

Document Title	P&IDs
DRG Document No.	DRG-101872-2829-DC02-R00
Client	Airpack Nederland BV
Project	API 618 Design Approach 2 for 17811-00-0701

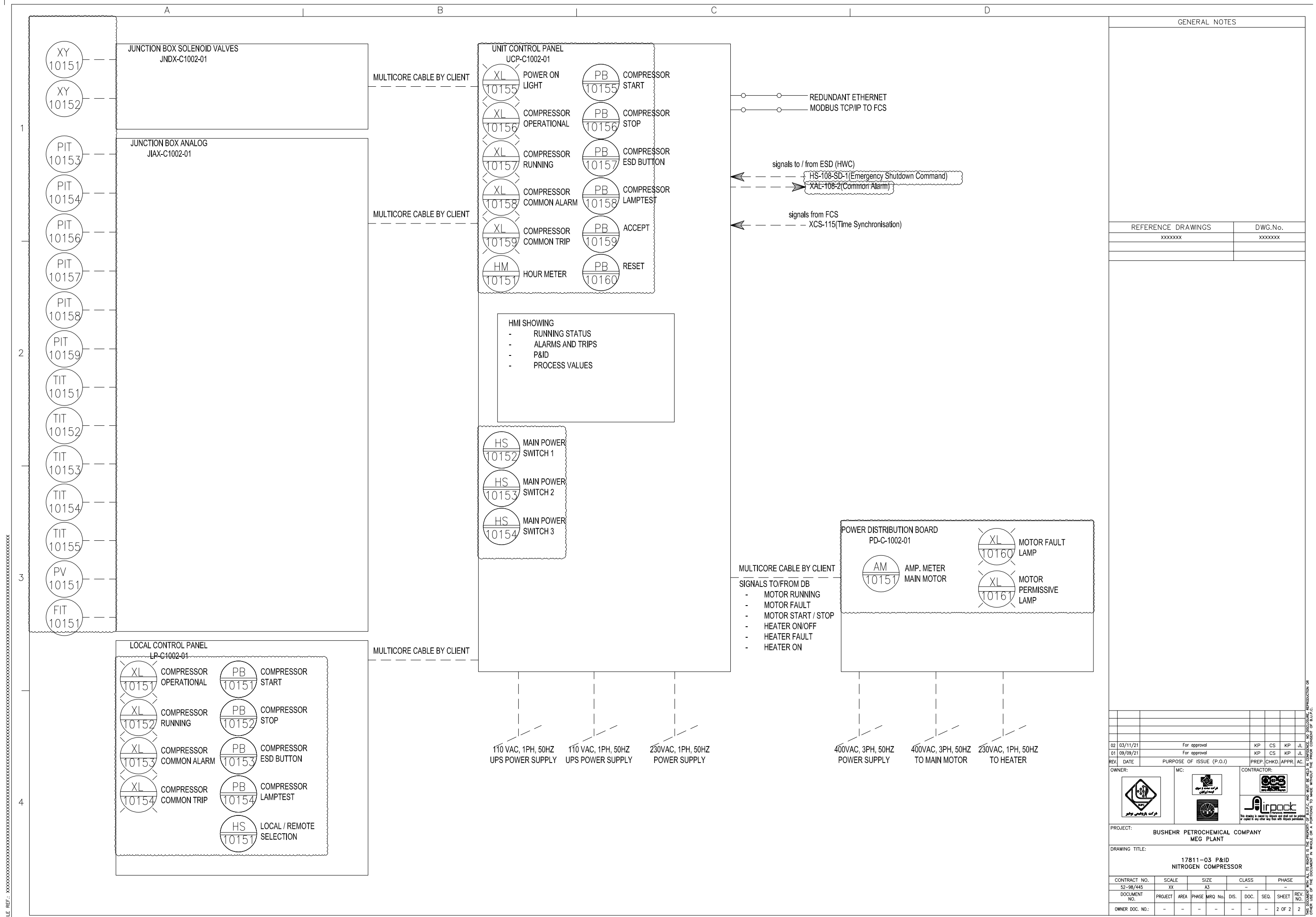
**DYNAFLOW
RESEARCH
GROUP.**

Appendix G

P&IDs

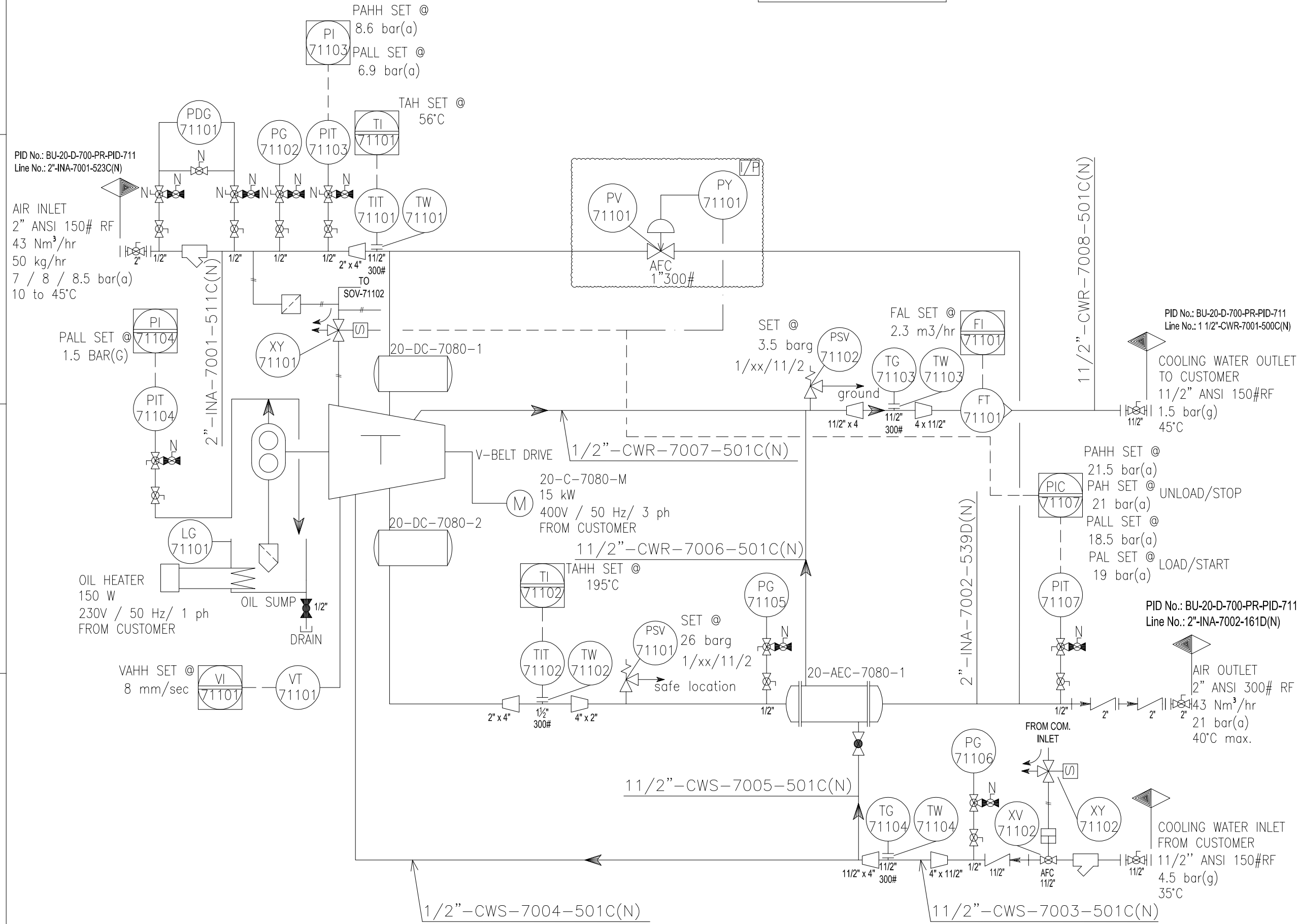
0	Issued for comments	For Comments	TK	MPB	FMB	18/02/2022
Rev.	Description	Status	Prep'd	Chk'd	App'd	Date

NITROGEN COMPRESSOR SYSTEM 17811-03A



EMERGENCY AIR COMPRESSOR SYSTEM 17811-03B

A		B		C					
COMPRESSOR		MAIN MOTOR		PULSATION DAMPER INLET		PULSATION DAMPER OUTLET		AFTER COOLER	
Tagnumber:	20-C-7080	Tagnumber:	20-C-7080-M	Tagnumber:	20-DC-7080-1	Tagnumber:	20-DC-7080-2	Tagnumber:	20-AEC-7080-1
Type:	1-stage oilfree piston	Rated power:	15 kW	Volume:	30L	Volume:	30L	Flow air side:	173 Nm³/hr
Compressor capacity:	173 Nm³/hr	Speed:	1475 rpm	OP / DP:	7 to 8,5 bar(a) / 13,5 bar(a)	OP / DP:	21 bar(a) / 25 bar(a)	Flow water side:	1,4 m³/hr
Operating pressure:	21 bar(a)	Power supply:	400 V/ 50 Hz/ 3 ph	OT / DT:	5 to 55°C / 0 to 80°C	OT / DT:	180 °C / 0 to 210°C	OP / DP(shell):	21 bar(a) / 25 bar(g)
Design Pressure:	26 bar(g)	Rated current:	28,5	Design:	AMSE VIII. Div. 1	Design:	AMSE VIII. Div. 1	OP / DP(tubes):	4,5 bar(g) / 10 bar(g)
Speed:	400 rpm	Ingress protection:	IP 55	Material:	Carbon steel	Material:	Carbon steel	OT / DT(shell):	180°C / 0 to 210°C
Discharge temperature:	180°C	Hazardous area class:	Ex II 3G IIB T3, Eex'd'					OT / DT(tubes):	35 °C / 0 to 95°C
								Design:	TEMA C, AMSE VIII. Div. 1
								Material:	Carbon steel



GENERAL NOTES	
<p>HOLDS:</p> <ol style="list-style-type: none">1. API designator for PSV to be determined after completion of PSV calculation	

REFERENCE DRAWINGS	DWG.No.
xxxxxxx	xxxxxxx

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