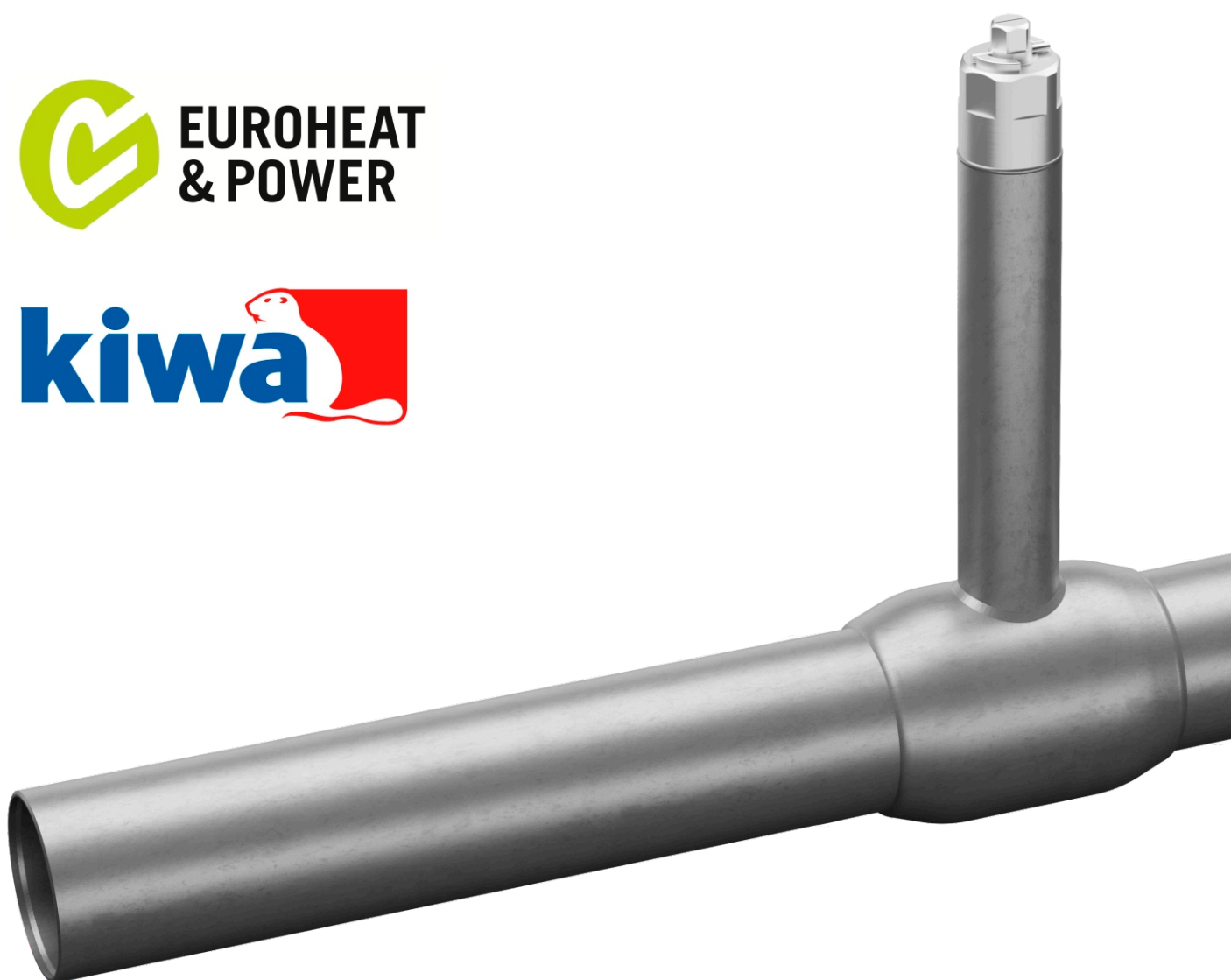




# CATALOGUE

## UNDERGROUND BALL VALVES



[www.chsgs.ru](http://www.chsgs.ru)

# UNDERGROUND BALL VALVE

## REDUCED BORE

### FREE SHAFT DN25-100

#### MATERIAL SPECIFICATION

**Body:** carbon steel

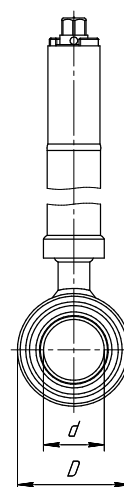
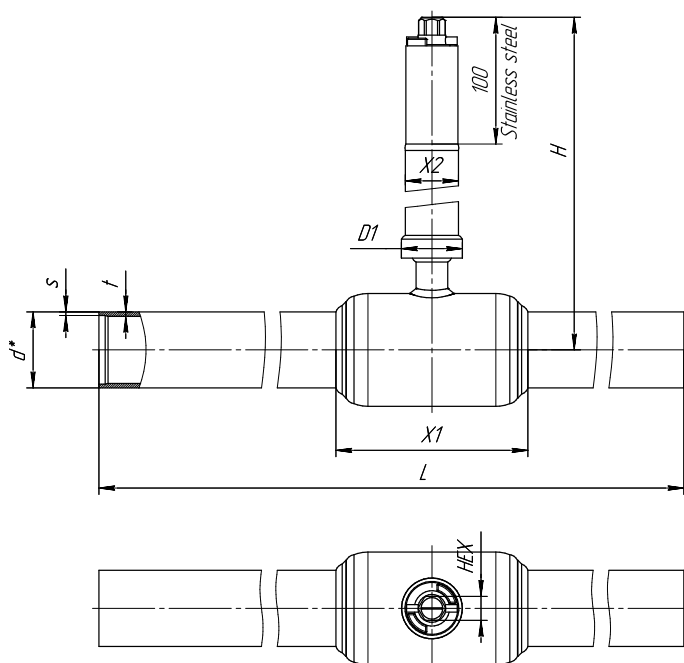
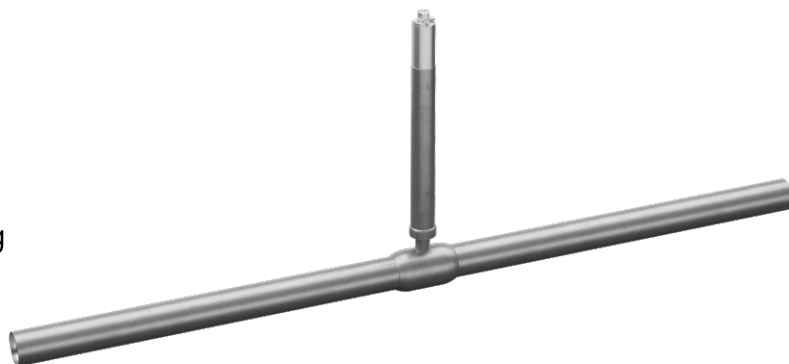
**Ball:** stainless steel AISI 304, AISI 409

**Ball seal:** PTFE+C with additional FVMQ sealing

**Stem:** carbon steel

**Stem sealing:** EPDM, FVMQ

**Stem top:** stainless steel AISI 321



DN	PN	Code	d	d*	D	D1	H	X1	X2	s	t	L	HEX1	HEX2	Weight
25	40	HSL2259403	18	33,7	48	48	480	69	42	2,3	3,5	1510	19	-	6,8
32	40	HSL2329403	24	42,4	57	48	485	84	42	2,6	4	1510	19	-	8,9
40	40	HSL2409403	30	48,3	60	48	495	93	42	2,6	4	1510	19	-	9,9
50	40	HSL2509403	40	60,3	76	48	500	113	42	2,9	3,5	1510	19	-	12,4
65	25	HSL2659253	49	76,1	89	48	504	130	42	2,9	4	1510	19	-	16,6
80	25	HSL2809253	63	88,9	114	57	515	160	48	3,2	4	1510	19	-	22,2
100	25	HSL21009253	75	114,3	133	89	525	180	76	3,6	5	1510	27	70	31,6

# UNDERGROUND BALL VALVE

## REDUCED BORE

### FREE SHAFT DN125-400

#### MATERIAL SPECIFICATION

**Body:** carbon steel

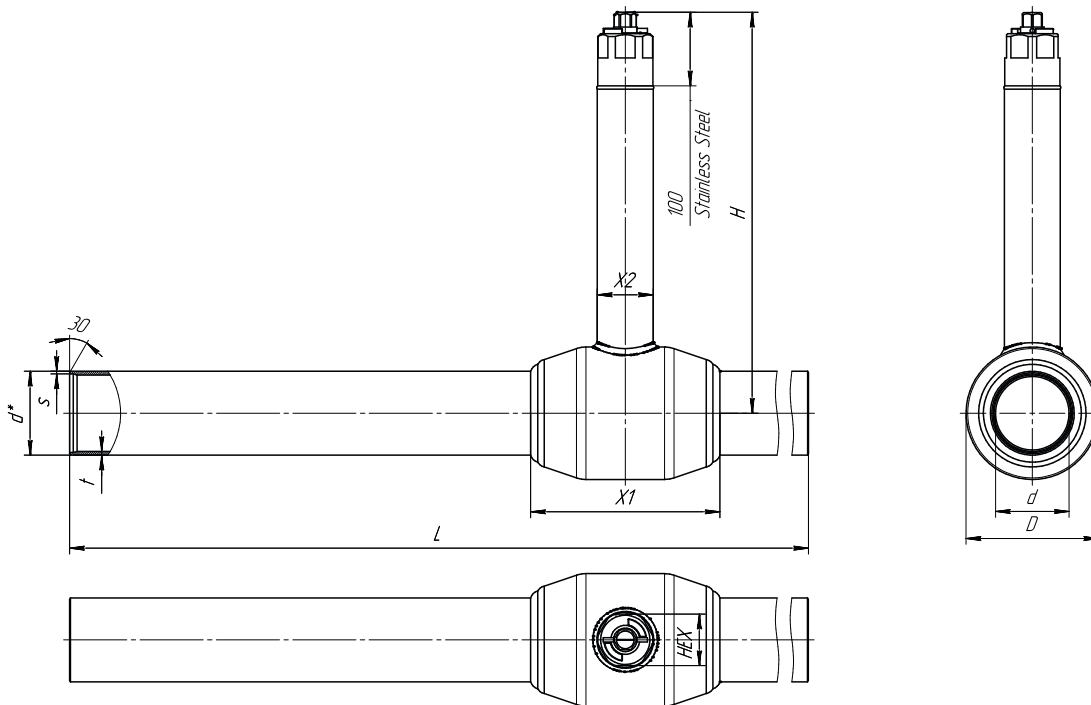
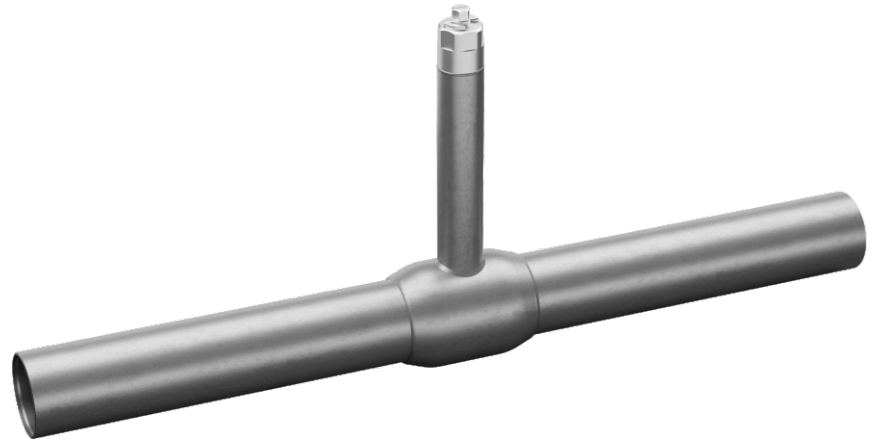
**Ball:** stainless steel AISI 304, AISI 409

**Ball seal:** PTFE+C with additional FVMQ  
sealing

**Stem:** carbon steel

**Stem sealing:** EPDM, FVMQ

**Stem top:** stainless steel AISI 321



DN	PN	Code	d	d*	D	H	X1	X2	s	t	L	HEX1	HEX2	Weight
125	25	HSL21259253	100	139,7	180	545	226	76	4	5	1510	27	70	40,2
150	25	HSL21509253	125	168,3	219	565	259	76	4,5	6	1510	27	70	58,5
200	25	HSL22009253	148	219,1	273	585	310	102	4,5	8	1510	50	90	100,5
250	25	HSL22509253	200	273	351	613	392	102	5	8	1510	50	90	142,1
300	25	HSL23009253	240	323,9	426	664	485	102	6,3	10	1810	50	90	242,5
350	25	HSL23509253	300	355,6	530	664	544	133	6,3	10	1810	50	90	319,9
400	25	HSL24009253	300	406	530	793	655	133	7	10	1810	50	90	428,9

# UNDERGROUND BALL VALVE

## REDUCED BORE

### AIR RELEASE DN15-50

#### MATERIAL SPECIFICATION

**Body:** stainless steel AISI321

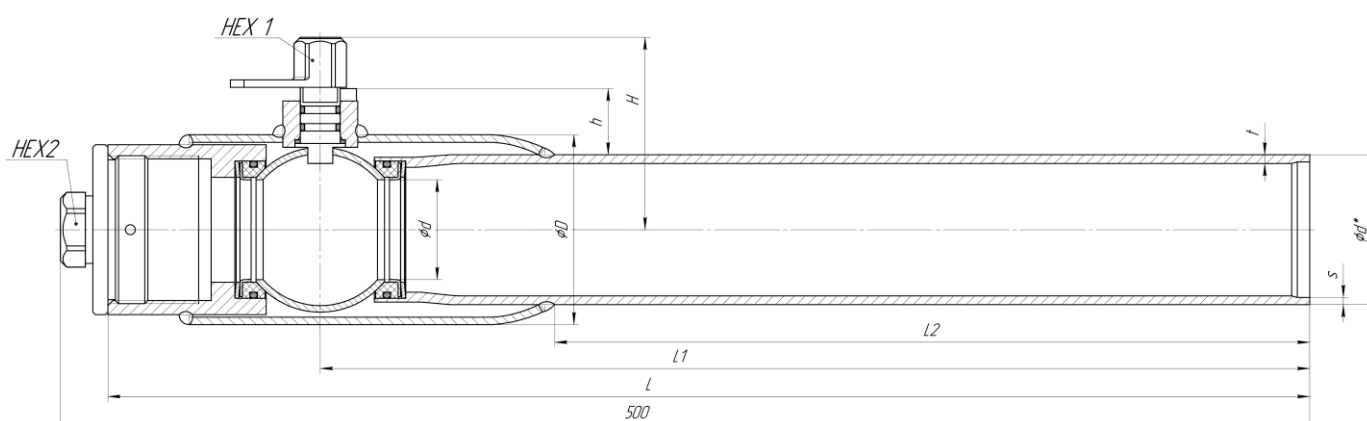
**Ball:** stainless steel AISI 304, AISI 409

**Ball seal:** PTFE+C with additional FVMQ sealing

**Stem:** stainless steel AISI321

**Stem sealing:** EPDM, FVMQ

**Stem top:** stainless steel AISI 321



DN	PN	Code	d	d*	D	H	L1	L2	s	t	L	HEX1	HEX2	Weight
15	40	HSL4159401	10	21,3	38	58	417	330	2	3	485	19	19	1,34
20	40	HSL4209401	15	26,9	42	59	415	335	2	3	485	19	19	1,48
25	40	HSL4259401	18	33,7	48	61	417	337	2,3	3,5	485	19	19	2,04
32	40	HSL4329401	24	42,4	57	66	415	332	2,6	4	483	19	27	2,8
40	40	HSL4409401	30	48,3	60	69	403	320	2,6	4	487	19	27	3,24
50	40	HSL4509401	40	60,3	76	77	396	303	2,9	3,5	481	19	27	4,18
65	25	HSL4659251	48	76,1	89	84	376	290	2,9	4	471	19	27	6,2
80	25	HSL4809251	63	88,9	114	113	371	264	3,2	4	470	27	50	10,3
100	25	HSL41009251	75	114,3	133	122	350	236	3,6	5	470	27	50	14,4

# UNDERGROUND BALL VALVE

## REDUCED BORE

### ISO-TOP DN150-500

#### MATERIAL SPECIFICATION

**Body:** carbon steel

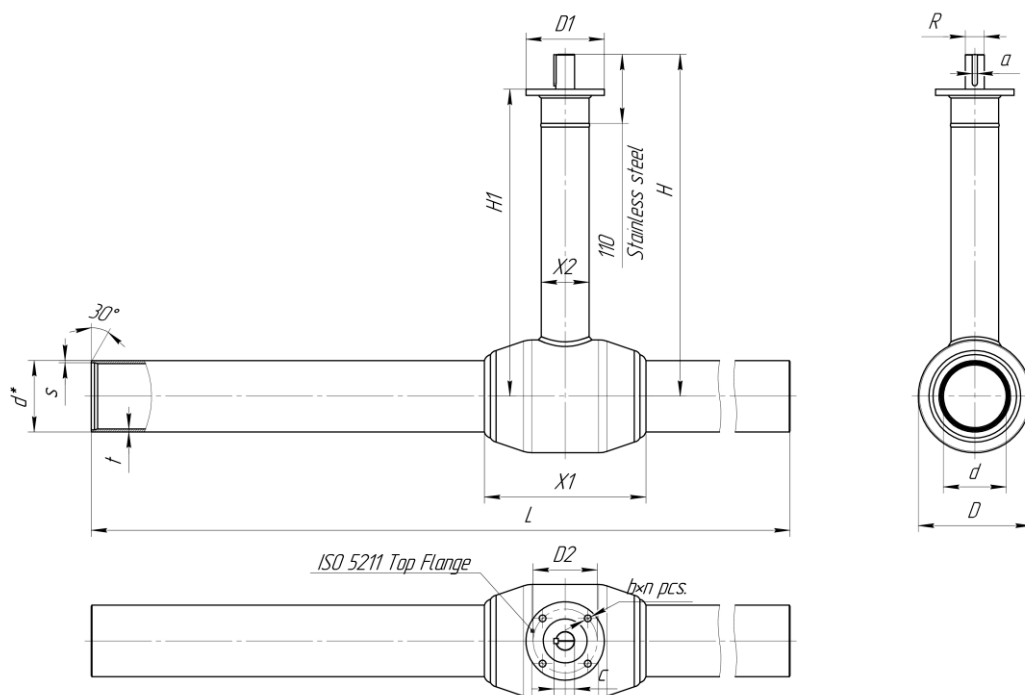
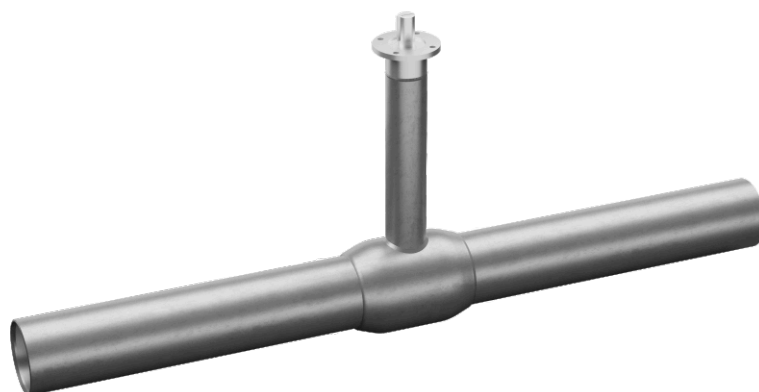
**Ball:** stainless steel AISI 304, AISI 409

**Ball seal:** PTFE+C with additional FVMQ sealing

**Stem:** carbon steel

**Stem sealing:** EPDM, FVMQ

**Stem top:** stainless steel AISI 321



DN	PN	Code	d	d*	D	D1	D2	C	s	t	a	R	H	H1	X1	X2	L1	L	Weight
125	25	HSL21259253/E	100	140	180	125	102	33	4	5	8	30	545	489	226	76	325	1510	39,1
150	25	HSL21509253/E	125	168	219	125	102	33	4,5	6	8	30	565	509	259	76	350	1510	55,6
200	25	HSL22009253/E	148	219	273	125	102	33	4,5	8	8	30	585	529	319	76	400	1510	94,4
250	25	HSL22509253/E	200	273	351	150	125	38	5	8	10	35	613	557	406	76	530	1510	135
300	25	HSL23009253/E	259	324	426	210	165	53,5	6,3	10	14	50	664	582	499	89	730	1810	230
350	25	HSL23509253/E	300	356	530	210	165	64	6,3	10	18	60	664	586	561	133	760	1810	304
400	25	HSL24009253/E	300	406	530	210	165	64	7	10	18	60	792	714	673	133	860	1810	413
500	25	HSL25009253/E	390	508	630	300	254	95	7	10	25	90	824	705	579	180	970	1810	562

# UNDERGROUND BALL VALVE

## FULL BORE

### FREE SHAFT DN25-80

#### MATERIAL SPECIFICATION

**Body:** carbon steel

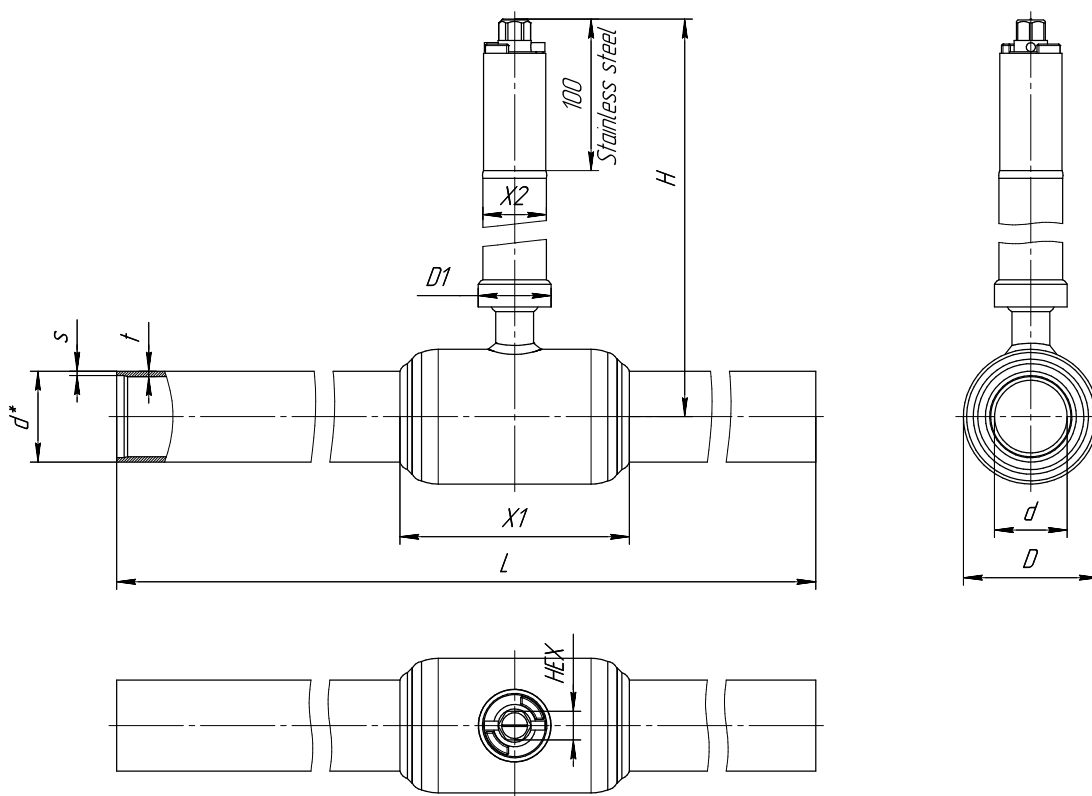
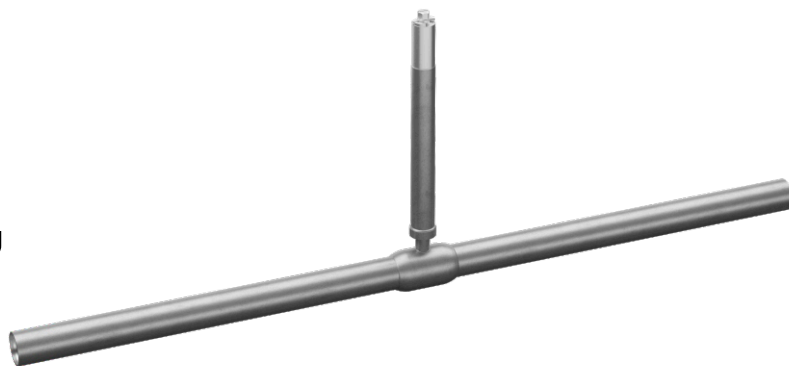
**Ball:** stainless steel AISI 304, AISI 409

**Ball seal:** PTFE+C with additional FVMQ sealing

**Stem:** carbon steel

**Stem sealing:** EPDM, FVMQ

**Stem top:** stainless steel AISI 321



DN	PN	Code	d	d*	D	D1	H	X1	X2	s	t	L	HEX1	HEX2	Weight
25	40	HSL225403	24	33,7	57	48	485	96	42	2,3	3,5	1510	19	-	7,8
32	40	HSL232403	30	42,4	60	48	495	102	42	2,6	4	1510	19	-	9,0
40	40	HSL240403	40	48,3	76	48	500	125	42	2,6	4	1510	19	-	10,5
50	40	HSL250403	48	60,3	89	48	504	152	42	2,9	3,5	1510	19	-	12,9
65	25	HSL265253	63	76	114	57	515	174	48	2,9	4	1510	19	-	16,7
80	25	HSL280253	75	88,9	133	89	525	197	76	3,2	4	1510	27	70	24,1

# UNDERGROUND BALL VALVE

## FULL BORE

### FREE SHAFT DN100-300

#### MATERIAL SPECIFICATION

**Body:** carbon steel

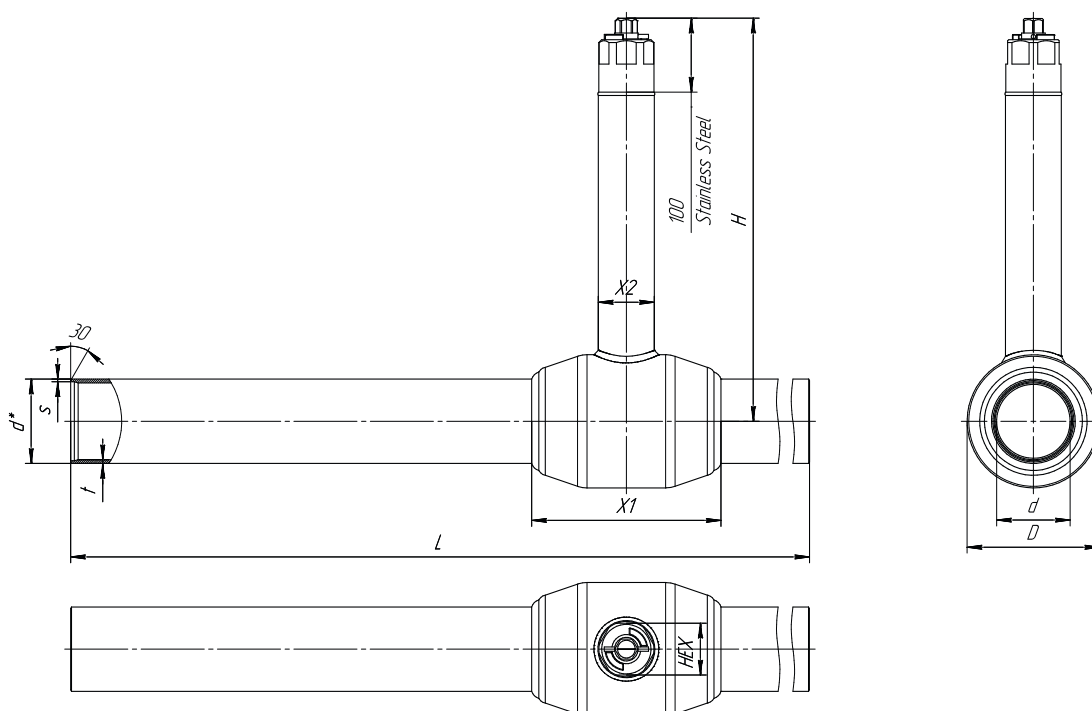
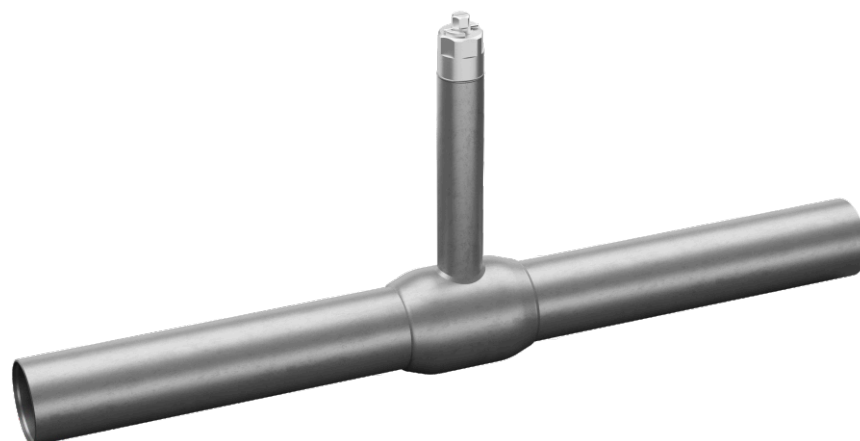
**Ball:** stainless steel AISI 304, AISI 409

**Ball seal:** PTFE+C with additional FVMQ  
sealing

**Stem:** carbon steel

**Stem sealing:** EPDM, FVMQ

**Stem top:** stainless steel AISI 321



DN	PN	Code	d	d*	D	H	X1	X2	s	t	L	HEX1	HEX2	Weight
100	25	HSL2100253	100	114,3	180	545	258	76	3,6	5	1510	27	70	33,8
125	25	HSL2125253	125	139,7	219	565	307	76	4	5	1510	27	70	47,5
150	25	HSL2150253	148	168,3	273	585	309	102	4,5	6	1510	50	90	72,5
200	25	HSL2200253	200	219	351	613	402	102	5	8	1510	50	90	117,7
250	25	HSL2250253	240	273	426	664	537	102	5	8	1510	50	90	204,6
300	25	HSL2300253	300	323,9	530	664	558	133	6,3	10	1810	50	90	267,0

# UNDERGROUND BALL VALVE

## FULL BORE

### ISO-TOP DN100-500

#### MATERIAL SPECIFICATION

**Body:** carbon steel

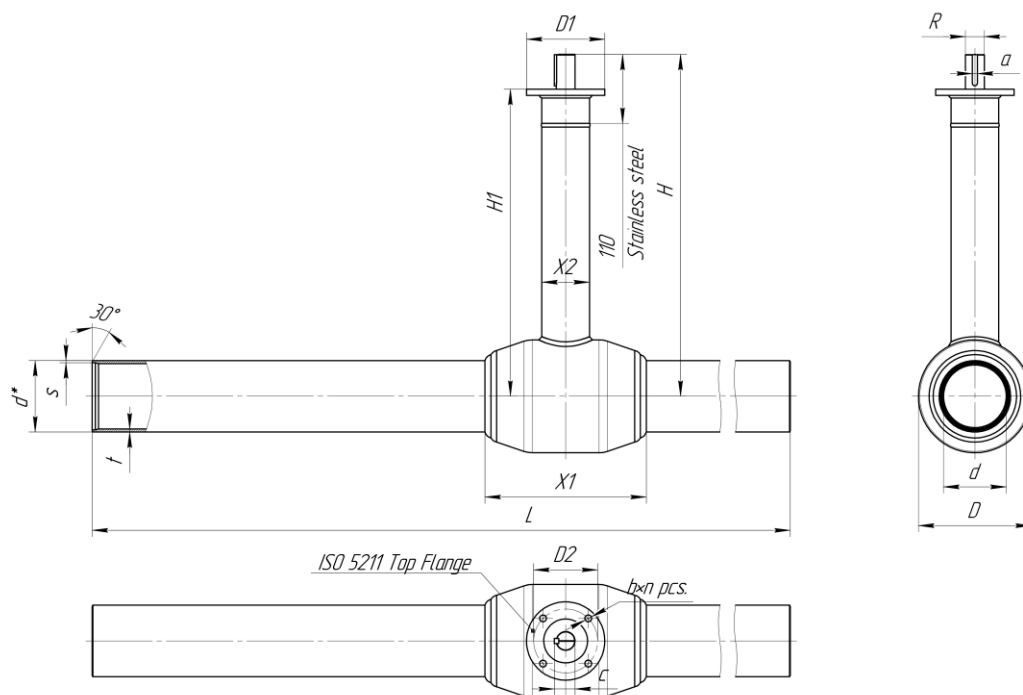
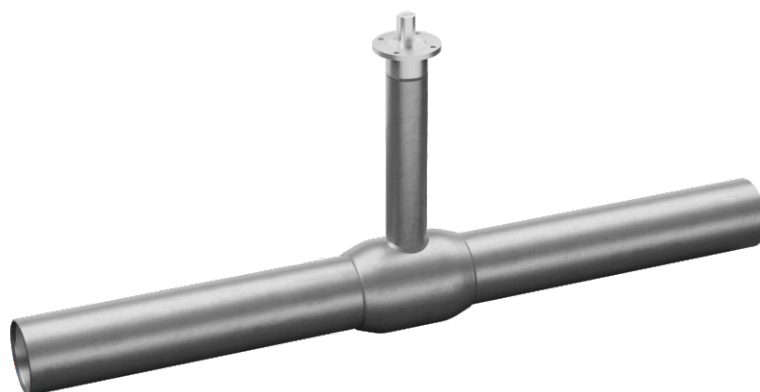
**Ball:** stainless steel AISI 304, AISI 409

**Ball seal:** PTFE+C with additional FVMQ sealing

**Stem:** carbon steel

**Stem sealing:** EPDM, FVMQ

**Stem top:** stainless steel AISI 321



DN	PN	Code	d	d*	D	D1	D2	C	s	t	a	R	H	H1	X1	X2	L	Weight
100	25	HSL2100253/E	100	114	180	125	102	33	3,6	5	8	30	545	489	258	76	1510	35,7
125	25	HSL2125253/E	125	140	219	125	102	33	4	5	8	30	565	509	307	76	1510	47,9
150	25	HSL2150253/E	148	168	273	125	102	33	4,5	6	8	30	585	529	309	76	1510	61,1
200	25	HSL2200253/E	200	219	351	150	125	38	5	8	10	35	613	557	402	76	1510	111
250	25	HSL2250253/E	240	273	426	210	165	54	5	8	14	50	664	582	537	89	1510	203
300	25	HSL2300253/E	300	324	530	210	165	64	6,3	10	18	60	664	586	558	133	1810	262
350	25	HSL2350253/E	336	356	630	300	254	95	6,3	10	25	90	824	705	579	180	1810	566
400	25	HSL2400253/E	386	406	630	300	254	95	7	10	25	90	824	705	579	180	1810	579
500	25	HSL2500253/E	500	508	820	300	254	95	7	12	25	90	1000	881	713	180	1810	999

# EUROHEAT & POWER

CERTIFICATE NUMBER 05/01

**PRODUCT** LD steel ball valves, for preinsulated district heating and cooling valve assemblies, DN 25 - 500

**LICENSEE** LLC ChelyabinskSpetsGrazhdanStroy

**PRODUCTION PLANT** LLC  
ChelyabinskSpetsGrazhdanStroy  
Russian Federation  
454010 Chelyabinsk  
Yeniseiskaya str. 47



**EUROHEAT  
& POWER**

GUIDELINES:  
EHP/003  
CERTIFICATE: 05/01

VALID UNTIL 29.05.2025

This certificate is granted in accordance with the Euroheat & Power Certification Guidelines for Quality Assessment of District Heating Steel Valves [003]

Name, Signature



Mikko Törmänen

Date, Place

30.05.2019, Helsinki



Inspecta Sertifointi Oy  
P.O Box 1000  
Sörnäistenkatu 2  
FI-00581 Helsinki  
Finland  
[www.inspecta.com](http://www.inspecta.com)

The production complies with the EN488:2015 and EHP Certification Guidelines [003].

The licensee may use the Euroheat & Power Certification Board quality mark.

The certificate is valid only for the production plant mentioned in the certificate.

The valve types covered are contained in the Annex to this certificate.

The certificate is valid for 6 years subject to periodic surveillance.

Refer to the Euroheat & Power Certification Guidelines [003] for full requirements and conditions

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 **TECHNICKÁ INŠPEKCIA, a.s.**  
**SLOVENSKÁ REPUBLIKA**

 **CEOC**  
INTERNATIONAL

**CERTIFICATE**  
no. 4854/4/2019

Technická inšpekcia, a. s., Trnavská cesta 56, 821 01 Bratislava, Slovakia  
notified body: 1354,  
on the basis of results from assessment of full quality assurance system

**notifies, that**  
LLC "ChelyabinskSpetsGrazhdanStroy"  
Yeniseyskaya 47, 454010 Chelyabinsk, RUSSIA

implemented and applies system of full quality assurance (module H)  
according to the European Directive 2014/68/EU on pressure equipment

Range of equipment:  
Ball Valve - LD Type, DN 25 - 800, PN 16 - 40, TS<sub>max</sub> = 200 °C, TS<sub>min</sub> = - 60 °C  
made of carbon and stainless steel

Ball Valve - LD Swift Type, DN 32 - 100, PN 16, TS<sub>max</sub> = 150 °C, TS<sub>min</sub> = - 60 °C  
made of carbon and stainless steel  
(see Annex to the Certificate for details)

Audit Report no. 4854/4/2019

Manufacturer shall inform Technická inšpekcia, a. s. of any intended change of system of full quality assurance (module H).

Certificate is valid until 9<sup>th</sup> October 2022

*The Certificate validity is conditioned with performing of surveillance by Technická inšpekcia, a.s. for minimum 1 periodic audit per 12 months. Performing of periodic audit is proved by Audit Report.*

Date of initial notification: 1<sup>st</sup> October 2013

Bratislava, on 10<sup>th</sup> October 2019



  
Ing. Dušan Perniš  
General Director

420119  
CST4-190



**FEDERAL AGENCY OF TECHNICAL  
REGULATION AND METROLOGY  
VOLUNTARY CERTIFICATION SYSTEM  
"FEDERAL QUALITY SYSTEM"  
Reg.no. POCC RU.31322.04ЖУН0**

**Certification body:**  
REG NO. FSK.RU.0002  
Limited Liability Company  
"EURASIAN UNION CERTIFICATION"  
Address: 192289, St. Petersburg, Oleko Dundicha street  
house number 35, building 1, letter A, room 2-H office 4.  
Phone: 8(812) 649-93-88 info@essert.ru

**CERTIFICATE OF COMPLIANCE**

**№ FSK.RU.0002.F0006632**

is issued to

**Limited Liability Company "ChelyabinskSpetsGrazhdanStroy"**  
Address: Yeniseyskaya, 47, Chelyabinsk, Russia, 454010.  
ITN 7451211335 PSRN 1047423538315

Date of issue: 16/01/2018

Period of validity: 16/01/2021

**This certificate certifies that:**

*The quality management system for designing, engineering,  
manufacturing and delivery of valves, valve components, wholesale and retail trade*

**COMPLIES WITH THE REQUIREMENTS OF GOST R ISO 9001-2015 (ISO 9001: 2015)**



**Head of certification body**

**A.V. Arendar**

**Expert**

**V.V.Akimov**

This certificate requires of organization to maintain the states of the work according to the above standard  
which the certification center of voluntary certification system "Federal Quality system" will oversee and it will be confirmed by an annual inspection.



**STEEL VALVES**

**LD GROUP**

Yeniseyskaya str. 47, 454010, Chelyabinsk, Russia

Phone: +7 (351) 730 4747

e-mail: [global@chsgs.ru](mailto:global@chsgs.ru)

**[www.chsgs.ru](http://www.chsgs.ru)**