3	80												
4	100												
6	150												
8	200												
10	250												
12	300												
14	350												
16	400												
18	450												
20	500												
22	550												
24	600												
26	650												
28	700												
30	750												
32	800												
34	850												
36	900												
40	1000												
42	1050												
44	1100												
48	1200												
56	1400												

 – butt welded ends  – flanged ends

K 83 TB

Bolted body ball valves



BASIC TECHNICAL DATA:

gas, petroleum, acid working medium, water
flanged or welded connection
range of working temperatures from -60 °C to +200 °C
CLASS 150 – 2500, NPS 2" – 56"

OPERATION:

without control
hand wheel
electrical actuator
hydro-pneumatic actuator
electro-hydraulic actuator
pneumatic actuator
hydraulic actuator

DESCRIPTION:

Ball valve body is made of three forgings that are mutually joined with bolts. Seat thrust to a ball is created by cylindrical pressing springs at low pressure and it is increased by working medium pressure in pipeline at high pressure. The ball valves are delivered in BB design (Block and Bleed) or DBB design (Double Block and Bleed) that means it is possible to empty a body cavity in fully closed or open position.

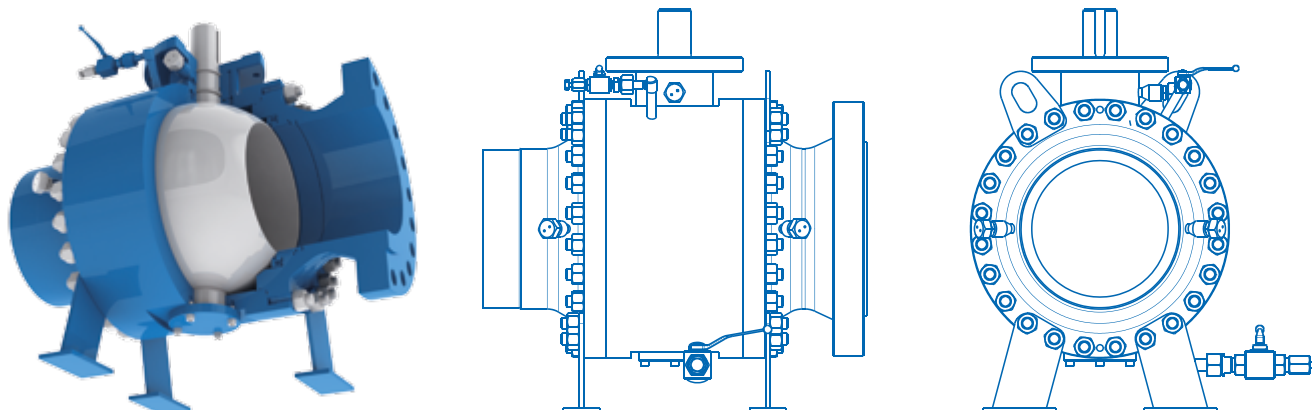
PRODUCTION RANGE:

CLASS PN		150 16, 25		300 40, 50		400 63		600 100		900 160		1500 250		2500 420	
NPS	DN	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL
2	50														
3	80														
4	100														
6	150														
8	200														
10	250														
12	300														
14	350														
16	400														
18	450														
20	500														
22	550														
24	600														
26	650														
28	700														
30	750														
32	800														
34	850														
36	900														
40	1000														
42	1050														
44	1100														
48	1200														
56	1400														

 – butt welded ends  – flanged ends

K 89

Metal seated ball valves



BASIC TECHNICAL DATA:

media with high temperatures and abrasive media
 flanged or welded connection
 range of working temperatures from -50 °C to +550 °C
 CLASS 150 – 900, NPS 2" – 20"

OPERATION:

hand wheel with gear box
 electrical actuator
 pneumatic actuator

DESCRIPTION:

Ball valve body is made of three forgings that are mutually joined with bolts. Ball valve is applied for full opening or closing of working medium flow. Metal seated ball valve is equipped with an anti-blow stem and antistatic device. It has got a stem extension that decreases the temperature affecting an actuator. Special "O" rings are substituted with graphite glands at the temperatures above +260 °C. Based on required operating temperature a ceramic layer of seats is chosen and ball is coated with high-speed hot spraying HVOF in accordance with required working temperature. Ball valve is also equipped with drainage and venting ended with a small ball valve or gate valve, outlet of which is located in a distance from external ball valve shell with respect to ball valve insulation expected according to the working temperature.

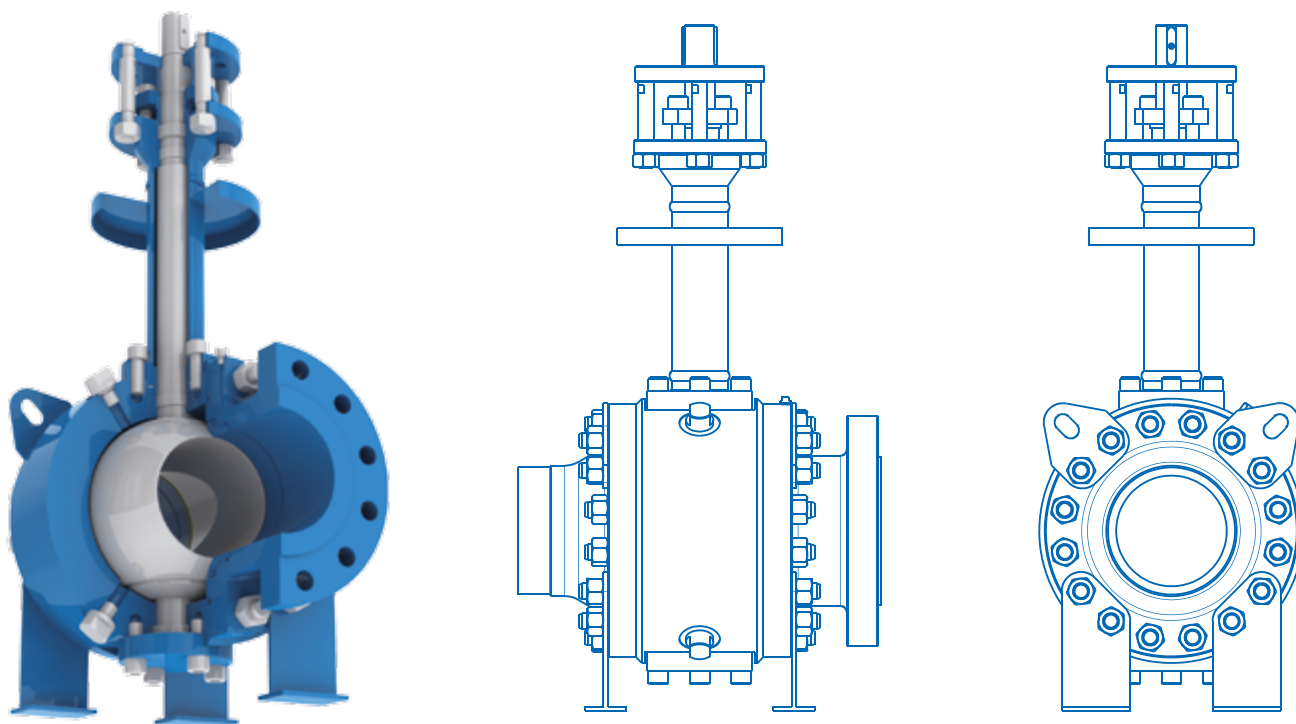
PRODUCTION RANGE:

CLASS PN		150 16, 25		300 40, 50		400 63		600 100	
NPS	DN	BW	FL	BW	FL	BW	FL	BW	FL
2	50								
3	80								
4	100								
6	150								
8	200								
10	250								
12	300								
14	350								
16	400								
18	450								
20	500								

 – butt welded ends  – flanged ends

K 88

Cryogenic ball valves



BASIC TECHNICAL DATA:

liquefied gas media
flanged or welded connection
range of working temperatures from
-50 °C to -196 °C
CLASS 150 – 900, NPS 2" – 30"

OPERATION:

hand wheel with gear box
electrical actuator
pneumatic actuator

DESCRIPTION:

Ball valve is used for full opening or closing of working medium flow. Cryogenic ball valve body is made from three forgings joined mutually with bolts. The ball valves meet standard requirements for automatic pressure release from body cavity and they are equipped with an anti-blow stem and antistatic device. It has an extension piece that is designed as a pressure vessel with high ability to carry heat away, the extension piece has got a collar welded on its upper part. Inner extension piece of stem is supported on sliding and guiding cases, its sealing is performed in upper part of controlling pin.

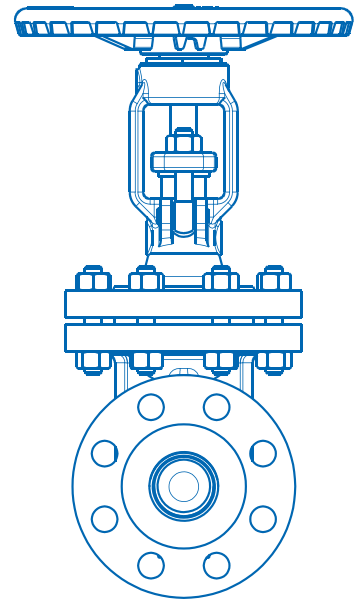
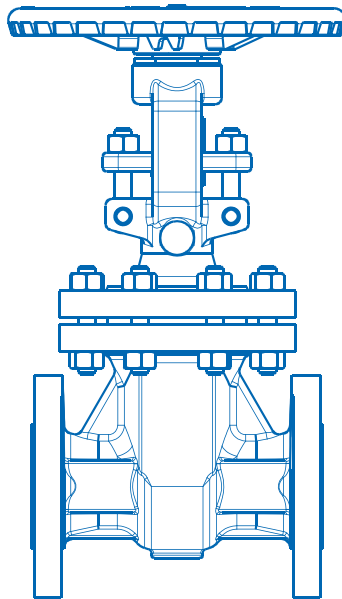
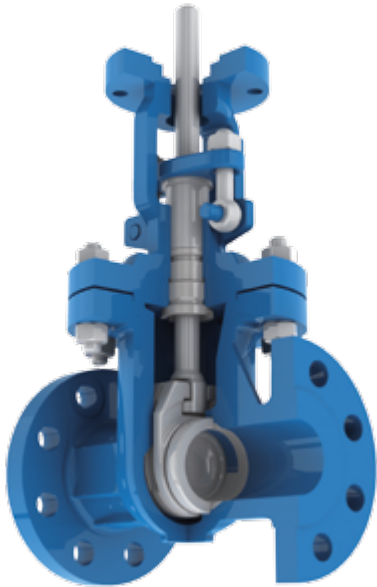
PRODUCTION RANGE:

CLASS PN		150 16, 25		300 40, 50		400 63		600 100		900 160	
NPS	DN	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL
2	50										
3	80										
4	100										
6	150										
8	200										
10	250										
12	300										
14	350										
16	400										
18	450										
20	500										
22	550										
24	600										
26	650										
28	700										
30	750										

 – butt welded ends  – flanged ends

C 09.2

Gate valves



BASIC TECHNICAL DATA:

water, saturated steam, air, oil, crude
petroleum and petroleum products,
nonaggressive fluids
flanged or welded connection
range of working temperatures from
-60 °C to +650 °C
CLASS 150 – 1500, NPS 2" – 56"

OPERATION:

hand wheel
hand wheel with gear box
electrical actuator

DESCRIPTION:

Gate valve is a yoke type with butt-weld or flanged ends, with unreduced flow and flexible wedge. Body, bonnet and yoke are cast; a wedge can be forged or cast. Seats are welded in gate valve body and hard alloy overlays are applied on seat sealing surface. Gate valve is equipped with a rising non-turning stem and bolted body-bonnet joint.

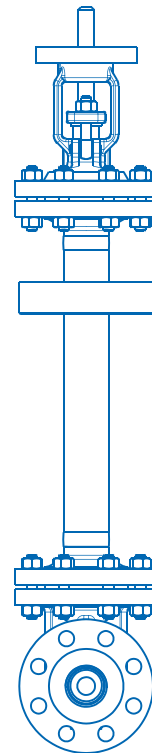
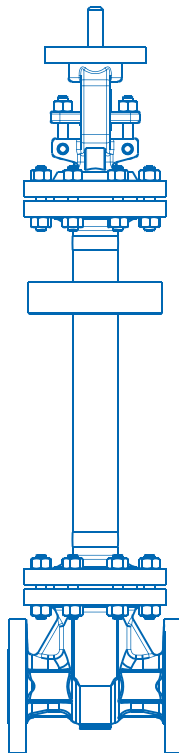
PRODUCTION RANGE:

CLASS	150		300		600		900		1500	
NPS	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL
2										
2,5										
3										
4										
6										
8										
10										
12										
14										
16										
18										
20										
24										
28										
30										
32										
36										
40										
42										
48										
54										
56										

– butt welded ends – flanged ends

C 09.2

Cryogenic gate valves



BASIC TECHNICAL DATA:

liquefied gas and LNG
flanged or welded connection
range of working temperatures from
-196 °C to +538 °C
CLASS 150 – 1500, NPS 2" – 12"

OPERATION:

hand wheel
hand wheel with gearing
electrical actuator

DESCRIPTION:

Gate valve is one-way, yoke type with extension pieces with butt-weld or flanged ends, with unreduced flow. A body, yoke and bonnet are cast, an extension piece is welded, and a wedge can be forged or cast. Seats are welded in gate valve body and may be supplied with overlay. Gate valve is equipped with a non-turning stem and bolted body-bonnet joint.

PRODUCTION RANGE:

CLASS	150		300		600		900		1500	
NPS	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL
2										
2,5										
3										
4										
6										
8										
10										
12										



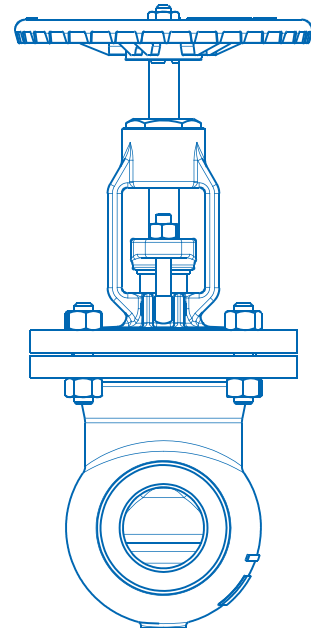
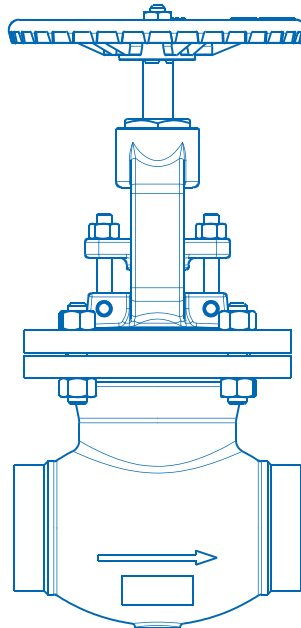
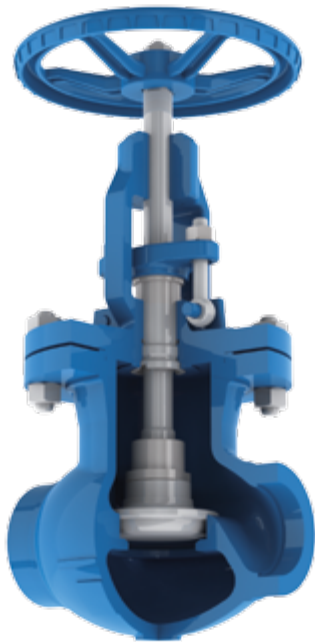
– butt welded ends



– flanged ends

C 09.1

Globe valves



BASIC TECHNICAL DATA:

water, saturated steam, oil, crude
petroleum and petroleum products,
nonaggressive fluids
flanged or welded connection
range of working temperatures from
-60 °C to +650 °C
CLASS 150 – 600, NPS 2" – 14"

OPERATION:

hand wheel
hand wheel with gearing
electrical actuator

DESCRIPTION:

Valve body is made of cast steel with flanged or butt-weld ends. A stem with external threads is either rising turning or rising non-turning. A stem nut is supported in a head of yoke bonnet tightly or on rolling bearings

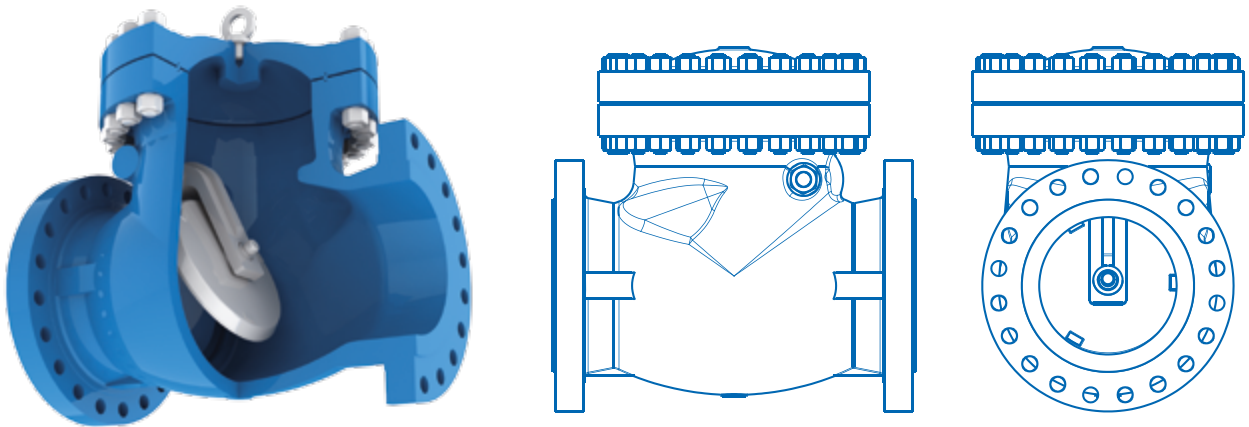
PRODUCTION RANGE:

NPS	CLASS					
	150		300		600	
	BW	FL	BW	FL	BW	FL
2						
2,5						
3						
4						
6						
8						
10						
12						
14						

– butt welded ends
 – flanged ends

C 09

Swing check valves



BASIC TECHNICAL DATA:

water, saturated steam, oil, crude
petroleum and petroleum products,
nonaggressive fluids
flanged or welded connection
range of working temperatures from
-46 °C to +650 °C
CLASS 150 – 600, NPS 2" – 24"

DESCRIPTION:

Swing check valve body is made of cast steel with flanged or butt-welded ends. A seat is welded in the body; a plate is supported in an arm turning in a special suspension.

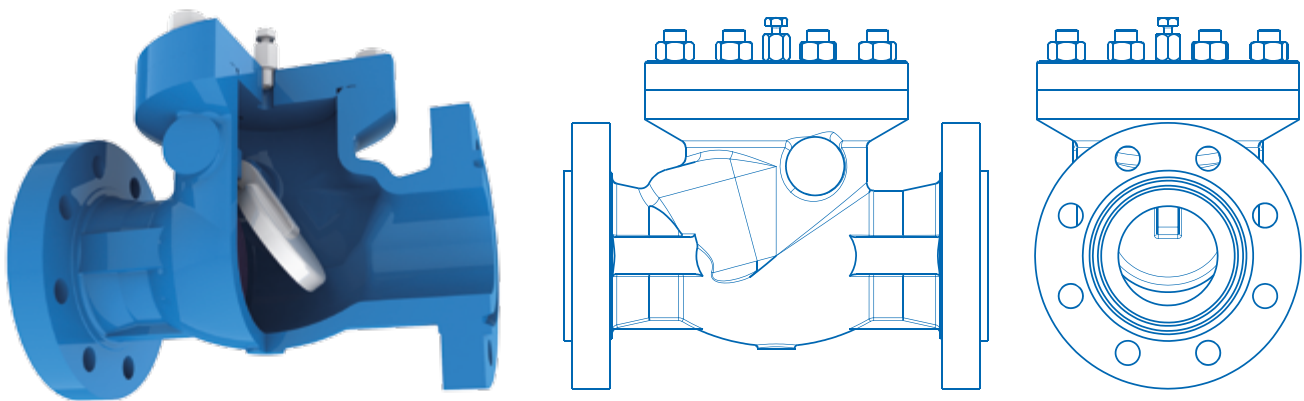
PRODUCTION RANGE:

NPS	CLASS					
	150		300		600	
	BW	FL	BW	FL	BW	FL
2						
2,5						
3						
4						
6						
8						
10						
12						
14						
16						
18						
20						
24						

– butt welded ends
 – flanged ends

C 09.4

Swing check valves according to API 6D



BASIC TECHNICAL DATA:

water, steam, oil, crude petroleum
and petroleum products, nonag-
gressive fluids
flanged connection
range of working temperatures from
-46 °C to +650 °C
CLASS 150 – 1500, NPS 2" – 12"

DESCRIPTION:

Swing check valve body is made of cast steel with flanged ends. A seat is screwed or welded in the body, or it is integrated into the body, a disc is supported in an arm turning in the special suspension. Flanges are integral parts of valve body.

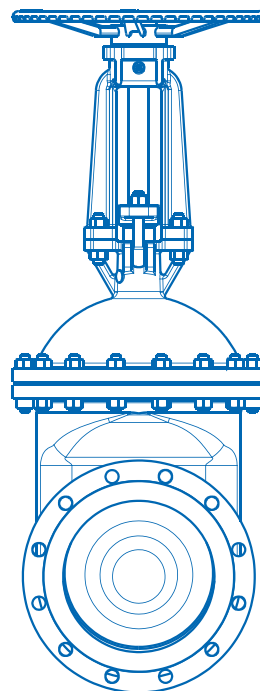
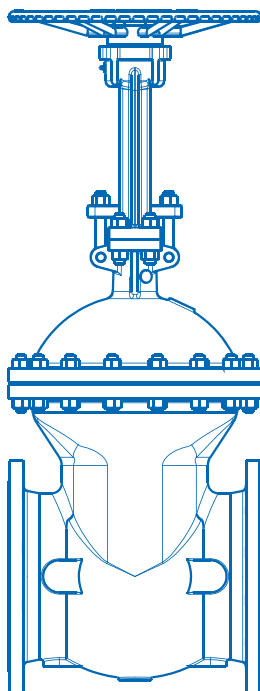
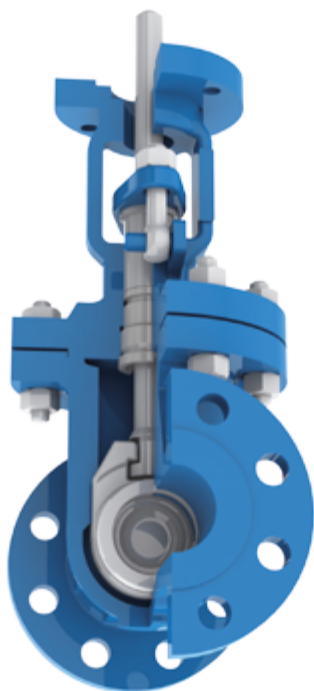
PRODUCTION RANGE:

NPS	CLASS				
	150	300	600	900	1500
	FL	FL	FL	FL	FL
2					
3					
4					
6					
8					
10					
12					

 – flanged ends

S 38

Gate valves



BASIC TECHNICAL DATA:

water, steam, air, oil, petroleum and petroleum products,
nonaggressive fluids
flanged or welded connection
range of working temperatures from -60 °C to +550 °C
PN 16 - 100, DN 50 - 1000

OPERATION:

hand wheel with gearing
electric actuator
remote control

DESCRIPTION:

Gate valve body is made of cast steel with flanged or butt-welded ends. A body-bonnet joint is flanged.

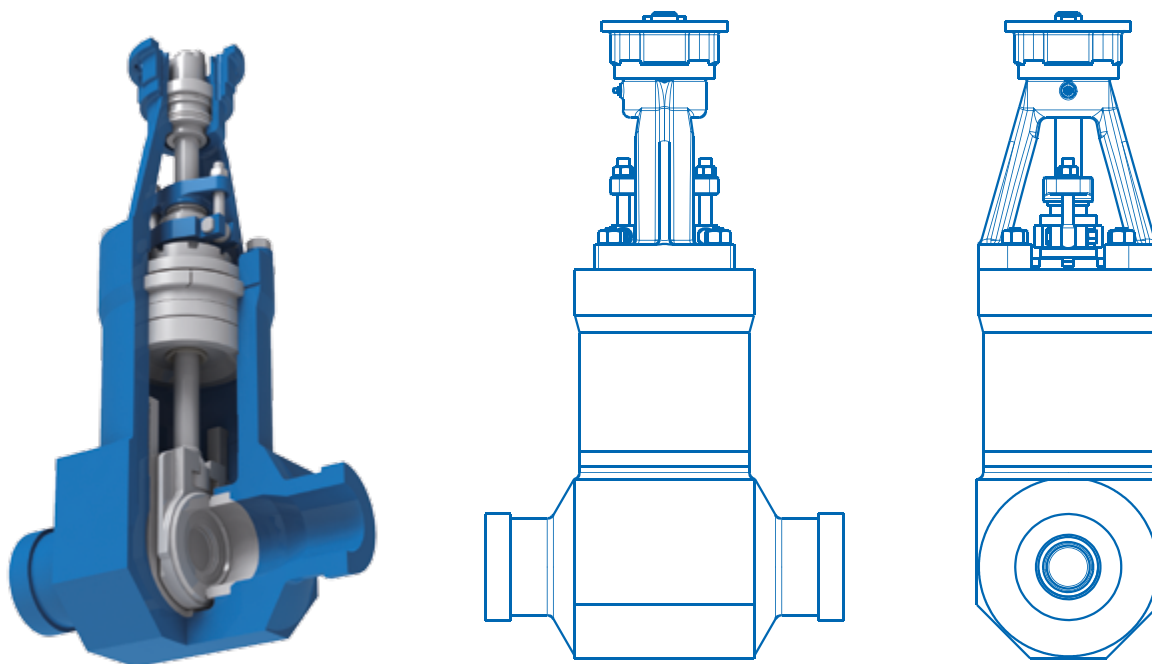
PRODUCTION RANGE:

DN	PN									
	16		25		40		63		100	
	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL
50										
65										
80										
100										
125										
150										
200										
250										
300										
350										
400										
450										
500										
600										
700										
800										
1000										

– butt welded ends
 – flanged ends

S 42

High-pressure gate valves with pressure-seal bonnet



BASIC TECHNICAL DATA:

water, steam, air, nonaggressive fluids
flanged or welded connection
range of working temperatures from $-20\text{ }^{\circ}\text{C}$ to $+575\text{ }^{\circ}\text{C}$
PN 160–400, DN 65/50–400/300

OPERATION:

hand wheel
electrical actuator
remote control

DESCRIPTION:

Gate valve body is made of welded forged pieces. Gate valve wedge is flexible. Body cavity is sealed with pressure-seal bonnet with a graphite ring. The pressure of working medium acting on the bonnet is used for sealing.

PRODUCTION RANGE:

DN	PN							
	160		250		320		400	
	BW	FL	BW	FL	BW	FL	BW	FL
65/50								
80/75								
100/75								
125/110								
150/110								
175/150								
200/150								
250/200								
250/225								
275/225								
300/225								
350/275								
400/300								



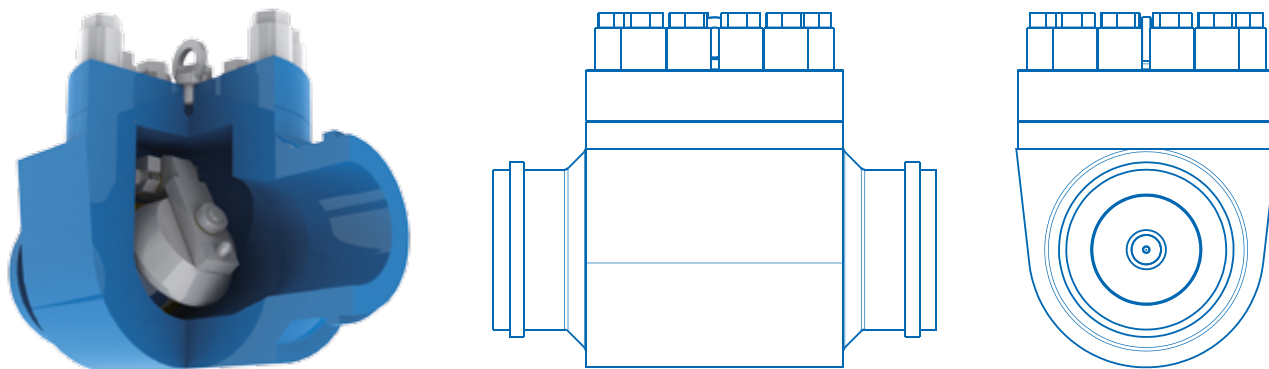
– butt welded ends



– flanged ends

L 10 127

Swing check valves



BASIC TECHNICAL DATA:

water, steam, air, nonaggressive fluids
welded connection
range of working temperatures from $-20\text{ }^{\circ}\text{C}$ to $+575\text{ }^{\circ}\text{C}$
PN 160–400, DN 65/50–300/225

DESCRIPTION:

Swing check valve body is made of forged steel with butt-weld ends.
Swing check valve disc is hung in special turning pin; seat is welded in body. Sealing of bonnet joint is provided with spiral graphite packing.

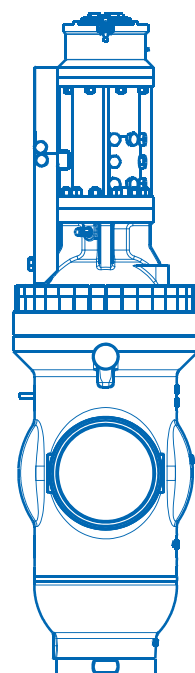
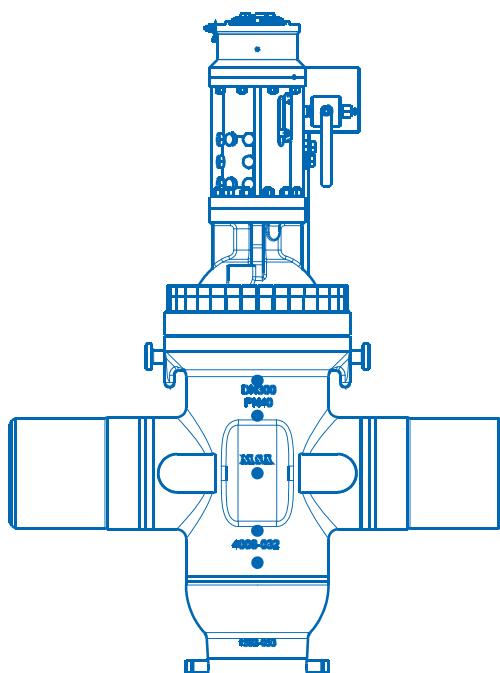
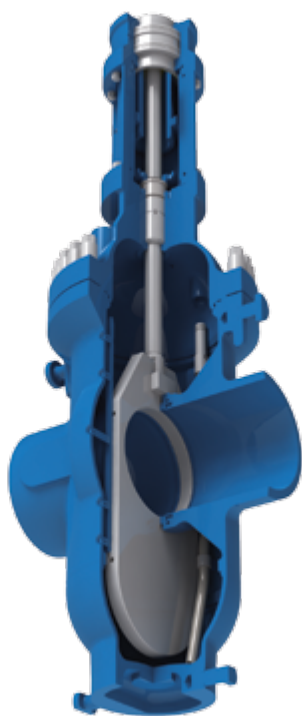
PRODUCTION RANGE:

DN	PN			
	160	250	320	400
	BW	BW	BW	BW
65/50				
80/75				
100/75				
125/40				
150/110				
200/150				
250/200				
300/225				

 – butt welded ends

S 85.1

Slab gate valves



BASIC TECHNICAL DATA:

petroleum and petroleum products
flanged or welded connection
range of working temperatures from $-60\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$
PN 16–160, DN 300–1200

OPERATION:

electrical actuator with gearing
combination of electric actuator with
emergency pneumatic actuator

DESCRIPTION:

The whole body is welded from castings of a bottom, body and pup pieces that are made of wrought material. A closing device is a parallel slab with flow opening in upper part.

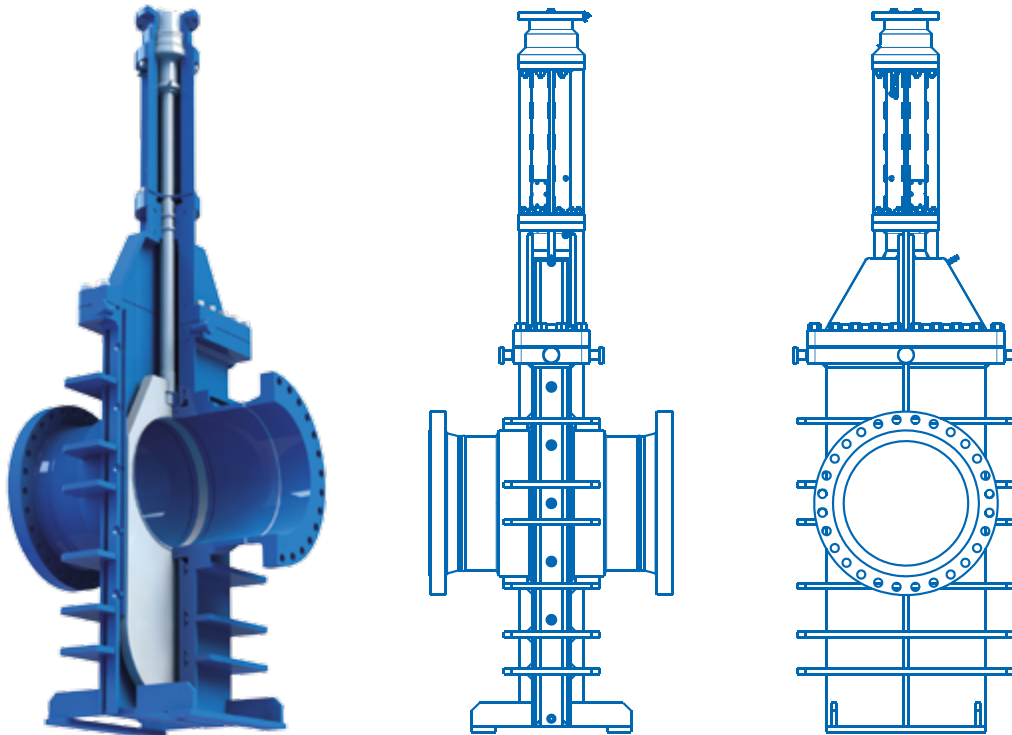
PRODUCTION RANGE:

CLASS PN		150 16, 25		300 40, 50		400 63		600 80, 100		900 125, 160	
NPS	DN	BW	FL	BW	FL	BW	FL	BW	FL	BW	FL
12	300										
16	400										
20	500										
24	600										
28	700										
32	800										
40	1000										
42	1050										
48	1200										

 – butt welded ends  – flanged ends

S 85.2

Welded body slab gate valves



BASIC TECHNICAL DATA:

petroleum and petroleum products
flanged or welded connection
range of working temperatures from -60°C to $+80^{\circ}\text{C}$
CLASS 150–300, NPS 12"–48"

OPERATION:

hand wheel with gearing
electrical actuator with gearing

DESCRIPTION:

Gate valve is welded from steel metal sheets and is manufactured with butt-weld or flanged ends. A stem with external thread is turning, rising. Closing device is a parallel slab with flow opening in upper part or in lower part according to the customer's requirements.

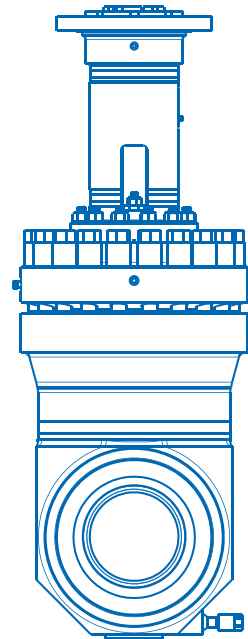
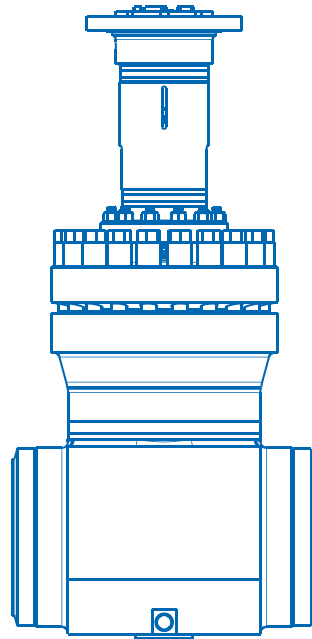
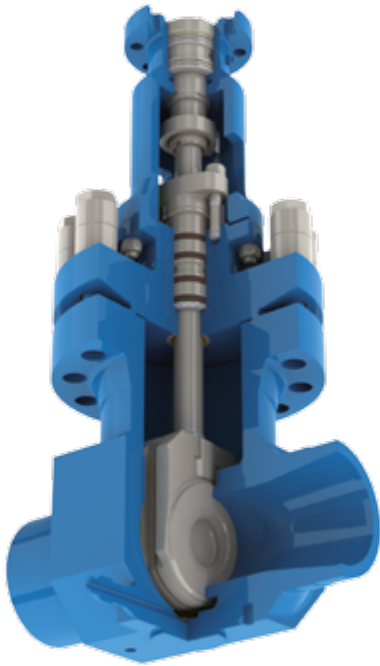
PRODUCTION RANGE:

CLASS		150		300	
NPS		BW	FL	BW	FL
12	300				
16	400				
20	500				
24	600				
28	700				
32	800				
40	1000				
42	1050				
48	1200				

– butt welded ends
 – flanged ends

A 00

Gate valves



BASIC TECHNICAL DATA:

water, steam, air, gas, oil, nonaggressive fluids
welded connection
for working temperatures up to +350 °C
working pressure up to 20,0 MPa
range of type dimensions DN 50–800
material

- carbon steel
- austenitic steel

OPERATION:

hand wheel
electric actuator
remote control

DESCRIPTION:

Gate valve body is made of forged steel with butt-weld ends. A body-bonnet joint is flanged with integral graphite sealing. A flexible one-piece wedge is used for sizes up to DN 150 and a double disc wedge is used for DN 200 and above.

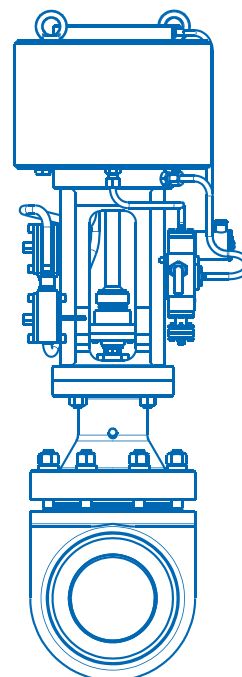
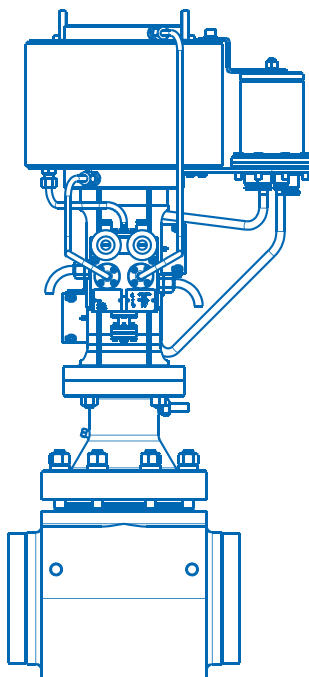
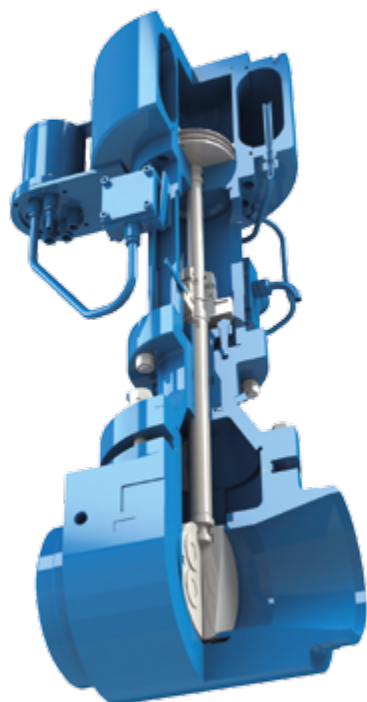
PRODUCTION RANGE:

PN DN	040 BW	160 BW	250 BW
50			
65			
80			
100			
80/100			
125			
100/125			
150			
125/150			
200			
200/225			
250			
300			
300/350			
350			
400			
500			
600			
800			

 – butt welded ends

A 01

Quick-acting gate valves with electrical actuator



BASIC TECHNICAL DATA:

water, steam, air, gas, oil, nonaggressive fluids
welded connection
for working temperatures up to +350 °C
working pressure up to 20,0 MPa
range of type dimensions DN 50–300
actuating time ≤ 10 s
material – carbon steel
 – austenitic steel

OPERATION:

electric actuator

DESCRIPTION:

Gate valve body is made of forged steel with butt-weld ends. A body-bonnet joint is flanged with integral graphite sealing. A flexible one-piece wedge is used for sizes up to DN 150 and a double disc wedge is used for DN 200 and above.

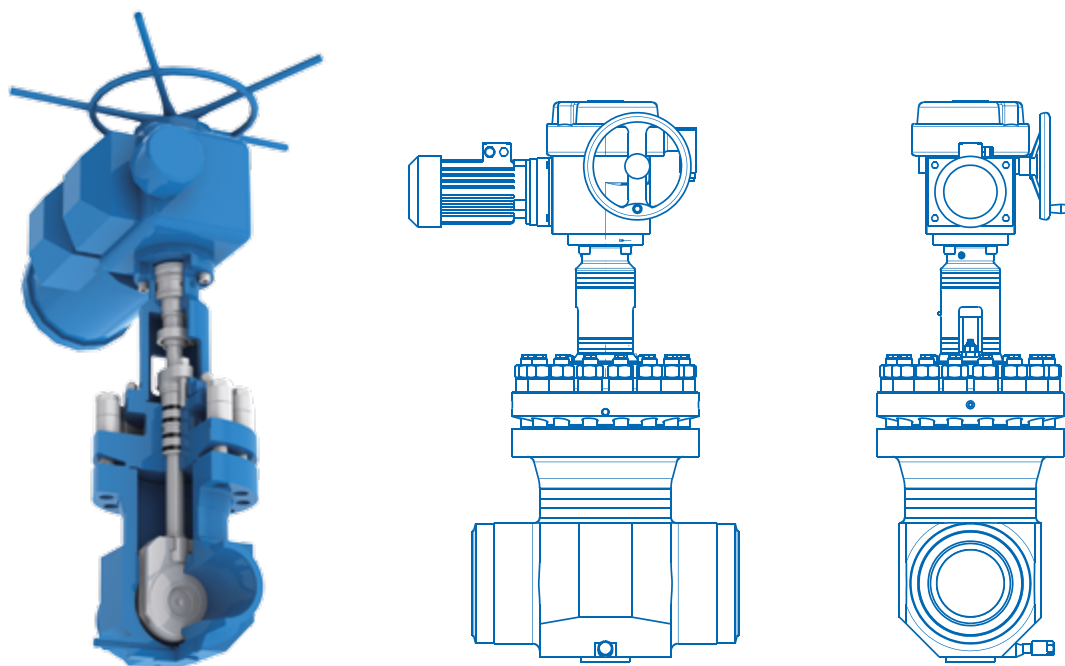
PRODUCTION RANGE:

PN	040	160	250
DN	BW	BW	BW
50			
65			
80			
100			
80/100			
125			
100/125			
150			
125/150			
200			
200/225			
250			
300			

 – butt welded ends

A 01

Quick-acting gate valves with pneumatic actuator



BASIC TECHNICAL DATA:

water, steam, air, gas, oil, nonaggressive fluids
welded connection
for working temperatures up to +300 °C
working pressure up to 20,0 MPa
range of type dimensions DN 100–600
actuating time ≤ 10 s
operating pressure of air 4,5 MPa $\pm$ 0,5 MPa
material

- carbon steel
- austenitic steel

OPERATION:

pneumatic actuator – type air-air

DESCRIPTION:

Gate valve body is made of forged steel with butt-weld ends. A steel bonnet is also forged; a flanged joint of body-bonnet is equipped with special sealing.

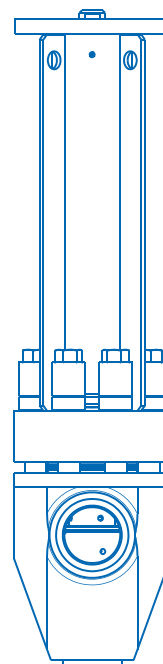
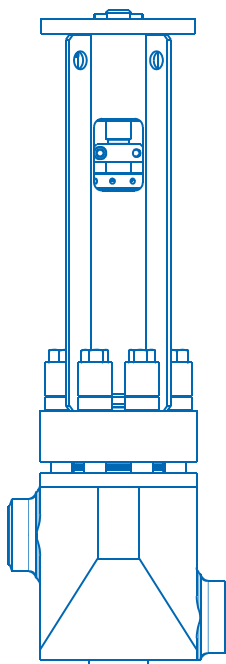
PRODUCTION RANGE:

PN	040	100	160	250
DN	BW	BW	BW	BW
100				
150				
200				
250				
300				
400				
450				
500				
600				

 – butt welded ends

A 10, A 11

Shut-off bellows-type globe valves, regulating bellows-type globe valves



BASIC TECHNICAL DATA:

water, steam, air, gas, oil, nonaggressive fluids
welded connection
for working temperatures up to +350 °C
working pressure up to 20,0 MPa
range of type dimensions DN 50–150
material

- carbon steel
- austenitic steel

OPERATION:

hand wheel
electrical actuator
remote control

DESCRIPTION:

Globe valve body is made of forged steel with butt-weld ends. A body-bonnet joint is flanged with integral graphite sealing. Stem sealing against the external environment is provided by bellows.

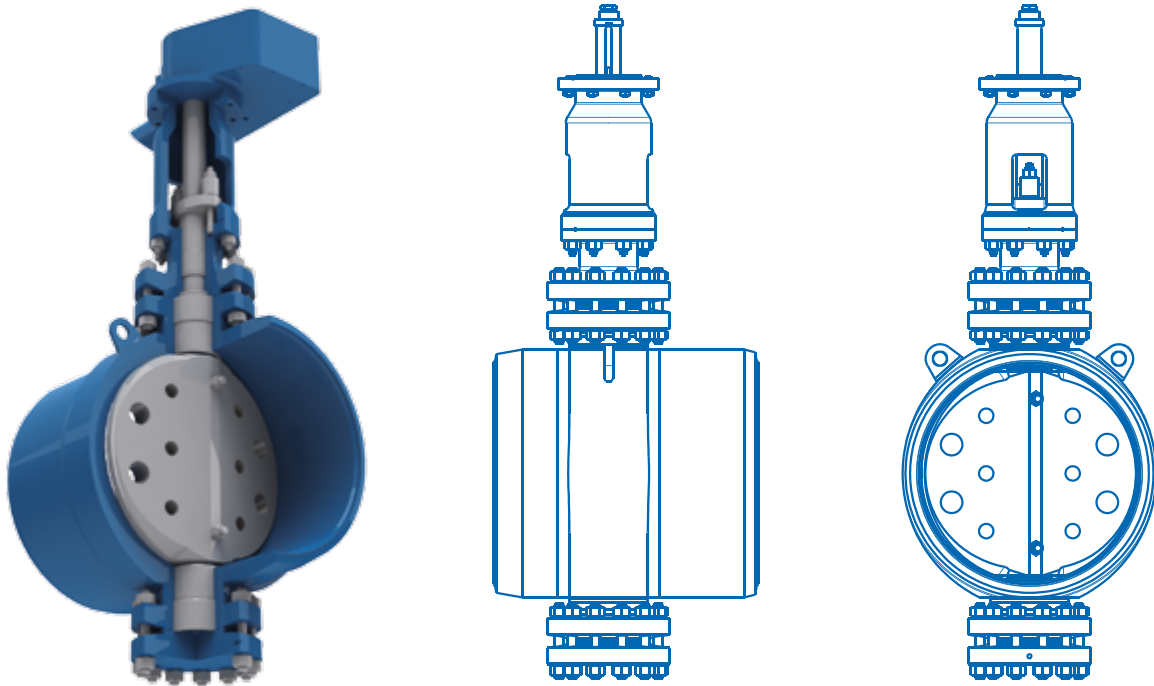
PRODUCTION RANGE:

PN	040	160	250
DN	BW	BW	BW
50			
65			
80			
100			
80/100			
125			
100/125			
150			
125/150			

 – butt welded ends

A 49

Regulating butterfly valves



BASIC TECHNICAL DATA:

water, nonaggressive fluids
welded connection
for working temperatures up to +300 °C
working pressure up to 11,0 MPa
range of type dimensions to DN 800
material – carbon steel + austenitic steel

OPERATION:

electrical actuator (direct or remote)

DESCRIPTION:

Regulating valve body is made of forged steel with butt-weld ends and inner austenitic overlay. A valve disc has got special design for regulation.

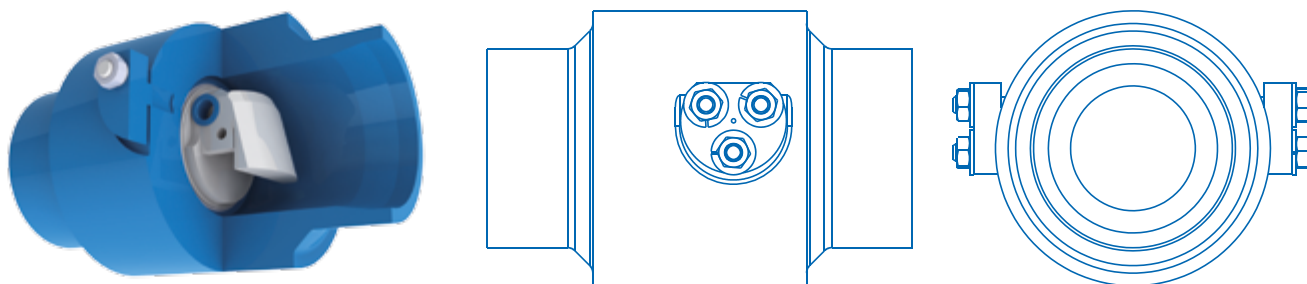
PRODUCTION RANGE:

PN	160
DN	BW
800	

 – butt welded ends

A 41

Non-slam swing check valves



BASIC TECHNICAL DATA:

water, steam, air, gas, oil, nonaggressive fluids
welded connection
for working temperatures up to +350 °C
working pressure up to 20,0 MPa
range of type dimensions DN 50–800
material

- carbon steel
- austenitic steel

OPERATION:

self-acting

DESCRIPTION:

Swing check valve body is made of forged steel with butt-weld or flanged ends. MSA, a.s. also manufactures swing check valves of special steel SAF 2507 with high corrosive resistance to working medium (sea water). A valve disc turns on pins. Non-slam swing check valve has minimal dimensions and weight in comparison with conventional design of swing check valve.

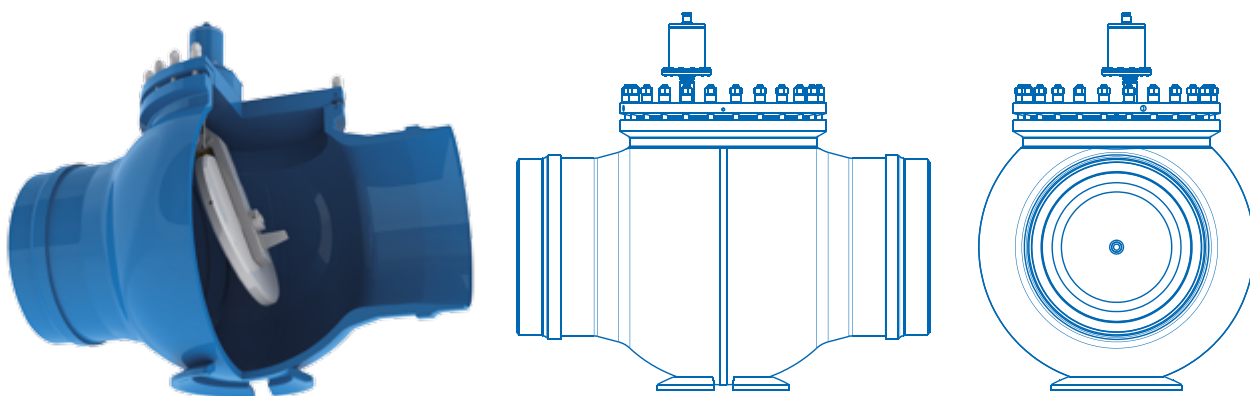
PRODUCTION RANGE:

PN DN	040 BW	160 BW	250 BW
50			
65			
80			
100			
80/100			
125			
100/125			
150			
125/150			
200			
200/225			
250			
300			
350			
300/350			
400			
500			
600			
800			

 – butt welded ends

A 42

Swing check valves with remote indication of stop device position



BASIC TECHNICAL DATA:

water, steam, air, gas, oil, nonaggressive fluids
welded connection
for working temperatures up to +350 °C
working pressure up to 20,0 MPa
range of type dimensions DN 100–600
material

- carbon steel
- austenitic steel

OPERATION:

self-acting

DESCRIPTION:

Swing check valve body is made of forged steel with butt-weld ends. A disc hangs in turning pin that is fixed above the flow axis. A body-bonnet joint is flanged with graphite sealing. Possible repair of valve does not require its removal from the pipeline. The position indication of disc is located on the valve bonnet and a sensor is controlled from the disc.

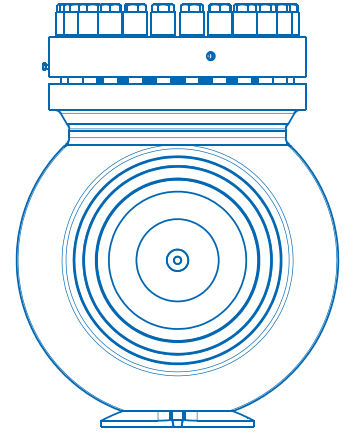
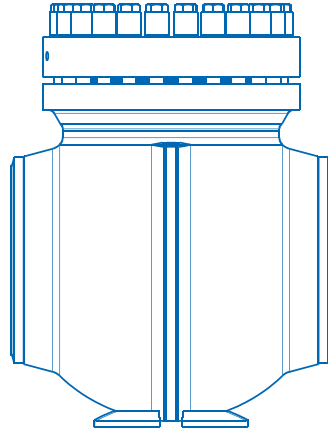
PRODUCTION RANGE:

PN DN	040 BW	160 BW	250 BW
100			
80/100			
125			
100/125			
150			
125/150			
200			
200/225			
250			
300			
300/350			
400			
450			
500			
600			

 – butt welded ends

C 23

Swing check valves



BASIC TECHNICAL DATA:

water, steam, air, gas, oil, nonaggressive fluids
welded connection
for working temperatures up to +350 °C
working pressure up to 20,0 MPa
range of type dimensions DN 50–600
material

- carbon steel
- austenitic steel

OPERATION:

self-acting

DESCRIPTION:

Swing check valve body is made of forged steel with butt-weld ends. A disc hangs in turning pin that is fixed above the flow axis. A body-bonnet joint is flanged. Possible repair of valve does not require its removal from the pipeline.

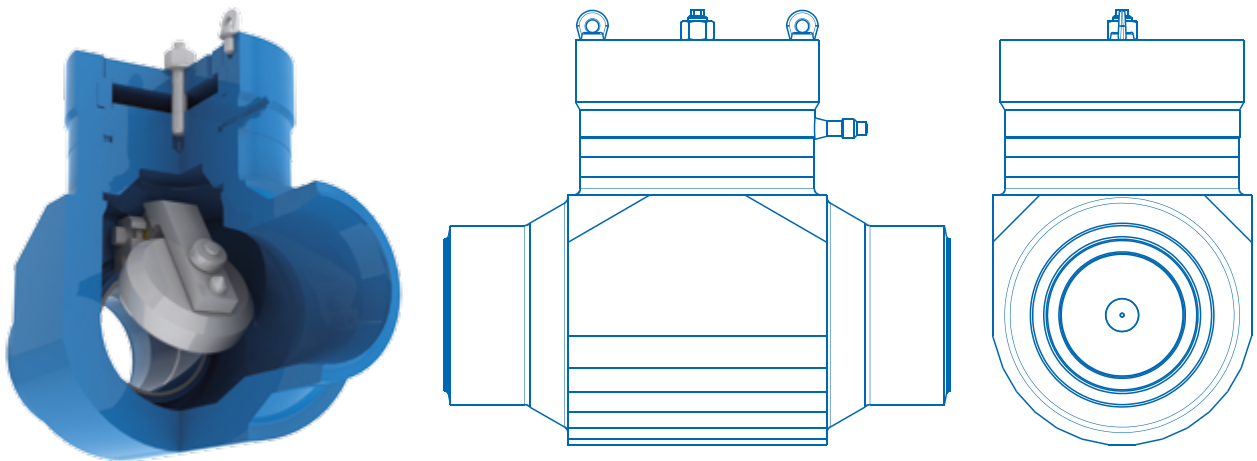
PRODUCTION RANGE:

PN DN	040 BW	160 BW	250 BW
50			
65			
80			
100			
80/100			
125			
100/125			
150			
125/150			
200			
200/225			
250			
300			
350			
300/350			
400			
500			
600			

 – butt welded ends

A 44

Swing check valves with pressure seal bonnet



BASIC TECHNICAL DATA:

water, steam, air, gas, oil, nonaggressive fluids
welded connection
for working temperatures up to +350 °C
working pressure up to 20,0 MPa
range of type dimensions DN 100–300
material

- carbon steel
- austenitic steel

OPERATION:

self-acting

DESCRIPTION:

Swing check valve body is made of forged steel with butt-weld ends. A disc hangs in turning pin that is fixed above the flow axis. A bonnet is self-sealing with graphite sealing. Possible repair of valve does not require its removal from the pipeline.

PRODUCTION RANGE:

PN DN	160 BW	250 BW
100		
80/100		
125		
100/125		
150		
125/150		
200		
200/225		
250		
300		

 – butt welded ends

RESEARCH AND DEVELOPMENT

MSA, a.s. puts great emphasis on intensive development of new products to improve continually existing product assortment range. New products are tested at own as well as external testing facilities where valve properties are verified under real operating conditions. All valves are monitored regularly during their service life and obtained knowledge is applied to the development and manufacture of new products.

Attention at research and development activities is focused especially on applying new materials, design strength and rigidity, operating abilities and controllability of valves with respect to service conditions requested.

Aim of designers and technologists MSA, a.s. is valve production of high technical level and reliability, long service life at low production costs and ecologically desirable way of manufacture.

QUALITY INSPECTION

Crucial significance is laid on quality inspection during the whole manufacturing process. It is monitored entirely, includes testing and inspection of particular manufacturing stages from acceptance of all input raw materials and sub-deliveries, through manufacturing in-process inspections of individual valve components and assembly tests up to final pressure testing of finished products.

Quality system of MSA, a.s. is based on strict observance of EN ISO 9001:2008 and API Spec Q1 (Specification D – number 0239) standards. MSA, a.s. has implemented and used the Environmental Management System ČSN EN ISO 14001:2005 for valve research and development as well.

STANDARDS AND CERTIFICATION

Valve research, development and certification are supported by the whole range of technical standards, specifications and certificates according to the requirements of domestic and foreign legislation as well as individual customer's requirements. The general system certification is followed by product and export certificates connected with the requirements of national standards of export countries.

A special group is presented by the certificates connected with nuclear power safety for the application within nuclear power facilities and the certificate connected with the European Union Directives. The valves of MSA, a.s. production are also getting importance with purpose certification when a product is subject to various technical and technological tests at independent organizations.



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