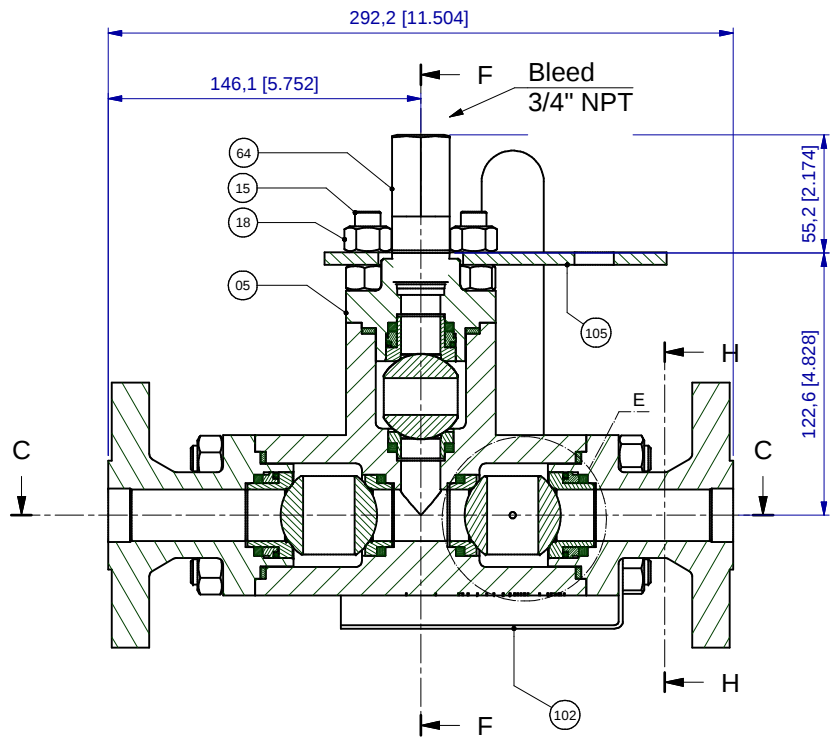


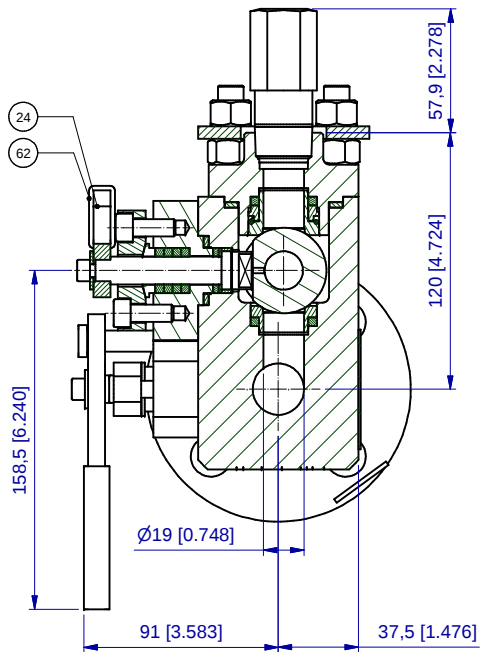
DESIGN acc.to VBAF-2000		
PRESS. 256Bar	TEMP. -50 to 363°C	
PRESSURE TEST acc.to 77/130-2012		
BODY hydr.	SEAT hydr.	SEAT air
384 Bar	282 Bar	6-7 Bar

LEGEND	DESCRIPTION
PV	PRESSURE RETAINING COMPONENTS
WT	WETTED PARTS
LB	LOAD BEARING COMPONENTS

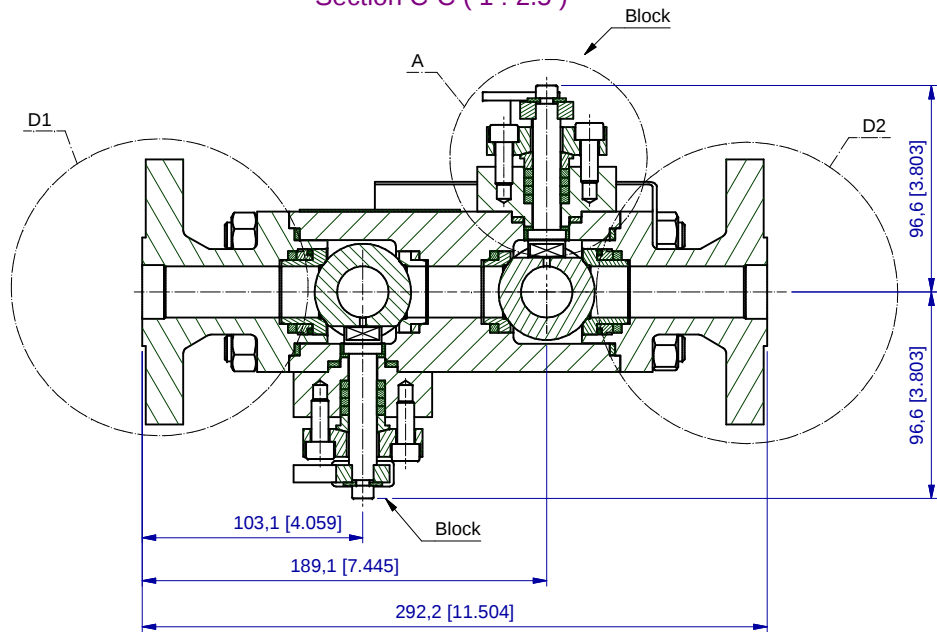
Section A-A (1 : 2.5)



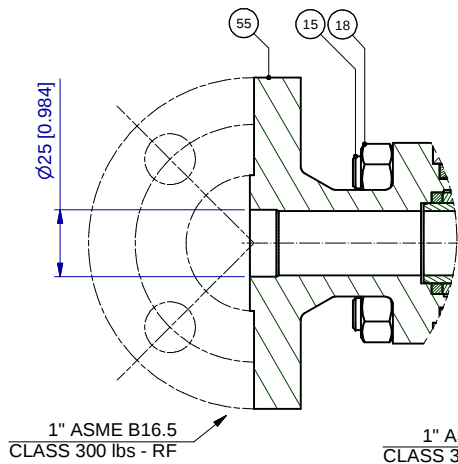
Section F-F (1 : 2.5)



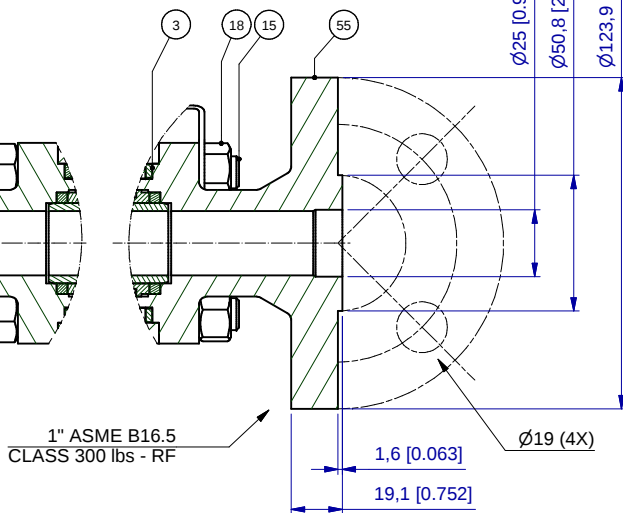
Section C-C (1 : 2.5)



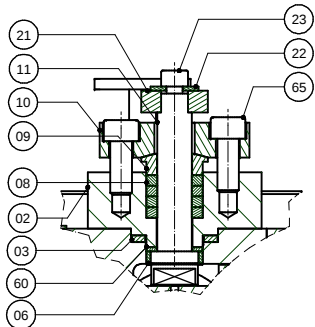
Detail D1 (1 : 2)



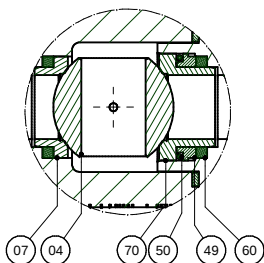
Detail D2 (1 : 2)



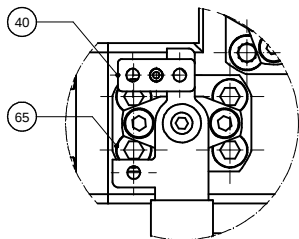
Detail A (1 : 2)



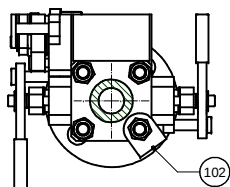
Detail E (1 : 2)



Detail G (1 : 2.5)



Section H-H (1 : 5)



Parts List

Pos	QTY	PART	MATERIAL DESC.	MATERIAL SPEC.	PV	WT	LB	NACE	HARDNESS	TEMP RANGE
01	1	BODY	LOW TEMP CARBON STEEL	ASTM A350-LF2 Cl. 1	X	X	X	MAX 22 HRC		-46°C +363°C
02	4	BONNET	LOW TEMP CARBON STEEL	ASTM A350-LF2 Cl. 1	X	X	X	MAX 22 HRC		-46°C +363°C
03	2	BODY	LOW TEMP CARBON STEEL	ASTM A350-LF2 Cl. 1	X	X	X	MAX 22 HRC		-46°C +363°C
04	4	BALL	13Cr (1.4006) STELLITE 6 COATED	UNS S41000/STELLITE 6		X	X			-50°C +450°C
05	1	BODY	LOW TEMP CARBON STEEL	ASTM A350-LF2 Cl. 1	x	x	x	MAX 22 HRC		-46°C +363°C
06	4	STEMRING	ALLOY 625	ASTM B444-UNS N06625		X	X			-50°C +450°C
08	16	PACKING	SUPAGRAPH PREMIER	GRAPHITE		X	X			-50°C +450°C
09	4	GLAND FLANGE	STAINLESS STEEL	ASTM A276-316			X	MAX 22 HRC		-50°C +450°C
10	4	GLANDBUSH	ALLOY 825	ASTM B425 UNS N08825			X			-50°C +450°C
11	4	STEM	ALLOY 825	ASTM B425 UNS N08825			X			-50°C +450°C
13	16	METRIC SOCKET HEAD SCREW	STAINLESS STEEL A4-70	ASTM F738M /ISO 3506-1 (A4-70)			X	MAX 22 HRC		-50°C +450°C
15	12	STUD	LOW ALLOY	ASTM A320-L7M			X	MAX 22 HRC		-50°C +450°C
18	16	NUT	LOW ALLOY	ASTM A194-7M			X	MAX 22 HRC		-50°C +450°C
19	4	GASKET	ss 316/GRAPHITE	GRAPHITE		X	X			-50°C +450°C
21	2	WRENCH	LOW TEMP CARBON STEEL	ASTM A1011 gr.60 (1.0980)						-50°C +450°C
22	3	WASHER	STAINLESS STEEL A4-70	ASTM F738M /ISO 3506-1 (A4-70)						-50°C +450°C
23	3	METRIC SOCKET HEAD SCREW	STAINLESS STEEL A4-70	ASTM F738M /ISO 3506-1 (A4-70)						-50°C +450°C
24	1	WRENCH BLEED	LOW TEMP CARBON STEEL	ASTM A1011 gr.60 (1.0980)						-50°C +450°C
40	4	LIMITOR	Stainless Steel	ASTM A276-316		X				-50°C +450°C
49	4	SUPPORT RING	STAINLESS STEEL	ASTM A276-316						-50°C +450°C
50	4	WAVE SPRING	ALLOY 718	ASTM B637 UNS N07718		X				-50°C +450°C
55	1	BODY	LOW TEMP CARBON STEEL	ASTM A350-LF2 Cl. 1	X	X	X	MAX 22 HRC		-50°C +450°C
60	4	BEARING	ALLOY 625	ASTM B444-UNS N06625		X	X			-50°C +450°C
61	8	SEAT SEAL	GRAPHITE			X				-50°C +450°C
62	1	SLEEVE RED	HIGH TEMP COATING							-50°C +450°C
63	2	SLEEVE BLUE	HIGH TEMP COATING							-50°C +425°C
64	2	HEX HEAD PLUG	LOW TEMP CARBON STEEL	ASTM A350-LF2 Cl. 1	X	X	X	MAX 22 HRC		-46°C +363°C
65	8	METRIC SOCKET HEAD SCREW	STAINLESS STEEL A4-70	ASTM F738M /ISO 3506-1 (A4-70)						-50°C +450°C
80	1	BODY	LOW TEMP CARBON STEEL	ASTM A350-LF2 Cl. 1	X	X	X	MAX 22 HRC		-46°C +363°C
101	1	TAGPLATE	STAINLESS STEEL	ASTM A276-316						-50°C +450°C
102	1	TAGPLATE MOUNTING BRACKET	STAINLESS STEEL	ASTM A276-316						-50°C +450°C
105	1	MOUNTING BRACKET	LOW ALLOY	ASTM A350-LF2 Cl. 1						-46°C +363°C

DESIGN NOTES:

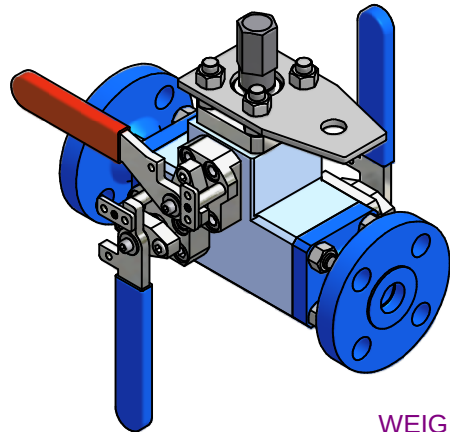
- 1) DESIGN ACC. TO ISO 14313/API 6D/ EEMUA 182
- 2) DESIGN SPEC. PRESSURE RATING: ASME CL 300
- 3) TEMP REQUIREMENT: -50°C TO 363°C
- 4) SOUR STEAM SERVICE: NACE MR-01-75 / ISO 15156
- 5) FULL BORE
- 6) END TO END ACC. MAN. STANDARD
- 7) MAT. BODY: CARBON STEEL LOW TEMP.
- 8) MAT TRIM: ALLOY 825 / CHROME CARBIDE COATING
- 9) IMPACT TEST BODY MATERIAL: -50°C / 21J
- 10) INHERENTLY FIRE SAFE DESIGN ALL METAL CONSTRUCTION
- 11) ANTI BLOW OUT STEM
- 12) NDE AS PER STD. 3-2.11, PMI AS PER DEP 31.10.00.10 GEN (Sept.2013)

TECHNICAL NOTES:

- A) BREAK TORQUE: 34Nm, MAX STEM :100Nm
- B) HYDROTEST PRESSURE: 385 BAR
- C) LAG HEIGHT ACC. TO 77/200
- D) GLAND BOLTING THREAD: M10 TORQUE: 24Nm
- E) BODY BOLTING THREAD: M16 TORQUE: 75Nm

ADDITIONAL REQUIREMENTS:

MESC SPE 77/130 2012
MESC SPE 77/170 2012
MESC SPE 77/200 2012
MESC SPE 77/300 2012
MESC SPE 77/300A 2013
MESC SPE 77/300B 2013
MESC SPE 77/302 2012
MESC SPE 77/303 2012
MESC SPE 77/312 2012
MESC SPE 85/203 2012
MESC SPE 85/204 2012
INSPECTION CAT.: IC-I



WEIGHT
16,7 kg 36.8 lbs

MESC:

TAG:

Size/Description/Rating/Ends:

Double Block & Bleed DN25 - 300 lbs

Drawing No:

57465-00



HARDINXVELD - GIESSENDAM
THE NETHERLANDS

Design:

F.Duijffes

3-4-2015

Scale: 0,4:1

Checked:

JHV

3-4-2015

Revision: 0

A2

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