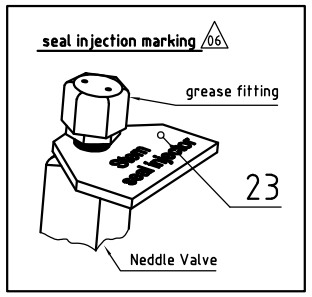
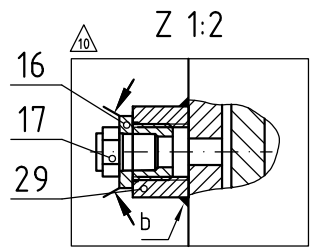
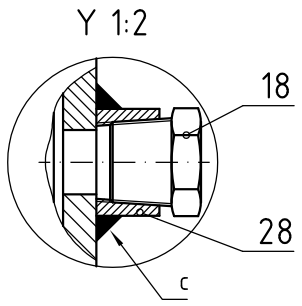
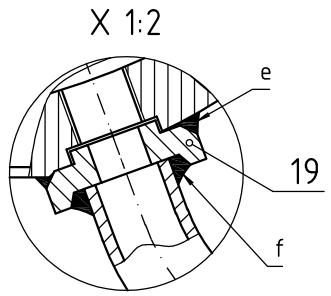
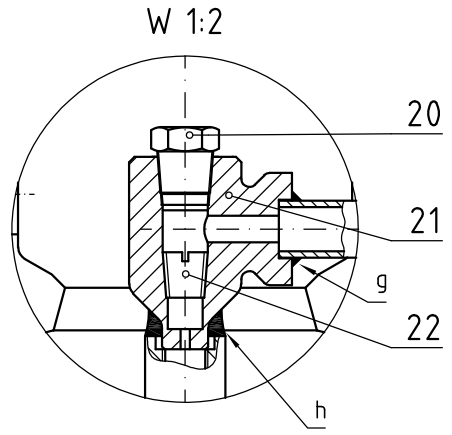
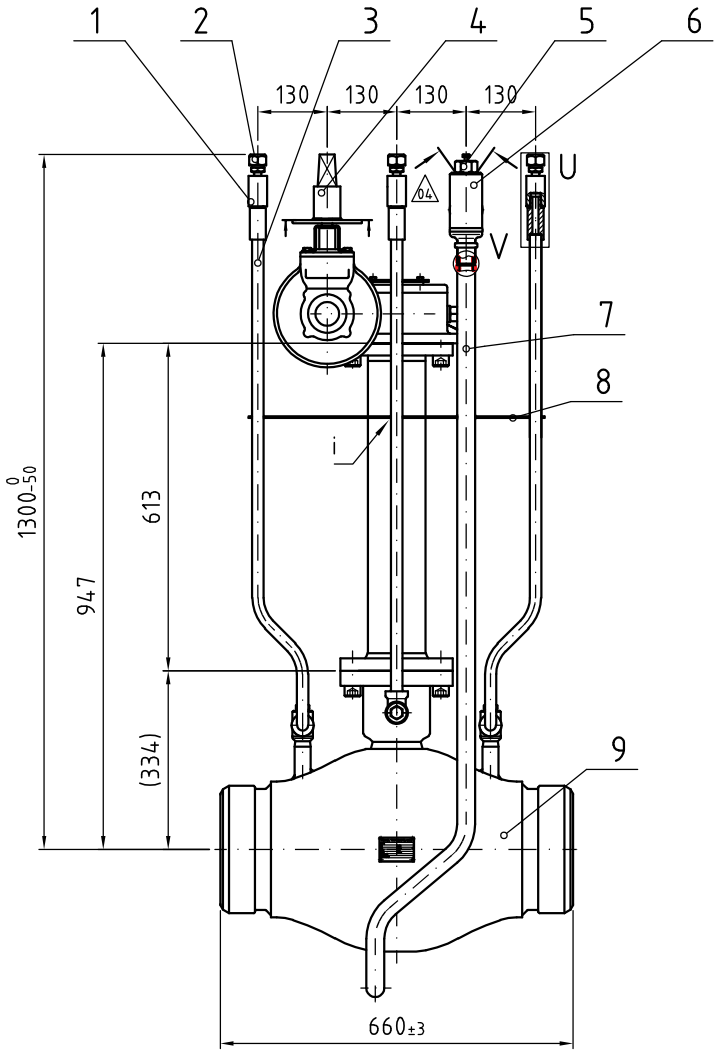


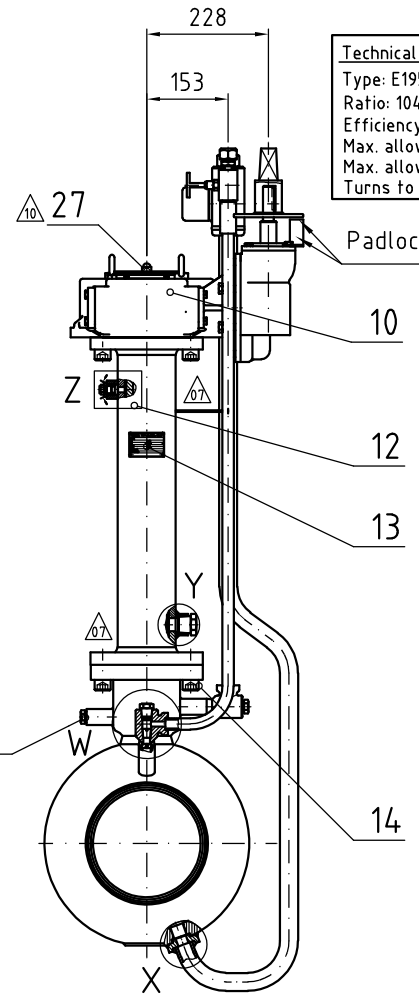




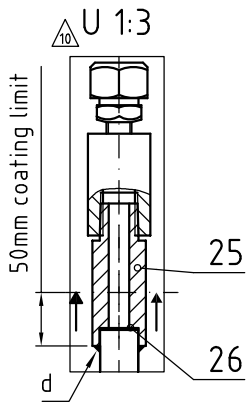




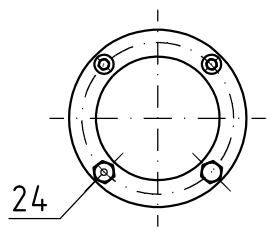


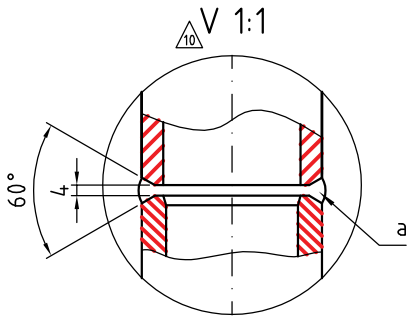


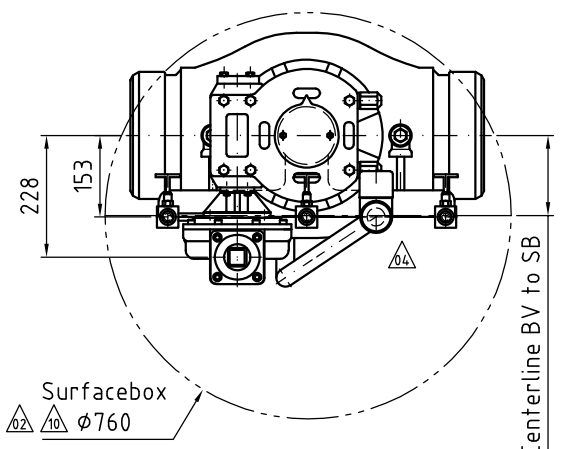
Technical data Gearbox:
Type: E1950G/HOB4
Ratio: 104:1
Efficiency: 32.3 ±15%
Max. allowable input torque: 171 Nm
Max. allowable output torque: 5523 Nm
Turns to close: 26 turns / 90°



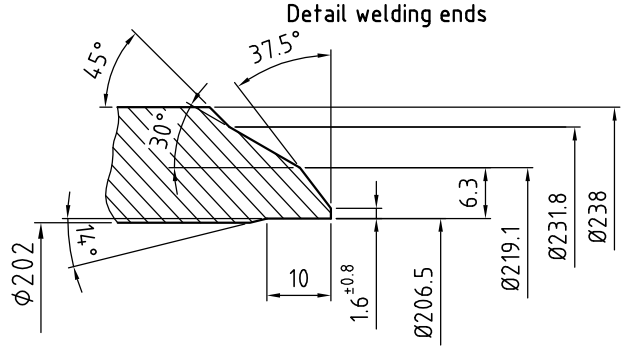
Detail 08
Ball valve / stem extension
stem extension / gearbox







Detail welding ends



weld	WPS
a	PA-K-R-37-2-1-ISO-RT-001
b	PA-K-R-37-2-1-ISO-MT-001
c	PA-K-R-37-2-1-ISO-MT-001
d	PA-K-R-37-2-1-ISO-PT-001
e	PA-K-R-37-2-1-ISO-MT-001
f	PA-K-R-37-2-1-ISO-MT-001
g	PA-K-R-37-2-1-ISO-MT-001
h	PA-K-R-37-2-1-ISO-MT-001
i	PA-K-R-37-2-1-ISO-MT-001

Weights
Ball valve incl. equipment: 390kg
Stem extension: 41kg
Gearbox: 50kg

Valve categorized in according to PED (type Piping) in CAT III	
Requirements for inspection certificates of pressure parts acc. MSA-32-E Version 1	
nom. size: DN 200 / Full bore	Design code: DIN EN 14141 + DIN EN 13942
Material code No.: 1305208	RMA Mat. Code No.: 8314045
GASUNIE purchase order No.:	
Item No.:	
Installation:	Underground
Operation:	Surface box
operating pressure:	40 bar
design pressure:	50 bar
ANSI pressure class:	300
test pressure:	75.9 bar acc. specification MSW-03-E/1
design temperature:	-20°C/+80°C
factor of safety:	2.2
weld factore :	1.0
heat treatment:	no PWHT
non - destructive Test:	acc. Quality Control Plan QCP standard 1-00
inspection:	Gasunie/RMA acc. to MSW-03-E/1 with 3.2 Certificate acc. EN10204.
BAT of valve:	1800 Nm
MAST of valve:	6048 Nm
Safety factor on torque:	3,36
impact test temp.:	0°C

Code A : Approved,"FINAL" transparency (polyester) to be submitted with Engineering & Operating Documents Transmittal

Code B : Approved as marked,"FINAL" transparency (polyester) to be submitted with Engineering & Operating Documents Transmittal

Code C : Not approved, new "FOR APPROVAL" print to be submitted with Engineering & Operating Documents Transmittal

Controle: L. Nijland 10-08-2021

Coating Specification: MSW-11-E
External surfaces: - Underground: code U
Internal surfaces: - code L2

✳ Chemical composition verfied by OES

pos	pce	description 1	drawing no.	st. sheet 1	material	base size	comment
		description 2	order no.	st. sheet 2	material no.	order no.	ventor
				AD-code	EN 10204	weight	
29	1	Muffe G1/2"	1.6000.0357		P355QH1		
28	1	Muffe 1"	1.6017.0070		St50		
27	1	Gearbox cap	3.6017.0143				
26	3	Contraction ring	0.0329.5103		AISI 316L		
25	3	Adapter piece	1.6000.0370		AISI 316L		
					3.1		
24	4	Passschraube	0.0144.5004	DIN 609	8.8 - galvanized	M20 x 50	
		fitting bolt	0.0144.5004				
23	1	marking plate			plastic	78x60x2	
			9.0008.0041				
22	3	Rückschlagventil	0.1110.5027			1/4" NPT	FRAMES
		inner check valve	0.1110.5027			p/n D-FWIC 1/4-SS	
					3.1		
21	3	Adapter	1.6004.0014		P285NH 05 10	Schmiedeteil	
		fitting piece					
				W10/W13	3.2		
20	3	Stopfen	0.1111.0009		A350LF2 11	1/2" NPT	
		plug	0.1111.0009				
					3.1		
19	1	Schweißtülle	1.6013.0581		P355NL1	Ø50x25	
		nozzle					
					3.2		
18	1	Stopfen	0.1111.0007		A105 11	1" NPT	
		Plug	0.1111.0007				
17	1	Rückschlagventil	0.1110.0009				
		check valve	0.1110.0009				
					3.1		
16	1	Adapter	1.6000.0356		PA 6.6	G1/2"	
		Isolation piece					
15	1	Plug	1.6011.5041		A183 F316L	½" NPT	
			1.6011.5041				
					3.1		
14	4	Zyl.- Schraube	0.0102.5092	DIN 912		M20x50 8.8	
		screw	0.0102.5092				
13	2	Typenschild	9.0008.5034		Al		
		marking plate	9.0008.5034				
12	1	Spindelverlängerung	3.6017.2000				
		Stem extension					
10	1	Schneckengetriebe	0.1901.5132			E1950G/HOB4	
		gearbox	0.1901.5132			F16 Welle⌀50	
9	1	Ball valve HKSF-W100	KH-M-AE-300-6-16				
✳		DN 200 ANSI 300	3.6017.0098				
8	1	Halteplatte	1.6017.5032			Brennteil	
		support plate	1.6017.5032				
7	1	Rohr	0.5168.071045-B		P275NL1	Ø33.4x4.5 (1"NPT)	
		pipe	0.5168.071045-B				
					3.1 05 06		
6	1	Kugelhahn DN 25	3.6006.0196		P355NL1		
		Ball valve DN 25					
5	1	Ausbläser			AISI 316L	3/4" NPT	Merwede
		bleederplug	0.1110.5047		1.4404		
					3.1		
4	1	Vierkantschoner	1.6011.0434		P355QH1	Ø50x125	
		switching square	0.5005.5001				
3	3	Rohr	0.5168.050048-B		P275NL1	Ø21.3x4.8 (1/2" NPT)	
		pipe	0.5168.050048-B				
					3.1 05 06		
2	3	Schmiernippel	0.1106.5010 08		316L	1/2" NPT	
		greaser fitting	0.1106.5010				
					3.1		
1	3	Nadelventil	0.1110.0010		AISI 316	1/2" NPT	S10NF88SS 05
		needle valve	0.1110.0010				
					3.1		

Rev	Änderung	Datum	Name
12		02.08.21	
11		05.09.18	
10		15.11.17	
09		26.01.16	
08		27.07.15	
07		02.03.15	
06		23.09.14	
05		04.07.14	
04		13.01.14	
03		29.11.13	
02		05.11.13	
01		25.10.13	

Kunde/Customer/Client

Bestellnummer/PO No./Command no. | Position

RMA - Auftragsnummer/RMA Order No./RMA no. ordre | Position

Menge/Qty | Projekt/Project/Projet: Gasunie Std. MCN | Gewicht/Weight/Poids: 390 KG

	Datum/Date	Name/Nom
Name	11.06.13	NHuber
Gepr.		
Norm		

Benennung/Description:
Kugelhahn AE UF
HKSF-W100 DN 200 ANSI 300 (6.3)

PIPELINE EQUIPMENT
RMA Rheinau GmbH & Co. KG
Forsthausstrasse 3
D-77866 Rheinau

Teilenummer/DWG No./Plan no.: 4.6017.0549

Rev: 12

Blatt: 1
v. 1 Bl.

Maßstab/Scale/Echelle: 1:10