LEGEND

- BALL VALVE MANUAL OPERATED
- BALL VALVE DOUBLE PNEUMATIC OPERATED
- BALL VALVE SINGLE PNEUMATIC OPERATED
- GLOBE VALVE
- GATE VALVE
- CHECK VALVE
- REDUCER
- 5-VALVE MANIFOLD
- 2-VALVE MANIFOLD
- SILENCER
- CONDENSATE DRAIN
- FILTER REDUCER
- PRESSURE RELIEF VALVE
- FI — FLOW INDICATOR
- PI — PRESSURE GAUGE
- PDT — PRESSURE DIFFERENTIAL INDICATOR TRANSMITTER
- AT — DEWPOINT ANALYZER
- ICSS
- UCP

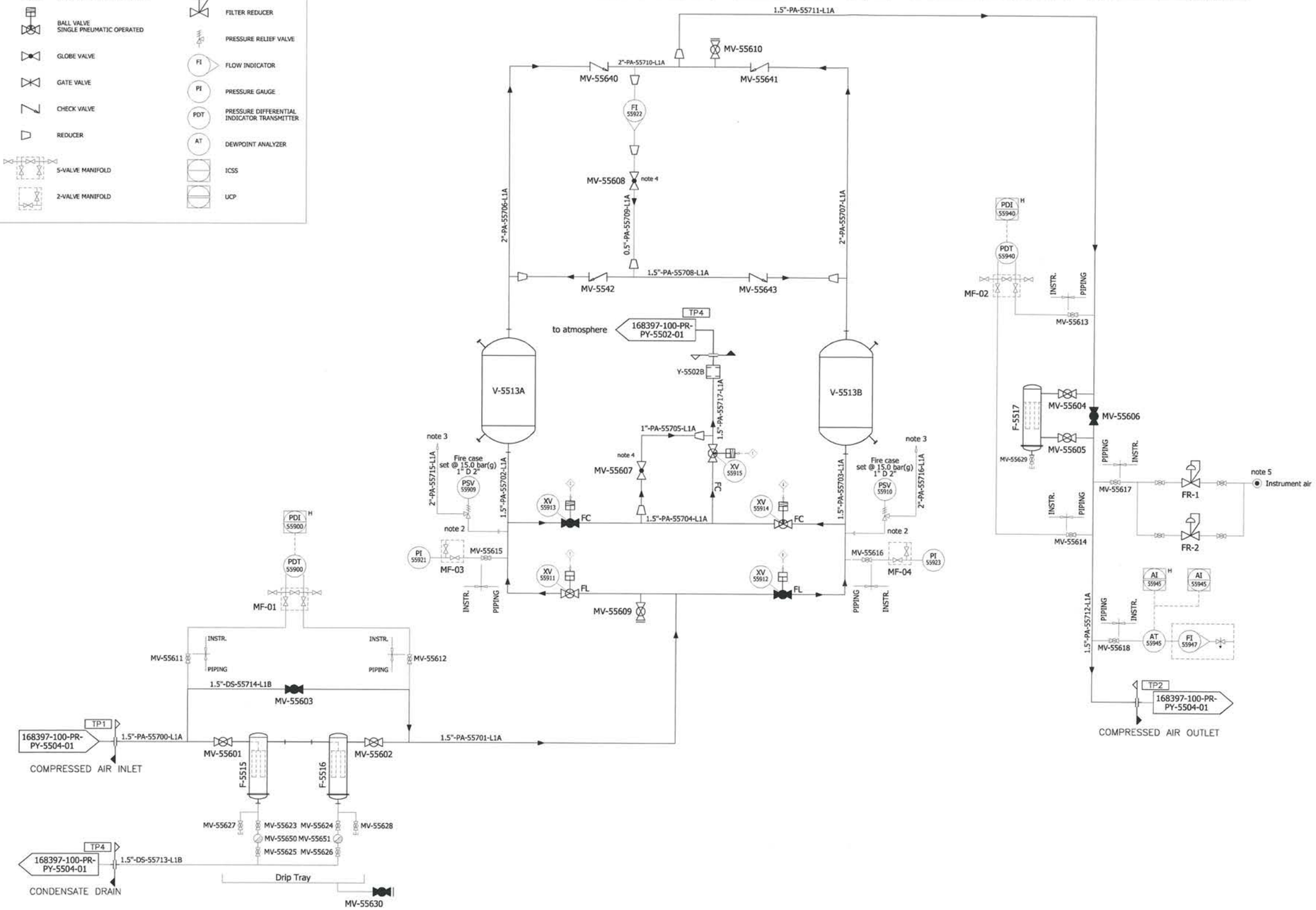
Item no.	F-5515	
Description	Coalescer	
Type	Coalescing	
Code	PD-5500	
Material	Carbon steel	
Design pressure	15	bar(g)
Working pressure	11	bar(g)
Design temperature	-8 / +75	°C
Working temperature	+38	°C
I.D. x T.T.	Ø154 x 830	mm

Item no.	F-5516	
Description	Pre-filter	
Type	Oil removal	
Code	PD-5500	
Material	Carbon steel	
Design pressure	15	bar(g)
Working pressure	11	bar(g)
Design temperature	-8 / +75	°C
Working temperature	+38	°C
I.D. x T.T.	Ø154 x 830	mm

Item no.	V-5513A	
Description	Adsorber column (Tower "A")	
Type	Activated alumina	
Code	PD-5500	
Material	Carbon steel	
Design pressure	15	bar(g)
Working pressure	11	bar(g)
Design temperature	-8 / +75	°C
Working temperature	+38	°C
I.D. x T.T.	Ø390.6 x 1490	mm

Item no.	V-5513B	
Description	Adsorber column (Tower "B")	
Type	Activated alumina	
Code	PD-5500	
Material	Carbon steel	
Design pressure	15	bar(g)
Working pressure	11	bar(g)
Design temperature	-8 / +75	°C
Working temperature	+38	°C
I.D. x T.T.	Ø390.6 x 1490	mm

Item no.	F-5517	
Description	Afterfilter	
Type	Particle	
Code	PD-5500	
Material	Carbon steel	
Design pressure	15	bar(g)
Working pressure	11	bar(g)
Design temperature	-8 / +75	°C
Working temperature	+38	°C
I.D. x T.T.	Ø154 x 830	mm



Dryer X-5513			
TP no.	Size	Connection	Service
TP1	1 1/2"	150# ANSI B16.5 RF	Inlet wet air
TP2	1 1/2"	150# ANSI B16.5 RF	Outlet dried air
TP3	2	150# ANSI B16.5 RF	Outlet regeneration air
TP4	1 1/2"	150# ANSI B16.5 RF	Outlet drain prefilters

SCOPE OF SUPPLY

ATLAS COPCO

NEXEN

Notes	
1	Actuated ball valves (XV) shall be provided with open (XZSO) and closed (XZSC) limit switches
2	Provided with weep hole Ø8mm
3	Vent to discharge locally within package limits
4	Lockable globe valves; for commissioning
5	Instrument airline fitted with proportional relief valve set @ 7 bar(g)
6	For UCP details see black start compressor P&I D 168397-200-PO-3367-MC2-0009

REFERENCED DRAWINGS

168397-200-PO-3367-MC2-001 : P&ID BLACK START SYSTEM
(AC Drg No: 9701 2376 001-2)

168397-200-PO-3367-MB1-005 : GENERAL ARRANGEMENT BLACK START DRYER
(AC Drg No: 9701 2376 041-2)

Nexen Petroleum (U.K.) Limited
Golden Eagle Area Development

VENDOR : ATLAS COPCO LTD

EQUIPMENT TITLE : BLACK START AIR DRYER PACKAGE

EQUIPMENT TAG NO(S) : X-5513A/B

GEAD Vendor Document Number

Purchase Order Number	Doc Type Code	Seq. No	Rev.	DATE
168397-200-PO-3367	MC2	005	04	7/08/12

INCLUDES DOCUMENT CODES : TOTAL SHEETS : 1

✓	F	Final (accepted) – manufacturing may proceed.
	A	Qualified Release – revise and re-submit. Manufacturing may proceed subject to incorporation of comments.
	R	Rejected – revise and re-submit. Manufacturing may not proceed.
	I	Accepted for information only.

Review of Vendor documents does not relieve Vendor of the responsibility for correctness under the Purchase Order. Permission to proceed does not constitute acceptance of design, detail and calculations, test methods or materials developed or selected by the Vendor and does not relieve the Vendor from full compliance with the Purchase Order or any other obligations, nor detract from any of the Purchaser's rights.

Engineer : Date : 11.09.12

Issue	Name Date	Notes	Chkd	Appd
D	BC 7.08.12	MODIFIED TO CLIENT COMMENTS – DOCN 5136	TJH	RS
C	SJH 23.05.12	MODIFIED TO CLIENT COMMENTS – DOCN 4993	TJH	RS
B	SJH 28.02.12	MODIFIED TO CLIENT COMMENTS – DOCN 4993	TJH	RS
A	SJH 09.01.12	FIRST ISSUE	–	–

4	–	06-08-12	W.C.	M.O.
3	client feedback	23-5-12	W.C.	M.O.
2	client feedback	17-2-12	W.C.	M.O.
1	–	6-1-12	DvA	T.J.
0	–	21-12-11	DvA	T.J.

PNO11041 - 002 MODEL: CDE-0415

All EC Contracts Comply with Pressure Equipment Directive According to PED97/23/EC

CLIENT CB&I NEXEN – GOLDEN EAGLE

TITLE X-5513 BLACK START DRYER P&ID

Atlas Copco

Atlas Copco Compressors Ltd
Swallowdale Lane
Hemel Hempstead, Herts, HP2 7HA

A.C.ORDER No.	SHOP ORDER	Dept	ES	Drawn	SJH	Chkd	TJH	Appd	RS
–	855604	Scale	–	Date	09.01.12	Date	09.01.12	Date	09.01.12

CLIENT ORDER No. 168397-200-PO-3367 | CLIENT DRG No. 168397-200-PO-3367-MC2-005-01 | A1 | CAD Archive 855604-CB&I NEXEN | Based on –

USED ON – | A.C. DRG No. 9701 2376 042-2 | SHEET 1 OF 1 | Issue D

All rights of title in drawing and/or any design with Atlas Copco Compressors Ltd. B.V. may be reproduced or published in any form or by any means or communicated or disclosed to third parties and is subject to return on demand.