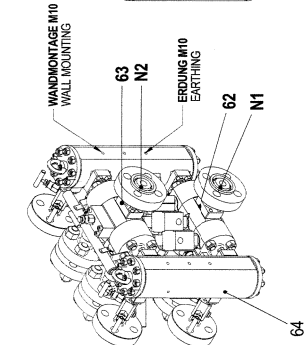
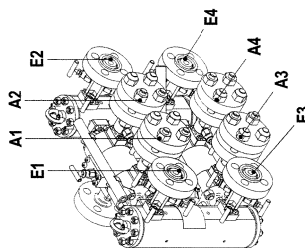
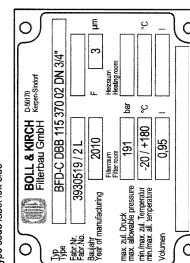
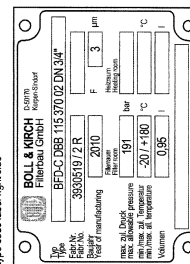
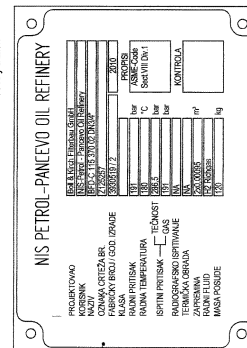


N1	FILTEREINTRITT FILTER INLET	DN3/4" 2500 LBS RTJ
N2	FILTERAUSTRITT FILTER OUTLET	DN3/4" 2500 LBS RTJ
A4	ABSAUGUNG BLEED	DN12" 2500 LBS RTJ
E2	ENTLÜFTUNG / SPÜLUNG VENT / PURGE	DN12" 2500 LBS RTJ
E4	ENTLEERUNG / SPÜLLUNG DRAIN / PURGE	DN12" 2500 LBS RTJ
S	DEMONTAGEAUSBAU DISMANTLING OF THE FILTERELEMENT	
	LEERGEWICHT EMPTY WEIGHT	120 KG



Code Word: PANCEVO
Order No.: DU 3121 25778
Site:
TAG No.: FD-4331 A/B

[illegible][illegible][illegible]

Transmittel, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.



Siemens AG Energy Sector Oil & Gas Division	Filter Reingas (Stückliste) FILTER CLEAN GAS (PARTS LIST)	
--	--	--

Siemens

Auftrag Nr.: **DU312125700**
Order No.:

Siemens

Kennwort: **Pancevo**
Code:

CB&I Lummus s.r.o					
Pancevo Oil Refinery Modernization Project; Pancevo, Serbia		Project number: 0 2163		Engineering Review Status	
Lummus Document Number / Rev.		00177	1	Signed: 	Date: 23-07-2010
Requisition / P.O. Number		0600		<input type="checkbox"/> R	Reviewed - No Comments
Lummus Document Code(s)		D01-E02		<input type="checkbox"/> RN-1	Reviewed - With Administrative Comments only
Equipment Tag. Number(s)		FD-4331A/B		<input type="checkbox"/> RN-2	Reviewed - With Comments
				<input type="checkbox"/> RJ	Rejected
				<input checked="" type="checkbox"/> FI	For Information only
				<input type="checkbox"/> S	Superseded (by document)
				<input type="checkbox"/> FD	Final

Weitergabe sowie Vervielfältigung, Verbreitung und/oder Bearbeitung dieses Dokumentes, Vervielfältigung und Mitteilung seines Inhaltes sind verboten, soweit nicht ausdrücklich gestattet. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patenterteilung, Gebrauchsmuster- oder Geschmacksmustereintragung vorbehalten.

1		21.07.2010	B&K	Niederw.		Pos. 00006 ; Material corrected
-	-	18.06.2010	B&K	Niederw.		Änderungsbeschreibung Description of Change
Index Revision	Blatt Sheet	Datum Date	erstellt drawn	geprüft review	freigegeben checked	Entstanden aus: Original of:
Klass.Nr.: Class.No.:			Format Size		Ident-Nummer/Unterlagen-Nummer Ident-Number/Document-Number	
Dok.-Art: Doc.-Type:			A4		22936716	
					Index Revision	Sprache Language
					1	D/E
					Blatt Sheet	
					1/7	

Eintrag der Handhabung öffentlich

Copyright (C) Siemens AG 2007 All Rights Reserved

**BOLLFILTER****Protection Systems****Industry & Environment**

DOCUMENTATION PARTS LIST

Date 05.07.10
Page 1

Document 203973
Description Duplex Filter
Auftragsartikelnr.: 3930519/2
BFD-C DBB 115 370 DN3/4" 2500lbs

Material VA/Stainless Steel
Assembly Z125257
Dimension drawing Z125257

NACE : MR-0175-2003
Pos.1 / 2 / 3 / 24 / 25 / 30 / 31 / 32 / 37
/ 40 / 48
/ 58 / 80 / 81

Item	ID no.	Description	Qty Drawing	Unit
00001	6110181	housing left BFD-C DBB 115 370 Material 1.4404/SA-312-TP316L DIN17458 Approval 3.1C / 3.2 ASME Sec. II Part A Latest Edition and Addenda	1 Z107454	pcs.
00002	6410218	cover BFD-P25 Gas Material UNS S31600 / S31603 / 1.4404 / 1.4401 SA-479 Gr.316 / 316L / X2CrNiMo17-12-2 SA-479 / DIN EN 10272 Approval 3.1B ASME Sec. II Part A Latest Edition and Addenda AD-W2 NACE: MR-0175-2003 DIN EN ISO 15156	4 Z101685	pcs.
00003	6110182	housing right BFD-C DBB 115 370 Material 1.4404/SA-312-TP316L DIN17458 Approval 3.1C / 3.2 ASME Sec. II Part A Latest Edition and Addenda	1 Z107456	pcs.
00004	2110022	hexagon nut M12 Material SA-194 Gr.8 SA-194 Approval 3.1B ASME SEC. II Part A Latest Edition and Addenda	32 DIN934	pcs.
00005	2010198	stud M12x30 Material SA-193 Gr.B8 Cl.2 SA-193 Approval 3.1B ASME SEC. II Part A Latest Edition and Addenda	32 DIN939	pcs.
00006	3090389	o-ring 66,2x3,53 Material Aflas A75H	8 2-231	pcs.
00007	3420034	supporting ring 66,6x72x1,4 Material PTFE-Weiss	8	pcs.

**BOLLFILTER****Protection Systems****Industry & Environment**

DOCUMENTATION PARTS LIST

Date 05.07.10
Page 2203973 Duplex Filter
BFD-C DBB 115 370 DN3/4" 2500lbs

Item	ID no.	Description	Qty Drawing	Unit
00008	5010325	connection piece BFD-C DBB 115 370 Material 1.4571 X6CrNiMoTi17-12-2 EN 10272	2 Z108377	pcs.
00009	2010498	stud bolt M8x30 Material 1.4571 X6CrNiMoTi17-12-2 EN 10088-1	4 DIN913	pcs.
00010	5014821	retaining plate BFD-P25 Material 1.4571 X6CrNiMoTi17-12-2 EN 10028-7	2 Z45326	pcs.
00011	5014822	bow BFD-P25 Material 1.4571 X6CrNiMoTi17-12-2 EN 10028-7	2 Z45327	pcs.
00014	1940302	Filter Element 52x154 GCL-HR-A Material 1.4404/316L	2 Z102570	pcs.
00015	3090419	o-ring 28,1x3,53 Material Aflas A75H	6 2-216	pcs.
00015	198647	o-ring 37,6x3,53 Material Aflas A75H	6 2-222	pcs.
00016	2110029	hexagon nut M10 Material SA-194 Gr.8 SA-194 Approval 3.1B ASME SEC. II Part A Latest Edition and Addenda	24 DIN934	pcs.
00017	2010504	stud M10x35 Material SA-193 Gr.B8 Cl.2 SA-193 Approval 3.1B ASME VIII/1 ACC. LAT. ED. LAT. AD.	24 DIN939	pcs.
00018	2010424	stud bolt M8x30 Material SA-193 Gr.B8 Cl.2 SA-193 Approval 3.1B ASME Sec. II Part A Latest Edition and Addenda	32 DIN939	pcs.
00019	2110055	hexagon nut M8 Material SA-194 Gr.8 SA-194 Approval 3.1B ASME Sec. II Part A Latest Edition and Addenda	32 DIN934	pcs.
00020	2110025	lifting eye nut M12 Material VA/Stainless Steel	2 DIN582	pcs.

Id. Nr.: 22936716

Bl. 3

**BOLLFILTER****Protection Systems****Industry & Environment**

DOCUMENTATION PARTS LIST

Date 05.07.10
Page 3203973 Duplex Filter
BFD-C DBB 115 370 DN3/4" 2500lbs

Item	ID no.	Description	Qty Drawing	Unit
00021	3090391	o-ring 59,9x3,53 Material Aflas A75H	2 2-229	pcs.
00022	2219543	locking ring 70x2,5 Material VA/Stainless Steel	2 DIN472	pcs.
00023	2012948	stud bolt M12x30 Material 1.4401 A4	2 DIN913	pcs.
00024	151106	shut-off valve SAE DN13-1/2" 2500lbs RTJ Material 316/316L/1.4404 Approval 3.1B NACE: MR-0175-2003 DIN EN ISO 15156	4 Z114404	pcs.
00025	151105	shut-off valve SAE DN13-1/2" 2500 lbs RTJ Material 1.4404/316L	4 Z114407	pcs.
00026	3090392	o-ring 23,3x3,53 Material Aflas A75H	4 2-213	pcs.
00027	3090392	o-ring 23,3x3,53 Material Aflas A75H	4 2-213	pcs.
00027	198649	o-ring 7,5x3,53 Material Aflas A75H	4 2-203	pcs.
00030	6210037	valve housing BFD-DBB 25 Material 1.4404/SA-479-316L EN 10272	1 Z107458	pcs.
00031	6210031	Approval 3.1B valve housing BFD-C DBB 25 seitlich rechts Material 1.4404/SA-479-316L EN 10272	2 Z106985	pcs.
00032	204148	Approval 3.1B connection inlet/outlet SAE DN25 - 3/4" 2500 lbs RTJ Material UNS S31600 / S31603 / 1.4404 / 1.4401 SA-479 Gr.316 / 316L / X2CrNiMo17-12-2 SA-479 / DIN EN 10272 Approval 3.1B ASME Sec. II Part A Latest Edition and Addenda AD-W2 NACE: MR-0175-2003 DIN EN ISO 15156	2 Z115288	pcs.
00034	3090394	o-ring 55,2x2,62 Material Aflas A75H	8 2-139	pcs.
00036	2310071	ball BFD-P25 Material 316L	2 Z45071	pcs.
00037	6210032	valve housing BFD-C DBB 25 seitlich links Material 1.4404/SA-479-316L EN 10272 Approval 3.1B	2 Z106988	pcs.

Id. Nr.: 22936716

Bl. 4

**BOLLFILTER****Protection Systems****Industry & Environment**

DOCUMENTATION PARTS LIST

Date 05.07.10
Page 4203973 Duplex Filter
BFD-C DBB 115 370 DN3/4" 2500lbs

Item	ID no.	Description	Qty Drawing	Unit
00038	3090393	o-ring 42,5x2,62 Material Aflas A75H	16 2-131	pcs.
00039	2010030	Hexagon Screw M16x60 Material A4-70 EN ISO 3506	3 DIN931	pcs.
00040	5410082	Approval selector shaft BFD-P25 Material 1.4404/SA-479-316L EN 10272 DC ASME Sec. II Part A Latest Edition and Addenda AD-W2 NACE: MR-0175-2003 DIN EN ISO 15156	6 Z45073	pcs.
00041	3325681	flat gasket BFD-P25 Material PTFE	6 Z45074	pcs.
00042	3090395	o-ring 13,9x2,62 Material Aflas A75H	12 2-113	pcs.
00043	6902579	limiting sheet BFD-P Material 1.4571 X6CrNiMoTi17-12-2 EN 10028-7	2 Z45075	pcs.
00044	3520024	ball gasket Gr.02 Material PEEK (Polyetheretherketon)	12 Z107767	pcs.
00045	2717705	thrust piece GN M4 Nr.65475400 Material VA/Stainless Steel Supplier MAEDLER	12	pcs.
00046	2216669	locking ring 18x1,2 Material VA/Stainless Steel	12 DIN471	pcs.
00047	139186	straight grooved pin 10x15 Material VA/Stainless Steel	6 ISO8739	pcs.
00048	6210038	valve housing BFD-DBB 25 Material 1.4404/SA-479-316L EN 10272 3.1B	1 Z107459	pcs.
00050	2010088	Approval screw bolt L M16x110 Material A4-70 EN ISO 3506	16 DIN2510	pcs.
00051	2110019	Approval hexagon nut M16 Material A4-70 EN ISO 3506 Approval 3.1B	19 DIN934	pcs.

**BOLLFILTER****Protection Systems****Industry & Environment**

DOCUMENTATION PARTS LIST

Date 05.07.10
Page 5203973 Duplex Filter
BFD-C DBB 115 370 DN3/4" 2500lbs

Item	ID no.	Description	Qty Drawing	Unit
00052	5110113	support ring BFD-C DBB Material 1.4404/SA-479-316L EN 10272	4 Z106909	pcs.
00053	6916208	limiting sheet BFD-DBB Material 1.4571 X6CrNiMoTi17-12-2 EN 10028-7	4 Z102765	pcs.
00054	5019219	flat steel BFD-C 115 Material 1.4571 X6CrNiMoTi17-12-2 EN 10028-7	3 Z104522	pcs.
00055	2310074	ball DN25 Material 316L	4 Z39533	pcs.
00056	198651	o-ring 8x2,0 Material Aflas A75H	2	pcs.
00057	198652	o-ring 16x2,0 Material Aflas A75H	2	pcs.
00058	2610182	shut-off valve DN5 4000 psi Material 316/316L/1.4404 Approval 3.1B NACE: MR-0175-2003 DIN EN ISO 15156	1 Z116106	pcs.
00059	2014104	hexagon socket head cap screw M8x50 Material A4-70 EN ISO 3506	4 DIN912	pcs.
00060	5610254	coupling piece BFD-DBB 25 Material 1.4571 X6CrNiMoTi17-12-2 EN 10028-7	6 Z102756	pcs.
00062	9800300	label: "inlet" Eintritt gelb Material Laminat	1 Z21410	pcs.
00063	9800301	label: "outlet" Austritt gelb Material Laminat	1 Z21411	pcs.
00064	2310068	stud bolt M8x10 Material VA/Stainless Steel	4 DIN551	pcs.
00065	5010880	switch rod Material 1.4571 X6CrNiMoTi17-12-2 EN 10088-1	3 Z118195	pcs.
00066	6710150	support Material 1.4301 X5CrNi18-10 EN 10088-1	2 Z118411	pcs.

**BOLLFILTER****Protection Systems****Industry & Environment**

DOCUMENTATION PARTS LIST

Date 05.07.10
Page 6203973 Duplex Filter
BFD-C DBB 115 370 DN3/4" 2500lbs

Item	ID no.	Description	Qty Drawing	Unit
00067	5010931	switching handle	1 Z118200	pcs.
		Material 1.4571 X6CrNiMoTi17-12-2 EN 10272		
00070	9401690	type plate Nr.30882/02 deut./engl.	2 WN265.5.1	pcs.
		Material VA/Stainless Steel		
00071	2315518	half-round groove pin 4x6	8 EN ISO 8746	pcs.
		Material 1.4303 X4CrNi18-12 EN 10088-1		
00072	204581	nameplate Pancevo Oil Refinery	1 Z125257	pcs.
		Material 1.4301 X5CrNi18-10 EN 10088-1		
00080	166391	ASME-blind flange 1/2" 2500 lbs B16.5 RTJ	4	pcs.
		Material UNS S31603 SA-182 Gr.F316L SA-182		
		Approval 3.1B Material: ASME SEC. II Part A Latest Edition and Addenda		
00081	151110	gasket RTJ R13/A11 1.4571(1/2" 2500lbs)	4	pcs.
		Material 1.4571 X6CrNiMoTi17-12-2 EN 10088-1		
		Supplier KEMPCHEM		
00082	159787	threaded bolt 3/4" x 5 1/4" UNC	16 ASME B 1.1	pcs.
		Material SA-193 Gr.B8 Cl.2 SA-193		
		Approval 3.1B Material: ASME Sec. II Part A Latest Edition and Addenda		
00083	2110042	Hexagon Nut 3/4" UNC	32 ASME B18.2.2	pcs.
		Material SA-194 Gr.8 SA-194		
		Approval 3.1B Material: ASME Sec. II Part A Latest Edition and Addenda		

***** End of document *****