

		Site data					
		Ambient temperature		Ambient noise level		Ambient noise level	
		°F	°C	N/A	dB	dB	dB
13	Ambient temperature	41	35	°C	N/A		14
Vessel		Jacket		Other			
29	Fluid	88 % Acconitrol		Water-Glycol (70.30)		N/A	
30	Solvent	Acconitrol		N/A		N/A	
33	Fluid PEL group	1 - Dangerous		2 -Non dangerous		N/A	
Vessel		Jacket		Other			
44	Fluid (from row 29)	88 % Acconitrol		Water-Glycol (70.30)		N/A	
45	Operating temperature min / max.	18	80	°C	2	80	°C
46	Operating pressure min / max.	0	2	bar/g	0	2.5	bar/g
48	Density min / max.	1000	1000	kg / m³	1000	1000	kg / m³
50	Dynamic viscosity min / max.	1	1	mPa	N/A	N/A	mPa
Vessel		Jacket		Other			
61	Allow able (design/amp. min./max.)	0	100	°C	0	100	°C
62	Allow able (design/press. min./max.)	3	bar/g	3	6	bar/g	bar/g
63	Test pressure	bar/g		bar/g		bar/g	
64	Load cycles (operating parameters)	8000		cycles		cycles	
Vessel		Jacket		Insulation			

141	Top volume	78	120	12	L	146
142	Operating volume min./m2	78	120	12	L	146
143	Top of lead head design	Thermal shield - DHV 2001/N/A	N/A			146
144	Bottom or right head design	Thermal shield - DHV 2001/N/A	Thermal shield - DHV 2001/N/A			146
152	Jacket design - sheet	Conventional (studs/shell)	Jacket design - bottom head	Conventional (studs/shell)		153
154	Heating/cooling exchange surface	1.1	m2			156
156	Insulation on cooling	Well	Insulation thickness	20.5	mm	157
Surface treatment						
Internal (well/s)			External			
194	Mechanical surface treatment	Grind	Grind	Scotch Brite		196
195	Mechanical treatment of welds	Weld ground	Weld ground	Weld blasted (not grinded)		196
200	Chemical surface treatment	Pickled + Passivated + Cleaned	Flare	Weld ground		201
		Pickled + Passivated + Cleaned	Visible	Pickled + Passivated + Cleaned		201
			h/visible	Pickled welds + Cleaned		201
202	Final surface roughness Ra	0.4	µm	11.6		203
Material						
204	Material welded parts	1.4304 / 1.4305	Material jacket	1.4307 / 1.4371		205
206	Material hot parts (Lign/supers)	1.4307	Welded gaskets - O-ring	2057		207
208	Welded gaskets - Flare / Inconel	GH3039 (Austen) disc	Jacket gaskets			208
210	Welded gaskets - other equipment	P/VE/EPDM (BCV membrane)				211
212	Insulation - sheathing material	1.4307	Insulation	Stress w/ low flow core (<10µm)		213
214	Material of bolts, studs, cap screws	1.4307	Material of nuts	See SAGLAN F-R 30		215

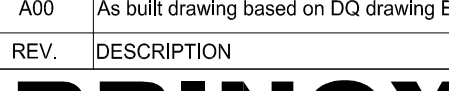
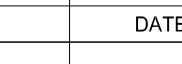
242	Ceramic welded parts	EN 10204 V1	Ceramic non-welded parts	N/A	243	
243	Ceramic welded gaskets	ASME U2P Class VI, ADI Form	Welded gaskets conforming	N/A	244	
245	6 female - base / 1 male welded parts	N/A	3 female - welded welds	N/A	247	
Documentation						
246	Technical language	English	ICM manual language	English	248	
247	Pressure testing after electrophoresis	Yes	Welding for product contact and pressure loaded welds	Yes	253	
Directives						
254	Directive	RED 2014/53/EU	Directive	2006	255	
255	Vessel category	III	Design code category	N/A	256	
256	Conformity assessment module		Notified body	TUV SUD Industrial service GmbH	259	
260	Non destructive testing	ASME CODE HP 503	Welding tests	ASME CODE HP 503	271	
272	Welding tests	EN ISO 9001	Welding tests	EN ISO 9001	273	
274	Welding factor - vessel	0.85	mm	Welding factor - jacket	0.85	275
276	Non destructive testing scope	RTG (X-ray) Lin-10%, RW-2%, RTG (X-ray) - jacket	Non destructive testing scope	RTG (X-ray) Lin-10%, RW-2%, RTG (X-ray) - jacket	277	
278	Non destructive testing scope	PT (Penetrant test) Hazards: 100%	Non destructive testing scope	PT (Penetrant test) - jacket	279	
Materials						
280	Design	ASME 15A/34/50	Design	N/A	281	
282	Design group (pages)	II	Groups of design	N/A	283	
284	Temperature class (pages)	IV	Group temperature of design	N/A	285	
286	Ex zone - inside vessel	2	N/A	Ex zone - outside vessel	2	N/A
288	Vessel ATEX marking - gas	Ex II G30 to II T X	Vessel ATEX marking - dust	N/A	289	

Pos.	Pcs.	ID	Description	Dimensions	Material	Drawing / Standard	Certificate / Tech. Requirements	Weight [kg]
1	1	425198	Process vessel 120L EX Nitro	See drawing	See drawing	B-0001955-0006/002 / See drawing	See drawing	201.6
1	1	425512	Storag inlet head	See drawing	See drawing	B-0001955-0009/004 / See drawing	See drawing	0.4
1	1	426527	Dip tube	See drawing	See drawing	B-0001955-0006/001 / See drawing	See drawing	0.5
4	1	426513	Diaphragm v. shut off manual TC1"	See drawing	See drawing	B-0001955-0009/005 / See drawing	See drawing	0.7
5	1	426511	Elbow with threaded nipple TC1"	See drawing	See drawing	B-0001955-0006/008 / See drawing	See drawing	0.1
6	1	426576	Diaphragm v. shut off manual TC1"	See drawing	See drawing	B-0001955-0009/010 / See drawing	See drawing	0.3

Pos.	Pcs.	ID	Description	Dimensions	Material	D

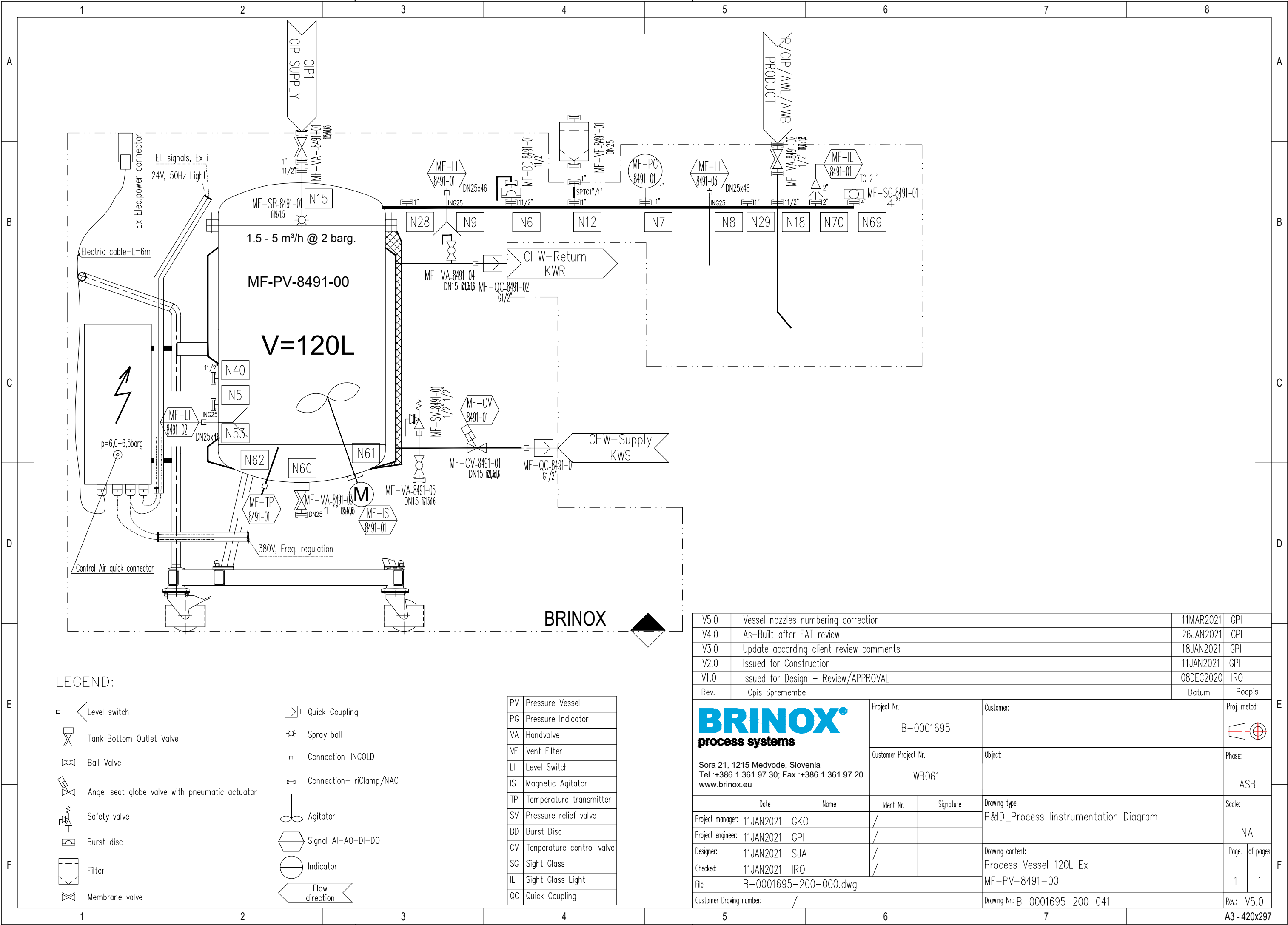
Pos.	Pos. ID	Description	Dimensions	Material	Drawing/Standard	Certificates / Tech. Requirements	Weight [kg]
1	425198	Process version 120, EX R102	See drawing	See drawing	R-001995-0006/002 / See drawing	See drawing	291,6
2	425512	Sprocket head	See drawing	See drawing	R-001995-0009/0104 / See drawing	See drawing	0,4
3	425527	Di tube	See drawing	See drawing	R-001995-0006/0105 / See drawing	See drawing	0,5
4	425513	Electric v. shut off manual TC1	See drawing	See drawing	R-001995-0009/0107 / See drawing	See drawing	0,7
5	425511	ECI with threaded nipple R102	See drawing	See drawing	R-001995-0009/0106 / See drawing	See drawing	0,1
6	425576	Electric v. shut off manual TC12	See drawing	See drawing	R-001995-0009/0110 / See drawing	See drawing	0,3

8	15816	Burning disc	Ø 30,3	316L, EPDM	LOC-SANIT-HAUBER USP Class VI, AdF, Free Ex	0,0	
9	15818	Level switch	G 1/4" x Ø 25 x 40	316L, EPDM	ENDRESS+HAUSER LEVELTIGHT FT2000 USP Class VI, AdF, Free Ex	0,0	
9	15818	Level switch	G 1/4" x Ø 25 x 40	316L, EPDM	ENDRESS+HAUSER Leupamat M FT218 USP Class I, I, AdF, Free Ex	1,0	
10	15818	Level transmitter	G 1/4" x Ø 80 - Ø 90	316L	ENDRESS+HAUSER Levelmat FMPS USP Class I, AdF, Free Ex	1,0	
11	15818	Mining head	Ø 140,5 Soc2020	316L	ZETA BART 50 USP Class I, AdF, Free Ex	0,0	
12	114169	Clamp gasket 1/2"	Ø 25 x 2	Gylen 3004 (Blue)	ASME BPE	FDA USP Class VI, AdF Free	0,0
13	114162	Clamp gasket 1"	Ø 50 x 2,1	Gylen 3004 (Blue)	ASME BPE	FDA USP Class VI, AdF Free	0,0
14	158107	Pressure gauge	TC50,5	316L	MAHA 22320 END 10204 3.1, EX	0,7	
15	146950	Safety valve angle	G1/2" / G1/2"	1.4104	LESER 437 END 10204 3.1, EX	0,2	
16	219013	Stop discs for bursting disc	Ø 50,39 x 57,2	1.4535 (BN)	MA 14123-31P95-000 / Ø 50,39 x 57,2 ASME BPE	END 10204 3.1	0,2
17	140692	Light for light gases	Ø 78	1.4404	METALLAS ELISUS-EX	EX	3,6
18	158121	Drive unit for magnetic actuator	/	Cat material	ZETA BART 50 EX	6,0	
19	158025	Electrical enclosure	875 x 640 x 120	316L	ELPRO EJB-45	EX	100,0
20	158025	Electrical enclosure	G 1/2" x 316L	316L	STAUBLI NCB 08	EX	0,3
21	158077	Coupling without valve	G1/2"	316L, EPDM	STAUBLI NCB 08	EX	0,5
22	158187	Temperature probe (RTD)	G 3/8" x Ø 1,5	316L	ENDRESS+HAUSER ITEM TMT 200	EX	0,18
23	161095	Wing nut temp.	Ø 30 x 35	316L	END 32076	/	0,3
24	110195	Wing nut temp.	Ø 25	316L	END 32076	/	0,2
25	217005	Blind clamp for cable gland	M 5 x 0,5 x 35	316L (Polymide)	0441155-88302-011	/	0,0
26	148827	Cable gland	M 3 x 1,5	316L (Polymide)	LAPP 53111940	/	0,0

27	5	114153	Clamp socket 1 1/2"	Ø 50.5 x 2.1	EPDM	ASME BPE	/	0.0
28	3	219133	Eyebolt holder plug M16	Ø 35 x 2.6	1.4307	0414125-20-020004 / EN 10083-3	/	0.1
29	12	102747	Hexagon head screw	M10x16	A2-50	ISO 4017	/	0.2
30	1	217496	Hexagon head screw	C 1/2"	A2-50	0414125-21-04030001 / DIN 9137	/	0.07
31	3	106470	Lifting eyebolt	M16x27	A3-50	ISO 2066	/	0.30
32	2	156591	Swivel castor 260kg	Ø 160	1.4301, Niyk/Pu	BUCKLE LEX-PATH	/	1.6
33	20	116705	Spring lock washer	M10	A2	DIN 127	/	0.00
34	2	146675	Swivel castor with brake	Ø 160	1.4301, Niyk/Pu	BUCKLE LEX-PATH	/	2.0
35	1	428250	Burst disc pipe	See drawing	See drawing	B-000185-0006+0105 / EN 10082-2	/	0.04
36	4	108822	Hexagon socket head cap screw	M10x20	A2-50	ISO 4762	/	0.028
37	4	426103	Threaded bushing	Ø 30 x 40	1.4307	B-000185-0009+0202 / EN 10082-2	/	0.2
38	2	146695	Swivel lock	/	1.4301	Blecke RI-03.03	/	0.3
39	5	107425	Hexagon head screw	M10x20	A2-50	ISO 4017	/	0.02
A/01			Removed feed castor and added swivel castor and direction lock				16/02/2021	Mahé J.
A/02			As built drawing based on DQ drawing B-000185-0006-0000				20/01/2021	Ah/And
REV		DESCRIPTION					DATE	APPROVED Sole
			Site 21 Su-1215 Medway www.brinox.eu					1.5
Dimensions	See drawing	Certificate	See drawing	ID Product		ID Base Material	Mass	
Material	See drawing	Standard	See drawing	425186		N/A	420.7	kg

Customer		Phase	
Object	Object No. B-0001695 Previous Drawing Number B-0001695-0006-0001	ASB	
Description	Drawing Number B-0001695-0006-0001-1004704 Process vessel 120L EX Assembly	Revision A01	Page 1 / 1 Format A0
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Component list-Process Vessel MF-PV-8491-00

Document Code: B-0001695-M014-05002002-001
Project Name: Vessels WB061
Project Number: B-0001695
Project Scope: Mobile Vessels
Version: 2.0
Contract Number: IO201651

Client Document Code: N/A
Client Project Number: WB061

Client:
Address:
Project Location:
Project Site: .

Serial Number: 1004704
Client Equipment Number: MF-PV-8491-00

CONFIDENTIAL

Document History

Version	Version description	Date	Prepared by
1.0	IFC-Issued for Construction	11-JAN-2021	Gregor Pilpah
2.0	As-Built after FAT review	26-JAN-2021	Gregor Pilpah

TAG		NAME_EN	PRODUCER	TYPE	DESCRIPTION	DN1	DN2	CONNECTION	CONN_STAND ARD	MATERIAL	CODE	CERT_ATEX	CERTIFICATE	GASKET	RA	ID	Vessel volume
MF-BD	8491-01	Burst Disk	CONTINENTAL DISC CORPORATION	SANITRX HPX-90 (NA)	BURST PRESSURE: min.2,7barg to max.3,3barg @ 100 Deg; Gas/Liquid Continental Rupture Dis Per SC1#TBA	1-1/2"		TC	DIN32676-C	AISI316L	Order code: 16CD101312		Certificate (EN 10204.3.1)+FDA	FDA Grade/USP Class VI Black EPDM Inlet Gasket; ADI-Free	Ra<0,5	158126	120L
MF-QC	8491-01	Coupling without valve- Female	Stäubli	NCB08.1103/IC/JE	Design temperature min: -20°C/150°C at pressure rating 50bar	R1/2"		THDF	ISO228	AW.Nr.1.4404/1. 4571	/	NA	EN10204-3.1/FDA	EPDM	NA	158077	120L
MF-QC	8491-02	Nipple with valve -Male	Stäubli	NCB08.7103/IC/JE	Design temperature min: -20°C/150°C at pressure rating 50bar	R1/2"		THDM	ISO228	W.Nr.1.4404/1.4 571	/	NA	EN10204-3.1 / FDA	EPDM	NA	158075	120L
MF-CV	8491-01	ATEX third party controller	GEMÜ (ROTORK)	1427000A1S7A 0A0WELA29A (YT-3300 LSi5101S)	Mounting/assembly kit:1427S0124135141&1427000ZDR0618		/	Bracket		AlMgSi1/AISI1M gMn	Orded Code: 88471775	II 2G Ex ia IIC T5/T6 Gb / II 2D Ex iaD IIIC T100°C/T85°C Db IP6X	NA		/	158108+158109+158 110	120L
MF-CV	8491-01	Angel seat globe valve with pneu.,actuator	GEMÜ	550 15D60345G12G1RE2042023 + 1427S0124135 1 41+1427000ZDR06 18	NC; QLinear=2,5m3/h	DN15	fi21,3x1,6	BW	ISO1127	W.Nr.14435	Order Code: 88738689+8847 2632+88584774	II 2/2 G -(Ex h IIC T6 ... T3 Gb X); II -/2 D-(Ex h -/IIIC T150 °C -/Db X)	EN10204-3.1	PTFE&glass reinforced	NA	158074	120L
MF-SG	8491-01	Sightglass	Metaglas	Sightglass:99.NA.119.06B2	Sight glass - vessel mounted	4"	/	DIN TC(DN100); ASME TC(4")	NAC	W.Nr.1.4462	/	NA	EN 10204 3.2;AD- W2;AD-W10;PED 2014/68/EU;VdTÜV 418		Ra<0,3+EP	141243	120L
MF-IL	8491-01	Sight glass for light + Sight glass-Light	Metaglas	Light:ESL55.24V.11W.LED.EX1+Sightglass for light 99.NA.064.ESL25A	Operating voltage: 24V 11W	2 "		DN 2 " , fi100 / fi35x30mm	NAC	W.Nr.1.4462	/	II 2G Ex d IIC T6 Gb;II 2D Ex tb IIIC T80°C Db	EN10204- 3.1B+Kalibracija		Ra<0,3+EP	140062;158190	120L
MF-IS	8491-01	Magnetic Mixer	ZETA	Drive unit ZETA BMRT 50 W Ex S L (Extended)	Mixing head + bearing ZETA BMRT 50 W					W.Nr.1.4404	/		EN10204- 3.1B+Kalibracija		Ra<0,8 mic.	158121;158118	120L
MF-LI	8491-03	Liquid level measurement	Endress+Hauser	Levellflex FMP53-BAAACIDAB5UVJ+JALW	L=900mm; 2-žični; 4-20mA HART; AL housing	DN25x46	/	INGOLD	/	316L	Order Code: FMP53-13006/0	ATEX II 1G Ex ia IIC T6 Ga	EN10204-3.1/CoC- ASME BPE	EPDM-FDA, USP Cl.VI,ADI-free ; - 20...130°C	Ra<0,8 mic.	158180	120L
MF-LI	8491-01	Level switch	Endress+Hauser	Liquiphant M FTL50H-GTT2AD6G6C	FEL56; SIL NAMUR (L-H signal); Housing-F15 IP66/67 316L	DN25x46	/	INGOLD	INGOLD	316L	/	ATEX II 1/2GD Ex ia IIC T6/IECEx	EN10204-3.1	EPDM-FDA;USP Cl.VI;ADI-free ; - 20...130°C	Ra<0.3um	158184	120L
MF-LI	8491-02	Level switch	Endress+Hauser	Liquiphant M FTL51H-GTT2BD6G6C	L=200mm; FEL56; SIL NAMUR (L-H signal); Housing-F15 IP66/67 316L	DN25x46	/	INGOLD	INGOLD	316L		ATEX II 1/2GD Ex ia IIC T6/IECEx	EN10204-3.1/	EPDM-FDA, USP Cl.VI,ADI-free ; - 20...130°C	Ra<0.3um	158185	120L
MF-PG	8491-01	Pressure gauge	WIKA	233.50.100 + 990.22; -1/3 bar	p=-1/+3bar(g), with liquid filling,SS MP housing D=63mm, accuracy class 1,0	1"		TC	DIN32676-C	AISI316L		ATEX Zone 2	EN10204-3.1+FDA+ calibration protocol		Ra<0,8	158107	120L
MF-SB	8491-01	Spray head (static)	HAKE	Y1-1	70L/min@1bar, Inside surface: Glass sparkle	fi19x1,5		CLIP ON	DIN 11866-A	W.Nr.1.4435	/	II1GD c T(X)	EN10204-3.1	NA	Ra<0,8	141043	120L
MF-SV	8491-01	Safety valve	Leser	Leser 4373.2604	D=10mm; SET PRESSURE: 6,0barg @ 20 Deg	1/2"	1/2"	THDF/THDM	DIN ISO 228-1	W.Nr.1.4104			Certificate (EN 10204.3.1-H03/H01)	Metal-to-metal stellited	NA	146950	120L
MF-TP	8491-01	Temperature sensor	Endress+Hauser	TM411- BJ0AA0A0AA2A0X10A1X100A3A1C42ER 3A1A1+DCPBSC	MeasuringRanage: -200...+600°C; Working range 0...+150°C ; L=151mm/wThermowell; 1xPt100 TF; TMT181/InHead			WELD ON		AISI316L	Order Code: TM411- 5D865/101	ATEX II1/2G Ex ia IIC T6	EN10204- 3.1B+Kalibracija		Ra<0,8 mic.	158187	120L
MF-VA	8491-05	Ball valve	GEMÜ	B24 15D60C35TL	Media temp.: -10 to 220 °C; Operating pressure: 0 to 63 barg	DN15	fi21,3x1,6	BW	ISO1127	ASTM A351/1.4435 (316L)	Order Code: 88671433	II 2G Ex h IIC T6 ... T2 Gb X	EN10204-3.1	PTFE, TFM 1600	Ra<0,51mic (EP-IN/OUT)	158068	120L
MF-VA	8491-02	Diaphragm valve	GEMÜ	654 15D59405M01TH 1502	Max.media temp.: -10 to 100 °C; Operating pressure: 0 to 10 barg	1/2"	fi12,70 x 1,65	BW	ASME BPE	AISI316L	Order code: 88709116	Internal Zone 1,2 IIC; External Zone 1,2 IIC	EN10204-3.1; FDA	PTFE/EPDM two-piece	Ra<0,8mic	158065	120L
MF-VA	8491-04	Ball valve	GEMÜ	B24 15D60C35TL	Media temp.: -10 to 220 °C; Operating pressure: 0 to 63 barg	DN15	fi21,3x1,6	BW	ISO1127	ASTM A351/1.4435 (316L)	Order Code: 88671433	II 2G Ex h IIC T6 ... T2 Gb X	EN10204-3.1	PTFE, TFM 1600	Ra<0,51mic (EP-IN/OUT)	158068	120L
MF-VA	8491-01	Diaphragm valve	GEMÜ	654 25D59405M02TH 1502	Max.media temp.: -10 to 100 °C; Operating pressure: 0 to 10 barg		fi25,4x1,6 5	BW	IMPERIAL	AISI316L	Order Code: 88639468	Zone 1/2	EN10204-3.1	PTFE/EPDM two-piece	Ra<0,8	158066	120L
MF-VF	8491-01	Vent filter	NA	Not in Brinox scope!	NA	DN25		TC		NA			NA		NA	NA	120L
MF-VA	8491-03	Bottom outlet valve	GEMÜ	643 25B59405M02AT 1502	Operator size 2AT/Operator type 643 MG 25 for ATEX	1"	fi25,4x1,6 5	Welded	ASME BPE	W.Nr.1.4435	Order Code: 88700476	Inernal-Gas: Zone 1,2 IIC; External- Gas: Zone 1,2 IIB	EN10204 3.1 + FDA+PED	PTFE/EPDM two-piece	Ra<0,8	158072	120L