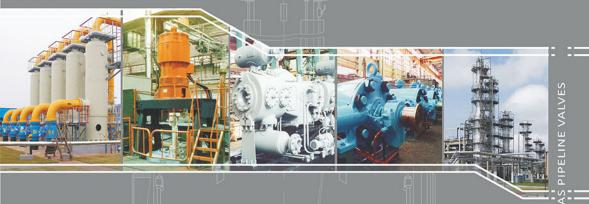


58 Gorkogo Str., Sumy, 40004, Ukraine Phone: +38 0542 77 77 94, 68 69 15, 77 50 00 Fax: +38 0542 22 63 62 sales@frunze.com.ua snpo.ua



Representative office in Kyiv: Phone/Fax: +38 044 280 98 19, 280 98 28 frunze-kiev@ukr.net

Representative office in Russia (Moscow): Phone: +7 495 664 21 73 Fax: +7 495 745 88 31 a.efremov@frunze.msk.ru

Branch office in Turkmenistan (Ashgabat): Phone/Fax: +993 12 36 24 81 frunzeturkm@mail.ru frunzeturkm@rambler.ru

Branch office in the Republic of Azerbaijan (Baku): Phone/Fax: +994 12 447 45 68, 497 12 48 frunze@azeurotel.com

snpo.ua





PJSC "Sumy NPO"



PJSC "Sumy NPO"

PJSC "Sumy NPO", founded in 1896, is now one of the largest machine-building companies in Europe manufacturing equipment for oil, gas and chemical industries.

Unique types of chemical facilities, centrifuges, pumps and valves for gas pipelines, oil – refining equipment and gas-filling stations, drill collars and complex gas treatment plants is far from being a complete list of products manufactured at the company.

Products diversity owes to company's well-developed technical and process basis available. Company includes specialized production areas equipped with the most advanced equipment and modern control facilities. Company has a testing facility which complies with the strictest requirements to performance of acceptance testing of products manufactured.

The concept of quality plays a key role in development process of all manufactured equipment. The high consideration given by management to quality and its control has been one of the main factors to determining the success of our company. All our manufacturing activities are covered by a quality assurance program, which has been audited and qualified in accordance with ISO 9001. All implementation of Q.A. program has been approved and is regularly audited by the international certification company "Bureau Veritas Quality International".

Since 1986 PJSC "Sumy NPO" has occupied firm position in CIS countries market as the main manufacturer of pipeline valves for gas industry. The valves manufactured by the company are based on high technology stamped and welded design with

wear-resistant elastomeric seals which provide reliable valve tightness.

The product is distinguished by high quality, ease and convenience for service. PJSC "Sumy NPO" has been granted from the American Petroleum Institute the authority to use the API 6D monogram on ball and check valves, Certificates of Gosstandard (Russia) Conformity.

Traditional Customers of pipeline valves are the largest oil and gas companies: JSC "Gazprom", JSC "Surgutneftegaz", JSC "Rosneft", NJSC "Neftegaz of Ukraine", SC "Uztransgaz", SC "Turkmengaz", NC "Kazmunaygas", JSC "Beltransgaz", "ZEROMAX GmbH", etc.

By now the whole range of valves with pressure of 80, 100 and 160 Bar required for gas mains and compressor stations construction has been mastered.

The product range incorporates:

- Ball valves DN 50 1400;
- Check valves DN 50 1000:
- Convex strainers DN 200 1000.

PJSC "Sumy NPO" also produces other types of valves, namely:

- with flanged end connection completed with counter flanges, fasteners and sealing parts;
- for aggressive natural gas containing hydrogen sulfide;
- with electric actuators of different Companies upon Customer's request;
- with valve emergency shut off automatic device.





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Ball Valves DN 50...150 PN 80, 100

Designed for operation as shut-off devices in pipelines transporting non-aggressive natural gas and other non-aggressive media at the temperature ranged -60°C to +80°C. Tightness class A per GOST 9544.

Seat seals are made of elastomeric and composite materials. Welded end connection (flanged is possible).

Climatic version is for areas with temperate and cold climate (-60°C thru +45°C).

Ball valves are available with a variety of operator options: manual, pneumatic and pneumatic-and-hydraulic.

Over-ground and underground installation.

Manually operated ball valves can be installed in any position, and pneumatically and pneumatically and hydraulically operated ball valves are installed in horizontal pipelines with actuator facing upward.

The average service life before overhaul is no more than 40 years.

The Company reserves the right to make design changes to improve it, while minor changes may not be shown in the Catalog.

Design Features:

- Valve is a stamped two-piece, split body; the design enables to reduce gas escaping into the environment.
- Closure member is sealed with a high wear/erosion resistant elastomeric material.
- Both seats are tightened to the ball ensuring a high leakproof closure member.
- "Trunnion mounted ball" with self-lubricating bearings made of metal-fluoroplastic that makes easy valves control.
- Pneumatically actuated ball valves are furnished with manual overrides.
- Ball valves with pneumatic-and-hydraulic actuator are furnished with hand pump.
- Liquid damper is used in pneumatic actuator.
- Ball valves control units have integral terminal boxes, limit switches, and they do not require additional piping.
- Control voltage is 24V, 110V and 220V.
- Ball valves can be furnished with electric actuators.
- Ball valves for underground installation have corrosionresistant polymer coating.

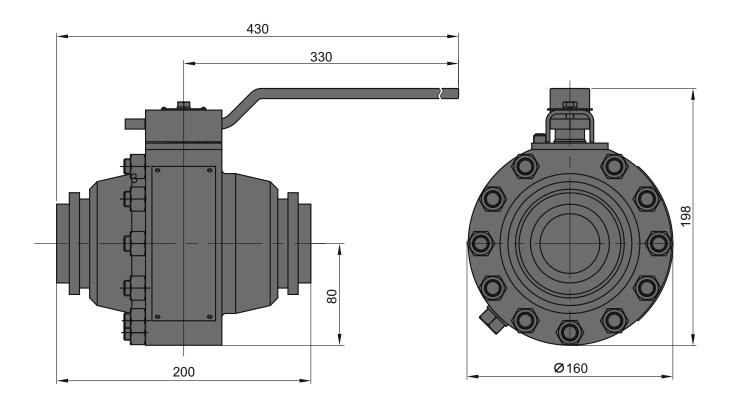








Ball Valve DN 50 PN 100 with Manual Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Body

Actuator type

Connection

KSh-50-100-R-NU-UKhL1-Pr A.1.2750.202.301.00

50 10.0

manual

welded end (WE)*

Material of main parts

steel 10Γ2, zinc chromating 15 μ

steel 10 Γ 2, HCP 25 μ steel 38 XA, HCP 21 μ

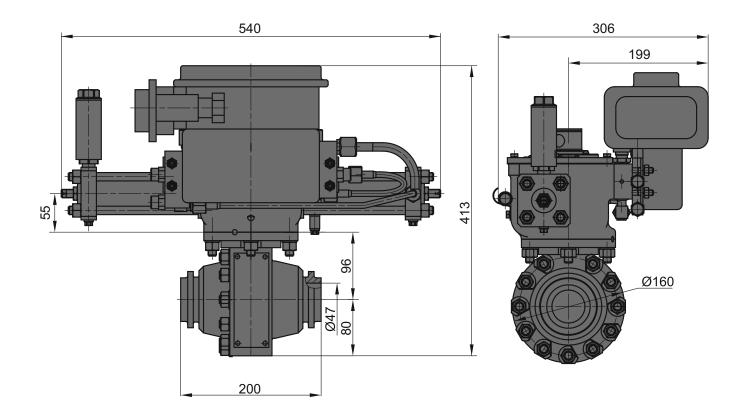
steel 10 Γ 2, zinc chromating 9 μ

Ball Stem Seat (cover)



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 50 PN 100 with Pneumatic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type

Manual override type

Control unit

Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa

Body Ball

Stem

Seat

Control unit voltage

Connection

KSh-50-100-PP-NU-UKhL1-Pr A.1.2750.202.302.00

50

10.0

pneumatic

handle

electro-pneumatic with built-in limit switches dry clean non-aggressive gaseous, meet requirements of the unit, separate source

supply

2.5...10.0

24, 110, 220 V/DC

welded end (WE)*

Material of main parts

steel 10Γ2, zinc chromating 15 μ

steel 10Γ2, HCP 25 μ

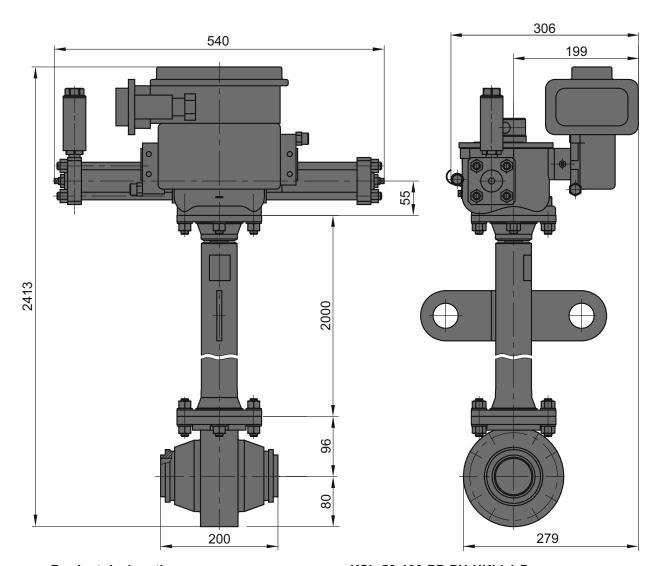
steel 38 XA, HCP 21 µ

steel 10Γ2, zinc chromating 9 μ

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 50 PN 100 with Pneumatic Actuator for Underground Installation



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Control unit Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa Control unit voltage Connection

KSh-50-100-PP-PU-UKhL1-Pr 1.2750.202.360.00

50 10.0

pneumatic

electro-pneumatic with internal end switches dry clean non-aggressive gaseous, meet requirements of the unit, separate source supply

2.5...10.0 24, 110, 220 V/DC welded end (WE)*

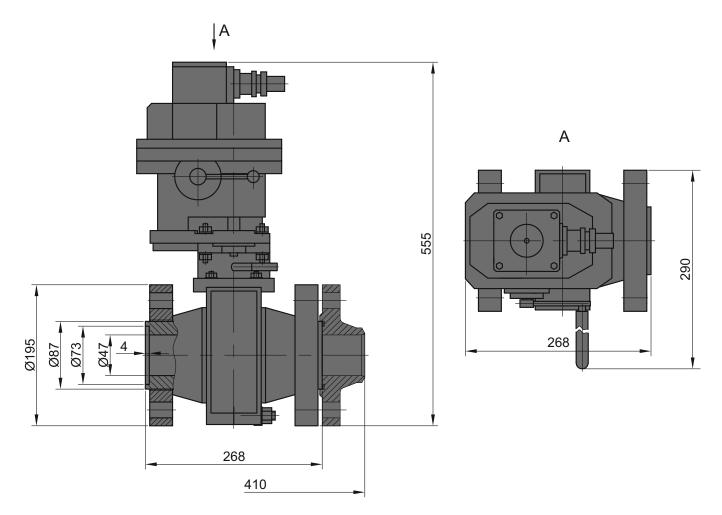
Material of main parts

 $\begin{array}{ccc} \text{Body} & \text{steel } 10 \Gamma 2, \text{zinc chromating } 15 \ \mu \\ \text{Ball} & \text{steel } 10 \Gamma 2, \text{HCP } 25 \ \mu \\ \text{Stem} & \text{steel } 38 \ \text{XA, HCP } 21 \ \mu \\ \text{Seat} & \text{steel } 10 \Gamma 2, \text{zinc chromating } 9 \ \mu \\ \end{array}$



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 50 PN 100 with Electric Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type Power Voltage Connection

KSh-50-100-EP-NU-UKhL1-F-F 1.2750.230.306.00-07

50 10.0

electric 380 V AC

Flanged end, with counter flanges, fasteners and sealing parts (WE)*

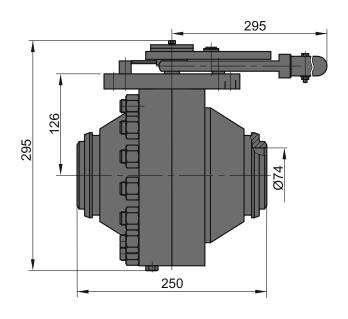
Material of main parts

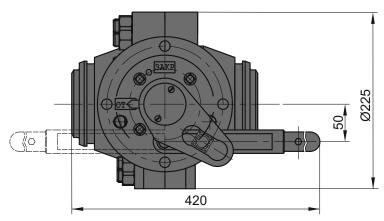
Body	steel 08X18H10T
Ball	steel 20X13
Stem	steel 20X13
Seat	steel 10Γ2
Flange	steel 10Γ2

^{*} Pipe is beveled to the pipe specified by a Customer



Ball Valve DN 80 PN 100 with Manual Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Connection

KSh-80-100-R-NU-UKhL1-Pr 1.2750.201.301.00

80

10.0 manual

welded end (WE)*

Material of main parts

Body steel 09F2C Ball steel 10 Γ 2, HCP 21 μ

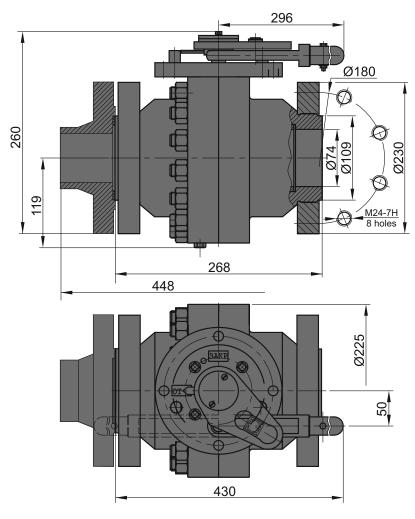
Stem steel 40X, HCP 21 µ

Seat steel 10 Γ 2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 80 PN 100 with Manual Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type Connection

KSh-80-100-R-NU-UKhL1-F-F 1.2750.237.301.00-01

80 10.0

manual

Flanged end, with counter flanges, fasteners and sealing parts (WE)*

Material of main parts

Body steel 10 Γ 2, zinc chromating 24 μ

Ball steel 10 Γ 2, HCP 21 μ Stem steel 40X, HCP 21 μ

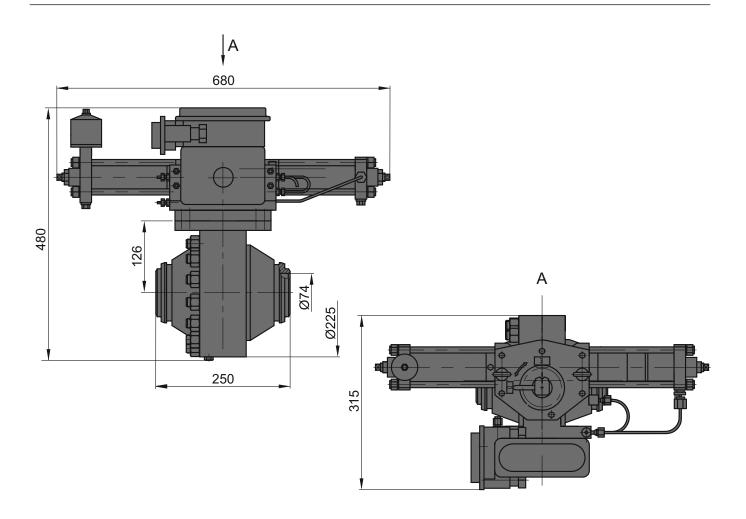
Counter flange steel 10Γ2

Seat steel 10 Γ 2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 80 PN 100 with Pneumatic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit

Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa

Control unit voltage

Connection

KSh-80-100-PP-NU-UKhL1-Pr 1.2750.201.304.00-01

80 10.0

pneumatic

electro-pneumatic with built-in limit switches

non-aggressive gaseous, separate source supply

2.5...10.0

24, 110, 220 V/DC

welded end*

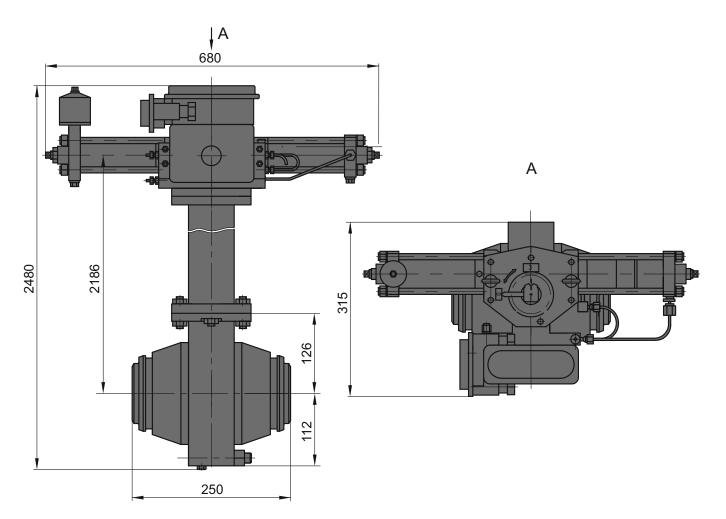
Material of main parts

Body steel 09 Γ 2C Ball steel 10 Γ 2, HCP 21 μ Stem steel 40X, HCP 21 μ Seat steel 10 Γ 2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 80 PN 100 with Pneumatic Actuator for Underground Installation



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit

Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa

Control unit voltage

Connection

KSh-80-100-PP-PU-UKhL1-Pr 1.2750.201.360.00-01

80

10.0

pneumatic

electro-pneumatic with built-in limit switches

non-aggressive gaseous, separate source supply

2.5...10.0

24, 110, 220 V/DC welded end (WE)*

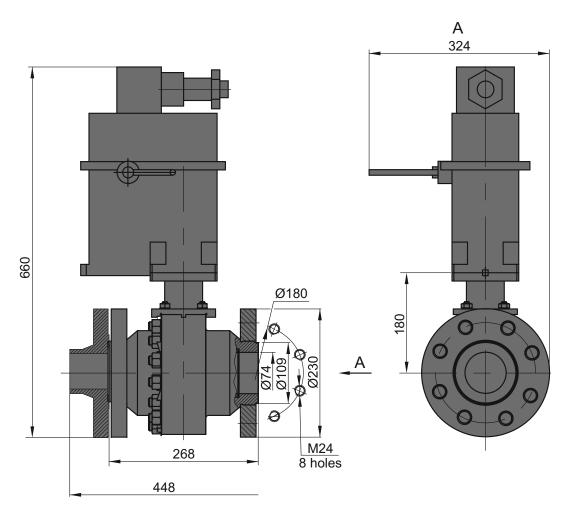
Material of main parts

Body steel 09Γ2C Ball steel 10Г2, HCP 21 µ Stem steel 40X, HCP 21 µ Seat steel 10Γ2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 80 PN 100 with Electric Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type Voltage

Connection

KSh-80-100-EP-NU-UKhL1-F-F 1.2750.236.306.00-01

80

10.0 electric

380 V, 3 ph, 50 Hz

Flanged end, with counter flanges, fasteners and sealing parts (WE)*

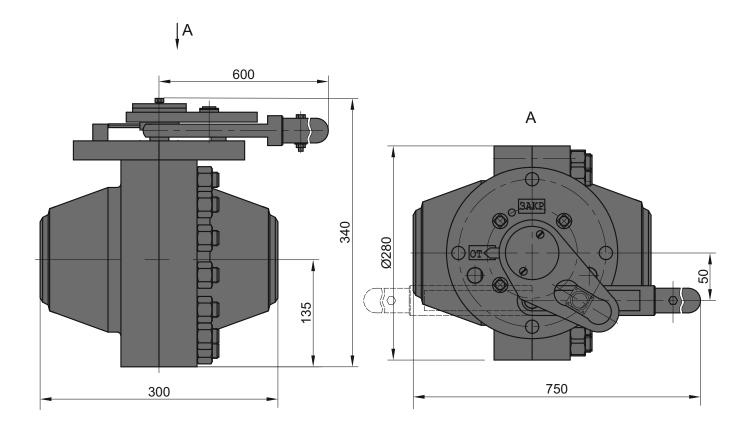
Material of main parts

Body steel 10 Γ 2, zinc chromating 24 μ Ball steel 10 Γ 2, HCP 21 μ Stem steel 38XA, HCP 21 μ Flange steel 10 Γ 2 Seat steel 10 Γ 2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 100 PN 100 with Manual Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type Connection

KSh-100-100-R-NU-UKhL1-Pr 1.2750.151.160.00

100 10.0 manual

welded end (WE)*

Material of main parts

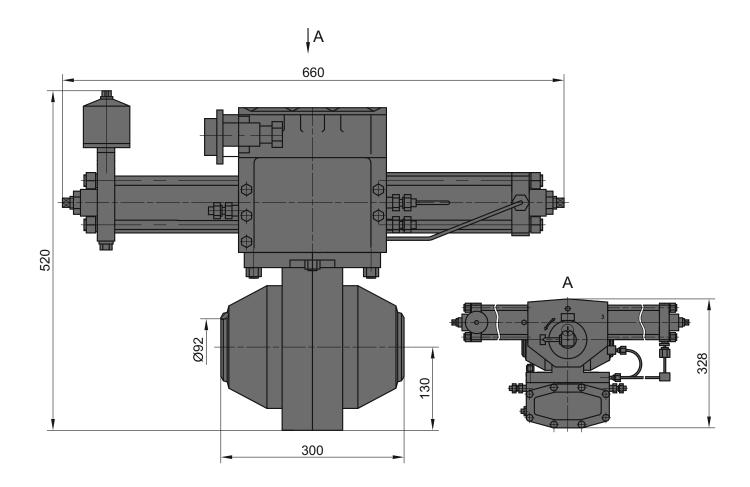
Bodysteel 09Γ2CBallsteel 10Γ2, HCP 21 μ Stemsteel 40X, HCP 21 μ

Seat steel 10Γ2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 100 PN 100 with Pneumatic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type Control unit

Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa

Control unit voltage

Connection

KSh-80-100-PP-NU-UKhL1-Pr 1.2750.151.102.00-06

100 10.0

pneumatic

electro-pneumatic with built-in limit switches

non-aggressive gaseous, separate source supply

2.5...10.0

24, 110, 220 V/DC

welded end*

Material of main parts

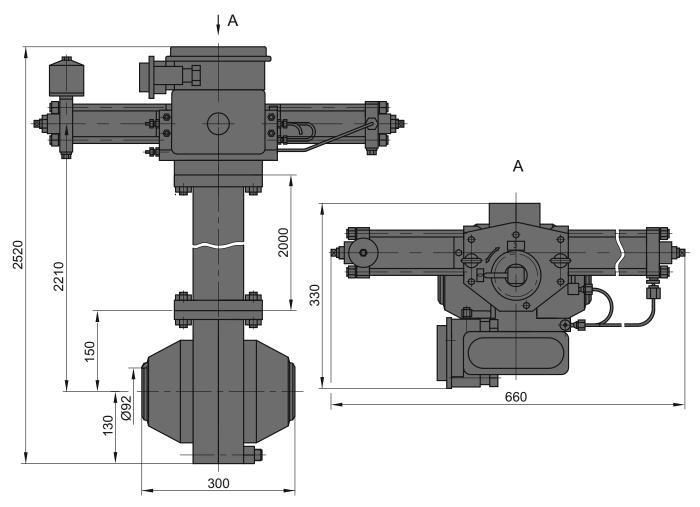
 $\begin{array}{ccc} \text{Body} & \text{steel 09Γ2C} \\ \text{Ball} & \text{steel 10Γ2, HCP 21 } \mu \\ \text{Stem} & \text{steel 40X, HCP 21 } \mu \end{array}$

Seat steel 10Г2, zinc chromating 9 µ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 100 PN 100 with Pneumatic Actuator for Underground Installation



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type Control unit

Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa

Control unit voltage

Connection

KSh-100-100-PP-PU-UKhL1-Pr 1.2750.209.360.00

100 10.0

pneumatic

electro-pneumatic with built-in limit switches

non-aggressive gaseous, separate source supply

2.5...10.0

24, 110, 220 V/DC

welded end*

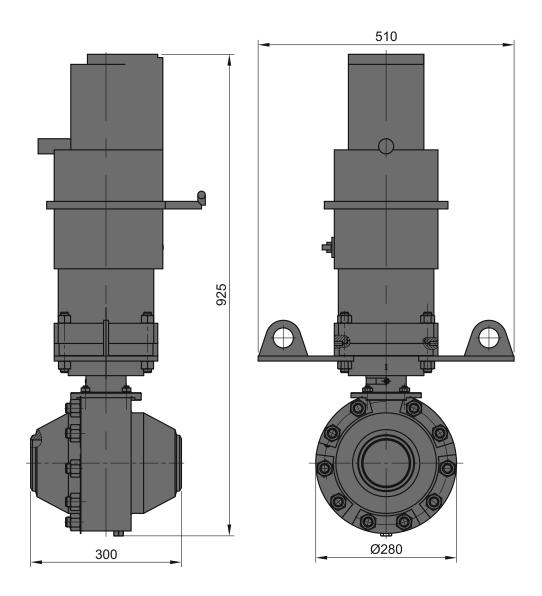
Material of main parts

Body steel 09 Γ 2C Ball steel 10 Γ 2, HCP 21 μ Stem steel 40X, HCP 21 μ Seat steel 10 Γ 2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 100 PN 100 with Electric Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Voltage Connection Weight, max, kg

KSh-100-100-EP-NU-UKhL1-Pr 1.2750.341.306.00

100 10.0 electric 380 V, 3 ph, N=250 W welded end (WE)* 130

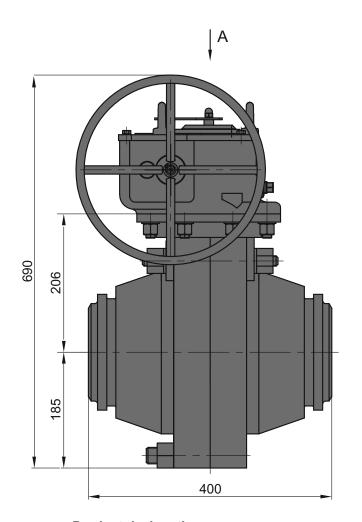
Material of main parts

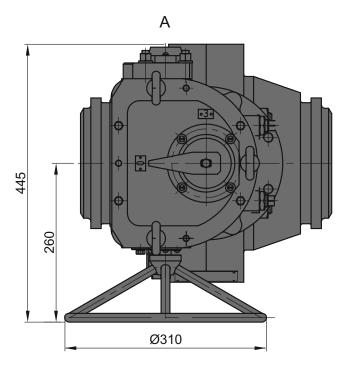
Body steel 09 Γ 2C Ball steel 10 Γ 2, HCP 21 μ Stem steel 38XA, HCP 21 μ Seat steel 10 Γ 2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 150 PN 100 with Manual Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Connection

KSh-150-100-RP-NU-UKhL1-Pr 1.2750.152.101.00-06

150 10.0 manual mechanical welded end (WE)*

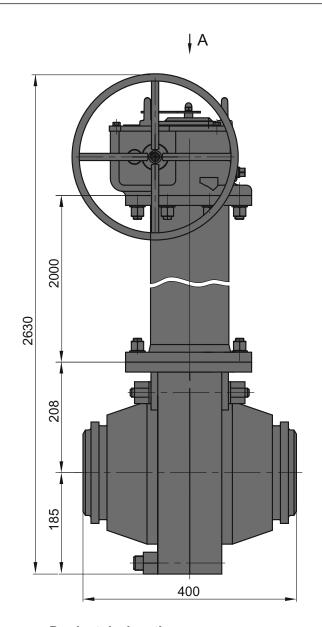
Material of main parts

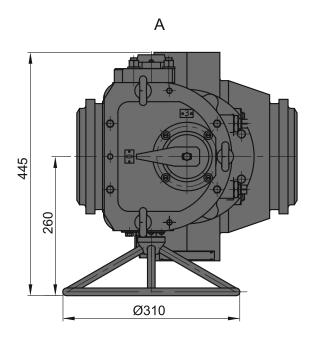
Body steel $09\Gamma2C$ Ball steel $10\Gamma2$, HCP $21~\mu$ Stem steel 40X, HCP $21~\mu$ Seat steel $10\Gamma2$, zinc chromating $9~\mu$



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 150 PN 100 with Manual Actuator for Underground Installation





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Connection

KSh-150-100-RP-PU-UKhL1-Pr 1.2750.158.101.00-02

150 10.0 manual mechanical welded end (WE)*

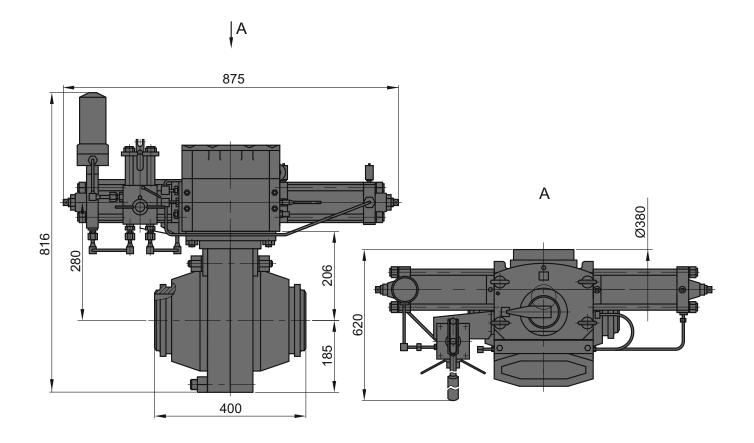
Material of main parts

Body steel 09 Γ 2C Ball steel10 Γ 2, HCP 21 μ Stem steel 40X, HCP 21 μ Seat steel 10 Γ 2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 150 PN 100 with Pneumatic-and-Hydraulic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit
Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa Control unit voltage
Connection

KSh-150-100-PGP-NU-UKhL1-Pr 1.2750.152.104.00-06

150 10.0

pneumatic-and-hydraulic with manual override - hydraulic pump electro-pneumatic with built-in limit switches non-aggressive gaseous, separate source supply

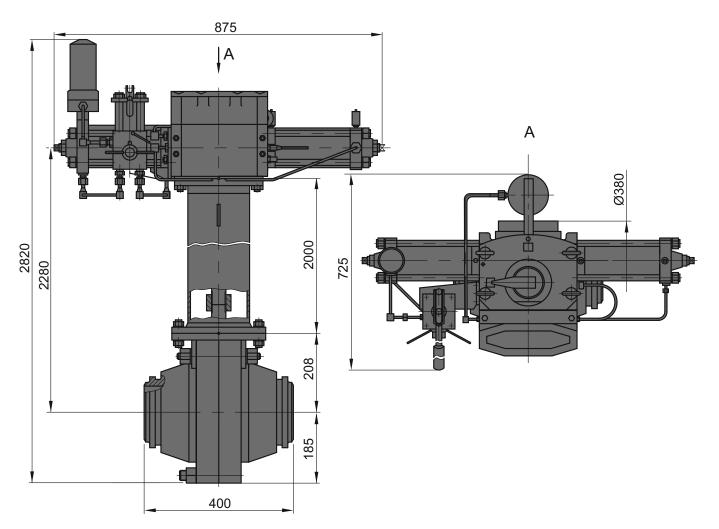
2.5...10.0 24, 110, 220 V/DC welded end (WE)*

Material of main parts

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 150 PN 100 with Pneumatic-and-Hydraulic Actuator for Underground Installation



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit
Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa Control unit voltage Connection

KSh-150-100-PGP-PU-UKhL1-Pr 1.2750.152.160.00-06

150
10.0
pneumatic-and-hydraulic
with manual override – hydraulic pump
electro-pneumatic with built-in limit switches
non-aggressive gaseous,
separate source supply

2.5...10.0 24, 110, 220 V/DC welded end (WE)*

Material of main parts

 $\begin{array}{ccc} \text{Body} & \text{steel 09F2C} \\ \text{Ball} & \text{steel 10F2, HCP 21 μ} \\ \text{Stem} & \text{steel 40X, HCP 21 μ} \\ \text{Seat} & \text{steel 10F2, zinc chromating 9 μ} \\ \end{array}$



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valves DN 200 - 1400 PN 80, 100

Designed for operation as shut-off devices in pipelines transporting non-aggressive natural gas and other non-aggressive media at the temperature ranged -60°C to +80°C. Tightness class A per GOST 9544.

Seat seals are made of elastomeric and composite materials. Welded end connection (flanged is possible).

Climatic version is for areas with temperate and cold climate (-60°C thru +45°C).

Ball valves are available with a variety of operator options: manual, pneumatic and pneumatic-and-hydraulic.

Over-ground and underground installation.

Ball valves can be completed with emergency shut off automatic device (for DN 400 - 1400).

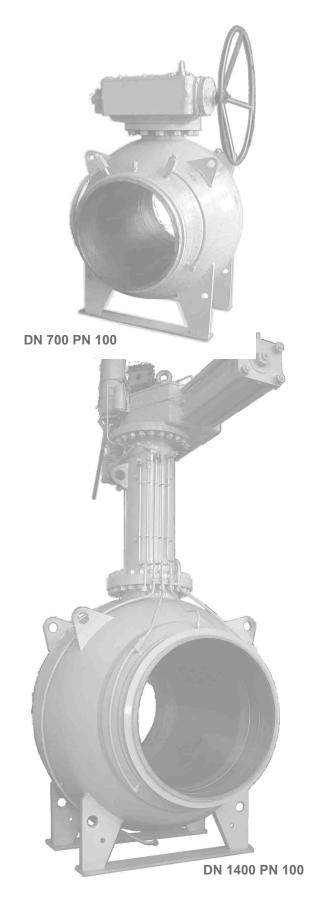
Manually operated ball valves can be installed in any position, and pneumatically and pneumatically and hydraulically operated ball valves are installed in horizontal pipelines with actuator facing upward. Vertical axial deviation shall be 10° max.

The average service life before overhaul is no more than 40 years.

The Company reserves the right to make design changes to improve it, while minor changes may not be shown in the Catalog.

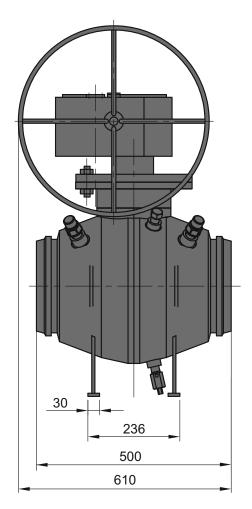
Design Features:

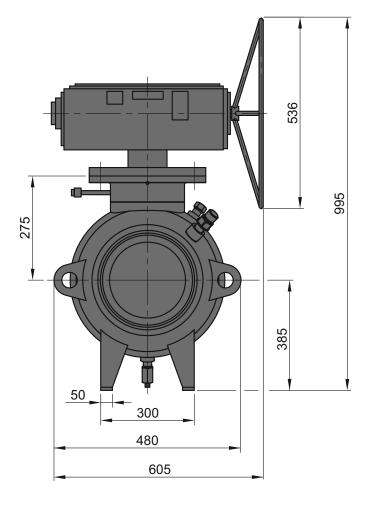
- Valve is a stamped two-piece, split body; the design enables to reduce gas escaping into the environment.
- Closure member is sealed with a high wear/erosion resistant elastomeric material.
- Both seats are tightened to the ball ensuring high leakproof closure member.
- "Trunnion mounted ball" with self-lubricating bearings made of metal-fluoroplastic that makes easy valves control.
- Pneumatically and hydraulically actuated ball valves are furnished with manual overrides (hydraulic pumps).
- "No tank" actuator design greatly reduces hydraulic liquid volume in the actuator hydraulic system.
- Pneumatic-and-hydraulic actuators are filled with hydraulic liquid.
- Ball valve control units have integrated terminal boxes, and limit switches; and they do not require additional piping.
- Control voltage is 24V, 110V and 220V.
- Ball valves can be furnished with electric actuators.
- Ball valves for underground service have corrosionresistant polymer coating.





Ball Valve DN 200 PN 100 with Manual Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Connection Weight, max, kg

Body

Stem

Seat (cover)

Ball

KSh-200-100-RP-NU-UKhL-Pr A.1.2750.150.101.00-06

200 10.0 manual mechanical welded end (WE)* 300

Material of main parts

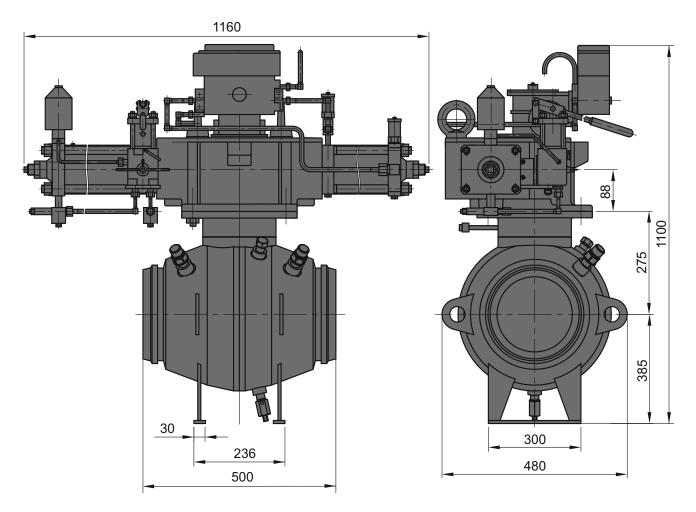
steel 09 Γ 2C steel 20 Γ J, HCP 30 μ steel 38 XA, HCP 21 μ steel 10 Γ 2, zinc chromating 9 μ

* Pipe is beveled to the pipe specified by a Customer.



steel 09

Ball Valve DN 200 PN 100 with Pneumatic-and-Hydraulic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit
Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa Control unit voltage Connection Weight, max, kg

Body

Stem

Seat

Ball

KSh-200-100-PGP-NU-UKhL1-Pr A.1.2750.150.104.00-06

200 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with built-in limit switches non-aggressive gaseous, separate source supply

2.5...10.0 24, 110, 220 V/DC welded end (WE)*

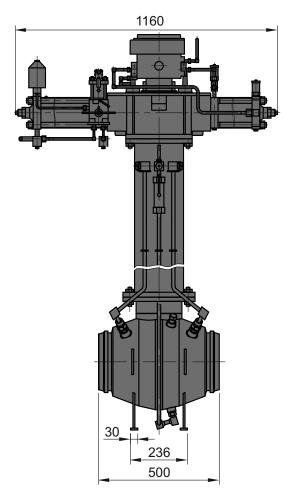
Material of main parts

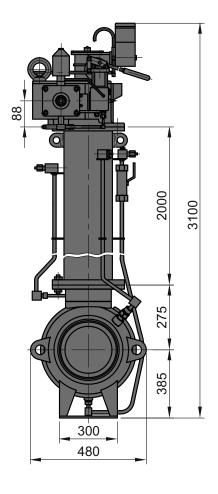
steel 09Γ2C steel 20ΓЛ, HCP 30 μ steel 38ΧΑ, HCP 21 μ steel 10Γ2, zinc chromating 9 μ

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 200 PN 100 with Pneumatic-and-Hydraulic Actuator for Underground Installation





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit
Actuator operating medium

Pressure range of operating medium at max. pressure differential, MPa Control unit voltage Connection Weight, max, kg

KSh-200-100-PGP-PU-UKhL1-Pr A.1.2750.150.160.00

200 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with built-in limit switches non-aggressive gaseous, separate source supply

2.5...10.0 24, 110, 220 V/DC welded end (WE)*

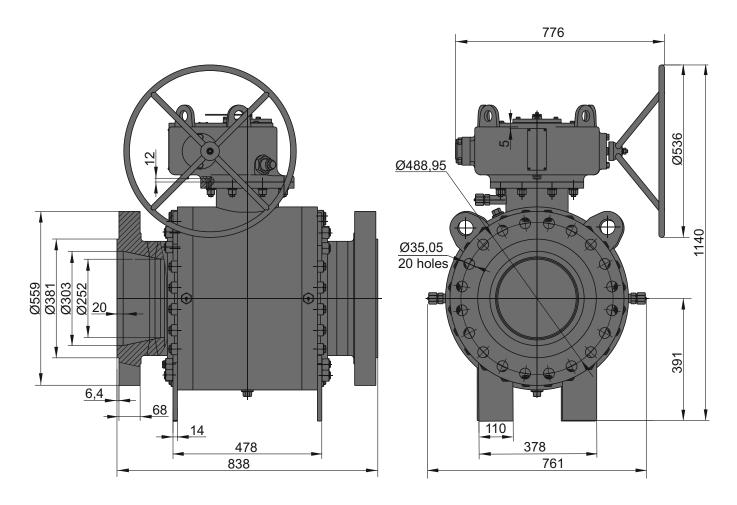
Material of main parts

Bodysteel 09Γ2CBallsteel 20ΓЛ, HCP 30 μ Stemsteel 45XΓMA, HCP 21 μ Seatsteel 10Γ2, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 300 x DN 250 PN 100 with Manual Actuator per API-6D



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Ambient temperature, °C Working medium temperature, °C Actuator type Connection Weight, max, kg

KSh-300x250-100-RP-NU-U1-F M.1.2750.477.201.00

300x250 10.0 from -29 to +48 from -29 to +80 manual mechanical flanged 1130

Material of main parts

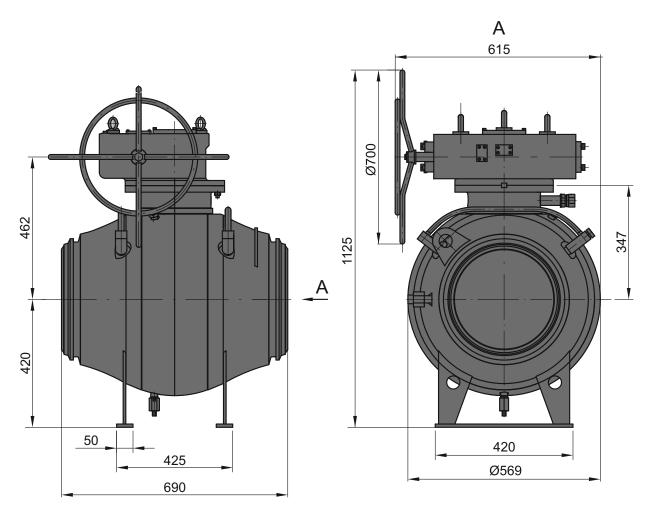
steel ASTM A350LF2, zinc chromating 24 μ steel ASTM A350LF2, HCP 21 μ steel 4140 ASME SA-29M, HCP 21 μ steel ASTM A350LF2, zinc chromating 9 μ polyurethane PPU-1 TU RB 700069297.008-2000



Body



Ball Valve DN 300 PN 100 with Manual Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Connection
Weight, max, kg

KSh-300-100-RP-NU-UKhL1-Pr 1.2750.284.101.00

300 10.0 manual mechanical welded end* 527

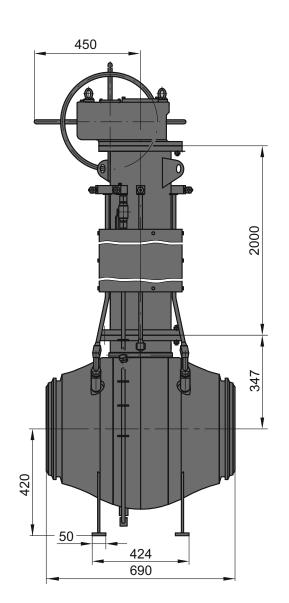
Material of main parts

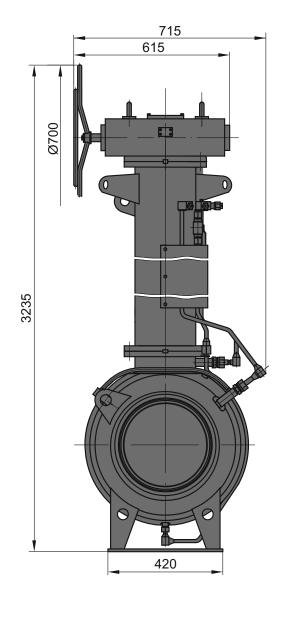
Body steel 09 Γ 2C, zinc chromating 24 μ Ball steel 20 Γ J, HCP 21 μ Stem steel 38 XA, HCP 21 μ Seat steel 09 Γ 2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 300 PN 100 with Manual Actuator for Underground Installation





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Connection Weight, max, kg

KSh-300-100-RP-PU-UKhL1-Pr A.1.2750.276.101.00

300 10.0 manual mechanical welded end* 787

Material of main parts

steel 09 Γ 2C, zinc chromating 24 μ steel 20 Γ Л, HCP 21 μ steel 38 XA, HCP 21 μ steel 09 Γ 2C, zinc chromating 9 μ

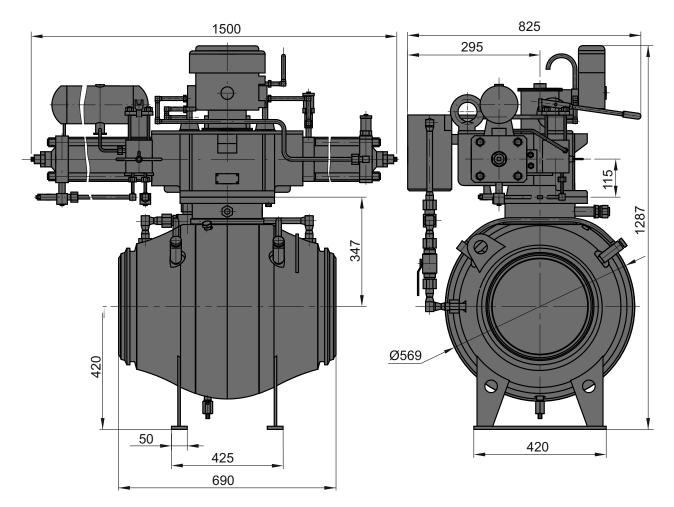
Seat



Body Ball Stem

^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 300 PN 100 with Pneumatic-and-Hydraulic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit

Actuator operating medium
Pressure range of operating medium
at max. pressure differential, MPa
Control unit voltage
Connection
Weight, max, kg

KSh-300-100-PGP-NU-UKhL1-Pr 1.2750.284.104.00

300 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches supply from pipeline

2.5...10.0 24, 110, 220 V/DC welded end (WE)* 600

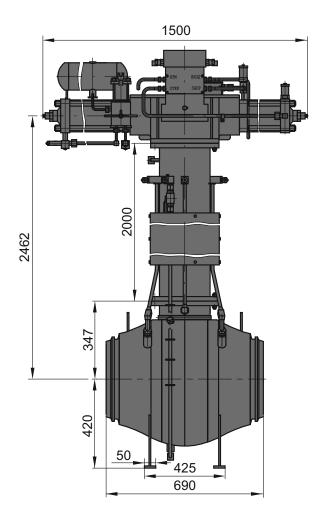
Material of main parts

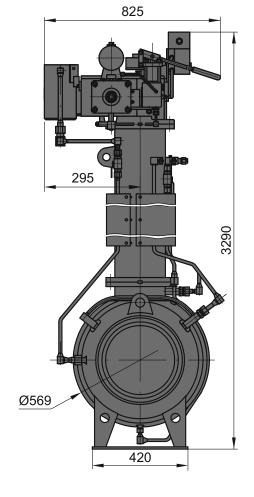
Bodysteel 09Γ2C zinc chromating 24 μBallsteel 20ΓЛ, HCP 21 μStemsteel 38XA, HCP 21 μSeatsteel 09Γ2C, zinc chromating 9 μ



^{*}Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 300 PN 100 with Pneumatic-and-Hydraulic Actuator for Underground Installation





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit

Actuator operating medium
Pressure range of operating medium
at max. pressure differential, MPa
Control unit voltage
Connection
Weight, max, kg

Body

Ball Stem

Seat

KSh-300-100-PGP-PU-UKhL1-Pr A.1.2750.194.160.00

300 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches supply from pipeline

2.5...10.0 24, 110, 220 V/DC welded end (WE)* 920

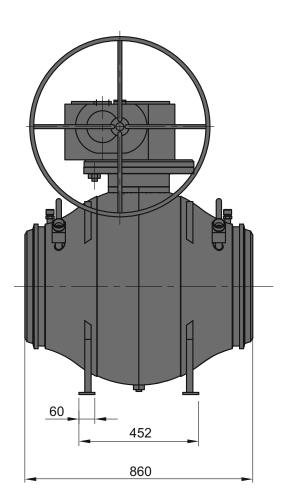
Material of main parts

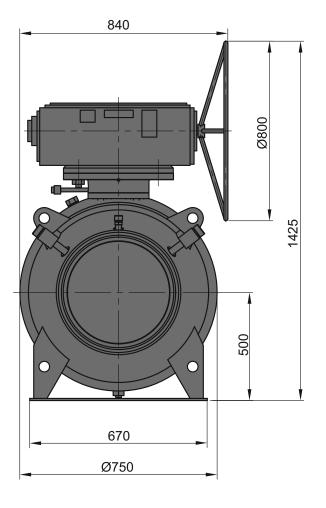
steel 09 Γ 2C zinc chromating 24 μ steel 20 Γ JI, HCP 21 μ steel 38XA, HCP 21 μ steel 09 Γ 2C, zinc chromating 9 μ

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 400 PN 100 with Manual Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Connection Weight, max, kg

KSh-400-100-RP-NU-UKhL1-Pr 1.2750.285.101.00

400 10.0 manual mechanical welded end* 1101

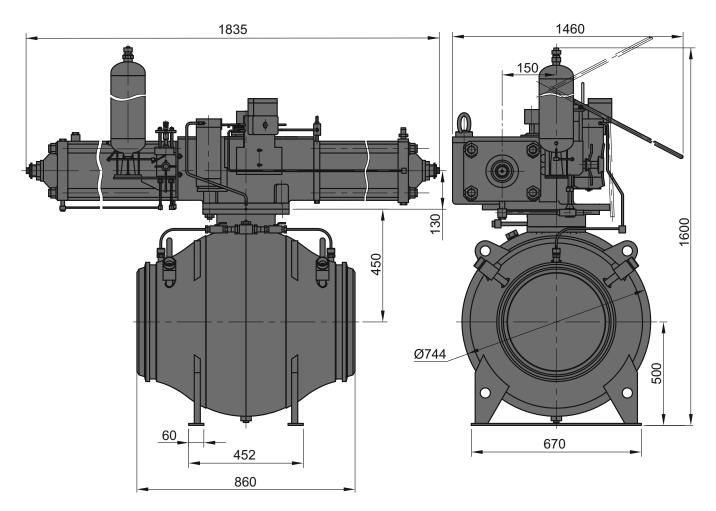
Material of main parts

Body steel 09 Γ 2C, zinc chromating 24 μ Ball steel 20 Γ J, HCP 30 μ Stem steel 38 XA, HCP 21 μ Seat steel 09 Γ 2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 400 PN 100 with Pneumatic-and-Hydraulic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit

Actuator operating medium
Pressure range of operating medium
at max. pressure differential, MPa
Control unit voltage
Connection
Weight, max, kg

Body

Stem Seat

Ball

KSh-400-160-PGP-NU-UKhL1-Pr 1.2750.285.104.00

400 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches supply from pipeline

2.5...10.0 24, 110, 220 V/DC welded end (WE)* 1250

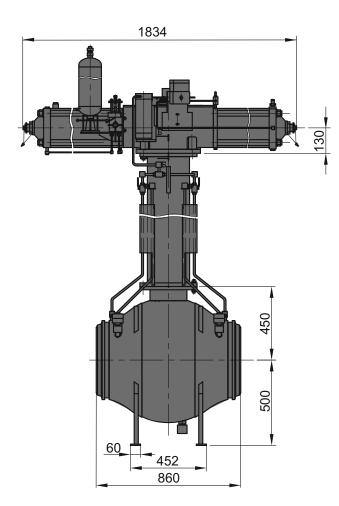
Material of main parts

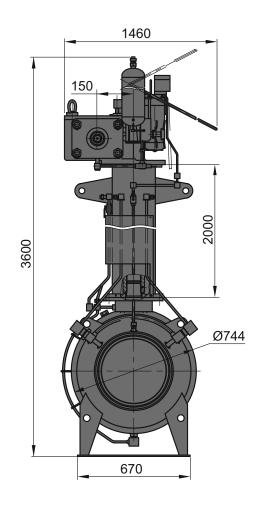
steel 09Γ2C, zinc chromating 24 μ steel 20ΓЛ, HCP 30 μ steel 38ΧΑ, HCP 21 μ steel 09Γ2C, zinc chromating 9 μ

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 400 PN 100 with Pneumatic-and-Hydraulic Actuator for Underground Installation





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit

Actuator operating medium
Pressure range of operating medium
at max. pressure differential, MPa
Control unit voltage
Connection
Weight, max, kg

Body

Ball Stem

Seat

KSh-400-160-PGP-PU-UKhL1-Pr A.1.2750.161.104.00

400 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches supply from pipeline

2.5...10.0 24, 110, 220 V/DC welded end (WE)* 1595

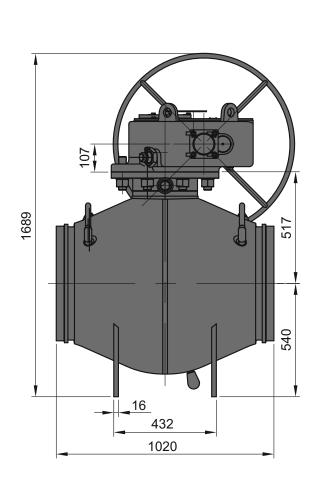
Material of main parts

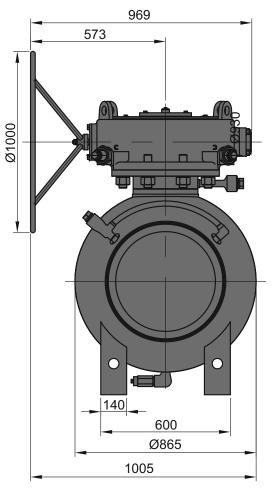
steel 09Γ2C, zinc chromating 24 μ steel 20ΓЛ, HCP 30 μ steel 38XA, HCP 21 μ steel 09Γ2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 500 PN 100 with Manual Actuator





Product designation Figure designation

Weight, max, kg

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Connection

> Body Ball

Stem

Material of main parts

steel 09Γ2C steel 20ΓЛ, HCP 30 μ steel 40X, HCP 21 μ

Seat (cover)

steel 09 Γ 2C, zinc chromating 9 μ

KSh-500-100-RP-NU-UKhL1-Pr

1.2750.315.101.00

manual mechanical

welded end (WE)*

500

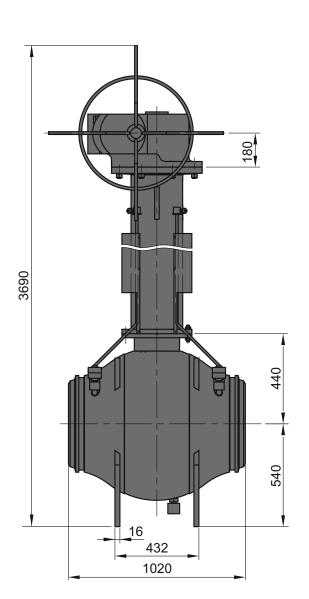
10.0

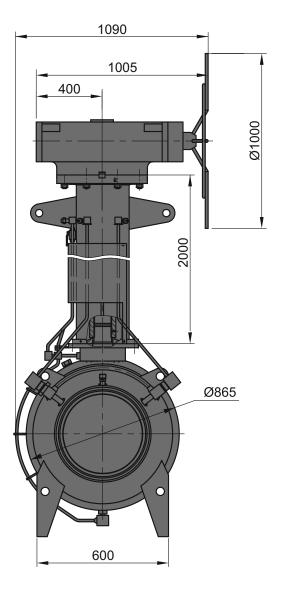
1834



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 500 PN 100 with Manual Actuator for Underground Installation





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Connection Weight, max, kg

Body

Ball

Stem

KSh-500-100-RP-PU-UKhL1-Pr 1.2750.315.155.00

500 10.0 manual mechanical welded end (WE)* 2430

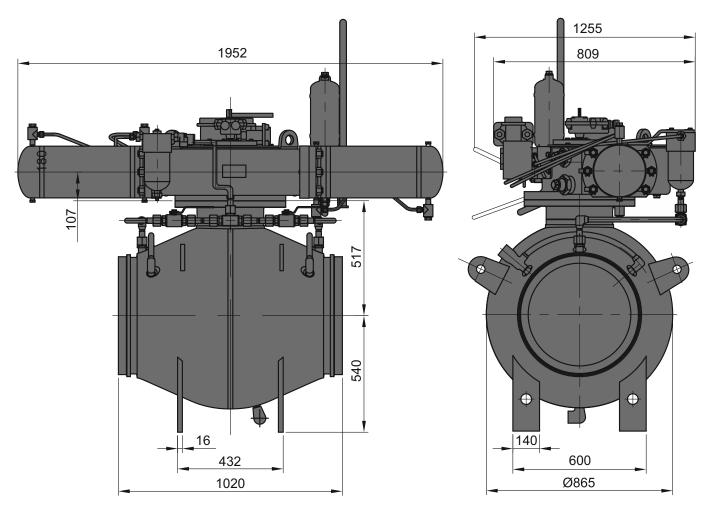
Material of main parts

steel 09Γ2C, zinc chromating 24 μ steel 20ГЛ, HCP 30 µ steel 40X, HCP 21 µ Seat (cover) steel 09 Γ 2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 500 PN 100 with Pneumatic-and-Hydraulic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type

Actuator operating medium

Pressure range of operating medium at pressure differential on valve closure member up to 2.0 MPa, MPa

Control unit voltage

Connection

Weight, max, kg

KSh-500-100-PGP-NU-UKhL1-Pr 1.2750.315.104.00

500

10.0

pneumatic-and-hydraulic supply from pipeline

2.5...10.0

24, 110, 220 V/DC welded end (WE)*

2078

Material of main parts

Body steel 09Γ2C

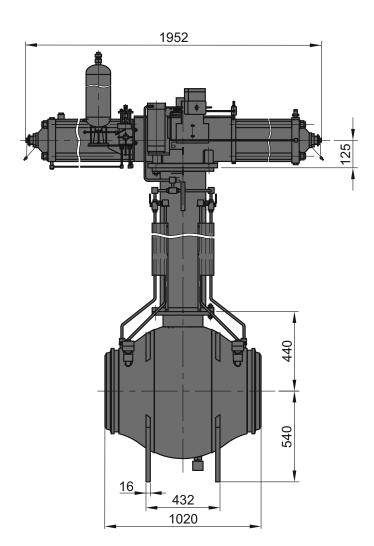
Ball steel 20ΓΠ, HCP 30 μ Stem steel 40X, HCP 21 μ

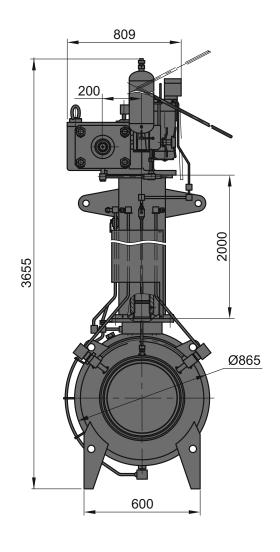
Seat steel 09 Γ 2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 500 PN 100 with Pneumatic-and-Hydraulic Actuator for Underground Installation





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit
Actuator operating medium
Pressure range of operating medium
at pressure differential on valve
closure member up to 2.0 MPa, MPa
Control unit voltage
Connection
Weight, max, kg

KSh-500-100-PGP-PU-UKhL1-Pr 1.2750.315.160.00

1.2750.315.160.00
500
10.0
pneumatic-and-hydraulic
with manual override – hydraulic pump
electro-pneumatic with unit of limit switches
supply from pipeline

2.5...10.0 24, 110, 220 V/DC welded end (WE)* 2680

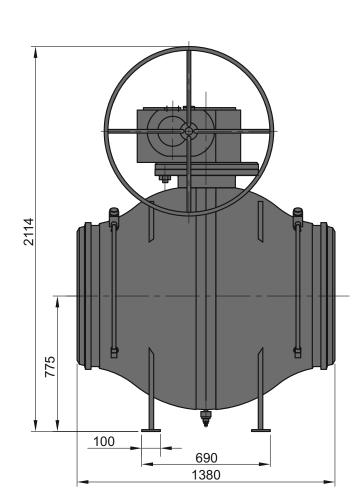
Material of main parts

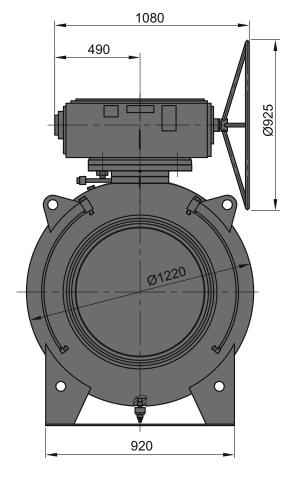
Body steel 09F2C, zinc chromating 24 μ Ball steel 20F Π , HCP 30 μ Stem steel 40X, HCP 21 μ Seat steel 09F2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 700 PN 100 with Manual Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type Connection Weight, max, kg

KSh-700-100-RP-NU-UKhL1-Pr 1.2750.148.101.00-08

700 10.0 manual mechanical welded end (WE)* 3955

Material of main parts

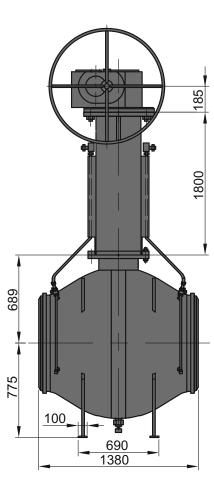
steel 09Γ2C Body Ball steel 20ГЛ, HCP 30 μ Stem steel 40X, HCP 21 µ Seat (cover)

steel 09 Γ 2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

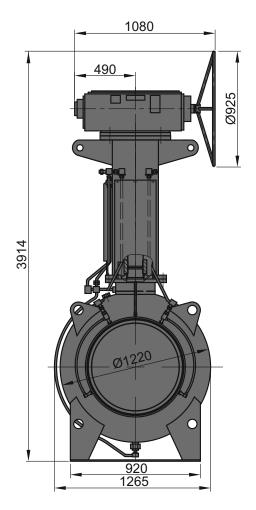
Ball Valve DN 700 PN 100 with Manual Actuator for Underground Installation



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type Connection

Weight, max, kg



KSh-700-100-RP-PU-UKhL1-Pr 1.2750.155.101.00-02

700 10.0 manual mechanical welded end (WE)* 4780

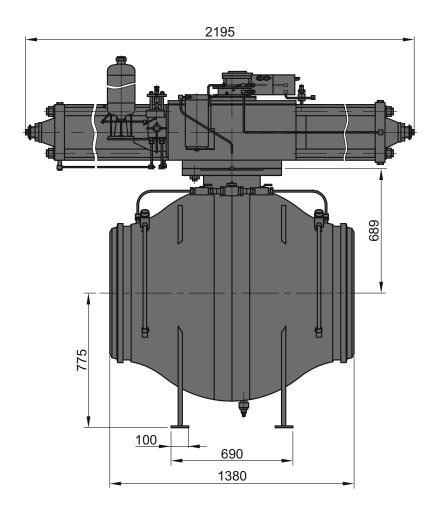
Material of main parts

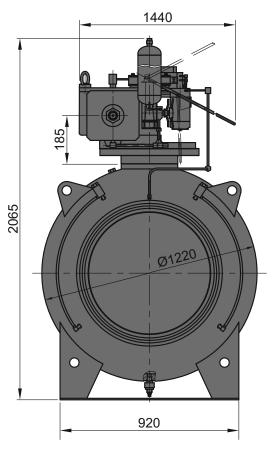
Bodysteel 09Γ2CBallsteel 20ΓЛ, HCP 30 μ Stemsteel 40X, HCP 21 μ Seat (cover)steel 09Γ2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 700 PN 100 with Pneumatic-and-Hydraulic Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type

Control unit

Actuator operating medium

Min. control pressure at pressure differential at valve closure member up to 2.0 MPa, MPa

Control unit voltage

Connection

Weight, max, kg

KSh-700-100-PGP-NU-UKhL1-Pr 1.2750.148.104.00-06

700

10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches supply from pipeline

2.5

24, 110, 220 V/DC welded end (WE)*

4205

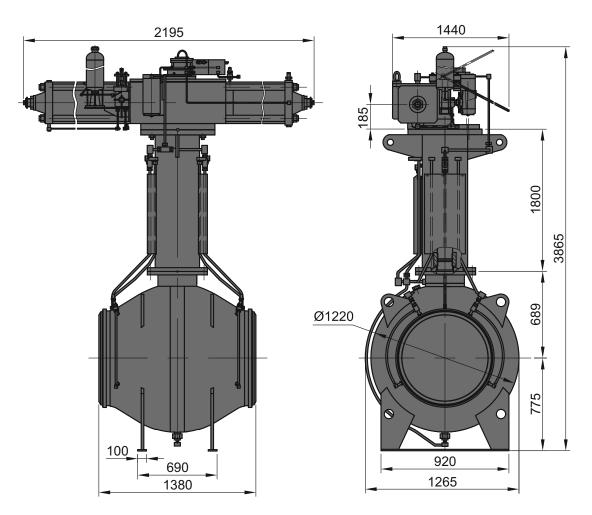
Material of main parts

Body steel 09 Γ 2C, zinc chromating 24 μ Ball steel 20 Γ Π , HCP 30 μ Stem steel 40X, HCP 21 μ Seat steel 09 Γ 2C, zinc chromating 9 μ

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 700 PN 100 with Pneumatic-and-Hydraulic Actuator for Underground Installation



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit

Actuator operating medium
Min. control pressure at pressure differential
at valve closure member up to 2.0 MPa, MPa
Control unit voltage
Connection
Weight, max, kg

KSh-700-100-PGP-PU-UKhL1-Pr 1.2750.156.104.00-02

700 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches supply from pipeline

2.5 24, 110, 220 V/DC welded end (WE)* 5040

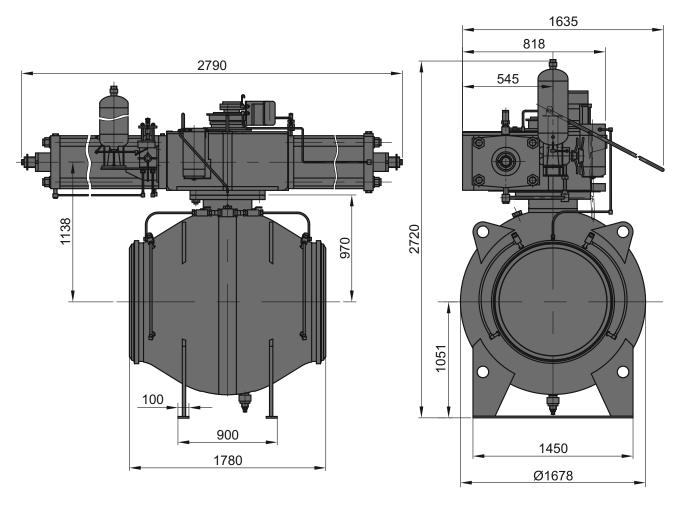
Material of main parts

Body steel 09F2C, zinc chromating 24 μ Ball steel 20F Π , HCP 30 μ Stem steel 40X, HCP 21 μ Seat steel 09F2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 1000 PN 100 with Pneumatic-and-Hydraulic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type

Control unit
Control unit voltage
Actuator operating medium
Min. control pressure at pressure differential
at valve closure member up to 2.0 MPa, MPa
Connection
Weight, max, kg

KSh-1000-100-PGP-NU-UKhL1-Pr 1.2750.149.104.00-02

1000 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches 24, 110, 220 V/DC supply from pipeline

2.5 welded end (WE)* 12000

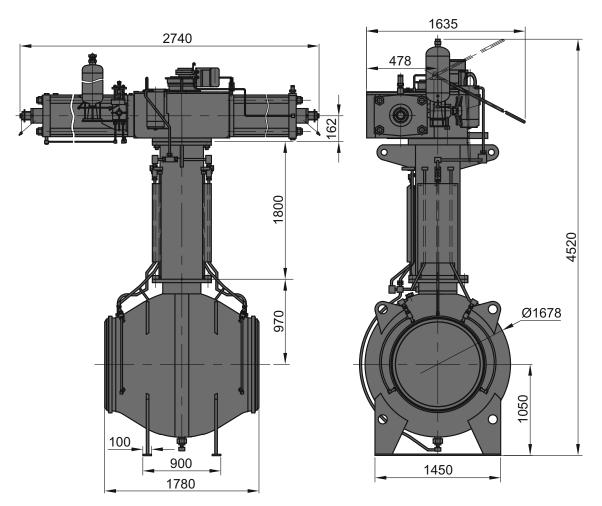
Material of main parts

Body steel 09F2C, zinc chromating 24 μ Ball steel 20F Π , HCP 30 μ Stem steel 40X, HCP 21 μ Seat steel 09F2C, zinc chromating 9 μ

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 1000 PN 100 with Pneumatic-and-Hydraulic Actuator for Underground Installation



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit
Control unit voltage
Actuator operating medium
Min. control pressure at pressure differential
at valve closure member up to 2.0 MPa, MPa
Connection
Weight, max, kg

KSh-1000-100-PGP-PU-UKhL1-Pr 1.2750.157.104.00-02

1000 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches 24, 110, 220 V/DC supply from pipeline

2.5 welded end (WE)* 13300

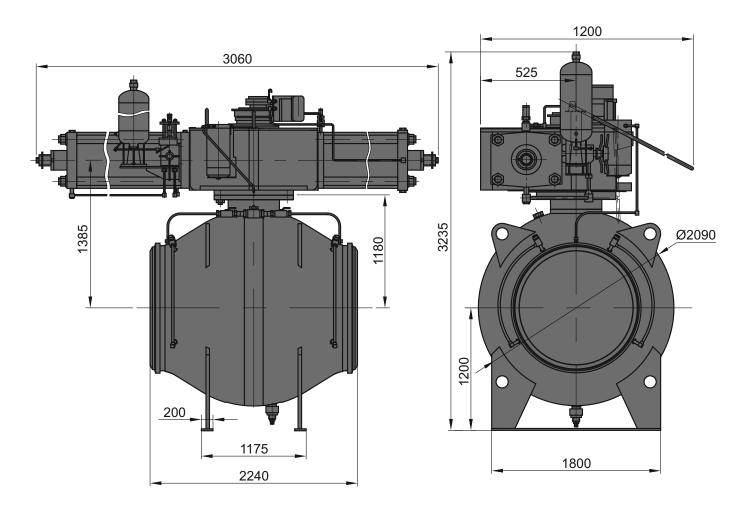
Material of main parts

Body steel 09F2C, zinc chromating 24 μ Ball steel 20FЛ, HCP 30 μ Stem steel 40X, HCP 21 μ Seat steel 09F2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Ball Valve DN 1200 PN 100 with Pneumatic-and-Hydraulic Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit
Control unit voltage
Actuator operating medium
Min. control pressure at pressure differential
at valve closure member up to 2.0 MPa, MPa
Connection
Weight, max, kg

KSh-1200-100-PGP-NU-UKhL1-Pr 1.2750.163.104.00-02

1200 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches 24, 110, 220 V/DC supply from pipeline

2.5 welded end (WE)* 20425

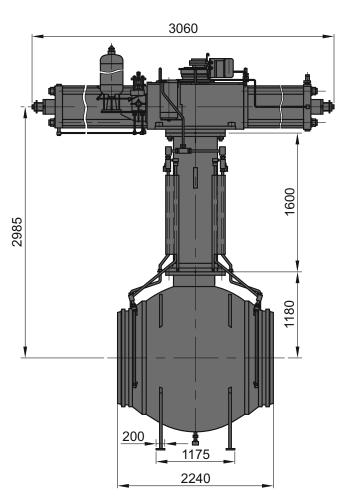
Material of main parts

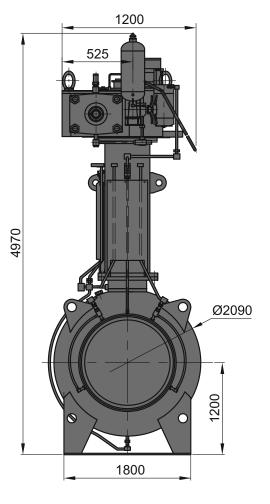
Bodysteel 09Γ2CBallsteel 20ΓЛ, HCP 30 μ Stemsteel 45ΧΓΜΑ, HCP 21 μ Seatsteel 09Γ2C, zinc chromating 9 μ

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 1200 PN 100 with Pneumatic-and-Hydraulic Actuator for Underground Installation





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit
Control unit voltage, V
Actuator operating medium
Min. control pressure at pressure differential
at valve closure member up to 2.0 MPa, MPa
Connection
Weight, max, kg

KSh-1200-100-PGP-PU-UKhL1-Pr 1.2750.166.104.00

1200 10.0

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches DC 24,110, 220 supply from pipeline

2.5 welded end (WE)* 21400

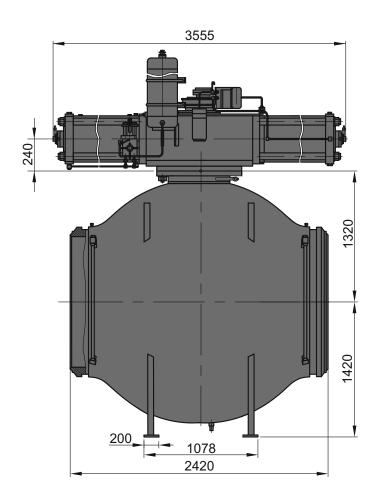
Material of main parts

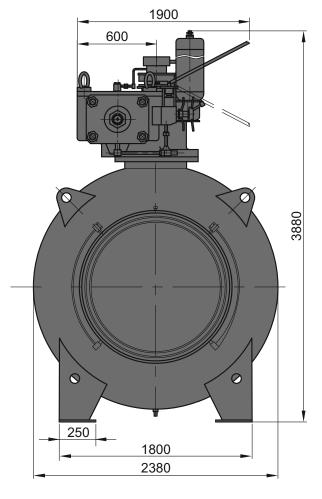
Body	steel 09Γ2C
Ball	steel 20ГЛ, HCP 30 µ
Stem	steel 45ΧΓΜΑ, HCP 21 μ
Seat	steel 09Γ2C, zinc chromating 9 μ

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 1400 PN 100 with Pneumatic-and-Hydraulic Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Actuator type

Control unit Control unit voltage, V Actuator operating medium

Min. control pressure at pressure differential at valve closure member up to 2.0 MPa, MPa Connection Weight, max, kg

KSh-1400-100-PGP-NU-UKhL1-Pr 1.2750.277.104.00

1400
10.0
pneumatic-and-hydraulic
with manual override – hydraulic pump
electro-pneumatic with unit of limit switches
DC 24,110, 220
non-aggressive gaseous,
supply from pipeline

2.5 welded end (WE)* 25314

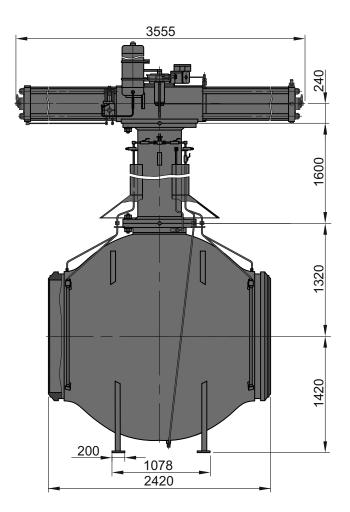
Material of main parts

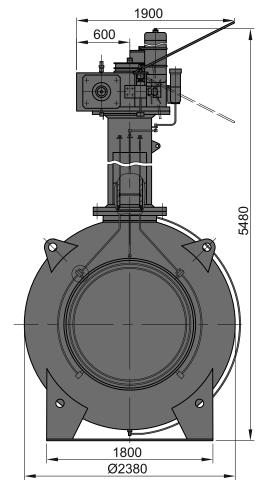
Bodysteel 09Γ2CBallsteel 20ΓЛ, HCP 30 μ Stemsteel 30X H3 MΦA, HCP 21 μ Seatsteel 09Γ2C, zinc chromating 9 μ

^{*} Pipe is beveled to the pipe specified by a Customer.



Ball Valve DN 1400 PN 100 with Pneumatic-and-Hydraulic Actuator for Underground Installation





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type

Control unit Control unit voltage, V Actuator operating medium

Min. control pressure at pressure differential at valve closure member up to 2.0 MPa, MPa Connection

Weight, max, kg

KSh-1400-100-PGP-NU-UKhL1-Pr 1.2750.277.104.00

1400

pneumatic-and-hydraulic with manual override – hydraulic pump electro-pneumatic with unit of limit switches DC 24,110, 220 non-aggressive gaseous, supply from pipeline

2.5 welded end (WE)* 25314

Material of main parts

Bodysteel 09Γ2CBallsteel 20ΓЛ, HCP 30 μStemsteel 30X H3 MΦA, HCP 21 μSeatsteel 09Γ2C, zinc chromating 9 μ



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valves DN 300 - 1000 PN 80, 100, 160

Designed to automatically prevent back flow of working medium, when transmitting non-aggressive natural gas and other non-aggressive media at the temperature ranged -60°C to +80°C.

Tightness class per GOST 13252.

Welded end connection (flanged is possible).

Climatic version for areas with temperate and cold climate (-60°C thru +45°C).

The average service life before overhaul is no more 40 years.

The Company reserves the right to make design changes to improve it, while minor changes may not be shown in the Catalog.

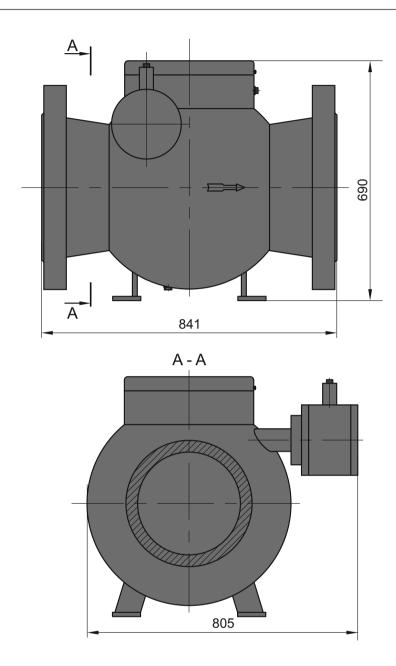
DN 700 PN 80

Design Features:

- Swing type.
- Liquid dampers for DN 300...500 and pneumatic dampers for - DN 700 and over to reduce impact loads.
- One-piece stamped and welded body design.
- High maintainability.
- Low pressure losses.



Check Valve DN 300 PN 80



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Connection

Weight, max, kg

Material of main parts

ZO-300-80-F-F 1.2770.21.200.00-01

300

8.0

Flanged end, with counter flanges, fasteners and sealing parts (WE)*

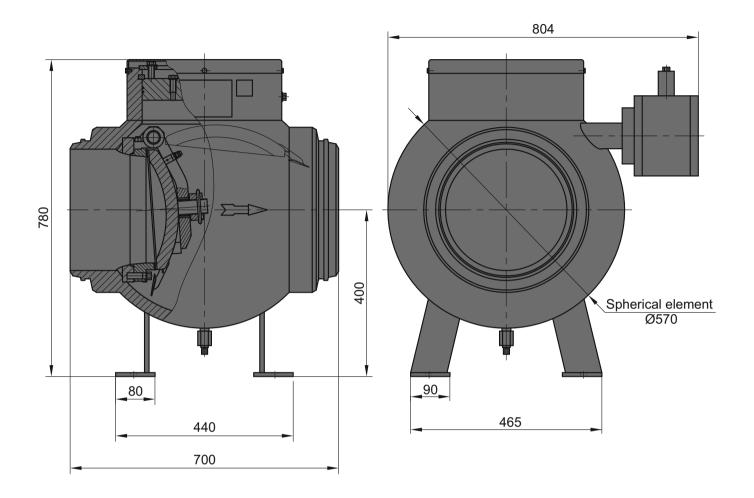
640

steel 10Γ2



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valve DN 300 PN 100



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Connection Weight, max, kg

Material of main parts

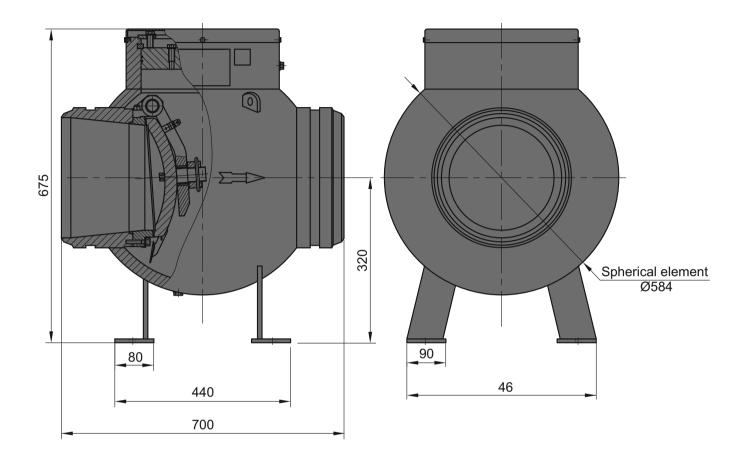
ZO-300-100-Pr 1.2770.56.200.00-01

300 10.0 welded end (WE)* 470



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valve DN 300 PN 160



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Connection Weight, max, kg

Material of main parts

ZO-300-160-Pr 1.2770.18.200.00

300 16.0

welded end (WE)*

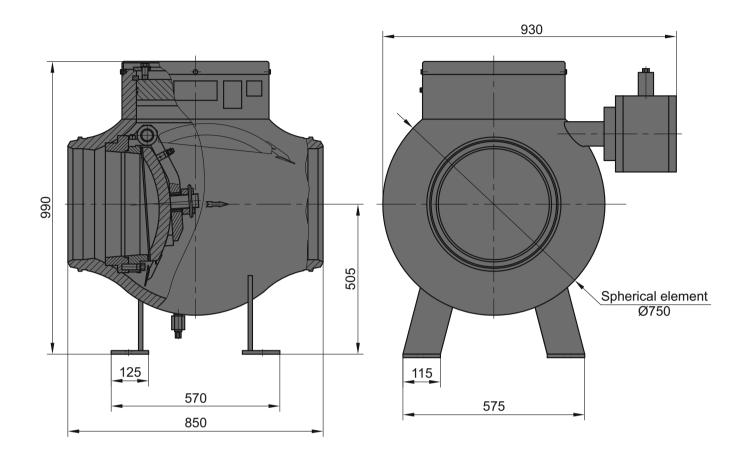
430

steel 09Γ2C steel 10Γ2



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valve DN 400 PN 100



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Connection Weight, max, kg

Material of main parts

ZO-400-100-Pr 1.2770.57.200.00-01

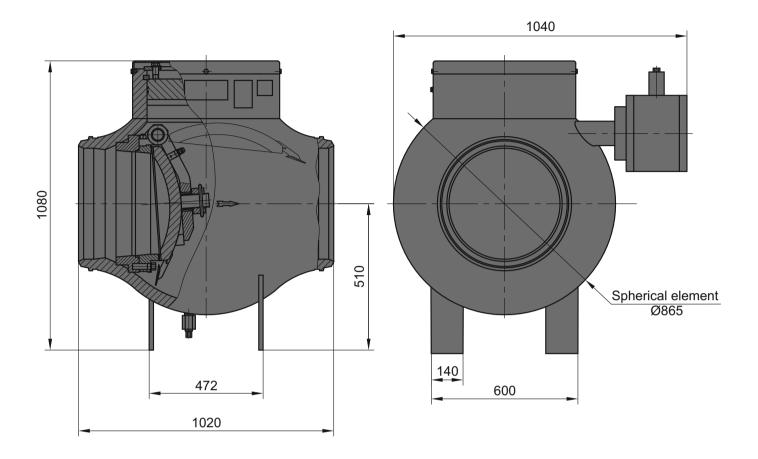
400 10.0 welded end (WE)* 960

steel 09Г2С



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valve DN 500 PN 100



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Connection Weight, max, kg

Material of main parts

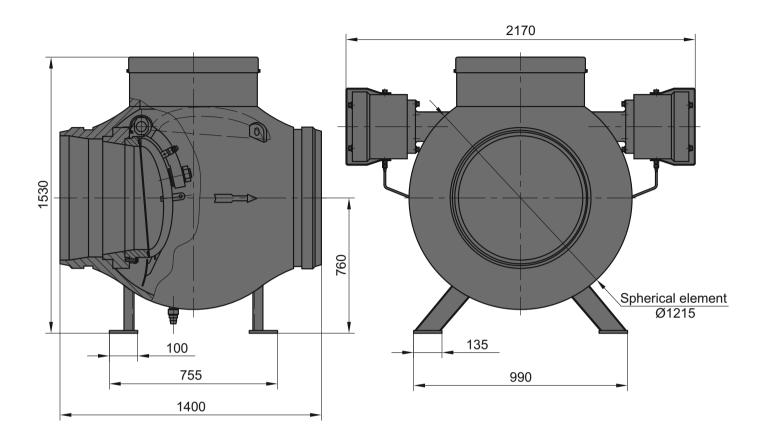
ZO-500-100-Pr 1.2770.55.200.00-01

500 10.0 welded end (WE)* 1170



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valve DN 700 PN 100



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Connection Weight, max, kg

Material of main parts

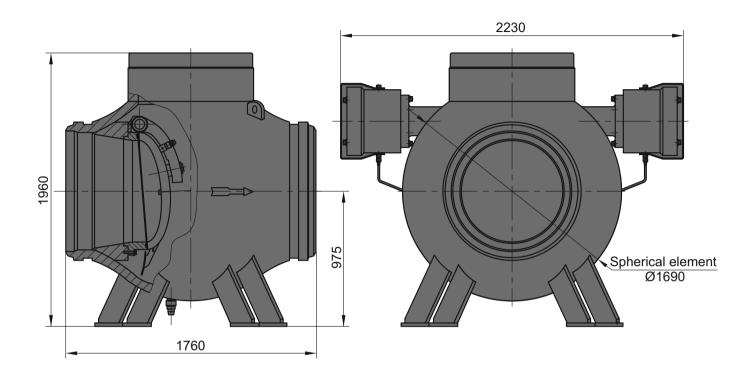
ZO-700-100-Pr 1.9000.150.00.00-02

700 10.0 welded end (WE)* 3500



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valve DN 1000 PN 100



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Connection Weight, max, kg

Material of main parts

ZO-1000-100-Pr 1.9000.151.00.00-01

1000 10.0

welded end (WE)*

7600



^{*} Pipe is beveled to the pipe specified by a Customer.

56 Convex Strainers DN 400 - 1000 PN 80, 100, 200

Designed for protection of compressor rotor bundle against foreign-object damage.

Working medium is non-aggressive natural gas and other non-aggressive media at the temperature ranged -60°C to +80°C.

Welded end connection.

Climatic version for areas with temperate and cold climate (-60°C thru +45°C).

The average service life before overhaul is no more than 40 years.

The Company reserves the right to make design changes to improve it, while minor changes may not be shown in the Catalog.

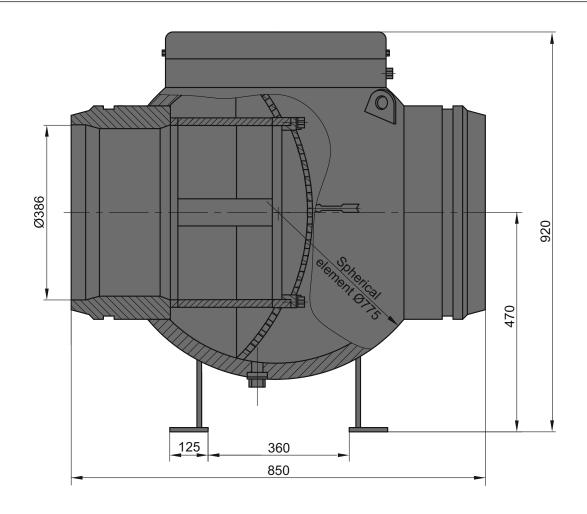
Design features:

- Minimum hydraulic resistance: perforated area is more than bore cross-section area of the pipeline.
- One-piece stamped and welded body.
- Replacement screen and manhole to remove solids and debris (DN 700 and over).
- High maintainability.



DN 700 PN 100





Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Hydraulic pressure losses at nominal operation conditions, max, MPa Total area of screen holes

Connection

Weight, max, kg

RZ-400-100-Pr 1.2790.163.100.00

400 10.0

0.01

larger than area of pipeline section welded end (WE)*

650

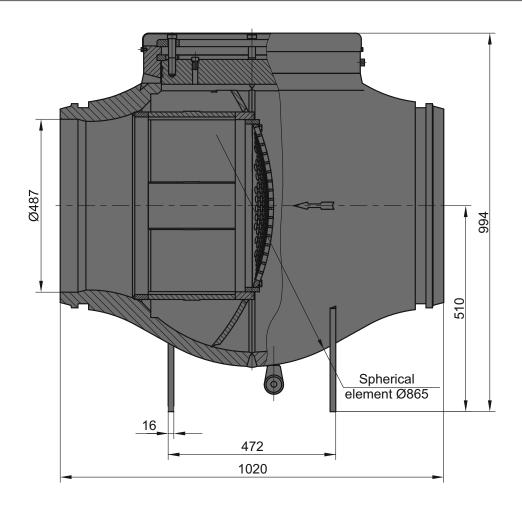
Material of main parts

Body	steel 09Γ2C
Cover	steel 09Γ2C
Screen	steel 09Γ2C

^{*} Pipe is beveled to the pipe specified by a Customer.



Convex Strainer DN 500 PN 100



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Hydraulic pressure losses at nominal operation conditions, max, MPa

Total area of screen holes

Connection

Weight, max, kg

RZ-500-100-Pr 1.2790.125.100.00

500 10.0

0.01

larger than area of pipeline section welded end (WE)*

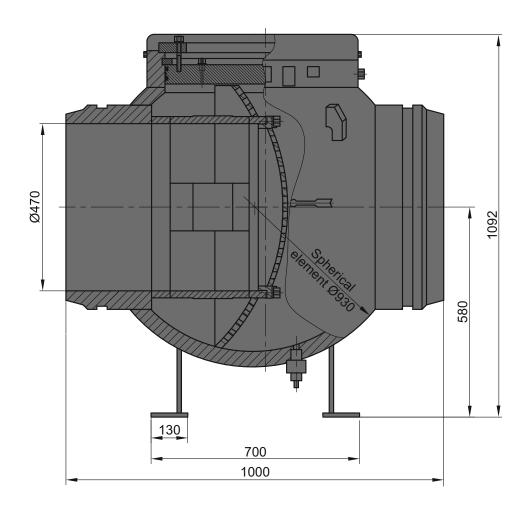
1020

Material of main parts

steel 09Γ2C Body Cover steel 09Γ2C steel 09Γ2C Screen



^{*} Pipe is beveled to the pipe specified by a Customer.



Diameter Nominal, DN, mm
Pressure Nominal, PN, MPa
Hydraulic pressure losses at nominal operation conditions, max, MPa
Total area of screen holes

Connection Weight, max, kg

RZ-500-200-Pr 1.2790.176.100.00

500 20.0

0.01

larger than area of pipeline section welded end (WE)*

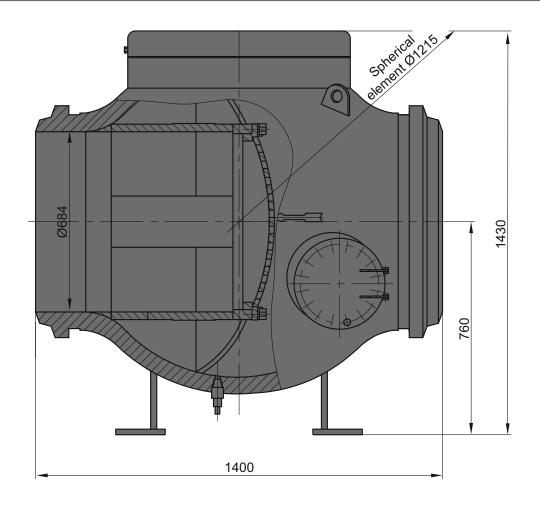
1345

Material of main parts

Body	steel 09Г2С
Cover	steel 09Γ2C
Screen	steel 09Γ2C

^{*} Pipe is beveled to the pipe specified by a Customer.





Diameter Nominal, DN, mm
Pressure Nominal, PN, MPa
Hydraulic pressure losses at nominal operation conditions, max, MPa
Total area of screen holes

Connection Weight, max, kg RZ-700-100-Pr 1.2790.7.100.00-01

700 10.0

0.01

larger than area of pipeline section welded end (WE)*

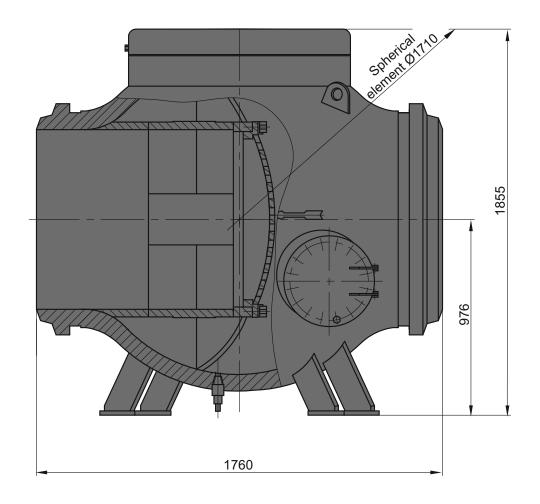
3100

Material of main parts

Bodysteel 09Γ2CCoversteel 09Γ2CScreensteel 09Γ2C



^{*} Pipe is beveled to the pipe specified by a Customer.



Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Hydraulic pressure losses at nominal operation conditions, max, MPa

Total area of screen holes

Connection

Weight, max, kg

RZ-1000-100-Pr 1.2790.3.100.00-01

1000 10.0

0.01

larger than area of pipeline section welded end (WE)*

6550

Material of main parts

Body	steel 09Г2С
Cover	steel 09Γ2C
Screen	steel 09Γ2C

^{*} Pipe is beveled to the pipe specified by a Customer.



Valves to Complete Manufactured Equipment

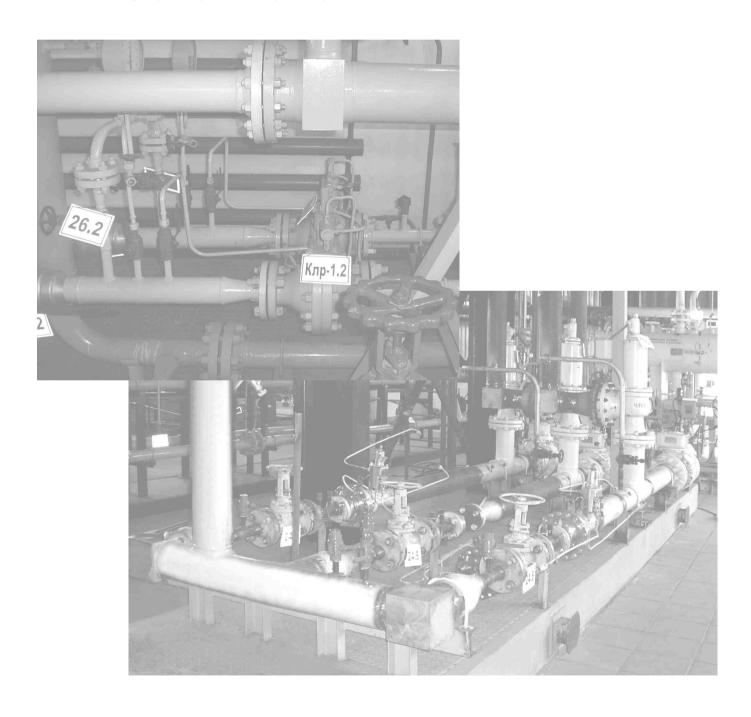
Sumy NPO is the recognized leader in the design and manufacture of modular compressor stations for oil, gas and oil refining industry.

The main equipment of the station are turbocompressor units with centrifugal or reciprocating compressors.

More than 2,300 turbo-compressor units successfully operate all over the world. Only in recent years the Company has constructed and installed its equipment at the following compressor stations: "Gubkinskaya", "Yaro-Yakhinskaya" (Russia), "Tarutino" (Ukraine),

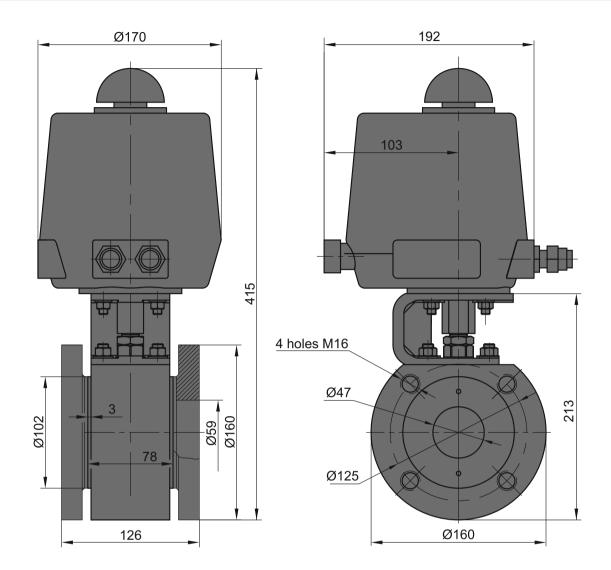
"Severnaya", "Astara" (Azerbaijan), "Goturdepe", "Yilanly", "Zapadny Shatlyk", "Deryalyk" (Turkmenistan), "Kokdumalak", "Zevardy", "Gazli" (Uzbekistan), "Bursa", "Eskisehir" (Turkey), "Hajiabad", "Abshirin", "Sirjan" (Iran), Gas Complex Treatment Plants for Gubkinskoe, Severo-Komsomolskoe and Tarasovskoe oil fields of JSC "Rosneft", etc.

Delivered compressor station equipment include valves manufactured by our Company.





Ball Valve DN 50 PN16 with Electric Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Ambient temperature, °C Actuator type Voltage Connection

Weight without counterparts set, max, kg

KSh-50-16-EP-NU-UKhL1-F-F 1.2750.278.306.00

50 1.6

from -20 up to +45

electric

100-240 V/AC

Flanged end, with counter flanges, fasteners and sealing parts (welded end)

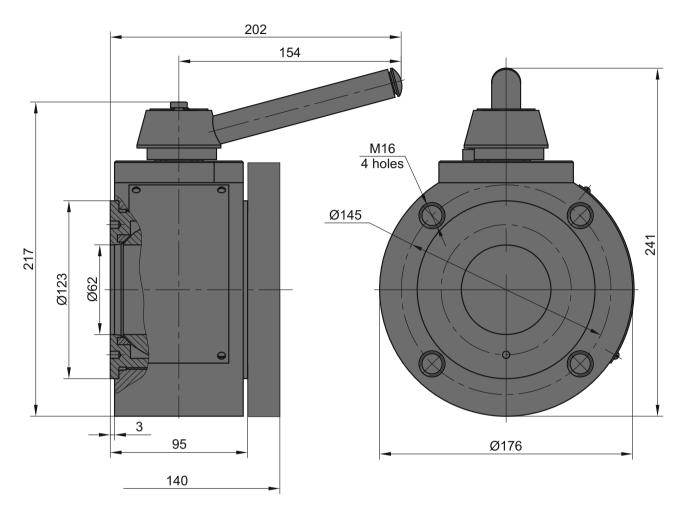
14

Material of main parts

Body steel 10 Γ 2, zinc chromating 12 μ Ball steel 20X13, HCP 21 μ Stem steel 14X17H2 Seat (cover) steel 20X13



Ball Valve DN 65 PN16 with Manual Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Body

Stem

Seat

Ball

Actuator type Connection

Weight, max, kg

KSh-50-16-R-NU-UKhL1-F-F 1.2750.298.301.00

65

1.6

manual

Flanged end, with counter flanges, fasteners and sealing parts (welded end)

14

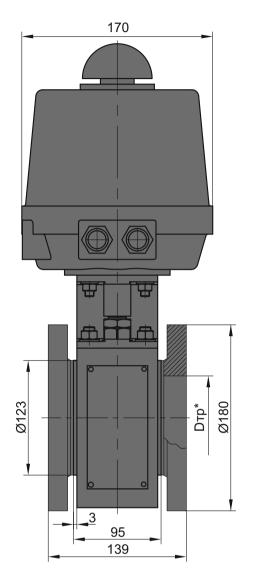
Material of main parts

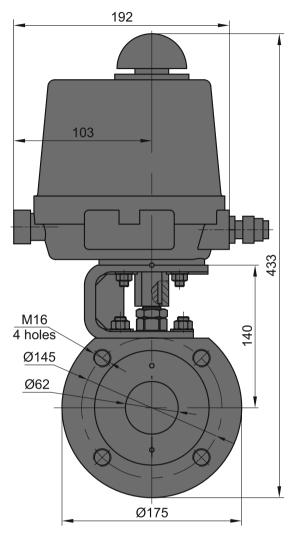
steel 10 Γ 2, zinc chromating 9 μ steel 20X13, HCP 21

steel 14X17H2 steel 20X13



65 Ball Valve DN 65 PN10 with Electric Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Ambient temperature, °C

Actuator type Voltage Connection

Weight without counterparts set, max, kg

KSh-65-10-EP-NU-UKhL1-F-F 1.2750.279.306.00

65 1.0

from -20 up to +45

electric

100-240 V/AC

Flanged end, with counter flanges, fasteners and sealing parts (welded end)

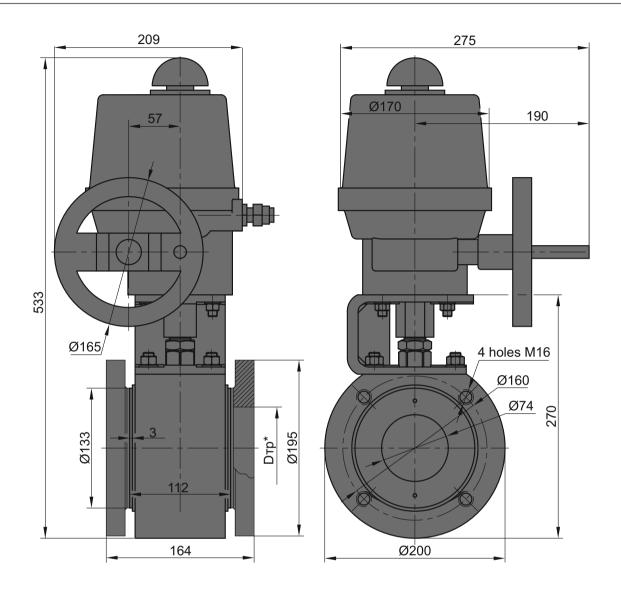
20

Material of main parts

Body steel 10 Γ 2, zinc chromating 12 μ Ball steel 20X13, HCP 21 μ Stem steel 14X17H2 Seat (cover) steel 20X13



Ball Valve DN 80 PN16 with Electric Actuator



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Actuator type

Voltage

Connection

Weight without counterparts set, max, kg

KSh-80-16-EP-NU-UKhL1-F-F 1.2750.260.306.00

80

1.6

electric

100-240 V/AC

Flanged end, with counter flanges, fasteners

and sealing parts (welded end)

30

Material of main parts

Body steel 20X13

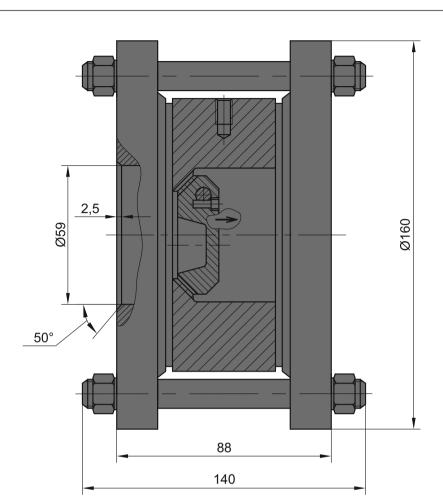
Ball steel 20X13, HCP 21 µ

Stem steel 14X17H2

Seat steel 08X18H10T

Counter flange steel 08X18H10T





Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection

Weight, max, kg

Material of main parts

ZO-50-16-F-F 1.2770.16.100.00-02

50 1.6

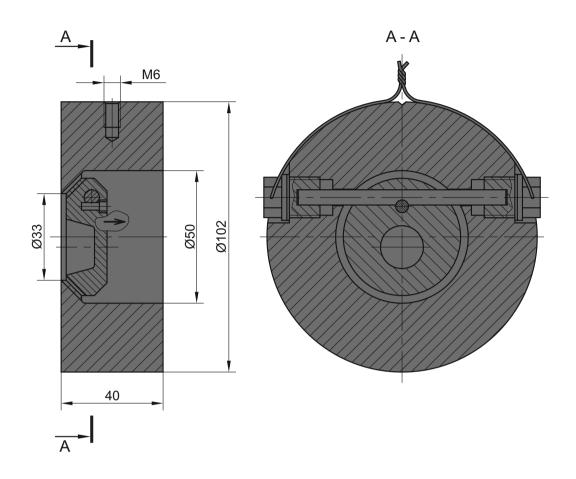
as per GOST 13252

Flanged end, with counter flanges, fasteners and sealing parts (WE)

9



Check Valve DN 50 PN 25



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection Weight, max, kg

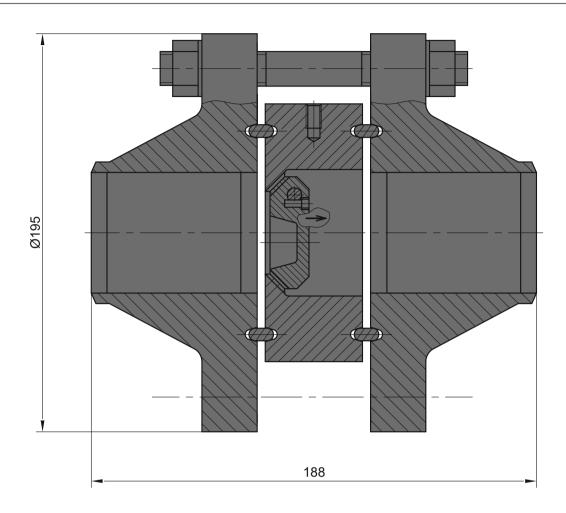
Material of main parts

ZO-50-25-F 1.2770.16.100.00-01

50 2.5 as per GOST 13252 Flanged end 2.3

steel 09Г2С





Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection

Weight, max, kg

Material of main parts

ZO-50-100-F-F 1.2770.23.100.00-01

50 10.0

as per GOST 13252

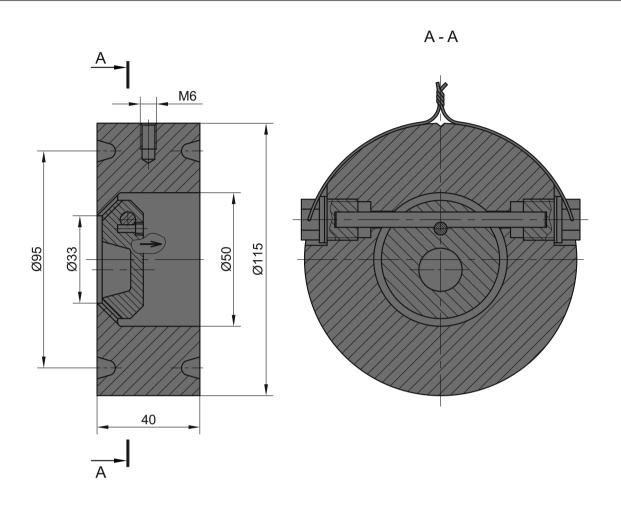
Flanged end, with counter flanges, fasteners and sealing parts (WE)*

14.7

steel 09Γ2C steel 10Γ2



^{*} Pipe is beveled to the pipe specified by a Customer.



Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection Weight, max, kg

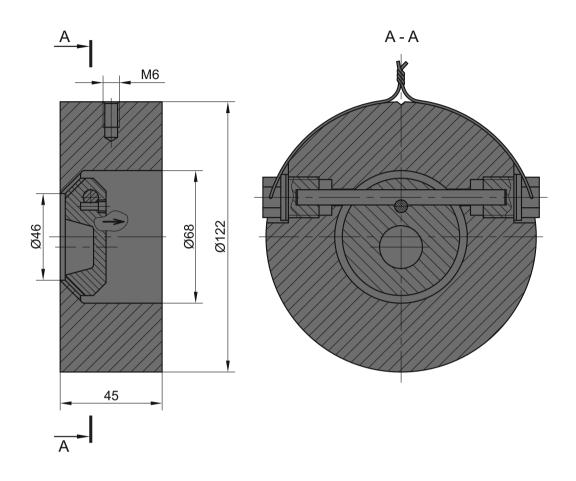
Material of main parts

ZO-50-160-F 1.2770.34.100.00

50 16.0 as per GOST 13252 Flanged end 2.8

steel 09Г2С





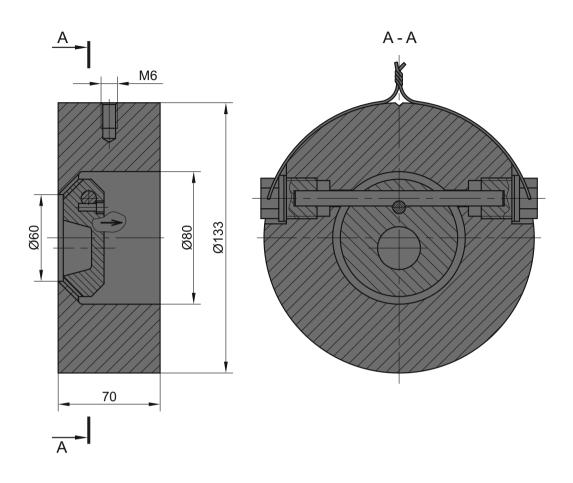
Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection Weight, max, kg

Material of main parts

ZO-65-25-F 1.2770.15.100.00-01

65 2.5 as per GOST 13252 Flanged end 3.4





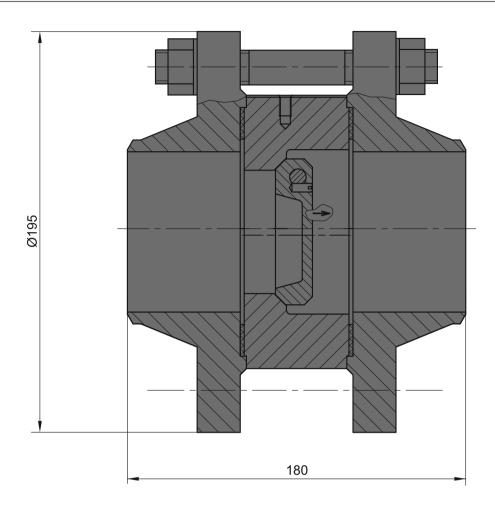
Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection Weight, max, kg

Material of main parts

ZO-80-25-F 1.2770.14.100.00-01

80 2.5 as per GOST 13252 Flanged end 6





Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Tightness Connection

Weight, max, kg

Material of main parts

ZO-80-40-F-F 1.2770.14.100.00-02

80 4.0

as per GOST 13252

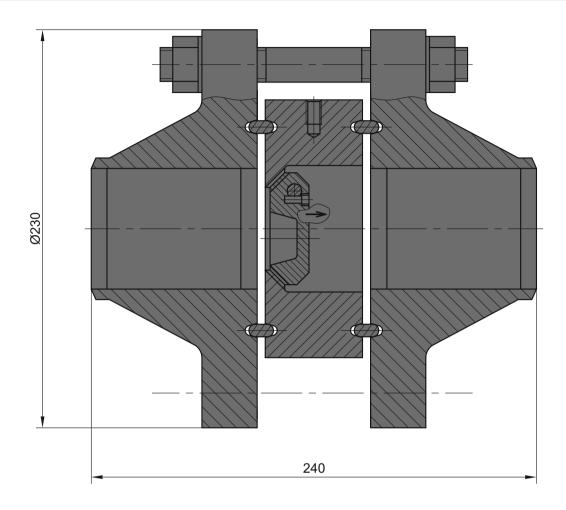
Flanged end, with counter flanges, fasteners and sealing parts (WE)*

17



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valve DN 80 PN 100



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection

Weight, max, kg

Material of main parts

ZO-80-100-F-F 1.2770.49.100.00-04

80 10.0

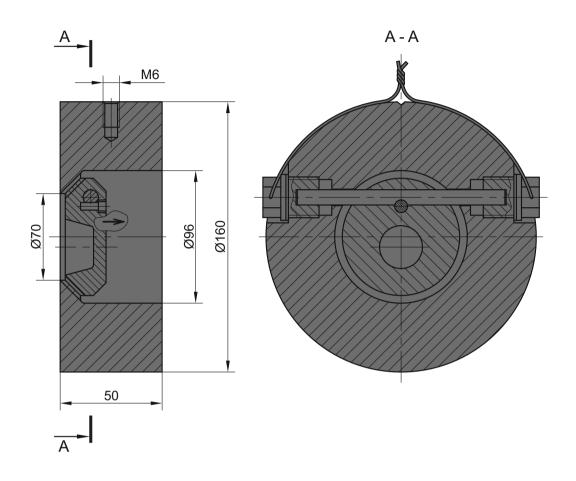
as per GOST 13252

Flanged end, with counter flanges, fasteners and sealing parts (WE)*

33



^{*} Pipe is beveled to the pipe specified by a Customer.



Diameter Nominal, DN, mm Pressure Nominal, PN, MPa **Tightness** Connection Weight, max, kg

Material of main parts

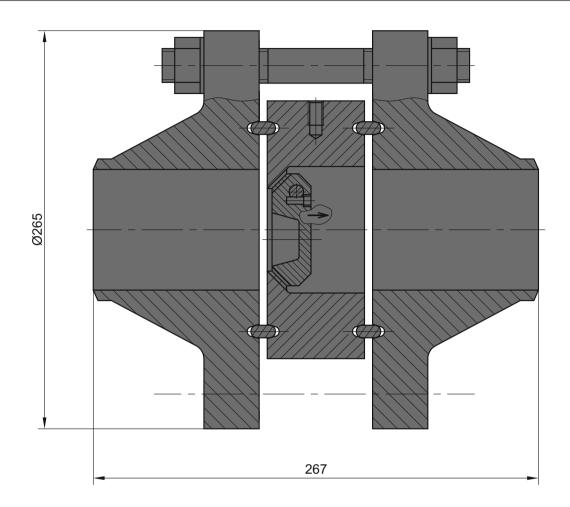
ZO-100-25-F 1.2770.141.100.00

100 2.5 as per GOST 13252 Flanged end 6.0

steel 10Γ2



76 Check Valve DN 100 PN 100



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa **Tightness** Connection

Weight, max, kg

Material of main parts

ZO-100-100-F-F 1.2770.33.100.00

100 10.0

as per GOST 13252

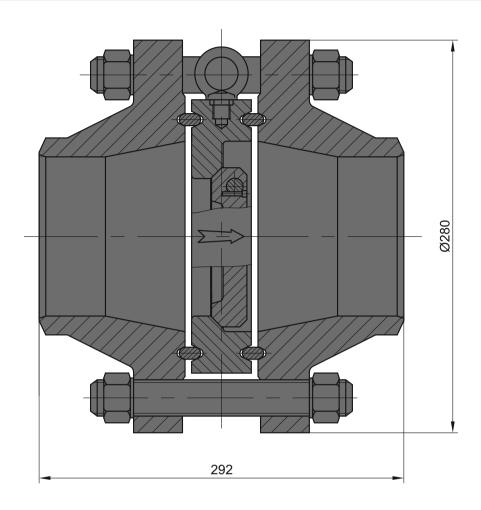
Flanged end, with counter flanges, fasteners and sealing parts (WE)*

50

steel 10Γ2



^{*} Pipe is beveled to the pipe specified by a Customer.



Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness

Connection

Weight, max, kg

Material of main parts

ZO-150-63-F-F 1.2770.47.100.00-03

150 6.3

as per GOST 13252

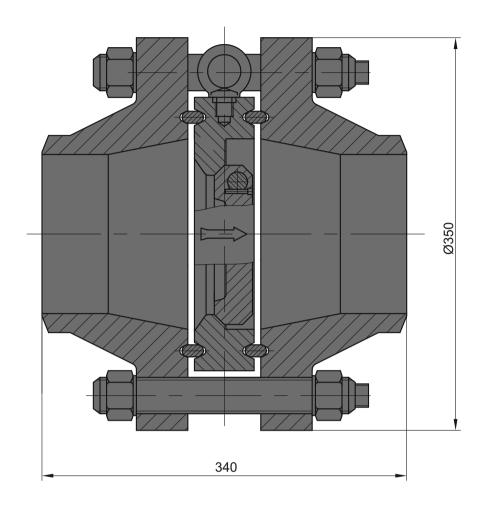
Flanged end, with counter flanges, fasteners and sealing parts (WE)*

86



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valve DN 150 PN 160



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness

Connection

Weight, (with mounting parts), max, kg

Material of main parts

ZO-150-160-F-F 1.2770.12.100.00

150 16.0

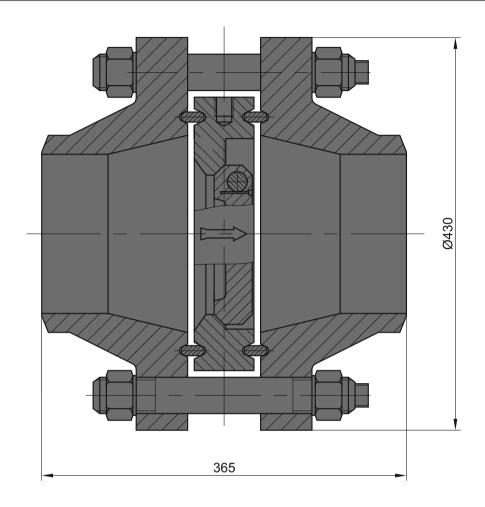
as per GOST 13252

Flanged end, with counter flanges, fasteners and sealing parts (WE)*

110



^{*} Pipe is beveled to the pipe specified by a Customer.



Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness

Connection

Weight, max, kg

Material of main parts

ZO-200-100-F-F 1.2770.59.100.00-02

200 10.0

as per GOST 13252

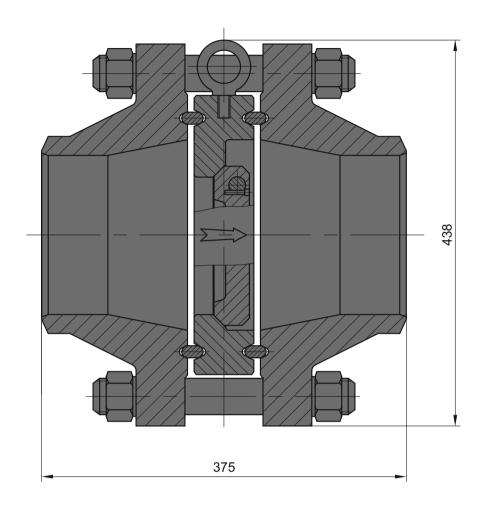
Flanged end, with counter flanges, fasteners and sealing parts (WE)*

170



^{*} Pipe is beveled to the pipe specified by a Customer.

Check Valve DN 200 PN 160



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Tightness Connection

Weight, max, kg

Material of main parts

ZO-200-160-F-F 1.2770.17.100.00

200 16.0

as per GOST 13252

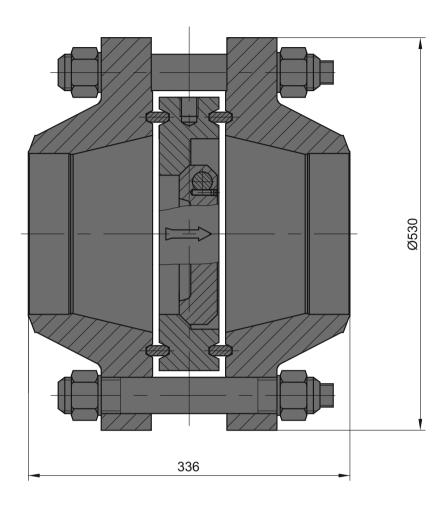
Flanged end, with counter flanges, fasteners and sealing parts (WE)*

184

steel 09Γ2C steel 10Γ2 steel 20X13



^{*} Pipe is beveled to the pipe specified by a Customer.



Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection

Weight, (with mounting parts), max, kg

Material of main parts

ZO-300-63-F-F 1.2770.45.100.00

300 6.3

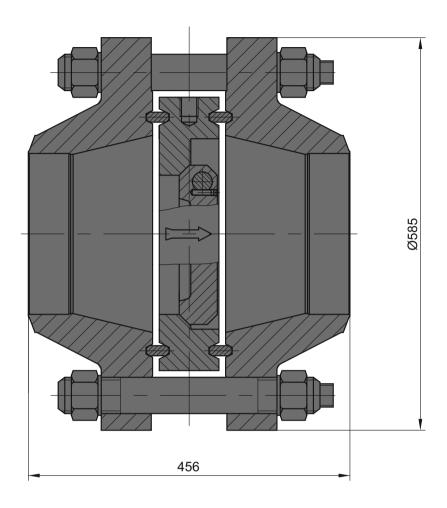
as per GOST 13252

Flanged end, with counter flanges, fasteners and sealing parts (WE)*

232



^{*} Pipe is beveled to the pipe specified by a Customer.



Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection

Weight, (with mounting parts), max, kg

Material of main parts

ZO-300-100-F-F 1.2770.45.100.00-01

300 10.0

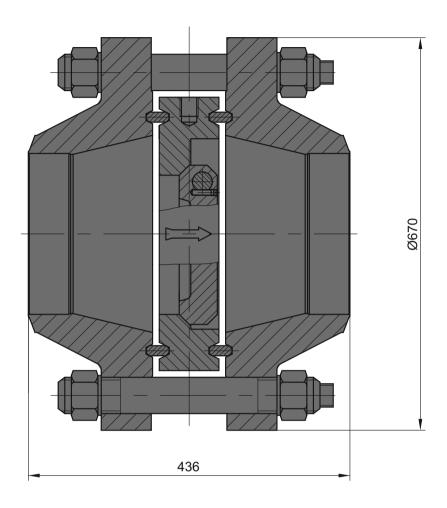
as per GOST 13252

Flanged end, with counter flanges, fasteners and sealing parts (WE)*

358



^{*} Pipe is beveled to the pipe specified by a Customer.



Diameter Nominal, DN, mm Pressure Nominal, PN, MPa Tightness Connection

Weight, (with mounting parts), max, kg

Material of main parts

ZO-400-63-F-F 1.2770.48.100.00-04

400 6.3

as per GOST 13252

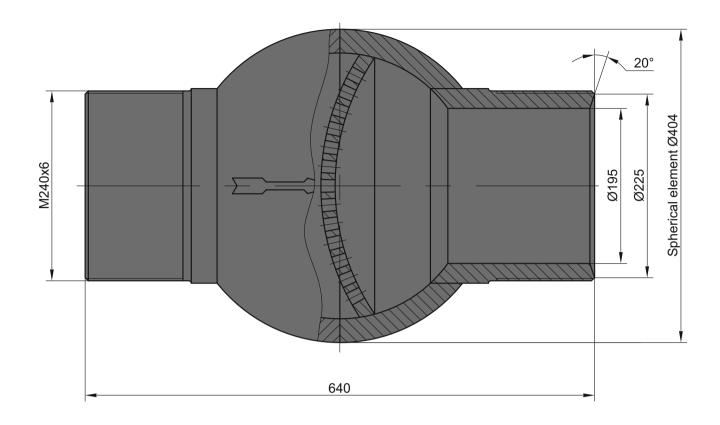
Flanged end, with counter flanges, fasteners and sealing parts (WE)*

565



^{*} Pipe is beveled to the pipe specified by a Customer.

Convex Strainer DN 200 PN 100



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Hydraulic pressure losses at nominal operation conditions, max, MPa

Connection

Weight, max, kg

RZ-200-100-L 1.2790.65.100.00

200 10.0

0.03

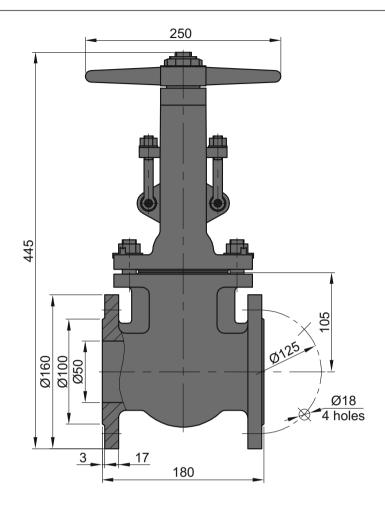
lens acc. to National Standard GOST 9400

150

Material of main parts

Bodysteel 09Γ2CConnection pipesteel 09Γ2CScreensteel 09Γ2C





Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Body

Cover

Stem

Wedge

Stem sealing

Fluid temperature, °C

Actuator type Connection Weight, max, kg ZKL-50-16-UKhL1 1.9000-468.08-00M

50 1.6

non-aggressive liquid or gaseous

up to plus 425 manual flanged 30

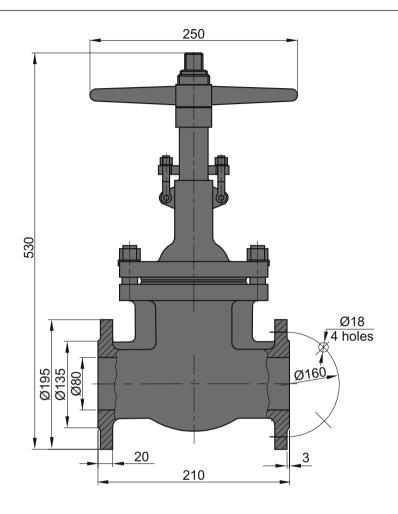
Material of main parts

steel 20ГЛ steel 20ГЛ steel 14X17H2 steel 09F2C-6

stem packing AΓИ6x6



86 Wedge Gate Valve DN 80 PN 16



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Body

Cover

Stem

Wedge

Stem sealing

Fluid temperature, °C

Actuator type Connection Weight, max, kg

ZKL-80-16-UKhL1 1.9000-469.01-00M

80 1.6

non-aggressive liquid or gaseous

up to plus 425 manual flanged

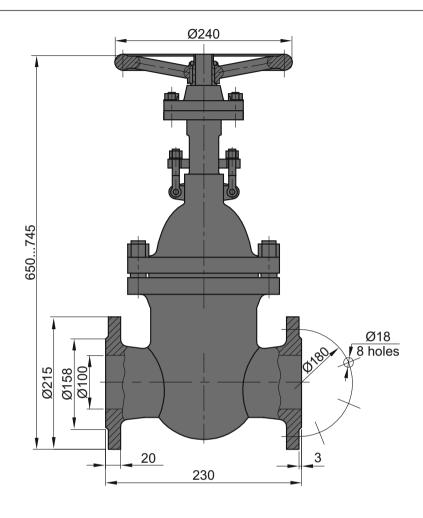
36

Material of main parts

steel 20ГЛ steel 20ГЛ steel 14X17H2 steel 09F2C-6

stem packing AΓИ6x6





Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Fluid temperature, °C

Actuator type Connection Weight, max, kg ZKL-100-16-UKhL1 1.2790.84.000.00-06

100 1.6

non-aggressive liquid or gaseous

up to plus 425 manual

flanged 65

Material of main parts

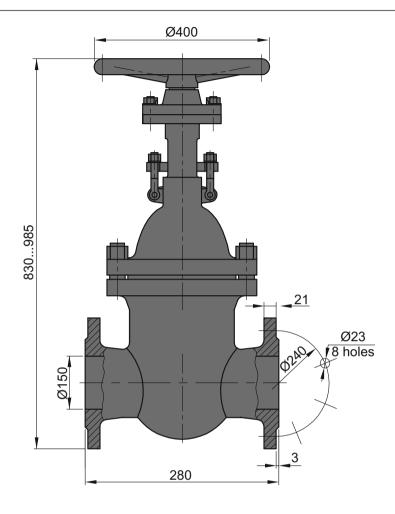
steel 20ГЛ steel 20ГЛ steel 14X17H2 steel 09Γ2C

stem packing AΓИ6x6

Body Cover Stem Wedge Stem sealing



88 Wedge Gate Valve DN 150 PN 16



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Fluid temperature, °C

Actuator type Connection Weight, max, kg

ZKL-150-16-UKhL1 1.2790.84.000.00-07

150 1.6

non-aggressive liquid or gaseous

up to plus 425 manual flanged

Material of main parts

105

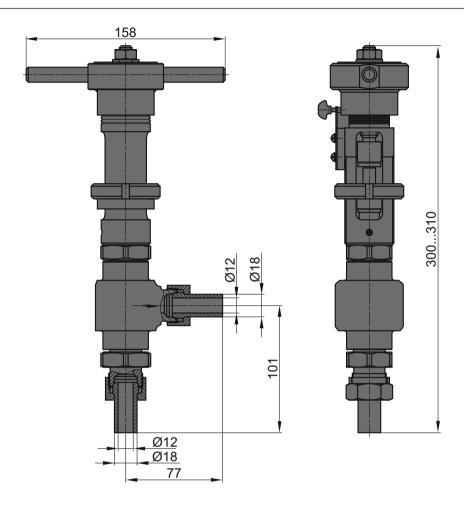
steel 20ГЛ steel 20ГЛ steel 14X17H2 steel 09Γ2C

stem packing AΓИ6x6

Body Cover Stem Wedge Stem sealing



Shut-off Control Valve DN 15 PN 250 Kv0.1



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Body

Fluid temperature, °C

Kv, m³/h Actuator type Connection Weight, max, kg

KZR-15-250-UKhL1 1.2790.251.000.00

15

25.0

non-aggressive liquid or gaseous minus 60 through plus 425

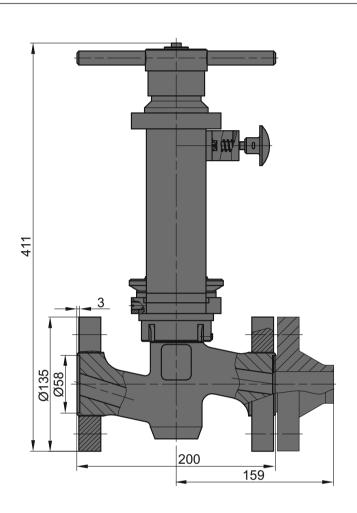
0.1 manual fitting 3.0

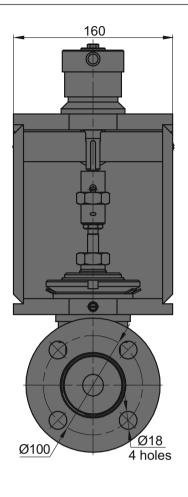
Material of main parts

steel 40X + zinc chromating 9µ steel 40X + zinc chromating 9µ steel 14X17H2 steel 12X13

stool 40Y

Shut-off Control Valve DN 25 PN 100 Kv8





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Fluid temperature, °C

Kv, m³/h Actuator type Connection

Weight without the mating parts set, max, kg

Weight with the mating parts set, max, kg

KZR-25-100-UKhL1 1.2790.222.000.00

25 10.0

non-aggressive liquid or gaseous

up to plus 120

0.8

manual

flanged with mating flanges*

16 23

Material of main parts

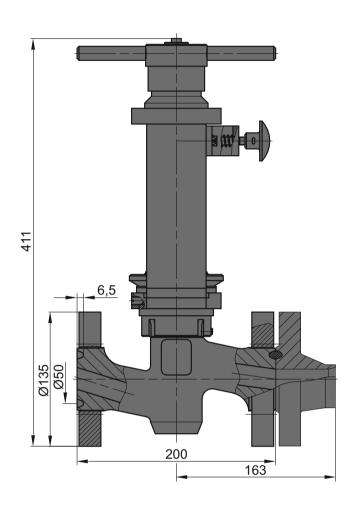
Body steel 09Γ2C + zinc chromating 9μ Upper rod steel 14X17H2

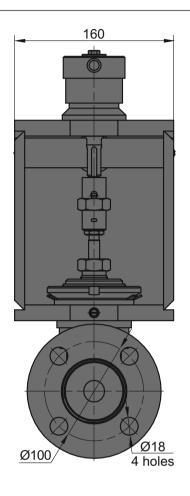
Rod steel 20X13 Rod seal fluoroplast Φ4K20 Counter flange steel 09F2C

^{*} Pipe is beveled to the pipe specified by a Customer.



Shut-off Control Valve DN 25 PN 160 Kv8 with Manual Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Fluid temperature, °C

Kv, m³/h Actuator type Connection

Weight without the mating parts set, max, kg

Weight with the mating parts set, max, kg

KZR-25-160-UKhL1 1.2790.242.000.00

25 16.0

non-aggressive gaseous

up to plus 120

0.8

manual

flanged with mating flanges*

16.5

23.0

Material of main parts

Body steel 09Γ2C + zinc chromating 9μ Upper rod steel 14X17H2

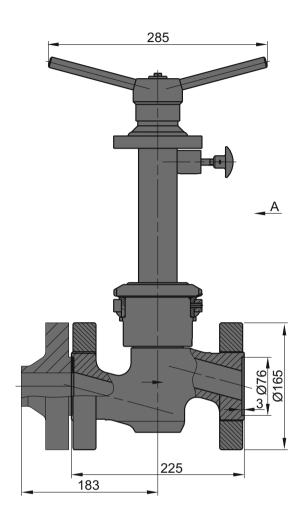
Rod steel 20X13 Rod seal fluoroplast Φ4K20

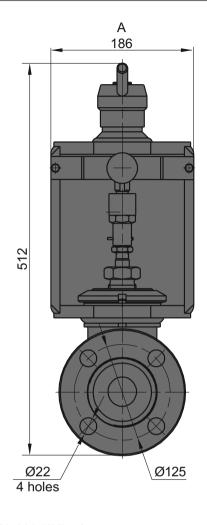
Counter flange steel 09F2C



^{*} Pipe is beveled to the pipe specified by a Customer.

Shut-off Control Valve DN 40 PN 100 Kv32 with Manual Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Fluid temperature, °C

Kv, m³/h Actuator type Connection

Weight without the mating parts set, max, kg Weight with the mating parts set, max, kg

KZR-40-100-UKhL1 1.2790.223.000.00-02

40 10.0

non-aggressive liquid

up to plus 120 32.0

manual

flanged with mating flanges*

26 38

Material of main parts

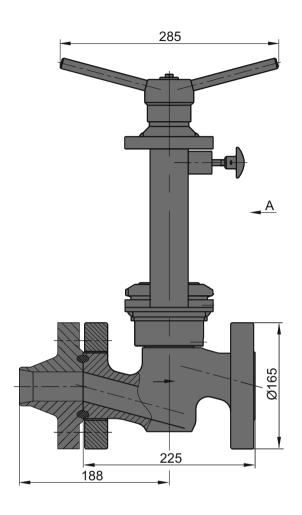
Body Upper rod Rod Rod seal Counter flange steel 09Γ2C + zinc chromating 9μ steel 14X17H2

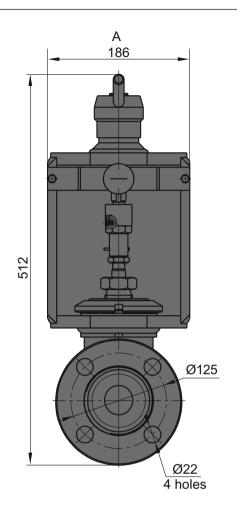
steel 20X13 fluoroplast Φ4K20 steel 09F2C

^{*} Pipe is beveled to the pipe specified by a Customer.



Shut-off Control Valve DN 40 PN 160 Kv32 with Manual Actuator





Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Fluid temperature, °C

Kv, m³/h Actuator type Connection

Weight without the mating parts set, max, kg

Weight with the mating parts set, max, kg

KZR-40-160-UKhL1 1.2790.243.000.00-02

40 16.0

non-aggressive liquid or gaseous

up to plus 120

32.0 manual

flanged with mating flanges*

26 38

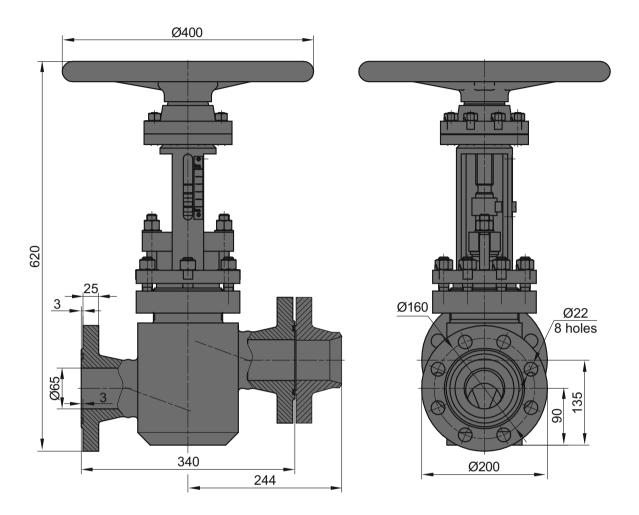
Material of main parts

Body Upper rod Rod Rod seal Counter flange steel 09Γ2C + zinc chromating 9μ steel 14X17H2 steel 20X13 fluoroplast Φ4K20 steel 09F2C



^{*} Pipe is beveled to the pipe specified by a Customer.

Shut-off Control Valve DN 65 PN 63



Product designation Figure designation

Diameter Nominal, DN, mm Pressure Nominal, PN, MPa

Fluid

Fluid temperature, °C

Kv, m³/h Actuator type Connection

Weight without the mating parts set, max, kg

Weight with the mating parts set, max, kg

KZR-65-63-UKhL1 1.2790.255.000.00

65 6.3

non-aggressive liquid or gaseous

up to plus 350

80

manual

flanged with mating flanges*

72 91

Material of main parts

Body steel $09\Gamma 2C$ + zinc chromating 9μ Rod steel 20X13

Rod steel 20X13
Rod seal tamping AΦT 6x6
Counter flange steel 09Γ2C

^{*} Pipe is beveled to the pipe specified by a Customer.



95 Data Sheet for Ball Valve

Sumy NPO		BALL VALVE	Page 1 f	rom 2
Specification No.		Data Sheet No.		
Date: 20		Customer -		
Tel: +38 0542 77-32-29; 24-37-75		Designer - Sumy NPO		
Fax: +	38 0542 77-32-28; 22-55-32	Object -		
1	Designation			
	Drawing No.			
2	Quantity	Pcs.		
3	Diameter Nominal	DN, mm		
4	Pressure Nominal	PN, bar		
5	Pipeline diameter	Outside (mm)		
6	Pipe wall thickness	mm		
7	Pipe material	Steel grade, Standard		
8	Pup carbon equivalent	[C]e, max		
9	Pipeline position	horizontal / vertical		
10	Installation	Above-ground / under-ground		
11	Depth from ground surface to pipe top (for underground installation)	mm		
12	Connection	Welded end / flanged		
13	Counter-flanges	yes / no		
14	Working medium			
15	Aggressive components of working medium	mg/m³, max		
16	Mechanical impurities in working medium	g/m³, max		
17	Working medium temperature	°C		
18	Ambient temperature	°C		
19	Working pressure	bar		
20	Max. pressure differential	bar		
21	Max. pressure differential under operation	bar		
22	Ball valve body type	welded / split		
23	Seat tightness	Bi-directional / uni-directional		
24	Tightness class	A, B, C, D as per GOST 9544.2005 or ISO 5208		
		1, 2, 3 as per GOST 9544-75		
25	Seat sealing	elastomeric / metal-to-metal		
26	Protective coating	local / remote / local + remote		
27	Actuator type	manual / electric / electro-hydraulic / pneumatic / pneumatic-and-hydraulic		
28	Type of operating medium (for pneumatic and pneumatic-and-hydraulic actuators)	From the pipe / from a separate source (power gas)		
29	Power gas pressure	bar		
30	Manual override	yes / no		
31	Limit switch	yes / no		



Data Sheet for Ball Valve

Sumy NPO		BALL VALVE	Page 2 from 2	
Specification No.		Data Sheet No.		
Date: 20		Customer -		
Tel: -	+38 0542 77-32-29; 24-37-75	Designer - Sumy NPO		
Fax: -	+38 0542 77-32-28; 22-55-32	Object -		
32	Nominal voltage of control unit	24 / 110 / 220V AC/DC		
33	Nominal voltage of limit switches	24 / 110 / 220V AC/DC		
34	Motor power voltage (for electric and electro-hydraulic actuators)	24 / 110 / 220 / 380 V AC / DC		
35	Valve emergency shut off automatic device (Manufacturer)	/alve emergency shut off automatic device Manufacturer) yes / no		
36	Protective covering type	Over-ground part: polymer / paint		
		Under-ground part: polymer / paint		
37	Paint	color		
	Name	Signature / Date	Tel. / Fax	
Desig	ned			
Appro	oved			

When ordering, please specify product and drawing designation.

The example of an order: KSh-1000-100-PGP-PU-UKhL1-Pr, voltage 24 V; 1.2750.150.104.00-02

where

KSh - ball valve;

1000 - Diameter Nominal, DN, mm; 100 - Pressure Nominal, PN, bar;

PGP - Pneumatic-and-Hydraulic Actuator (R - Manual Actuator; RP - Manual Mechanical Actuator; PP - Pneumatic Actuator; PGP - Pneumatic-and-Hydraulic Actuator; EP - Electric Actuator); PU - under-ground installation; (NU - over-ground installation; PU - under-ground installation);

UKhL1 - for areas with temperate and cold climate (temperature range -60°C - +45°C) (U1 - for districts with temperate climate; KhL1 - for districts with cold climate);

Pr - welded end connection (F-F - flanged connection with counter flanges, fasteners and sealing parts

Pr - welded end);

Control unit - 24 V (24,110, 220 V); 1.2750.150.104.00-02 - drawing designation.

When ordering, please specify dimensions, material and mechanical properties of the pipe to be connected to.



97 Data Sheet for Check Valve

Sumy NPO	CHECK VALVE	Page 1 from 1	
Specification No.	Data Sheet No.		
Date: 20	Customer -		
Tel: +38 0542 77-32-29; 24-37-75	Designer - Sumy NPO		
Fax: +38 0542 77-32-28; 22-55-32	Object -		

ı ax	00 00-	72 77 02 20, 22 00 02	Object	
1	1 Designation			
	Drawi	ng No.		
2	Quant	tity	Pcs.	
3	Nomir	nal diameter	DN, mm	
4	Nomir	nal pressure	PN, bar	
5	Pipelir	ne diameter	Outside (mm)	
6	Pipe v	vall thickness	mm	
7	Pipe n	material	Steel grade, Standard	
8	Pup c	arbon equivalent	[C]e, max	
9	Pipelir	ne position	Horizontal /	
10	Install	ation	Over-ground / under-ground	
11	Conne	ection	Welded end / flanged end	
12	Count	er-flanges	yes / no	
13	Worki	ng medium		
14	Aggre	ssive components of working medium	mg/m³, max	
15	Mechanical impurities in working medium		g/m³, max	
16	Worki	ng medium temperature	°C	
17	Ambie	ent temperature	°C	
18	Work	pressure	bar	
19	Мах. р	pressure differential	bar	
20	Worki	ng medium velocity (flow rate)	m/sec (nm³/min)	
21	Туре		swing	
22	Body type		welded / split	
23	Damper availability		yes / no	
24	Protective covering type		polymer / paint	
25	Paint		color	
26	Additional data:			
		Name	Signature / Date	Tel. / Fax
Desig	ned			
Appro	ved			

When ordering, please specify product and drawing designation. *The example of an order:* ZO-300-100-Pr; 1.2770.56.200.00-01.

where

ZO - check valve;

300 - Diameter Nominal, DN, mm; 100 - Pressure Nominal, PN, bar; Pr - welded end (F-F - flanged co

- welded end (F-F - flanged connection with counter flanges, fasteners and sealing parts

Pr – welded end);

1.2770.56.200.00-01 - drawing designation.

When ordering, please specify dimensions, material and mechanical properties of the pipe to be connected to.



Data Sheet for Convex Strainer

Sumy NPO		Sumy NPO	CONVEX STRAINER	Page 1 from 1	
Specification No.		No.	Data Sheet No.		
Date: 20			Customer -		
Tel: +38 0542 77-32-29; 24-37-75			Designer - Sumy NPO		
Fax:	+38 054	2 77-32-28; 22-55-32	Object -		
1	Design	nation			
	Drawir	ng No.			
2	Quant	ity	Pcs.		
3	Diame	eter Nominal	DN, mm		
4	Pressi	ure Nominal	PN, MPa		
5	Pipelir	ne diameter	Outside, mm		
6	Pipe w	vall thickness	mm		
7	Pipe n	naterial	Steel grade, ов, от, MPa		
8	Workin	ng pressure	MPa		
9	Pipelir	ne position	Horizontal /		
10	Installa	ation	Over-ground / under-ground		
11	Conne	ection	Welded end		
12	Workin	ng medium			
13	Aggre	ssive components of working medium	% the volume		
14	Workir	ng medium velocity	m/sec min, nom, max		
15	Workin	ng medium temperature	°C		
16	Ambie	nt temperature	°C		
17	Мах. р	pressure differential	MPa		
18	Pressi	ure losses at nominal conditions	MPa		
19	Materi	al			
20	Protec	tive covering type	polymer / paint		
21	Paint		color		
22	Additio	onal data:			
		Name	Signature / Date	Tel. / Fax	
Designed Name		IACILIC	Oignature / Date	16ι. / 1 αλ	
	,				
Appro	oved				

When ordering, please specify product and drawing designation.

The example of an order: RZ-400-100-Pr; 1.2790.163.100.00.

where RZ

- convex strainer;

400 - Diameter Nominal, DN, mm; 100 - Pressure Nominal, PN, bar; Pr - welded end (Pr – welded end

- welded end (Pr - welded end; L - lens connection (acc. to National Standard GOST 9400));

1.2790.163.100.00 - drawing designation.

When ordering, please specify dimensions, material and mechanical properties of the pipe to be connected to.



99 List of Specifications for Valves Given in the Catalog

TU 26-07-1346-84 Check valve DN 700
 TU 26-07-1391-86 Check valve DN 1000

3. TU U3.20-05747991-026-95 Check valves for gas industry

4. TU U3.20-05747991-032-96 Convex strainers

5. TU 26-07-1365-85 Ball valves DN 500 with mechanical actuator

6. TU 26-07-1419-87 Ball valves DN 500 with pneumatic-and-hydraulic actuator

7. TU U3.20-05747991-025-95 Ball valves DN 300, 400 with manual and pneumatic-and-hydraulic actuators
8. TU U3.20-05747991-037-97 Ball valves DN 700 with manual and pneumatic-and-hydraulic actuators

9. TU U3.88-05747991-003-99 Spherical valves for gas industry



100 Certificates and Approvals

Certificates of compliance:

- ISO 9001:2008 quality management system certificate;
- OHSAS 18001-2007 occupational health and safety management system certificate;
- ISO 14001-2004 Environmental management system certificate.

