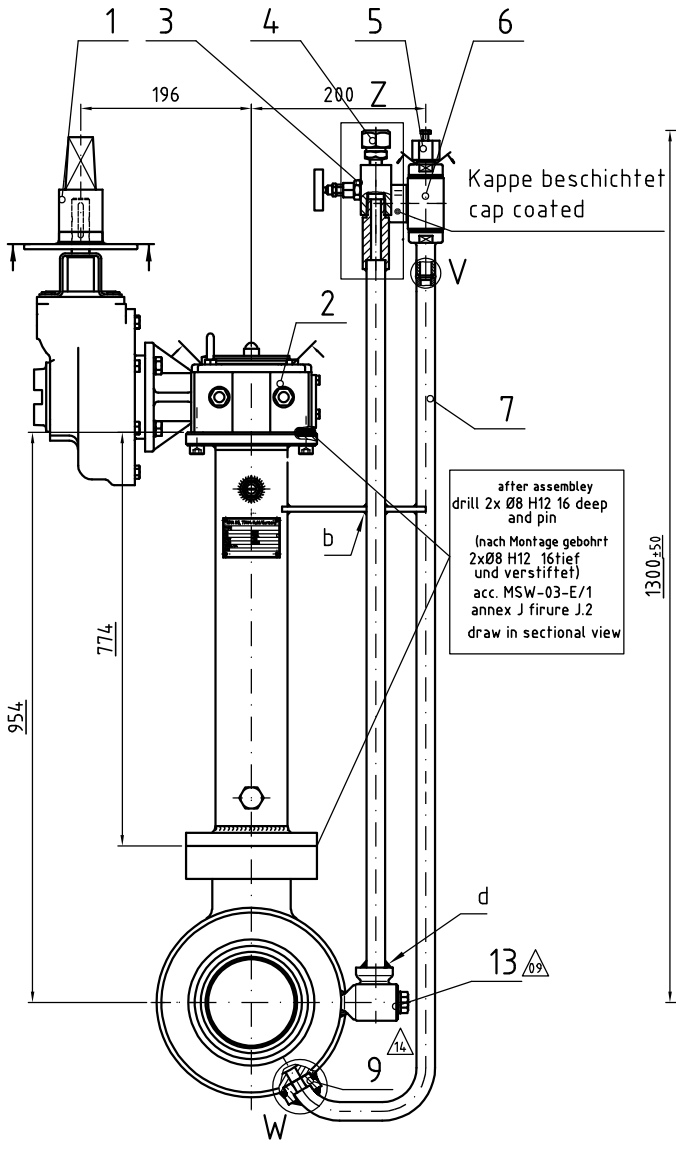
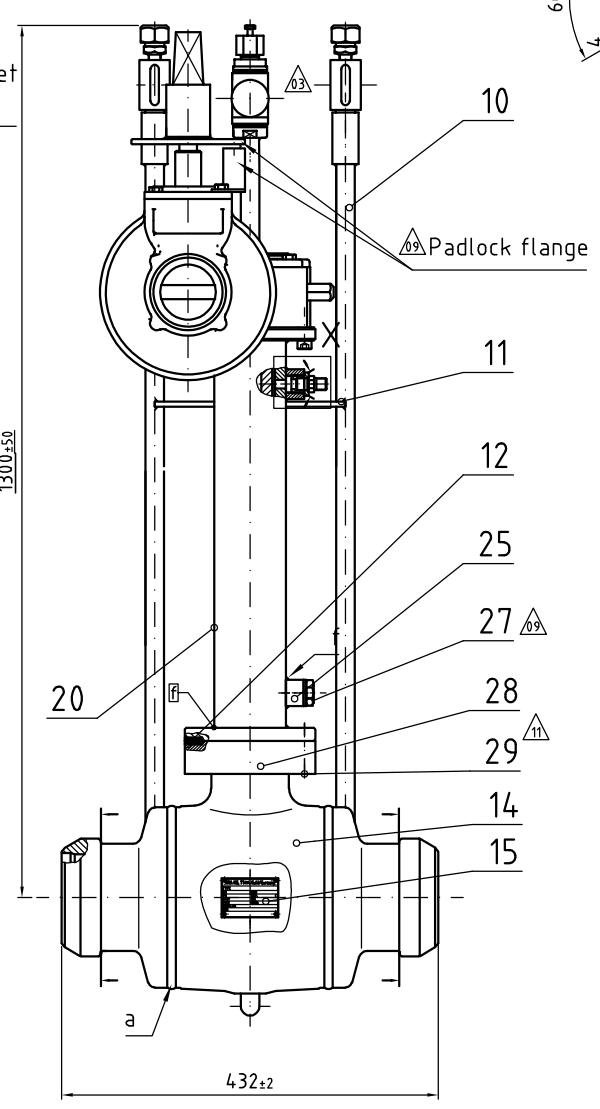
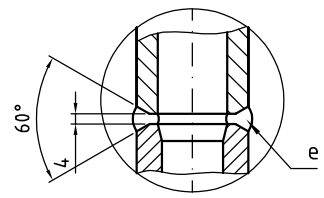
Freigegeben



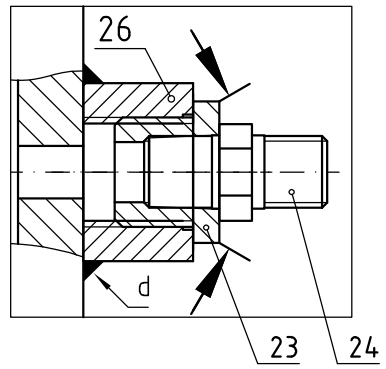
Gearbox Data:
- Max. Input torque: 50 Nm
- Max. Output torque: 1020 Nm
- Mech. advantage: 20.4 ±15%
- Turns to close: 17 turns/90°



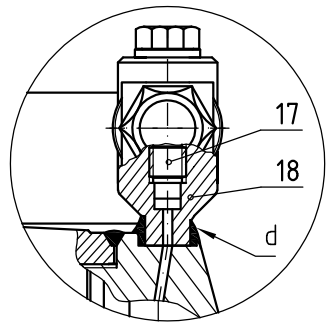
V 1:1



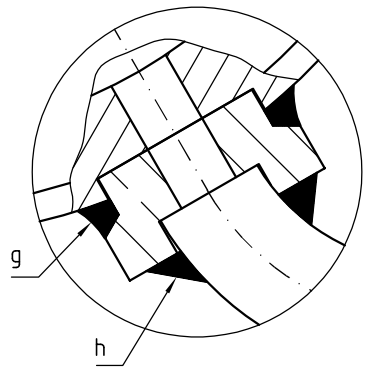
X 1:1



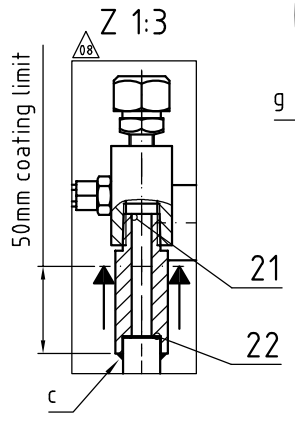
Y 1:2



W 1:1



Z 1:3



coating:MSW-11E ← coating limits

Coating Specification: MSW-11-E

External surfaces: - code U

Internal surfaces: - code L2

✳ Chemical composition verfied by OES

29	4	Zylinderschraube	0.0102.555298	DIN912		M12x40	verzinkt
		screw	0.0102.555298		8.8 12		
28	1	Antriebsflansch	1.6013.0050		S355J2G3	Ø150x34	
		drive flange					
27	1	Stopfen	0.1110.5017		A105	1/2" NPT	
		plug	0.1110.5017				
26	1	Muffe	1.6000.0357		P355QH11	Ø40x30	
25	1	Muffe 1/2	1.6009.0271		S235JR	Ø30xabstechen	
		bushing					
					3.1B		
24	1	Rückschlagventil	0.1110.0009				
		check valve	0.1110.0009				
					3.1		
23	1	Adapter	1.6000.0356		PA6.6 black	G1/2"/NPT1/2"	
		Isolation piece					
22	2	Contraction ring	0.0329.5103		AISI 316L		
21	2	Adapter piece	1.6000.0370		AISI 316L		
			0.5074.5053		1.4404		
					3.1		
20	1	Schaltstange	3.6013.2000		P235TR2	s.Einzelstückl.	
		stem extension					
18	2	Adapter	1.6004.0014		P285NH 04	Schmiedeteil	
		fitting piece					
				W10/W13	3.2		
17	2	Rückschlagventil	0.1110.5027			1/4" NPT	FRAMES
		inner check valve	0.1110.5027			p/n D-FWIC 1/4-SS	
					3.1		
15 ✳	1	Typenschild GASUNIE	9.0008.5034		1.4401/AISI 316	65x45x0.5	
		identification plate	9.0008.5034				
14	1	Ball valve HKSF-W100	3.6013.0324 11		P355NL1		
		DN 100 ANSI 300	KH-M-AE-300-2-4				
13	2	Verschlußschraube	0.1111.0009		A350LF2 09	1/2" NPT	
		solid plug	0.1111.0009				
					3.1		
12	2	Spannstift	0.0503.5005	DIN EN28752		Ø8x16	
		split pin	0.0503.5005				
11	1	Halteplatte	1.6013.5175 10		S235JR		
		holding plate	1.6013.5175				
10	2	Rohr	0.5168.050048-B		P275NL1 04 05	Ø21.3x4.8 (1/2"NPT)	
		pipe	0.5168.050048-B				
					3.1		
9	1	Schweißtülle	1.6013.0156		P355NL1 04	Ø50x25lg	
		nozzle					
				W10 / W13	3.2		
7	1	Rohr	0.5168.050048-B		P275NL1	Ø21.3x4.8 (½"NPT)	
		pipe	0.5168.050048-B				
					3.1 04 05		
6	1	HKSF IG NPT 1/2"	3.6004.0057		P355NL1	DN15	
		drain valve NPT 1/2"					
					3.1		
5	1	Ausbläser	0.1110.5008			1/2 NPT	Merwede
		bleederplug	0.1110.5008		1.4404	Type 5-2051	
					3.1		
4	2	Schmiernippel	0.1106.5010		F316	1/2" NPT	Techne
		greaser fitting	0.1106.5010				
					3.1		
3	2	Nadelventil	0.1110.0010		AISI 316	1/2" NPT	10.000 PSI
		needle valve	0.1110.0010			S10NF88SS 03	
					3.1		
2	1	Rotork Getriebe	0.1901.5344				
		Rotork gearbox	0.1901.5344			E550G/HOB4	Rotork
1	1	Vierkantschoner	1.6011.0434		P355QH1	Ø50x125	
		switching square	0.5005.5001				
Pos	Stk	Benennung 1	Zeichnungs-Nr.	Normblatt 1	Werkstoff	Rohmaß	Bemerkung
		Benennung 2	Roht.-/Kauft.-Nr.	Normblatt 2	Werkstoff-Nr.	Bestell-Nr.	Lieferant
				AD-Merkblatt	EN 10204	Gewicht	

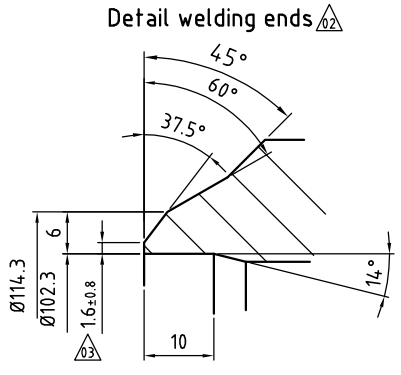
Code A : Approved,"FINAL" transparency (polyester) to be submitted with Engineering & Operating Documents Transmittal

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

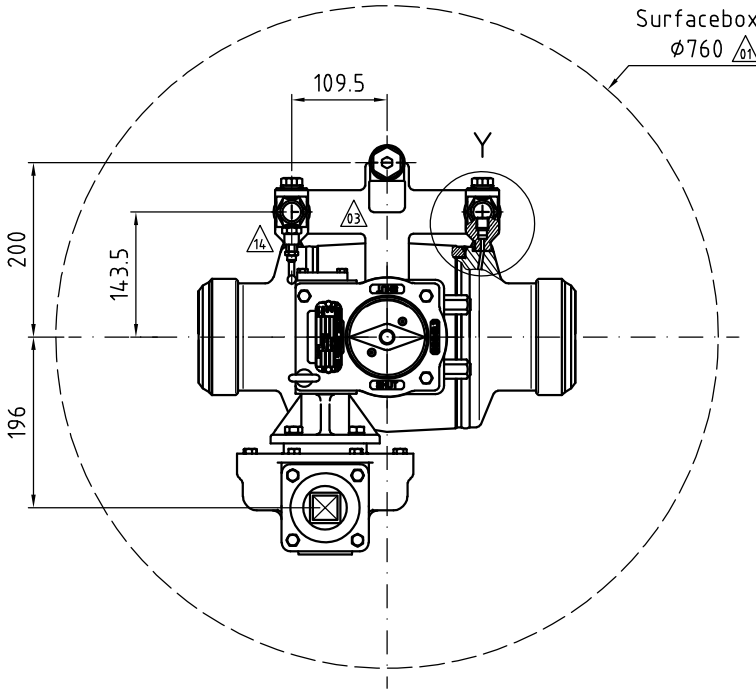
Code C : Not approved, new "FOR APPROVAL" print to be submitted with Engineering & Operating Documents Transmittal

Controle: Lammert Nijland 21-05-2021

Detail welding ends 02



Surfacebox Ø760 01 08



Weights
Ball valve incl. equipment: 100kg
Stem extension: 19kg
Gearbox: 57kg

08 15

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

Valve categorized in according to PED (type Piping) in CAT II	
Requirements for inspection certificates of pressure parts acc. MSA-32-E	
nom. size: DN 100 / Full bore	Design code: DIN EN 14141 + DIN EN 13942
Material code No.: 1305204	RMA Mat. Code No.: 8314041 13
GASUNIE purchase order No.:	
Item No.:	
Installation:	Underground
Operation:	Surface box
operating pressure:	40 bar
design pressure:	50 bar 09
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:	416 Nm
MAST of valve:	1237 Nm 10
Safety factor on torque:	2,97
impact test temp.:	0°C

Rev	Änderung	Datum	Name
15		18.05.21	S
14		07.10.19	S
13		03.09.19	S
12		14.08.19	A
11		01.08.19	S
10		22.02.19	S
09		15.08.18	A
08		30.07.18	S
07		08.02.16	S
06		24.02.15	S
05		13.10.14	
04		22.07.14	
03		13.01.14	S
02		29.11.13	S
01		25.10.13	S

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: 100 KG

	Datum/Date	Name/Nom
Name	13.06.13	NHuber
Gepr.		
Norm	18.05.21	SKoester

Benennung/Description: Kugelhahn AE UF

HKSF-W100 DN 100 ANSI 300 (6.0)

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

Teilenummer/DWG No./Plan no.: 4.6013.1116

Rev: 15 | Blatt: 1 | v. 1 Bl.

Maßstab/Scale/Echelle: 1:6