

NUOVO PIGNONE	CLIENTE - CUSTOMER	STOGIT
	LOCALITA' - PLANT LOCATION	SETTALA - ITALY
FIRENZE		
COMMESSA - JOB 1102782	IMPIANTO - PLAN	CENTRALE DI SETTALA TC-3

CENTRIFUGAL COMPRESSOR DATA SHEET

2BCL456/A

3	11/07/11	Revised where shown <3>	NP	NP	NP	
2	02/05/11	Revised where shown <2>	NP	NP	NP	
1	02/05/11	Revised where shown <1>	NP	NP	NP	
0	07/03/11	EMISSIONE - ISSUED	NP	NP	NP	
REV. REV.	DATA DATE	DESCRIZIONE / DESCRIPTION	DISEGN. DRAFT.	CONTR. CHECK'D	APPROV. APPRO'D	STATO REVES. REV. STATUS



Stogit
Stoccaggi Gas Italia SpA
Sede Operativa di Crema

CENTRALE DI TURBOCOMPRESSIONE
SETTALA TC-3

CENTRIFUGAL COMPRESSOR DATA SHEET 2BCL456/A

SCALA SCALE	SOSTITUISCE IL SUPERSEDES N.	SOSTITUITO DAL SUPERSEDED BY N.	AREA IMP. PLANT AREA	UNITA' IMP. PLANT UNIT	IDENTIFICATIVO DOCUMENTO DOCUMENT IDENTIFIER	FG. / DI SHEET / OF
	SOK7302001			TC-3	0120 00DMGA12825	1 / 46

3	Revised where shown <3>	U.T.E.	Ardis D.	Bianchi P.	11/07/2011	
2	Revised where shown <2>	U.T.E.			02/05/2011	
1	Revised where shown <1>	U.T.E.			02/05/2011	N. SOK 7302001 /4
0	Emissione - Issued	U.T.E.			07/03/2011	LINGUA-LANG. PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	PREP'D	CONT-CHK'D	APP-APPR'D	DATA-DATE	A 1 / 2
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				SOSTITUITO DA - REPLACED BY		



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 2 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1A_COMP1_PPF1	2A_COMP1_PPF1	3A_COMP1_PPF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13					
14	395218	513777	462367		
15	285005	370501	333428		

	1A_COMP1_PPF1	2A_COMP1_PPF1	3A_COMP1_PPF1		
16	INLET CONDITIONS				
17	42.0	65.4	42.0	69.3	42.0
18	20.0	50.0	20.0	50.0	20.0
19	0.0	0.0	0.0	0.0	0.0
20	16.2	16.2	16.2	16.2	16.2
21	1.438	1.452	1.438	1.463	1.438
22	0.920	0.919	0.920	0.916	0.920
23	9417	6763 <1>	12242	8203	11017

	1A_COMP1_PPF1	2A_COMP1_PPF1	3A_COMP1_PPF1		
24	DISCHARGE CONDITIONS				
25	66.9	94,0 <1>	70,7 <1>	105,0	73,7
26	60,9 <1>	86,8 <1>	67,2 <1>	94,4 <1>	70,0
27	1.432	1.437	1.429	1.441	1.430
28	0.929	0.937	0.932	0.940	0.932
29	12870 <1>		19963 <1>		19379 <1>
30					
31	13127		20362		19766
32	9374		10657		10433

	1A_COMP1_PPF1	2A_COMP1_PPF1	3A_COMP1_PPF1		
33	SOS0403362 (012000DMST12820)				
34	69392	59164	78620	68372	85043
35	83.7	75.5	81.4	71.4	83.6
36					
37	SOS0403362 (012000DMST12820)				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

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2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	2 / 3

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 3 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR <u>STOGIT</u>	UNIT ONE (1) X 100%
3	SITE <u>SETTALA - ITALY</u>	SERIAL NO. <u>C14082</u>
4	SERVICE <u>GAS STORAGE <1></u>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER <u>NUOVO PIGNONE</u>	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL <u>2BCL456/A</u>	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	4A_COMP1_PPF1	5A_COMP1_PPF1	6A_COMP1_PPF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41) <input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY)				
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET)				
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A)				
18	<input checked="" type="radio"/> TEMPERATURE (°C)				
19	<input type="radio"/> RELATIVE HUMIDITY %				
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
21	<input checked="" type="checkbox"/> Cp / Cv				
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)				
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY)				
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A)				
26	<input checked="" type="checkbox"/> TEMPERATURE (°C)				
27	<input checked="" type="checkbox"/> Cp / Cv				
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂)				
29	<input checked="" type="checkbox"/> kW REQUIRED	<1>			
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC)	<1>			
32	<input checked="" type="checkbox"/> SPEED (RPM)	<1>			
33	<input checked="" type="checkbox"/> TURNDOWN %	<2>			
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg)	<1>			
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%)				
36	<input checked="" type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER	<1>			
38	PROCESS CONTROL (1-3.4.2.1)				
39	METHOD <input type="radio"/> SUCTION THROTTLING <input type="radio"/> VARIABLE INLET <input checked="" type="radio"/> SPEED VARIATION <input type="radio"/> DISCHARGE <input type="radio"/> COOLED BYPASS				
40	FROM _____ BAR (kPa abs) GUIDE VANES		FROM <u>60</u> % BLOWOFF		FROM _____
41	TO _____ BAR (kPa abs) (2-2.4.1)		TO <u>105</u> % TO _____		TO _____
42	SIGNAL <input type="radio"/> SOURCE (1-3.4.2.1) _____				
43	TYPE <input checked="" type="radio"/> ELECTRONIC <input type="radio"/> PNEUMATIC <input type="radio"/> OTHER _____				
44	RANGE <u>4-20</u> mA		_____ BAR (kPa abs)		
45	<input type="radio"/> ANTI-SURGE SYSTEM (1-3.4.2.2) _____				

46

47 **NOTES**

48 (*) Process value, add 70% recycle

49 _____

50 _____

51 _____

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53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	3 / 4

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 4 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	7A_COMP1_PPF1		8A_COMP1_PPF1		
	1	2	1	2	
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343814*	197564**		
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	247936*	142470**		
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A)	42.0	80,5 <1>	42.0	
18	<input checked="" type="radio"/> TEMPERATURE (°C)	19,8 <1>	50.0	17,7 <1>	
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	16.2	16.2	16.2	
21	<input checked="" type="checkbox"/> Cp / Cv <1>	1.439	1.497	1.443	
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁) <1>	0.920	0.905	0.918	
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	8512	4953	8571	
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	82.0	152.0	82.3	
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	80.2	111.9	78.0	
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.428	1.468	1.433	
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.936	0.955	0.934	
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	18538		18705	
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	18906		19079	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	10429		10416	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)			
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	102882	107108	102391	
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%)	83.2	81.4	83.2	
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)			

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 4% recycle

49 (**) Process value, add 84% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 4 / 5
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

**CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS**

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 5 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1B_COMP1_PPF1	2B_COMP1_PPF1	3B_COMP1_PPF1			
9	2BCL456/A					
10	COMPRESSOR TYPE					
11	SECTION					
12	1	2	1	2	1	2
13	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)					
14	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)					
15	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>					
16	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>					
17	INLET CONDITIONS					
18	<input checked="" type="radio"/> PRESSURE (BAR-A)					
19	<input checked="" type="radio"/> TEMPERATURE (°C)					
20	<input type="radio"/> RELATIVE HUMIDITY %					
21	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)					
22	45.0	68.0	45.0	72.3	45.0	75.3
23	20.0	50.0	20.0	50.0	20.0	50.0
24	0.0	0.0	0.0	0.0	0.0	0.0
25	16.2	16.2	16.2	16.2	16.2	16.2
26	1.450	1.459	1.450	1.472	1.450	1.481
27	0.915	0.917	0.915	0.913	0.915	0.910
28	8738	6446	11359	7835	10223	6767
29	DISCHARGE CONDITIONS					
30	<input checked="" type="radio"/> PRESSURE (BAR-A)					
31	<input checked="" type="radio"/> TEMPERATURE (°C)					
32	<input checked="" type="radio"/> Cp / Cv					
33	<input checked="" type="radio"/> COMPRESSIBILITY (Z ₁)					
34	<input checked="" type="radio"/> INLET VOLUME (m³/h) (WET / DRY)					
35	69.5	93.9	73.8	105.0	76.8	120.0
36	58.1	83.1	64.5	90.2	67.3	95.9
37	1.445	1.445	1.442	1.450	1.443	1.462
38	0.924	0.933	0.927	0.937	0.927	0.939
39	<input checked="" type="radio"/> kW REQUIRED <1>					
40	<input type="checkbox"/> TRAIN kW REQUIRED					
41	<input checked="" type="radio"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>					
42	<input checked="" type="radio"/> SPEED (RPM) <1>					
43	<input checked="" type="radio"/> TURNDOWN % <2>					
44	<input checked="" type="radio"/> POLYTROPIC HEAD (N-m/kg) <1>					
45	<input checked="" type="radio"/> POLYTROPIC EFFICIENCY (%) <1>					
46	<input type="radio"/> CERTIFIED POINT					
47	<input checked="" type="radio"/> PERFORMANCE CURVE NUMBER <1>					
48	SOS0403362 (012000DMST12820)					
49	63979	52309	73609	60929	79924	76521
50	83.8	74.5	81.9	70.3	83.9	79.4
51	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	5 / 6



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 6 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	4B_COMP1_PPF1	5B_COMP1_PPF1	6B_COMP1_PPF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
15	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
16	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>				
17	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
18	INLET CONDITIONS				
19	<input checked="" type="radio"/> PRESSURE (BAR-A)				
20	<input checked="" type="radio"/> TEMPERATURE (°C)				
21	<input type="radio"/> RELATIVE HUMIDITY %				
22	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
23	45.0	79,6 <1>	45.0	80,1 <1>	45.0
24	20.0	50.0	20 <1>	50.0	20.0
25	0.0	0.0	0.0	0.0	0.0
26	16.2	16.2	16.2	16.2	16.2
27	1.450	1.494	1,450 <1>	1,495 <1>	1.450
28	0.915	0.906	0,915 <1>	0.906	0.915
29	9000	5673 <1>	7645 <1>	<1>	8214
30	4977 <1>				
31	DISCHARGE CONDITIONS				
32	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>				
33	<input checked="" type="radio"/> TEMPERATURE (°C) <1>				
34	<input checked="" type="radio"/> Cp / Cv				
35	<input checked="" type="radio"/> COMPRESSIBILITY (Z₁)				
36	<input checked="" type="radio"/> INLET VOLUME (m³/h) (WET / DRY)				
37	<input checked="" type="radio"/> kw REQUIRED <1>				
38	<input type="checkbox"/> TRAIN kw REQUIRED				
39	<input checked="" type="radio"/> kw REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>				
40	<input checked="" type="radio"/> SPEED (RPM) <1>				
41	<input checked="" type="radio"/> TURNDOWN % <2>				
42	<input checked="" type="radio"/> POLYTROPIC HEAD (N-m/kg) <1>				
43	<input checked="" type="radio"/> POLYTROPIC EFFICIENCY (%) <1>				
44	<input type="radio"/> CERTIFIED POINT				
45	<input checked="" type="radio"/> PERFORMANCE CURVE NUMBER <1>				
46	PROCESS CONTROL (1-3.4.2.1)				
47	METHOD <input type="radio"/> SUCTION THROTTLING <input type="radio"/> VARIABLE INLET <input checked="" type="radio"/> SPEED VARIATION <input type="radio"/> DISCHARGE <input type="radio"/> COOLED BYPASS				
48	FROM _____ BAR (kPa abs) GUIDE VANES FROM 60 % BLOWOFF FROM _____				
49	TO _____ BAR (kPa abs) (2-2.4.1) TO 105 % TO _____ TO _____				
50	SIGNAL <input type="radio"/> SOURCE (1-3.4.2.1) _____				
51	TYPE <input checked="" type="radio"/> ELECTRONIC <input type="radio"/> PNEUMATIC <input type="radio"/> OTHER _____				
52	RANGE 4-20 mA _____ BAR (kPa abs) _____				
53	<input type="radio"/> ANTI-SURGE SYSTEM (1-3.4.2.2) _____				

47 **NOTES**

48 (*) Process value, add 75% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	6 / 7



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 7 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 OPERATING CONDITIONS

	7B_COMP1_PPF1	8B_COMP1_PPF1			
9	2BCL456/A				
10	1	2	1	2	
11					
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>		343814*		
15	WEIGHT FLOW (kg/h) (DRY) (WET) <1>		247936*		
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A)		45.0 83,9 <1> 45.0 84,2 <1>		
18	<input checked="" type="radio"/> TEMPERATURE (°C)		19,8 <1> 50.0 18,3 <1> 50.0		
19	<input type="radio"/> RELATIVE HUMIDITY %		0.0 0.0 0.0 0.0		
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)		16.2 16.2 16.2 16.2		
21	<input checked="" type="checkbox"/> Cp / Cv <1>		1.451 1.507 1.454 1.508		
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁) <1>		0.915 0.903 0.913 0.902		
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>		8124 4893 8102 4900		
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>		85.4 153.4 85.7 153.5		
26	<input checked="" type="checkbox"/> TEMPERATURE (°C)		77.5 108.4 76.1 108.2		
27	<input checked="" type="checkbox"/> Cp / Cv		1.440 1.478 1.444 1.479		
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂)		0,932 <1> 0.952 0,931 <1> 0.952		
29	<input checked="" type="checkbox"/> kW REQUIRED <1>		17832 17843		
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>		18188 18200		
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>		10151 10135		
33	<input checked="" type="checkbox"/> TURNDOWN % <2>				
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>		97635 100910 97390 100489		
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>		83 81.7 83 81.7		
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>		SOS0403362 (012000DMST12820)		

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 NOTES

48 (*) Process value, add 7% recycle

49 (**) process value, add 87% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 7 / 8
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 8 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1C_COMP1_PPF1	2C_COMP1_PPF1	3C_COMP1_PPF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	395218	513777	462367		
15	285005	370501	333428		
16	INLET CONDITIONS				
17	52.0	73.6	52.0	78,6 <1>	52.0
18	20.0	50.0	20.0	50.0	20.0
19	0.0	0.0	0.0	0.0	0.0
20	16.2	16.2	16.2	16.2	16.2
21	1.479	1.476	1.479	1.491	1.479
22	0.903	0.912	0.903	0.907	0.903
23	7461	5950 <1>	9699	7149	8728
24	DISCHARGE CONDITIONS				
25	75.1	94.0	80.1	104.9	83.3
26	52.1	75.7	58,4 <1>	81,9 <1>	61.5
27	1.475	1.462	1.472	1.469	1.473
28	0.913	0.926	0.916	0.928	0.917
29	9415		15109		15050
30					
31	9584		15356		15321
32	8062		9238		9150
33	SOS0403362 (012000DMST12820)				
34	52985	38815	63086	46052	69147
35	83.8	70.9	82.7	66.7	84.2
36					
37	SOS0403362 (012000DMST12820)				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	8 / 9

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 9 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

		4C_COMP1_PPF1	5C_COMP1_PPF1	6C_COMP1_PPF1			
		2BCL456/A					
		1	2	1	2	1	2
10	COMPRESSOR TYPE	2BCL456/A					
11	SECTION						
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)						
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)						
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	407074	197564*	371510**			
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	293555	142470*	267908**			
16	INLET CONDITIONS						
17	<input checked="" type="radio"/> PRESSURE (BAR-A)	52.0	86.3	52.0	85.9	52.0	89.4
18	<input checked="" type="radio"/> TEMPERATURE (°C)	20.0	50.0	21,4 <1>	50.0	22.0	50.0
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	0.0	0.0	0.0
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	16.2	16.2	16.2	16.2	16.2	16.2
21	<input checked="" type="checkbox"/> Cp / Cv	1.479	1.514	1,476 <1>	1.513	1,479 <1>	1,524 <1>
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)	0.903	0.901	0,904 <1>	0.901	0,903 <1>	0.898
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	7685	5203	7058	4778	7365	4801
24	DISCHARGE CONDITIONS						
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	87.8	137.9	87.4	137,9 <1>	91,1 <1>	150.0
26	<input checked="" type="checkbox"/> TEMPERATURE (°C)	66.4	94.4	67.9	94.9	70.3	99.0
27	<input checked="" type="checkbox"/> Cp / Cv	1.471	1.493	1,467 <1>	1.492	1,469 <1>	1,498 <1>
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.920	0.937	0.921	0.937	0.922	0.942
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	15202		14008		16033	
30	<input type="checkbox"/> TRAIN kW REQUIRED						
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	15506		14288		16354	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	9219		9089		9422	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)					
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	77473	76306	77374	77080	83553	84416
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83.9	82.7	83.1	82.8	83	82.6
36	<input type="radio"/> CERTIFIED POINT						
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 88% recycle

49 (**) Process value, add 5% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 9 / 10
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 10 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	7C_COMP1_PPF1		8C_COMP1_PPF1		
	1	2	1	2	
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343814*	197564**		
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	247936*	142470**		
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A)	52.0	90,2 <1>	52.0	
18	<input checked="" type="radio"/> TEMPERATURE (°C)	19,9 <1>	50.0	19,6 <1>	
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	16.2	16.2	16.2	
21	<input checked="" type="checkbox"/> Cp / Cv <1>	1.480	1.526	1.480	
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)	0,903 <1>	0.898	0,902 <1>	
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	7461	4832	7408	
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	91.7	151.9	91.8	
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	70.7	99.7	70.6	
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.470	1.499	1.470	
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.922	0.943	0.922	
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	16454		16384	
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	16783		16712	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	9483		9475	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)			
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	84543	85583	84602	
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83.1	82.6	83	
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)			

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 15% recycle

49 (**) Process value, add 99% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 10 / 11
REV	DESCRIZIONE - DESCRIPTION		



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 11 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1D_COMP1_PPF1		2D_COMP1_PPF1		3D_COMP1_PPF1	
	1	2	1	2	1	2
9	2BCL456/A					
10	COMPRESSOR TYPE					
11	SECTION					
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)					
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)					
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>					
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>					
16	INLET CONDITIONS					
17	<input checked="" type="radio"/> PRESSURE (BAR-A)					
18	<input checked="" type="radio"/> TEMPERATURE (°C)					
19	<input type="radio"/> RELATIVE HUMIDITY %					
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)					
21	<input checked="" type="checkbox"/> Cp / Cv					
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)					
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>					
24	DISCHARGE CONDITIONS					
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>					
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>					
27	<input checked="" type="checkbox"/> Cp / Cv <1>					
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>					
29	<input checked="" type="checkbox"/> kW REQUIRED <1>					
30	<input type="checkbox"/> TRAIN kW REQUIRED					
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>					
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>					
33	<input checked="" type="checkbox"/> TURNDOWN % <2>					
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>					
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>					
36	<input type="radio"/> CERTIFIED POINT					
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>					

17	58.0	77,9 <1>	58.0	83,8 <1>	58.0	86.5
18	20.0	50.0	20.0	50.0	20.0	50.0
19	0.0	0.0	0.0	0.0	0.0	0.0
20	16.2	16.2	16.2	16.2	16.2	16.2
21	1.506	1,489 <1>	1.506	1,507 <1>	1.506	1.515
22	0.893	0.908	0.893	0.903	0.893	0.901
23	6614	5596	8598	6711	7738	5862

25	79.4	94.0	85.3	105.0	88.0	119.9
26	47.3	70.5	54.0	75.9	56.5	82.3
27	1.501	1.475	1.499	1.485	1.499	1.497
28	0.903	0.921	0.907	0.922	0.908	0.925
29	7730		12757		12941	
31	7885		13012		13200	
32	7369		8552		8471	

SOS0403362 (012000DMST12820)						
34	44414	29479	55359	35431	60017	52014
35	83.6	66.9	83.1	62.6	84.1	77.1
SOS0403362 (012000DMST12820)						

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	11 / 12



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 12 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	4D_COMP1_PPF1	5D_COMP1_PPF1	6D_COMP1_PPF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
15	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
16	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>				
17	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
18	INLET CONDITIONS				
19	<input checked="" type="radio"/> PRESSURE (BAR-A)				
20	<input checked="" type="radio"/> TEMPERATURE (°C)				
21	<input type="radio"/> RELATIVE HUMIDITY %				
22	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
23	58.0	91.2	58.0	90,8 <1>	58.0
24	20.0	50.0	22,7 <1>	50.0	20,2 <1>
25	0.0	0.0	0.0	0.0	0.0
26	16.2	16.2	16.2	16.2	16.2
27	1.506	1.529	1.497	1.527	1.505
28	0.893	0.897	0.896	0.897	0.893
29	6812	4901	6667	4762	6971
30	DISCHARGE CONDITIONS				
31	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>				
32	<input checked="" type="radio"/> TEMPERATURE (°C) <1>				
33	<input checked="" type="radio"/> Cp / Cv <1>				
34	<input checked="" type="radio"/> COMPRESSIBILITY (Z₁) <1>				
35	<input checked="" type="radio"/> INLET VOLUME (m³/h) (WET / DRY) <1>				
36	92.7	138.0	92.3	138.0	96.3
37	61.5	89.3	64.1	89.7	65.4
38	1.497	1.508	1.489	1.507	1.495
39	0.911	0.931	0.914	0.932	0.914
40	13406		13053		15144
41	13674		13314		15447
42	8609		8588		8931
43	SOS0403362 (012000DMST12820)				
44	68156	66577	68284	67421	74305
45	83.4	81.9	83.3	82.1	83.2
46	SOS0403362 (012000DMST12820)				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 99% recycle

49 (**) Process value, add 12% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	12 / 13

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 13 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

		7D_COMP1_PPF1	8D_COMP1_PPF1	1E_COMP1_PPF1	
		2BCL456/A			
		1	2	1	2
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343814*	197564**	395218	
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	247936*	142470**	285005	
16 INLET CONDITIONS					
17	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	58.0	95.4	58.0	95.3
18	<input checked="" type="radio"/> TEMPERATURE (°C)	20,3 <1>	50.0	20, 9 <1>	50.0
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	0.0
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	16.2	16.2	16.2	16.2
21	<input checked="" type="checkbox"/> Cp / Cv	1,505 <1>	1.541	1,503 <1>	1.541
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)	0.893	0.894	0,894 <1>	0.894
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	7030	4819	7008	4797
24 DISCHARGE CONDITIONS					
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <3> <1>	96.9	152.1	96.8	152.0
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	66.1	94.3	66.6	94.4
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.494	1.514	1.492	1.514
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.914	0.938	0.915	0.938
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	15496		15415	
30	<input type="checkbox"/> TRAIN kW REQUIRED			7808	
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	15806		15723	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	8989		8986	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)			
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	75315	75639	75315	75747
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83.2	82.1	83.2	82.1
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)			

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 <3> (*) Process value, add 22% recycle

49 <3> (**) Process value, add 111% recycle

50 _____

51 **(***) CASE TO BE CONSIDERED ONLY WITH THROTTLING VALVE WHICH IS CURRENTLY AN OPTION in GE CONTRACT**

52 _____

53 _____

3	REVISED WHERE SHOWN <3>		
2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	13 / 14

NUOVO PIGNONE

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CENTRIFUGAL COMPRESSOR
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SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 14 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

9		2E_COMP1_PPF1					
10	COMPRESSOR TYPE	2BCL456/A					
11	SECTION	1	2				
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)						
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)						
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343814*					
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	247936*					
16	INLET CONDITIONS						
17	<input checked="" type="radio"/> PRESSURE (BAR-A)	63.0	99,7 <1>				
18	<input checked="" type="radio"/> TEMPERATURE (°C)	20,8 <1>	50.0				
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0				
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	16.2	16.2				
21	<input checked="" type="checkbox"/> Cp / Cv	1,528 <1>	1.554				
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₁)	0,886 <1>	0.891				
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	6692	4779				
24	DISCHARGE CONDITIONS						
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	101.2	152.1				
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	62.9	89.9				
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.514	1.528				
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₂)	0.908	0.933				
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	14580					
30	<input type="checkbox"/> TRAIN kW REQUIRED						
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	14872					
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	8616					
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)					
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	68774	67774				
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83.2	82.1				
36	<input type="radio"/> CERTIFIED POINT						
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 27% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 14 / 15
REV	DESCRIZIONE - DESCRIPTION		

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SOSTITUISCE IL - REPLACES
 SOSTITUITO DA - REPLACED BY

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 15 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1A_COMP2_PPF1	2A_COMP2_PPF1	3A_COMP2_PPF1			
9	2BCL456/A					
10	COMPRESSOR TYPE					
11	SECTION					
12	1	2	1	2	1	2
13	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)					
14	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)					
15	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>					
16	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>					
17	INLET CONDITIONS					
18	<input checked="" type="radio"/> PRESSURE (BAR-A)					
19	<input checked="" type="radio"/> TEMPERATURE (°C)					
20	<input type="radio"/> RELATIVE HUMIDITY %					
21	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)					
22	42.0	65.5	42.0	69.4	42.0	72.2
23	20.0	50.0	20.0	50.0	20.0	50.0
24	0.0	0.0	0.0	0.0	0.0	0.0
25	17.5	17.5	17.5	17.5	17.5	17.5
26	1.437	1.451	1.437	1.463	1.437	1.472
27	0.909	0.908	0.909	0.903	0.909	0.900
28	9305	6655	12096	8121	10885	7020
29	DISCHARGE CONDITIONS					
30	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>					
31	<input checked="" type="radio"/> TEMPERATURE (°C)					
32	<input checked="" type="radio"/> Cp / Cv					
33	<input checked="" type="radio"/> COMPRESSIBILITY (Z ₁)					
34	<input checked="" type="radio"/> INLET VOLUME (m³/h) (WET / DRY) <1>					
35	67.0	94.1	70.9	105.1	73.7	120.1
36	59.9	85.6	66,1 <1>	93.2	68.5	98,3 <1>
37	1.431	1.436	1.427	1.439	1.429	1,453 <1>
38	0.917	0.925	0.920	0.928	0.920	0.930
39	<input checked="" type="radio"/> kW REQUIRED <1>					
40	12782		19957		19191	
41	<input type="checkbox"/> TRAIN kW REQUIRED					
42	<input checked="" type="radio"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>					
43	<input checked="" type="radio"/> SPEED (RPM) <1>					
44	<input checked="" type="radio"/> TURNDOWN % <2>					
45	SOS0403362 (012000DMST12820)					
46	63488	53682	71804	62243	77482	76678
47	83.4	74.5	80.7	69.9	83.2	79.1
48	<input type="radio"/> CERTIFIED POINT					
49	<input checked="" type="radio"/> PERFORMANCE CURVE NUMBER <1>					
50	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	15 / 16



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 16 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 OPERATING CONDITIONS

	4A_COMP2_PPF1	5A_COMP2_PPF1	6A_COMP2_PPF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41) <input type="radio"/> GAS PROPERTIES (1-2.1.1.4)				
15	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1> <input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
16	INLET CONDITIONS				
17	42.0	76.5	42.0	76,9 <1>	42.0
18	20.0	50.0	18,7 <1>	50.0	20.0
19	0.0	0.0	0.0	0.0	0.0
20	17.5	17.5	17.5	17.5	17.5
21	1.437	1.486	1,440 <1>	1,487 <1>	1.437
22	0.909	0.896	0.908	0.895	0.909
23	9584	5835	7626	4669	8746
24	DISCHARGE CONDITIONS				
25	78.0	138.1	78.4	137.9	81.2
26	73.0	104.5	72.7	104.3	76.9
27	1.430	1.464	1.431	1.464	1.428
28	0.921	0.936	0.921	0.935	0.923
29	18720		15179		18497
30	19094		15483		18867
31	9966		9544		9998
32	SOS0403362 (012000DMST12820)				
33	85838	89819	86259	88740	92035
34	84.5	82.8	82.9	81.9	84
35	SOS0403362 (012000DMST12820)				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 NOTES

48 (*) Process value, add 65% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	16 / 17

NUOVO PIGNONE

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OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 17 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR <u>STOGIT</u>	UNIT ONE (1) X 100%
3	SITE <u>SETTALA - ITALY</u>	SERIAL NO. <u>C14082</u>
4	SERVICE <u>GAS STORAGE <1></u>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER <u>NUOVO PIGNONE</u>	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL <u>2BCL456/A</u>	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	7A_COMP2_PPF1		8A_COMP2_PPF1		
	1	2	1	2	
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343796*	197553**		
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	268067*	154037**		
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	42.0	80.5	42.0	
18	<input checked="" type="radio"/> TEMPERATURE (°C) <1>	19.9	50.0	16.7	
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	17.5	17.5	17.5	
21	<input checked="" type="checkbox"/> Cp / Cv <1>	1.437	1.499	1.444	
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁) <1>	0.909	0.891	0.905	
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	8172	4737	8106	
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	82.0	152.1	82.4	
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	78.1	109.7	75.1	
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.427	1.470	1.435	
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.924	0.942	0.920	
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	17705		17681	
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	18059		18035	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	9950		9910	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)			
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	93585	97508	93026	
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83.2	81.4	83	
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)			

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM 60 % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO 105 % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE 4-20 mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 1% recycle

49 (**) Process value, add 77% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 17 / 18
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

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OIL & GAS

**CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS**

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 18 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

OPERATING CONDITIONS

	1B_COMP2_PPF1	2B_COMP2_PPF1	3B_COMP2_PPF1			
9	2BCL456/A					
10	COMPRESSOR TYPE					
11	SECTION					
12	1	2	1	2	1	2
13	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)					
14	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)					
15	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>					
16	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>					
17	INLET CONDITIONS					
18	<input checked="" type="radio"/> PRESSURE (BAR-A)					
19	<input checked="" type="radio"/> TEMPERATURE (°C)					
20	<input type="radio"/> RELATIVE HUMIDITY %					
21	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)					
22	45.0	68,1 <1>	45.0	72,4 <1>	45.0	75.3
23	20.0	50.0	20.0	50.0	20.0	50.0
24	0.0	0.0	0.0	0.0	0.0	0.0
25	17.5	17.5	17.5	17.5	17.5	17.5
26	1.450	1.459	1.450	1.473	1.450	1.482
27	0.903	0,905 <1>	0.903	0.900	0.903	0.897
28	8625	6378	11213	7745	10091	6705
29	DISCHARGE CONDITIONS					
30	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>					
31	<input checked="" type="radio"/> TEMPERATURE (°C) <1>					
32	<input checked="" type="radio"/> Cp / Cv <1>					
33	<input checked="" type="radio"/> COMPRESSIBILITY (Z ₁) <1>					
34	<input checked="" type="radio"/> INLET VOLUME (m³/h) (WET / DRY) <1>					
35	<input checked="" type="radio"/> kW REQUIRED <1>					
36	<input type="checkbox"/> TRAIN kW REQUIRED					
37	<input checked="" type="radio"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>					
38	<input checked="" type="radio"/> SPEED (RPM) <1>					
39	<input checked="" type="radio"/> TURNDOWN % <2>					
40	<input checked="" type="radio"/> POLYTROPIC HEAD (N-m/kg) <1>					
41	<input checked="" type="radio"/> POLYTROPIC EFFICIENCY (%) <1>					
42	<input type="radio"/> CERTIFIED POINT					
43	<input checked="" type="radio"/> PERFORMANCE CURVE NUMBER <1>					
44	SOS0403362 (012000DMST12820)					
45	58663	47248	67450	54976	72932	69637
46	83.6	73.3	81.5	68.6	83.6	78.8
47	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

NOTES

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	18 / 19



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 19 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 OPERATING CONDITIONS

	4B_COMP2_PPF1		5B_COMP2_PPF1		6B_COMP2_PPF1		
	1	2	1	2	1	2	
9	2BCL456/A						
10	COMPRESSOR TYPE						
11	SECTION						
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)						
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)						
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	407054	197553*	371489			
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	317390	154037*	289660			
16	INLET CONDITIONS						
17	<input checked="" type="radio"/> PRESSURE (BAR-A)	45.0	79.6	45.0	79,7 <1>	45.0 82.8	
18	<input checked="" type="radio"/> TEMPERATURE (°C)	20.0	50.0	19,2 <1>	50.0	20.0 50.0	
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	0.0	0.0 0.0	
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	17.5	17.5	17.5	17.5	17.5 17.5	
21	<input checked="" type="checkbox"/> Cp / Cv	1.450	1.496	1,452 <1>	1.496	1.450 1.507	
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)	0.903	0.892	0,902 <1>	0.892	0.903 0.889	
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	8884	5586	7258	4593	8108 4902	
24	DISCHARGE CONDITIONS						
25	<input checked="" type="radio"/> PRESSURE (BAR-A)	81.1	138.0	81,2 <1>	138,0 <1>	84.3 150.0	
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	70.4	100.6	70.4	100.7	74.3 104.9	
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.443	1.474	1.444	1.474	1.442 1.479	
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.916	0.932	0.916	0.932	0.918 0.937	
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	17449		14506		17350	
30	<input type="checkbox"/> TRAIN kW REQUIRED						
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	17798		14796		17697	
32	<input checked="" type="checkbox"/> SPEED (RPM)	9598		9248		9659	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)					
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	80895	82817	80993	82592	86818 89927	
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	84.4	82.8	82.8	82.2	83.6 82.3	
36	<input type="radio"/> CERTIFIED POINT						
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 NOTES

48 (*) Process value, add 69% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 19 / 20
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 20 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	7B_COMP2_PPF1	8B_COMP2_PPF1			
9	2BCL456/A				
10	1	2	1	2	
11					
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>		343796*	197553**	
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>		268067*	154037**	
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>		45.0	83.5	45.0
18	<input checked="" type="radio"/> TEMPERATURE (°C) <1>		19.8	50.0	17.3
19	<input type="radio"/> RELATIVE HUMIDITY %		0.0	0.0	0.0
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)		17.5	17.5	17.5
21	<input checked="" type="checkbox"/> Cp / Cv <1>		1.450	1.509	1.457
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁) <1>		0.903	0.888	0.900
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>		7795	4681	7745
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>		85.0	152.1	85.3
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>		75.0	105.8	72.7
27	<input checked="" type="checkbox"/> Cp / Cv <1>		1.441	1.480	1.448
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>		0.919	0.938	0.916
29	<input checked="" type="checkbox"/> kW REQUIRED <1>		17031		17014
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>		17372		17354
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>		9651		9621
33	<input checked="" type="checkbox"/> TURNDOWN % <2>		SOS0403362 (012000DMST12820)		
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>		88034	90986	87622
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>		83.1	81.8	83
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>		SOS0403362 (012000DMST12820)		

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 4% recycle

49 (**) Process value, add 82% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 20 / 21
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 21 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1C_COMP2_FF1	2C_COMP2_FF1	3C_COMP2_FF1			
9	2BCL456/A					
10	COMPRESSOR TYPE					
11	SECTION					
12	1	2	1	2	1	2
13	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)					
14	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)					
15	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>					
16	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>					
17	INLET CONDITIONS					
18	<input checked="" type="radio"/> PRESSURE (BAR-A)					
19	<input checked="" type="radio"/> TEMPERATURE (°C)					
20	<input type="radio"/> RELATIVE HUMIDITY %					
21	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)					
22	52.0	73.9	52.0	79.1	52.0	82.0
23	20.0	50.0	20.0	50.0	20.0	50.0
24	0.0	0.0	0.0	0.0	0.0	0.0
25	17.5	17.5	17.5	17.5	17.5	17.5
26	1.482	1,477 <1>	1.482	1.494	1.482	1.504
27	0.889	0.898	0.889	0.893	0.889	0.890
28	7348	5838	9552	7040	8596	6110
29	DISCHARGE CONDITIONS					
30	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>					
31	<input checked="" type="radio"/> TEMPERATURE (°C) <1>					
32	<input checked="" type="radio"/> Cp / Cv <1>					
33	<input checked="" type="radio"/> COMPRESSIBILITY (Z ₁)					
34	<input checked="" type="radio"/> INLET VOLUME (m³/h) (WET / DRY) <1>					
35	75.4	93.9	80.6	105.1	83.5	120.0
36	51.4	74.7	57.7	80.8	60.3	86.2
37	1.478	1.463	1.475	1.471	1.476	1.485
38	0.898	0.913	0.902	0.915	0.903	0.917
39	9318		15017		14823	
40	9504		15317		15119	
41	7778		8931		8808	
42	SOS0403362 (012000DMST12820)					
43	48680	34657	58065	41355	63125	55702
44	83.7	69.2	82.4	65	84	77.5
45	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	21 / 22



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 22 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 OPERATING CONDITIONS

	4C_COMP2_PF1	5C_COMP2_PF1	6C_COMP2_PF1			
9	2BCL456/A					
10	COMPRESSOR TYPE					
11	SECTION					
12	1	2	1	2	1	2
13	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)					
14	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)					
15	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>					
16	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>					
17	INLET CONDITIONS					
18	<input checked="" type="radio"/> PRESSURE (BAR-A)					
19	<input checked="" type="radio"/> TEMPERATURE (°C)					
20	<input type="radio"/> RELATIVE HUMIDITY %					
21	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)					
22	<input checked="" type="checkbox"/> Cp / Cv	<1>	52.0	86.4	52.0	86,1 <1>
23	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)	<1>	20.0	50.0	20,5 <1>	50.0
24	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY)	<1>	0.0	0.0	0.0	0.0
25	DISCHARGE CONDITIONS					
26	<input checked="" type="radio"/> PRESSURE (BAR-A)	<1>	17.5	17.5	17.5	17.5
27	<input checked="" type="checkbox"/> TEMPERATURE (°C)	<1>	1.482	1.518	1.481	1.517
28	<input checked="" type="checkbox"/> Cp / Cv	<1>	0.889	0.886	0.890	0.886
29	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂)	<1>	7568	5107	6739	4565
30	<input checked="" type="checkbox"/> kW REQUIRED	<1>				
31	<input type="checkbox"/> TRAIN kW REQUIRED	<1>	87.9	138.0	87.6	138.0
32	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC)	<1>	64.9	92.8	65.5	93.1
33	<input checked="" type="checkbox"/> SPEED (RPM)	<1>	1.475	1.496	1.472	1.495
34	<input checked="" type="checkbox"/> TURNDOWN %	<2>	0.905	0.923	0.906	0.923
35	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg)	<1>				
36	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%)	<1>	14917		13361	15381
37	<input type="radio"/> CERTIFIED POINT					
38	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER	<1>	15215		13628	15689
39	PROCESS CONTROL (1-3.4.2.1)					
40	METHOD <input type="radio"/> SUCTION THROTTLING <input type="radio"/> VARIABLE INLET <input checked="" type="radio"/> SPEED VARIATION <input type="radio"/> DISCHARGE <input type="radio"/> COOLED BYPASS					
41	FROM _____ BAR (kPa abs) GUIDE VANES FROM 60 % BLOWOFF FROM _____					
42	TO _____ BAR (kPa abs) (2-2.4.1) TO 105 % TO _____ TO _____					
43	SIGNAL <input type="radio"/> SOURCE (1-3.4.2.1) _____					
44	TYPE <input checked="" type="radio"/> ELECTRONIC <input type="radio"/> PNEUMATIC <input type="radio"/> OTHER _____					
45	RANGE 4-20 mA _____ BAR (kPa abs) _____					
46	<input type="radio"/> ANTI-SURGE SYSTEM (1-3.4.2.2) _____					

47 NOTES

48 (*) Process value, add 83% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	22 / 23

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 23 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	7C_COMP2_PPF1		8C_COMP2_PPF1	
	1	2	1	2
9	2BCL456/A			
10	COMPRESSOR TYPE			
11	SECTION			
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)			
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)			
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343796*	197553**	
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	268067*	154037**	
16	INLET CONDITIONS			
17	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	52.0	90.2	52.0
18	<input checked="" type="radio"/> TEMPERATURE (°C) <1>	19.7	50.0	18.7
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	17.5	17.5	17.5
21	<input checked="" type="checkbox"/> Cp / Cv <1>	1.483	1.531	1.487
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁) <1>	0.889	0.882	0.887
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	7086	4583	7113
24	DISCHARGE CONDITIONS			
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	91.7	151.9	92.0
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	68.9	97.7	67.9
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.474	1.502	1.477
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.907	0.929	0.906
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	15580		15688
30	<input type="checkbox"/> TRAIN kW REQUIRED			
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	15892		16002
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	9022		9022
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)		
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	76747	77571	76678
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83	82.5	83
36	<input type="radio"/> CERTIFIED POINT			
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)		

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 11% recycle

49 (**) Process value, add 95% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 23 / 24
REV	DESCRIZIONE - DESCRIPTION		



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 24 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1D_COMP2_PF1		2D_COMP2_PF1		3D_COMP2_PF1		
	1	2	1	2	1	2	
9	2BCL456/A						
10	COMPRESSOR TYPE						
11	SECTION						
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)						
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)						
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	395202	513753	462347			
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	308149	400586	360504			
16	INLET CONDITIONS						
17	<input checked="" type="radio"/> PRESSURE (BAR-A)	58.0	78,3 <1>	58.0	84,1 <1>	58.0 87.2	
18	<input checked="" type="radio"/> TEMPERATURE (°C)	20.0	50.0	20.0	50.0	20.0 50.0	
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	0.0	0.0 0.0	
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	17.5	17.5	17.5	17.5	17.5 17.5	
21	<input checked="" type="checkbox"/> Cp / Cv	1.512	1.492	1.512	1.511	1.512 1.521	
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)	0.877	0.894	0.877	0.888	0.877 0.885	
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	6501	5473	8451	6581	7606 5712	
24	DISCHARGE CONDITIONS						
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	79.8	93.9	85.6	104.9	88.7 120.1	
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	46.9	69.6	53.2	75.0	56.0 80.6	
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.507	1.477	1.505	1.487	1.505 1.502	
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.888	0.907	0.891	0.908	0.892 0.910	
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	7680		12666		12759	
30	<input type="checkbox"/> TRAIN kW REQUIRED						
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	7834		12919		13014	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	7123		8245		8183	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)					
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	41100	25831	50583	31783	55545 46199	
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83.6	64.3	82.8	61	84.1 76.3	
36	<input type="radio"/> CERTIFIED POINT						
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 24 / 25
REV	DESCRIZIONE - DESCRIPTION		



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 25 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	4D_COMP2_PPF1	5D_COMP2_PPF1	6D_COMP2_PPF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
14	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
15	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>				
16	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
17	INLET CONDITIONS				
18	<input checked="" type="radio"/> PRESSURE (BAR-A)				
19	<input checked="" type="radio"/> TEMPERATURE (°C)				
20	<input type="radio"/> RELATIVE HUMIDITY %				
21	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
22	58.0	91.7	58.0	91.2	58.0
23	20.0	50.0	22.4	50.0	22.2
24	0.0	0.0	0.0	0.0	0.0
25	17.5	17.5	17.5	17.5	17.5
26	1.512	1.536	1.503	1.534	1.504
27	0.877	0.881	0.881	0.881	0.881
28	6696	4747	6100	4538	6429
29	DISCHARGE CONDITIONS				
30	<input checked="" type="radio"/> PRESSURE (BAR-A)				
31	<input checked="" type="radio"/> TEMPERATURE (°C)				
32	<input checked="" type="radio"/> Cp / Cv				
33	<input checked="" type="radio"/> COMPRESSIBILITY (Z ₁)				
34	<input checked="" type="radio"/> INLET VOLUME (m³/h) (WET / DRY)				
35	93.2	138.0	92.7	138.0	96.3
36	60.5	87.3	62.8	87.7	65.9
37	1.503	1.513	1.494	1.512	1.494
38	0.895	0.916	0.899	0.916	0.901
39	13087		12518		14411
40	SOS0403362 (012000DMST12820)				
41	8275	8222	8552		
42	SOS0403362 (012000DMST12820)				
43	62566	59605	62537	60478	68048
44	83.7	82	83.4	82.3	83.4
45	SOS0403362 (012000DMST12820)				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 94% recycle

49 (**) Process value, add 10% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	25 / 26

NUOVO PIGNONE

FIRENZE



OIL & GAS

**CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS**

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 26 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	7D_COMP2_PF1	8D_COMP2_PF1	1E_COMP2_PF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
15	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
16	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>				
17	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
18	INLET CONDITIONS				
19	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>				
20	<input checked="" type="radio"/> TEMPERATURE (°C) <1>				
21	<input type="radio"/> RELATIVE HUMIDITY %				
22	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
23	<input checked="" type="checkbox"/> Cp / Cv <1>				
24	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₁) <1>				
25	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>				
26	DISCHARGE CONDITIONS				
27	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>				
28	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>				
29	<input checked="" type="checkbox"/> Cp / Cv <1>				
30	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₂) <1>				
31	<input checked="" type="checkbox"/> kW REQUIRED <1>				
32	<input type="checkbox"/> TRAIN kW REQUIRED				
33	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>				
34	<input checked="" type="checkbox"/> SPEED (RPM) <1>				
35	<input checked="" type="checkbox"/> TURNDOWN % <2>				
36	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>				
37	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>				
38	<input type="radio"/> CERTIFIED POINT				
39	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 19% recycle

49 (**) Process value, add 105% recycle

50 _____

51 (***) CASE TO BE CONSIDERED ONLY WITH THROTTLING VALVE WHICH IS CURRENTLY AN OPTION in GE CONTRACT

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 26 / 27
REV	DESCRIZIONE - DESCRIPTION		



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 27 OF 46 BY _____

1 APPLICABLE TO: PROPOSAL PURCHASE AS BUILT ENQUIRY NO. _____
2 FOR STOGIT UNIT ONE (1) X 100%
3 SITE SETTALA - ITALY SERIAL NO. C14082
4 SERVICE GAS STORAGE <1> NO. DUTY / STANDBY ONE (1)
5 MANUFACTURER NUOVO PIGNONE DRIVER TYPE (1-3.1.1) PGT25
6 MODEL 2BCL456/A DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

9		2E_COMP2_PFI					
10	COMPRESSOR TYPE	2BCL456/A					
11	SECTION	1	2				
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)						
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)						
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343796*					
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	268067*					
16	INLET CONDITIONS						
17	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	63.0	100.2				
18	<input checked="" type="radio"/> TEMPERATURE (°C) <1>	20.4	50.0				
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0				
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	17.5	17.5				
21	<input checked="" type="checkbox"/> Cp / Cv <1>	1.536	1.563				
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁) <1>	0.869	0.874				
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	6401	4555				
24	DISCHARGE CONDITIONS						
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	101.7	152.1				
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	61.5	87.7				
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.523	1.534				
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.891	0.917				
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	13866					
30	<input type="checkbox"/> TRAIN kW REQUIRED						
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	14143					
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	8229					
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)					
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	62841	60644				
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83.2	82.7				
36	<input type="radio"/> CERTIFIED POINT						
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM 60 % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO 105 % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE 4-20 mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 24% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 27 / 28
REV	DESCRIZIONE - DESCRIPTION	SOSTITUISCE IL - REPLACES SOSTITUITO DA - REPLACED BY	



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 28 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

		1A_COMP3_PPF1	2A_COMP3_PPF1	3A_COMP3_PPF1			
9		2BCL456/A					
10	COMPRESSOR TYPE						
11	SECTION	1	2	1	2	1	
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)						
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)						
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	395175	513722	462321			
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	342281	444960	400439			
16	INLET CONDITIONS						
17	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	42.0	65.8	42.0	69.5	42.0	
18	<input checked="" type="radio"/> TEMPERATURE (°C)	20.0	50.0	20.0	50.0	20.0	
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	0.0	0.0	
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	19.4	19.4	19.4	19.4	19.4	
21	<input checked="" type="checkbox"/> Cp / Cv	1.435	1.449	1.435	1.462 <1>	1.435	
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₁)	0.897	0.895	0.897	0.890	0.897	
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	9178	6534	11932	7979	10738	
24	DISCHARGE CONDITIONS						
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	67.3	94.0	71.0	104.9	73.7	
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	58.7	84.1	65.1	91.9	66.7	
27	<input checked="" type="checkbox"/> Cp / Cv	1.430	1.434	1.425	1.436	1.429	
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₂)	0.904	0.913	0.908	0.917	0.907	
29	<input checked="" type="checkbox"/> kw REQUIRED <1>	12727		20177		19033	
30	<input type="checkbox"/> TRAIN kw REQUIRED						
31	<input checked="" type="checkbox"/> kw REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	12981		20580		19414	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	8674		9960		9628	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)					
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	56712	46974	63979	54701	68647	
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83	72.8	79	67.4	82.6	
36	<input type="radio"/> CERTIFIED POINT						
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 28 / 29
REV	DESCRIZIONE - DESCRIPTION		



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 29 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	4A_COMP3_FF1	5A_COMP3_FF1	6A_COMP3_FF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
15	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
16	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>				
17	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
18	INLET CONDITIONS				
19	<input checked="" type="radio"/> PRESSURE (BAR-A)				
20	<input checked="" type="radio"/> TEMPERATURE (°C)				
21	<input type="radio"/> RELATIVE HUMIDITY %				
22	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
23	42.0	76.4	42.0	77 <1>	42.0
24	20.0	50.0	18 <1>	50.0	20.0
25	0.0	0.0	0.0	0.0	0.0
26	19.4	19.4	19.4	19.4	19.4
27	1.435	1.486	1,440 <1>	1,488 <1>	1.435
28	0.897	0.882	0,894 <1>	0,881 <1>	0.897
29	9454	5748	7179	4395	8628
30	DISCHARGE CONDITIONS				
31	<input checked="" type="radio"/> PRESSURE (BAR-A)				
32	<input checked="" type="radio"/> TEMPERATURE (°C) <1>				
33	<input checked="" type="radio"/> Cp / Cv <1>				
34	<input checked="" type="radio"/> COMPRESSIBILITY (Z₁)				
35	<input checked="" type="radio"/> INLET VOLUME (m³/h) (WET / DRY) <1>				
36	77.9	138.0	78,5 <1>	138.0	81.1
37	70.7	102.2	69.9	101.8	74.2
38	1.430	1.463	1.433	1.465	1.429
39	0.908	0.924	0,907 <1>	0,924 <1>	0.910
40	<input checked="" type="radio"/> kw REQUIRED <1>				
41	<input type="checkbox"/> TRAIN kw REQUIRED				
42	<input checked="" type="radio"/> kw REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>				
43	<input checked="" type="radio"/> SPEED (RPM) <1>				
44	<input checked="" type="radio"/> TURNDOWN % <2>				
45	<input checked="" type="radio"/> POLYTROPIC HEAD (N-m/kg) <1>				
46	<input checked="" type="radio"/> POLYTROPIC EFFICIENCY (%) <1>				
47	<input type="radio"/> CERTIFIED POINT				
48	<input checked="" type="radio"/> PERFORMANCE CURVE NUMBER <1>				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 58% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 29 / 30
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

**CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS**

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 30 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	7A_COMP3_PPF1		8A_COMP3_PPF1		
	1	2	1	2	
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343778	197542*		
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	297763	171101*		
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A)	42.0	80.3	42.0	
18	<input checked="" type="radio"/> TEMPERATURE (°C)	20.0	50.0	16,1 <1>	
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	19.4	19.4	19.4	
21	<input checked="" type="checkbox"/> Cp / Cv <1>	1.435	1.500	1.446	
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁) <1>	0.897	0.877	0.892	
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	7984	4623	7695	
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	81.8	151.8	82.5	
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	75.3	106.7	72.0	
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.428	1.469	1.438	
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.911	0.931	0.906	
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	17090		16706	
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	17432		17040	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	9391		9315	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)			
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	82425	86249	82052	
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83.6	81.8	83	
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)			

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 71% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 30 / 31
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

**CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS**

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 31 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1B_COMP3_PPF1	2B_COMP3_PPF1	3B_COMP3_PPF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
15	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
16	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>				
17	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
18	INLET CONDITIONS				
19	<input checked="" type="radio"/> PRESSURE (BAR-A)				
20	<input checked="" type="radio"/> TEMPERATURE (°C)				
21	<input type="radio"/> RELATIVE HUMIDITY %				
22	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
23	45.0	68.5	45.0	72,8 <1>	45.0
24	20.0	50.0	20.0	50.0	20.0
25	0.0	0.0	0.0	0.0	0.0
26	19.4	19.4	19.4	19.4	19.4
27	1.450	1,458 <1>	1.450	1.474	1.450
28	0.890	0.891	0.890	0.886	0.890
29	8499	6272	11049	7612	9943
30	<input checked="" type="radio"/> Cp / Cv				
31	<input checked="" type="radio"/> COMPRESSIBILITY (Z₁)				
32	<input checked="" type="radio"/> INLET VOLUME (m³/h) (WET / DRY) <1>				
33	DISCHARGE CONDITIONS				
34	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>				
35	<input checked="" type="radio"/> TEMPERATURE (°C)				
36	<input checked="" type="radio"/> Cp / Cv				
37	<input checked="" type="radio"/> COMPRESSIBILITY (Z₂)				
38	<input checked="" type="radio"/> kW REQUIRED				
39	<input type="checkbox"/> TRAIN kW REQUIRED				
40	<input checked="" type="radio"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>				
41	<input checked="" type="radio"/> SPEED (RPM) <1>				
42	<input checked="" type="radio"/> TURNDOWN % <2>				
43	<input checked="" type="radio"/> POLYTROPIC HEAD (N-m/kg) <1>				
44	<input checked="" type="radio"/> POLYTROPIC EFFICIENCY (%) <1>				
45	<input type="radio"/> CERTIFIED POINT				
46	<input checked="" type="radio"/> PERFORMANCE CURVE NUMBER <1>				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	31 / 32

NUOVO PIGNONE

FIRENZE



OIL & GAS

**CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS**

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 32 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR <u>STOGIT</u>	UNIT ONE (1) X 100%
3	SITE <u>SETTALA - ITALY</u>	SERIAL NO. <u>C14082</u>
4	SERVICE <u>GAS STORAGE <1></u>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER <u>NUOVO PIGNONE</u>	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL <u>2BCL456/A</u>	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	4B_COMP3_PF1	5B_COMP3_PF1	6B_COMP3_PF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	12 <input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
15	13 <input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
16	14 <input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>				
17	15 <input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
18	INLET CONDITIONS				
19	17 <input checked="" type="radio"/> PRESSURE (BAR-A)				
20	18 <input checked="" type="radio"/> TEMPERATURE (°C)				
21	19 <input type="radio"/> RELATIVE HUMIDITY %				
22	20 <input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
23	21 <input checked="" type="checkbox"/> Cp / Cv				
24	22 <input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)				
25	23 <input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>				
26	DISCHARGE CONDITIONS				
27	25 <input checked="" type="radio"/> PRESSURE (BAR-A)				
28	26 <input checked="" type="checkbox"/> TEMPERATURE (°C) <1>				
29	27 <input checked="" type="checkbox"/> Cp / Cv <1>				
30	28 <input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>				
31	29 <input checked="" type="checkbox"/> kW REQUIRED <1>				
32	30 <input type="checkbox"/> TRAIN kW REQUIRED				
33	31 <input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>				
34	32 <input checked="" type="checkbox"/> SPEED (RPM) <1>				
35	33 <input checked="" type="checkbox"/> TURNDOWN % <2>				
36	34 <input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>				
37	35 <input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>				
38	36 <input type="radio"/> CERTIFIED POINT				
39	37 <input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>				
40	PROCESS CONTROL (1-3.4.2.1)				
41	39 METHOD <input type="radio"/> SUCTION THROTTLING <input type="radio"/> VARIABLE INLET <input checked="" type="radio"/> SPEED VARIATION <input type="radio"/> DISCHARGE <input type="radio"/> COOLED BYPASS				
42	40 FROM _____ BAR (kPa abs) GUIDE VANES FROM <u>60</u> % BLOWOFF FROM _____				
43	41 TO _____ BAR (kPa abs) (2-2.4.1) TO <u>105</u> % TO _____ TO _____				
44	42 SIGNAL <input type="radio"/> SOURCE (1-3.4.2.1) _____				
45	43 TYPE <input checked="" type="radio"/> ELECTRONIC <input type="radio"/> PNEUMATIC <input type="radio"/> OTHER _____				
46	44 RANGE <u>4-20</u> mA _____ BAR (kPa abs) _____				
47	45 <input type="radio"/> ANTI-SURGE SYSTEM (1-3.4.2.2) _____				

47 **NOTES**

48 (*) Process value, add 62% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 32 / 33
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

**CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS**

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 33 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	7B_COMP3_PPF1		8B_COMP3_PPF1		
	1	2	1	2	
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343778	197542*		
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	297763	171101*		
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A)	45.0	83.4	45.0	
18	<input checked="" type="radio"/> TEMPERATURE (°C)	20.0	50.0	16,7 <1>	
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	19.4	19.4	19.4	
21	<input checked="" type="checkbox"/> Cp / Cv	1.450	1.511	1,460 <1>	
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁) <1>	0.890	0.874	0.885	
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	7394	4459	7310	
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	85.0	152.0	85.4	
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	73.0	103.1	69.9	
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.442	1.480	1.452	
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>	0.905	0.926	0.901	
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	16106		16050	
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	16428		16371	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	9080		9036	
33	<input checked="" type="checkbox"/> TURNDOWN % <2>	SOS0403362 (012000DMST12820)			
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	77796	80395	77286	
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	83	81.9	82.7	
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)			

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 75% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 33 / 34
REV	DESCRIZIONE - DESCRIPTION		



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 34 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR <u>STOIT</u>	UNIT <u>ONE (1) X 100%</u>
3	SITE <u>SETTALA - ITALY</u>	SERIAL NO. <u>C14082</u>
4	SERVICE <u>GAS STORAGE <1></u>	NO. DUTY / STANDBY <u>ONE (1)</u>
5	MANUFACTURER <u>NUOVO PIGNONE</u>	DRIVER TYPE (1-3.1.1) <u>PGT25</u>
6	MODEL <u>2BCL456/A</u>	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1C_COMP3_PPF1	2C_COMP3_PPF1	3C_COMP3_PPF1			
9	2BCL456/A					
10	COMPRESSOR TYPE					
11	SECTION					
12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	GAS HANDLED (ALSO SEE PAGE 41)					
14	GAS PROPERTIES (1-2.1.1.4)					
15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16	VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>					
17	WEIGHT FLOW (kg/h) (DRY) (WET) <1>					
18	INLET CONDITIONS					
19	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	PRESSURE (BAR-A)					
21	TEMPERATURE (°C)					
22	RELATIVE HUMIDITY %					
23	MOLECULAR WEIGHT (%)					
24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	Cp / Cv					
26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	COMPRESSIBILITY (Z ₁)					
28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	INLET VOLUME (m³/h) (WET / DRY) <1>					
30	DISCHARGE CONDITIONS					
31	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32	PRESSURE (BAR-A) <1>					
33	TEMPERATURE (°C) <1>					
34	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	Cp / Cv					
36	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37	COMPRESSIBILITY (Z ₂)					
38	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	kW REQUIRED <1>					
40	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41	TRAIN kW REQUIRED					
42	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43	kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>					
44	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45	SPEED (RPM) <1>					
46	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47	TURNDOWN % <2>					
48	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49	POLYTROPIC HEAD (N-m/kg) <1>					
50	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51	POLYTROPIC EFFICIENCY (%) <1>					
52	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
53	CERTIFIED POINT					
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PERFORMANCE CURVE NUMBER <1>					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM 60 % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO 105 % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE 4-20 mA _____ BAR (kPa abs)

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 _____

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	34 / 35



OIL & GAS

CENTRIFUGAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 35 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 OPERATING CONDITIONS

	4C_COMP3_PPF1	5C_COMP3_PPF1	6C_COMP3_PPF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41) <input type="radio"/> GAS PROPERTIES (1-2.1.1.4)				
15	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1> <input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A)				
18	<input checked="" type="radio"/> TEMPERATURE (°C)				
19	<input type="radio"/> RELATIVE HUMIDITY %				
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
21	<input checked="" type="checkbox"/> Cp / Cv				
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₁)				
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>				
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>				
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>				
27	<input checked="" type="checkbox"/> Cp / Cv <1>				
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₂) <1>				
29	<input checked="" type="checkbox"/> kW REQUIRED <1>				
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>				
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>				
33	<input checked="" type="checkbox"/> TURNDOWN % <2>				
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>				
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>				
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>				
38	PROCESS CONTROL (1-3.4.2.1)				
39	METHOD <input type="radio"/> SUCTION THROTTLING <input type="radio"/> VARIABLE INLET <input checked="" type="radio"/> SPEED VARIATION <input type="radio"/> DISCHARGE <input type="radio"/> COOLED BYPASS				
40	FROM _____ BAR (kPa abs) GUIDE VANES FROM 60 % BLOWOFF FROM _____				
41	TO _____ BAR (kPa abs) (2-2.4.1) TO 105 % TO _____ TO _____				
42	SIGNAL <input type="radio"/> SOURCE (1-3.4.2.1) _____				
43	TYPE <input checked="" type="radio"/> ELECTRONIC <input type="radio"/> PNEUMATIC <input type="radio"/> OTHER _____				
44	RANGE 4-20 mA _____ BAR (kPa abs) _____				
45	<input type="radio"/> ANTI-SURGE SYSTEM (1-3.4.2.2) _____				
46					
47	NOTES				
48	(*) Process value, add 75% recycle				
49					
50					
51					
52					
53					

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 **ANTI-SURGE SYSTEM (1-3.4.2.2)** _____

47	NOTES				
48	(*) Process value, add 75% recycle				
49					
50					
51					
52					
53					

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	35 / 36

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 36 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

		7C_COMP3_PPF1		8C_COMP3_PPF1	
9		2BCL456/A			
10	COMPRESSOR TYPE	1	2	1	2
11	SECTION				
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>	343778*		197542**	
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>	297763*		171101**	
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	52.0	90.3	52.0	90.5
18	<input checked="" type="radio"/> TEMPERATURE (°C) <1>	19.7	50.0	18.1	50.0
19	<input type="radio"/> RELATIVE HUMIDITY %	0.0	0.0	0.0	0.0
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)	19.4	19.4	19.4	19.4
21	<input checked="" type="checkbox"/> Cp / Cv <1>	1.488	1.535	1.494	1.536
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₁) <1>	0.873	0.867	0.871	0.867
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>	6713	4336	6574	4276
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>	91.8	152.1	92.0	152.0
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>	66.9	95.5	65.3	95.2
27	<input checked="" type="checkbox"/> Cp / Cv <1>	1.478	1.503	1.483	1.504
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₂) <1>	0.892	0.917	0.890	0.916
29	<input checked="" type="checkbox"/> kW REQUIRED <1>	14736		14506	
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>	15031		14796	
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>	8489		8448	
33	<input type="checkbox"/> TURNDOWN % <2>				
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>	SOS0403362 (012000DMST12820)			
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>	67813	68598	67529	68127
36	<input type="radio"/> CERTIFIED POINT	83	82.6	82.7	82.5
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>	SOS0403362 (012000DMST12820)			

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs)

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 7% recycle

49 (**) Process value, add 84% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 36 / 37
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

**CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS**

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 37 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	1D_COMP3_PPF1	2D_COMP3_PPF1	3D_COMP3_PPF1			
9	2BCL456/A					
10	COMPRESSOR TYPE					
11	SECTION					
12	1	2	1	2	1	2
13	GAS HANDLED (ALSO SEE PAGE 41)					
14	GAS PROPERTIES (1-2.1.1.4)					
15	VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>					
16	WEIGHT FLOW (kg/h) (DRY) (WET) <1>					
17	INLET CONDITIONS					
18	PRESSURE (BAR-A) <1>					
19	TEMPERATURE (°C) <1>					
20	RELATIVE HUMIDITY %					
21	MOLECULAR WEIGHT (%)					
22	Cp / Cv					
23	COMPRESSIBILITY (Z ₁)					
24	INLET VOLUME (m³/h) (WET / DRY) <1>					
25	DISCHARGE CONDITIONS					
26	PRESSURE (BAR-A) <1>					
27	TEMPERATURE (°C) <1>					
28	Cp / Cv					
29	COMPRESSIBILITY (Z ₂)					
30	kW REQUIRED <1>					
31	TRAIN kW REQUIRED					
32	kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>					
33	SPEED (RPM) <1>					
34	TURNDOWN % <2>					
35	POLYTROPIC HEAD (N-m/kg) <1>					
36	POLYTROPIC EFFICIENCY (%) <1>					
37	CERTIFIED POINT					
38	PERFORMANCE CURVE NUMBER <1>					
39	PROCESS CONTROL (1-3.4.2.1)					
40	METHOD <input type="radio"/> SUCTION THROTTLING <input type="radio"/> VARIABLE INLET <input checked="" type="radio"/> SPEED VARIATION <input type="radio"/> DISCHARGE <input type="radio"/> COOLED BYPASS					
41	FROM _____ BAR (kPa abs) GUIDE VANES FROM 60 % BLOWOFF FROM _____					
42	TO _____ BAR (kPa abs) (2-2.4.1) TO 105 % TO _____ TO _____					
43	SIGNAL <input type="radio"/> SOURCE (1-3.4.2.1) _____					
44	TYPE <input checked="" type="radio"/> ELECTRONIC <input type="radio"/> PNEUMATIC <input type="radio"/> OTHER _____					
45	RANGE 4-20 mA _____ BAR (kPa abs) _____					
46	<input type="radio"/> ANTI-SURGE SYSTEM (1-3.4.2.2) _____					

47 **NOTES**

48 _____

49 _____

50 **(**) CASE TO BE CONSIDERED ONLY WITH THROTTLING VALVE WHICH IS CURRENTLY AN OPTION in GE CONTRACT**

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	37 / 38

NUOVO PIGNONE

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OIL & GAS

**CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS**

JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 7100000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
PAGE 38 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR STOGIT	UNIT ONE (1) X 100%
3	SITE SETTALA - ITALY	SERIAL NO. C14082
4	SERVICE GAS STORAGE <1>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER NUOVO PIGNONE	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL 2BCL456/A	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 OPERATING CONDITIONS

	4D_COMP3_PF1	5D_COMP3_PF1	6D_COMP3_PF1		
9	2BCL456/A				
10	COMPRESSOR TYPE				
11	SECTION				
12	1	2	1	2	1
13	2	1	2	1	2
14	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41) <input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
15	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1> 407033 197542* 371468** <input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1> 352552 171101* 321746**				
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A) 58.0 91.9 58.0 91,4 <1> 58.0 95,3 <1>				
18	<input checked="" type="radio"/> TEMPERATURE (°C) 20.0 50.0 21,2 <1> 50.0 21.7 50.0				
19	<input type="radio"/> RELATIVE HUMIDITY % 0.0 0.0 0.0 0.0 0.0 0.0				
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%) 19.4 19.4 19.4 19.4 19.4 19.4				
21	<input checked="" type="checkbox"/> Cp / Cv <1> 1.520 1.541 1.515 1.539 1.520 1.553				
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₁) <1> 0.861 0.865 0.863 0.866 0.861 0.862				
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1> 6568 4684 5967 4266 6292 4327				
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1> 93.4 137.9 92.9 137.9 96.8 150.1				
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1> 59.0 85.3 59.9 85.6 62.2 89.3				
27	<input checked="" type="checkbox"/> Cp / Cv <1> 1.510 1.515 1.504 1.514 1.508 1.521				
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z₂) <1> 0.879 0.902 0.881 0.903 0.882 0.908				
29	<input checked="" type="checkbox"/> kW REQUIRED <1> 12805 11619 13550				
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1> 13061 11851 13821				
32	<input checked="" type="checkbox"/> SPEED (RPM) <1> 7842 7693 8013				
33	<input checked="" type="checkbox"/> TURNDOWN % <2> SOS0403362 (012000DMST12820)				
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1> 55408 52201 55006 53034 59860 58869				
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1> 83.9 81.9 83.1 82.7 83.1 82.8				
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1> SOS0403362 (012000DMST12820)				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM **60** % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO **105** % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE **4-20** mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 NOTES

48 (*) Process value, add 86% recycle

49 (**) Process value, add 5% recycle

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 38 / 39
REV	DESCRIZIONE - DESCRIPTION		

NUOVO PIGNONE

FIRENZE



OIL & GAS

CENTRIFUGAL COMPRESSOR
DATA SHEET (API 617-7TH Chapter 2)
SI UNITS

JOB NO. 1102782 ITEM NO. _____
 PURCHASE ORDER NO. 7100000270 <1>
 INQUIRY NO. _____
 REVISION NO. 0 DATE _____
 PAGE 39 OF 46 BY _____

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	ENQUIRY NO. _____
2	FOR <u>STOGIT</u>	UNIT ONE (1) X 100%
3	SITE <u>SETTALA - ITALY</u>	SERIAL NO. <u>C14082</u>
4	SERVICE <u>GAS STORAGE <1></u>	NO. DUTY / STANDBY ONE (1)
5	MANUFACTURER <u>NUOVO PIGNONE</u>	DRIVER TYPE (1-3.1.1) PGT25
6	MODEL <u>2BCL456/A</u>	DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

	7D_COMP3_PPF1	8D_COMP3_PPF1	1E_COMP3_PPF1		
9	2BCL456/A				
10	1	2	1	2	1
11	2	1	2	1	2
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)				
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)				
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY) <1>				
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET) <1>				
16	INLET CONDITIONS				
17	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>				
18	<input checked="" type="radio"/> TEMPERATURE (°C) <1>				
19	<input type="radio"/> RELATIVE HUMIDITY %				
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)				
21	<input checked="" type="checkbox"/> Cp / Cv <1>				
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁) <1>				
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY) <1>				
24	DISCHARGE CONDITIONS				
25	<input checked="" type="radio"/> PRESSURE (BAR-A) <1>				
26	<input checked="" type="checkbox"/> TEMPERATURE (°C) <1>				
27	<input checked="" type="checkbox"/> Cp / Cv <1>				
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂) <1>				
29	<input checked="" type="checkbox"/> kW REQUIRED <1>				
30	<input type="checkbox"/> TRAIN kW REQUIRED				
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT. LOSSES (GEAR, ETC) <1>				
32	<input checked="" type="checkbox"/> SPEED (RPM) <1>				
33	<input checked="" type="checkbox"/> TURNDOWN % <2>				
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg) <1>				
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%) <1>				
36	<input type="radio"/> CERTIFIED POINT				
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER <1>				

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM 60 % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO 105 % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE 4-20 mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 15% recycle

49 (**) Process value, add 97% recycle

50 _____

51 (***) CASE TO BE CONSIDERED ONLY WITH THROTTLING VALVE WHICH IS CURRENTLY AN OPTION in GE CONTRACT

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	39 / 40



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JOB NO. 1102782 ITEM NO. _____
PURCHASE ORDER NO. 710000270 <1>
INQUIRY NO. _____
REVISION NO. 0 DATE _____
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1 APPLICABLE TO: PROPOSAL PURCHASE AS BUILT ENQUIRY NO. _____
2 FOR STOGIT UNIT ONE (1) X 100%
3 SITE SETTALA - ITALY SERIAL NO. C14082
4 SERVICE GAS STORAGE <1> NO. DUTY / STANDBY ONE (1)
5 MANUFACTURER NUOVO PIGNONE DRIVER TYPE (1-3.1.1) PGT25
6 MODEL 2BCL456/A DRIVER ITEM NO. _____

7 INFORMATION TO BE COMPLETED: BY PURCHASER BY MANUFACTURER MUTUAL AGREEMENT (PRIOR TO PURCHASE)

8 **OPERATING CONDITIONS**

9		2E_COMP3_Pf1						
10	COMPRESSOR TYPE	2BCL456/A						
11	SECTION	1	2					
12	<input checked="" type="radio"/> GAS HANDLED (ALSO SEE PAGE 41)							
13	<input type="checkbox"/> GAS PROPERTIES (1-2.1.1.4)							
14	<input checked="" type="radio"/> VOLUME FLOW (m³/h) (1.013 BAR-A & 0°C DRY)	<1>						
15	<input checked="" type="radio"/> WEIGHT FLOW (kg/h) (DRY) (WET)	<1>						
16	INLET CONDITIONS							
17	<input checked="" type="radio"/> PRESSURE (BAR-A)	<1>						
18	<input checked="" type="radio"/> TEMPERATURE (°C)	<1>						
19	<input type="radio"/> RELATIVE HUMIDITY %							
20	<input checked="" type="radio"/> MOLECULAR WEIGHT (%)							
21	<input checked="" type="checkbox"/> Cp / Cv	<1>						
22	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₁)	<1>						
23	<input checked="" type="checkbox"/> INLET VOLUME (m³/h) (WET / DRY)	<1>						
24	DISCHARGE CONDITIONS							
25	<input checked="" type="radio"/> PRESSURE (BAR-A)	<1>						
26	<input checked="" type="radio"/> TEMPERATURE (°C)	<1>						
27	<input checked="" type="checkbox"/> Cp / Cv	<1>						
28	<input checked="" type="checkbox"/> COMPRESSIBILITY (Z ₂)	<1>						
29	<input checked="" type="checkbox"/> kW REQUIRED	<1>						
30	<input type="checkbox"/> TRAIN kW REQUIRED							
31	<input checked="" type="checkbox"/> kW REQUIRED AT DRIVER INCL. EXT LOSSES (GEAR, ETC)	<1>						
32	<input checked="" type="checkbox"/> SPEED (RPM)	<1>						
33	<input checked="" type="checkbox"/> TURNDOWN %	<2>						
34	<input checked="" type="checkbox"/> POLYTROPIC HEAD (N-m/kg)	<1>						
35	<input checked="" type="checkbox"/> POLYTROPIC EFFICIENCY (%)	<1>						
36	<input type="radio"/> CERTIFIED POINT							
37	<input checked="" type="checkbox"/> PERFORMANCE CURVE NUMBER	<1>						

38 **PROCESS CONTROL (1-3.4.2.1)**

39 METHOD SUCTION THROTTLING VARIABLE INLET SPEED VARIATION DISCHARGE COOLED BYPASS

40 FROM _____ BAR (kPa abs) GUIDE VANES FROM 60 % BLOWOFF FROM _____

41 TO _____ BAR (kPa abs) (2-2.4.1) TO 105 % TO _____ TO _____

42 SIGNAL SOURCE (1-3.4.2.1) _____

43 TYPE ELECTRONIC PNEUMATIC OTHER _____

44 RANGE 4-20 mA _____ BAR (kPa abs) _____

45 ANTI-SURGE SYSTEM (1-3.4.2.2) _____

47 **NOTES**

48 (*) Process value, add 20% recycle

49 _____

50 _____

51 _____

52 _____

53 _____

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A	40 / 41
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1 OPERATING CONDITIONS (Continued) (1-2.1.1.1) (1-3.1.2) (1-3.1.3)							
2 GAS ANALYSIS:		OTHER CONDITIONS					REMARKS:
3 <input type="radio"/> MOL %							
	MW	CASE 1	CASE 2	CASE 3			
5	METHANE	16.04	99.18	93.27	82.2		
6	ETHANE	30.07	0.4	3.32	7.17		
7	PROPANE	44.1	0.05	0.83	2.35		
8	N-BUTANE	58.12	0.005	0.185	0.75		
9	I-BUTANE	58.12	0.005	0.185	0.4		
10	N-PENTANE	72.15	0	0.075	0.2		
11	I-PENTANE	72.15	0	0.075	0.14	(1-2.2.1.6)	
12	N-HEXANE	86.177	0	0.15	0.29	(1-2.2.1.9)	
13	NITROGEN	44.01	0.35	0.91	6.2		
14	CARBON DIOXIDE	28.01	0.01	1	0.3		
15							
16							
17							
18							
19							
20							
21							
22							
23						(1-2.2.1.3)	
24							
25							
26							
27							
28						(1-2.2.1.3)	
29							
30	TOTAL		100	100	100		
31	AVG. MOL. WT.		16.2	17.5	19.4		

32 **LOCATION:** (1-2.1.8)

33 INDOOR OUTDOOR GRADE

34 HEATED UNDER ROOF MEZZANINE

35 UNHEATED PARTIAL SIDES **ONSHORE**

36 AREA CLASS (1-2.1.14) ZONE 2 GAS GP. IIB TEMP. CL. T3

37 **SITE DATA (1-2.1.8)**

38 ELEVATION 103 m <2> BAROMETER _____ BARA

39 RANGE OF AMBIENT TEMPS:

40 _____ DRY BULB _____ WET BULB

41 NORMAL °C _____

42 MAXIMUM °C 36.1

43 MINIMUM °C -13.8

44 **UNUSUAL CONDITIONS:** DUST FUMES

45 _____ °C _____

46 OTHER (1-2.1.8) _____

47 _____

48 COPPER AND COPPER ALLOYS PROHIBITED (1-2.2.1.14)

49 **COATING: (1-2.2.1.16)**

50 ROTATING COMPONENTS _____

51 STATIONARY COMPONENTS _____

52 **REMARKS:** _____

53 _____

NOISE SPECIFICATIONS: (1-2.1.9)

APPLICABLE TO MACHINE:
SEE SPECIFICATION (*) _____

APPLICABLE TO NEIGHBORHOOD:
SEE SPECIFICATION (*) _____

ACOUSTIC HOUSING: YES NO

APPLICABLE SPECIFICATIONS:
API 617, 7TH CHAPTER 1&2

VENDOR HAVING UNIT RESPONSIBILITY (1-1.5.52) (1-1.8) (1-2.1.3)

COMPRESSOR VENDOR _____

GOVERNING SPECIFICATION (IF DIFFERENT)

PAINTING:

MANUFACTURER'S STD. (REFER TO SOM6629117)

OTHER _____

SHIPMENT: (1-4.4)

DOMESTIC EXPORT EXPORT BOXING REQ'D.

OUTDOOR STORAGE MORE THAN 6 MONTHS (1-4.4.1) 12 MTHS <1>

SPARE ROTOR ASSEMBLY PACKAGE (1-4.4.3.10)

HORIZONTAL STORAGE VERTICAL STORAGE

REMARKS:

54 **NOTES**

55 (*) The Gas Turbine Expected average sound level is 90 dbA press level @ 1Mt. From G.T. enclosure @ 1,5Mt. elev. In free field conditions without

56 considering Pulse jet operation. According to customer request, the building for the GTC will be suitable to meet 50 dB(A), at 80 m. <2>

2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG.	PAGINA-SHEET
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1	CONSTRUCTION FEATURES	
2	<input checked="" type="checkbox"/> SPEEDS:	<input checked="" type="checkbox"/> DIAPHRAGMS:
3	MAX. CONT. 11190 RPM TRIP 11750 RPM <2>	MATERIAL ASTM A350 LF2
4	MAX. TIP SPEEDS: 273 m/sec @ 100% SPEED <2>	AXIALLY SPLIT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (2-2.4.8)
5	<2> 287 m/sec @ MAX. CONT. SPEED	<input type="checkbox"/> INTERMEDIATE MAIN PROCESS CONNECTIONS (2-2.4.5) N/A
6	<input checked="" type="checkbox"/> LATERAL CRITICAL SPEEDS (DAMPED)	DISCH. PRESSURE (BARG)(k MAX _____ MIN _____
7	FIRST CRITICAL 4550 RPM	INLET PRESSURE (BARG)(kP MAX _____ MIN _____
8	SECOND CRITICAL 16900 RPM	DIAPHRAGM MAX. Δ P (BAR)(kPa): _____
9	THIRD CRITICAL N/A RPM	<input checked="" type="checkbox"/> IMPELLERS:
10	FOURTH CRITICAL N/A RPM	NO. 6 DIAMETERS 490 - 490 - 490 - 485 - 485 - 485
11	<input type="checkbox"/> LATERAL ANALYSIS ADDITIONAL REQUIREMENTS (1-2.6.2.14)	NO. VANES EA. IMPELLER 19 - 19 - 19 - 19 - 19
12	<input type="checkbox"/> TRAIN LATERAL ANALYSIS REQUIRED (1-2.6.2.6)	TYPE (OPEN, ENCLOSED, ETC.) ENCLOSED
13	<input checked="" type="checkbox"/> TRAIN TORSIONAL ANALYSIS REQUIRED (1-2.6.7.1)	TYPE FABRICATION EDM-EDM-EDM-EDM-EDM-EDM
14	<input checked="" type="checkbox"/> TORSIONAL CRITICAL SPEEDS:	MATERIAL ASTM A182F22
15	FIRST CRITICAL _____ RPM	MIN. YIELD STRENGTH (MPa) _____
16	SECOND CRITICAL _____ RPM	HARDNESS: (BNH)(Rc) <= 207 (NOTE 1)
17	THIRD CRITICAL _____ RPM	SMALLEST TIP INTERNAL WIDTH (mm) 13.1
18	FOURTH CRITICAL _____ RPM	MAX. MACH. NO. @ IMPELLER EYE 0.644 <3>
19	<input type="checkbox"/> LIST OF TRAIN UNDESIRABLE SPEEDS (1-2.6.1.4)	MAX. IMPELLER HEAD @ 100% SPD (N-m/kg) _____
20	<input checked="" type="checkbox"/> VIBRATION:	<input checked="" type="checkbox"/> SHAFT:
21	ALLOWABLE TEST LEVEL As per API-617, 7th Edition μm	<input checked="" type="checkbox"/> ONE PIECE <input type="checkbox"/> BUILT UP
22	(PEAK TO PEAK)	MATERIAL AISI 4340
23	NAMEPLATE (2-2.11.2)	DIA @ IMPELLERS (mm) 168 / 193 DIA @ COUPLING (mm) 110
24	<input type="checkbox"/> US CUSTOMARY <input checked="" type="checkbox"/> METRIC	SHAFT END: <input checked="" type="checkbox"/> TAPERED <input type="checkbox"/> CYLINDRICAL
25	<input checked="" type="checkbox"/> ROTATION, VIEWED FROM DRIVEN END <input checked="" type="checkbox"/> CW <input type="checkbox"/> C CW	<input type="checkbox"/> SPLINED <input type="checkbox"/> INTEGRAL FLANGE
26	<input checked="" type="checkbox"/> MATERIALS INSPECTION REQUIREMENTS (1-4.2.2.1)	MIN. YIELD STRENGTH (MPa) 735
27	<input type="checkbox"/> RADIOGRAPHY REQUIRED FOR	SHAFT HARDNESS (BNH)(Rc) 270
28	<input type="checkbox"/> ULTRASONIC REQUIRED FOR	MAX TORQUE CAPABILITY (N-m) _____
29	<input type="checkbox"/> MAGNETIC PARTICLE REQUIRED FOR	<input checked="" type="checkbox"/> BALANCE PISTON:
30	<input type="checkbox"/> LIQUID PENETRANT REQUIRED FOR	MATERIAL ASTM A182F6NM AREA 65345 (mm ²) <3>
31	<input type="checkbox"/> LOW TEMPERATURE (1-2.2.1.15.3)	FIXATION METHOD interface fit and keyed
32	MIN. DESIGN METAL TEMPERATURE (_____)	NORMAL CLEARANCE (mm) 0.212 <3>
33	AT CONCURRENT PRESSURE (BARG _____)	FLOW WITH NORMAL CLEARANCE (kg/min) 30.12 <3>
34	<input type="checkbox"/> OTHER TRAIN COMPONENTS (1-2.2.1)	FLOW WITH 2x NORMAL CLEARANCE (kg/min) _____
35	<input checked="" type="checkbox"/> CASING:	<input checked="" type="checkbox"/> PRESS. CONN. BAL LINE DOWNSTREAM (2-2.5.4.3)
36	MODEL 2BCL456/A	<input checked="" type="checkbox"/> SHAFT SLEEVES:
37	CASING SPLIT VERTICAL	AT INTERSTG. CLOSE MATL X12Cr13
38	MATERIAL ASTM A350LF2	CLEARANCE POINTS
39	THICKNESS (mm) 161 CORR. ALLOW. (mm) 3	AT SHAFT SEALS MATL X12Cr13
40	MAX. ALLOWABLE PRESS 190 <2>	<input type="checkbox"/> ACCESSIBLE (2-2.8.3)
41	TEST PRESS (BARG): HYDRO 285	ROTOR
42	MAX. ALLOWABLE TEMPERATURE (°C) 250	<input type="checkbox"/> DISASSEMBLY AND REASSEMBLY (1-2.6.8.2.1.1)
43	MAX OPER. TEMP. 200 °C MIN. OPER. TEMP. -20 °C	<input type="checkbox"/> AT SPEED BALANCING (1-2.6.8.3)
44	MAX CASING CAPACITY (m ³ /h) 14400 <3>	<input type="checkbox"/> SEQUENTIAL LOW SPEED BAL. PREC. AT SPEED BAL. (1-2.6.8.6)
45	<input type="checkbox"/> SYSTEM RELIEF VALVE SET PT. (2-2.3.1.1) _____ BARG	<input checked="" type="checkbox"/> RESIDUAL BALANCE CHECK (1-2.6.8.7)
46	<input type="checkbox"/> Q.C. OF INACCESSIBLE WELDS (1-2.3.1.11.2)	<input checked="" type="checkbox"/> LABYRINTHS:
47	<input type="checkbox"/> GUIDE VANES N/A	INTERSTAGE
48	MATERIAL _____	TYPE Solid teeth grooved MATERIAL AVIONAL 14
49	NO. VANES GUIDE VANE _____	BALANCE PISTON
50	<input type="checkbox"/> IGV EXTERNAL PURGE (2-2.4.2)	TYPE Abradable MATERIAL X12Cr13
51	<input type="checkbox"/> VANE CONTROL SYSTEM (2-2.4.3)	
52	REMARKS:	REMARKS: NOTE 1: before final heat treatment

3	REVISED WHERE SHOWN <3>		
2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. A	PAGINA-SHEET 42 / 43
REV	DESCRIZIONE - DESCRIPTION		
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CONSTRUCTION FEATURES (CONTINUED)										
1										
2	SHAFT SEALS:					<input checked="" type="radio"/> BUFFER GAS CONTROL SYSTEM SCHEMATIC BY VENDOR <input type="radio"/> PRESSURIZING GAS FOR SUBATMOSPHERIC SEALS (1-2.8.2.4)				
3	<input checked="" type="radio"/> SEAL TYPE(1-2.8.1.3) TANDEM SEAL WITH INTERMEDIATE LABY					<input type="radio"/> EDUCTOR <input type="radio"/> INJECTION (1-2.8.2.3)				
4	<input checked="" type="radio"/> MAX SEALING/SETTLING OUT PRES. (1-2.8.1.1)(BARG) <u>107.5</u>					<input checked="" type="checkbox"/> SEAL MANUFACTURER <u>EagleBurgmann</u> <3>				
5	<input type="radio"/> MIN. SEALING PRESSURE (BARG)(kPaG) _____					<input checked="" type="checkbox"/> LEAKAGE TO PROCESS (m ³ /DAY/SEAL) <u>44,2</u> <2>				
6	<input type="radio"/> SUPPLEMENTAL DEVICE REQUIRED FOR CONTACT					BUFFER GAS REQUIRED FOR: <input type="checkbox"/> AIR RUN-IN <input checked="" type="radio"/> OTHER <u>PRESSURIZED STOP / START UP</u> <2>				
7	SEALS (1-2.8.3.4) TYPE _____					<input type="checkbox"/> FLOW (PER SEAL): NORM: _____ kg/min @ _____ BAR(kPa) Δ P MAX. _____ kg/min @ _____ BAR(kPa) Δ P				
8	<input checked="" type="radio"/> BUFFER GAS SYSTEM REQUIRED (1-2.8.1.5)					<input checked="" type="checkbox"/> BEARING HOUSING CONSTRUCTION: TYPE (SEPARATE, INTEGRAL) <u>Integral</u> SPLIT _____ Horiz. _____ MATERIAL <u>39NiCrMo3</u> Eq. To AISI 9840				
9	<input checked="" type="radio"/> TYPE BUFFER GAS (1-2.8.1.5) <u>PROCESS GAS</u> <2>									
10	<input checked="" type="checkbox"/> PRESSURE (1-2.8.1.6) <u>151</u> (BARG) <2>									
11	<input checked="" type="checkbox"/> FLOWRATE <u>58</u> (kg/h) <2>									
12	<input checked="" type="checkbox"/> FILTRATION <u>25</u> micron <2>									
13	<input type="radio"/> MANIFOLD (1-2.8.1.7)									
14	<input checked="" type="radio"/> METHOD OF CONTROL (1-2.8.1.5)									
15	<input type="checkbox"/> AXIAL COMPRESSOR									
16	STAGE	1	2	3	4	5	6	7	8	9
17	ROTOR									
18	<input type="checkbox"/> BLADE MATERIAL									
19	<input type="checkbox"/> BLADE ROOT TYPE									
20	<input type="checkbox"/> CORD WIDTH (mm)									
21	<input type="checkbox"/> OUTER DIAMETER (mm)									
22	<input type="checkbox"/> BLADE HEIGHT (mm)									
23	<input type="checkbox"/> BLADE QUANTITY									
24	STATOR									
25	<input type="checkbox"/> BLADE MATERIAL									
26	<input type="checkbox"/> TYPE (MOVABLE, FIXED, ADJUSTABLE)									
27										
28	<input type="checkbox"/> CORD WIDTH (mm)									
29	<input type="checkbox"/> BLADE QUANTITY									
30										
31	STAGE	10	11	12	13	14	15	16	17	18
32	ROTOR									
33	<input type="checkbox"/> BLADE MATERIAL									
34	<input type="checkbox"/> BLADE ROOT TYPE									
35	<input type="checkbox"/> CORD WIDTH (mm)									
36	<input type="checkbox"/> OUTER DIAMETER (mm)									
37	<input type="checkbox"/> BLADE HEIGHT (mm)									
38	<input type="checkbox"/> BLADE QUANTITY									
39	STATOR									
40	<input type="checkbox"/> BLADE MATERIAL									
41	<input type="checkbox"/> TYPE (MOVABLE, FIXED, ADJUSTABLE) (2-3.4.2.3)									
42										
43	<input type="checkbox"/> CORD WIDTH (mm)									
44	<input checked="" type="checkbox"/> BLADE QUANTITY									
45										
46	NOTES									
47	_____									
48	_____									
49	_____									
50	_____									
51	_____									
52	_____									

3	REVISED WHERE SHOWN <3>		
2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4	
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CONSTRUCTION FEATURES (CONTINUED)

2 BEARINGS AND BEARING HOUSINGS

3 MAGNETIC BEARINGS (2-2.7.1.1.2)

4	RADIAL <input checked="" type="checkbox"/>	THRUST <input checked="" type="checkbox"/>		THRUST <input checked="" type="checkbox"/>	ACTIVE	INACTIVE
		THRUST	NON-THRUST			
5	TYPE	TILTING PAD	TILTING PAD	TYPE	M8207	M8207
6	MANUFACTURER	NP	NP	MANUFACTURER	KINGSBURY	KINGSBURY
7	LENGTH (mm)	48.4	48.4	<input type="checkbox"/> UNIT LOADING (MAX) (BAR)		
8	SHAFT DIA. (mm)	110	110	<input type="checkbox"/> UNIT LOAD (ULT.) (BAR)		
9	<input type="checkbox"/> UNIT LOAD (ACT/ALLOW)			AREA (mm ²)	10450	10450
10	BASE MATERIAL	C10 (UNI)	C10 (UNI)	NO. PADS	8	8
11	BABBIT THICKNESS (mm)	0,04 typ	0,04 typ	PIVOT: CENTER / OFFSET, %	60%	60%
12	NO. PADS	5	5	<input checked="" type="checkbox"/> PAD BASE MATL	Manuf. Std.	Manuf. Std.
13	LOAD: B'TWN/ON PAD	On Pad	On Pad	<input type="radio"/> COPPER BACKED (2-2.7.3.7)		
14	PIVOT: CTR/OFFSET, %	60%	60%	LUBRICATION: <input checked="" type="radio"/> FLOODED <input type="radio"/> DIRECTED (2-2.7.3.6)		
15	PAD MATERIAL <input type="radio"/> (2-2.7.2.2) <input type="radio"/> (2-2.7.2.3)			THRUST COLLAR: <input type="radio"/> INTEGRAL <input checked="" type="radio"/> REPLACEABLE		
16	BEARING SPAN <u>1666.2</u> mm			MATERIAL _____		

17 BEARING TEMPERATURE DETECTORS (2-3.4.7.3)

18 SEE ATTACHED API-670 DATASHEET

19 THERMOCOUPLES TYPE _____

20 RESISTANCE TEMP DETECTORS

21 RESISTANCE MAT'L PLATINUM 100 OHMS

22 ALARM TEMPERATURE (°C) (2-2.7.1.3) 110 / 115 <2>

23 SHUTDOWN TEMPERATURE (°C) (2-2.7.1.3) N.A. / 125 <2>

24 PROVISION FOR LOCAL DISCONNECT (1-2.7.4.6)

25 LOCATION-JOURNAL BRG

26 NO. EA PAD EVERY OTH PAD 2 PER BRG

27 OTHER DUPLEX <2>

28 LOCATION-THRUST BRG

29 NO. EA PAD EVERY OTH PAD 2 PER BRG

30 OTHER DUPLEX <2>

31 NO. (INACT) EA PAD EVERY OTH PAD 2 PER BRG

32 OTHER DUPLEX <2>

33 MONITOR SUPPLIED BY (2-3.4.7.4) COMPRESSOR VENDOR

34 LOCATION UCP <2> ENCLOSURE _____

35 MFR. <2> BENTLY NEVADA MODEL <2> BN 3500

36 SCALE RGE _____ ALARM SET @ _____ °C

37 SHTDWN SET @ _____ °C TIME DELAY _____ SEC

38 _____

VIBRATION DETECTORS: SEE ATTACHED API-670 DATA SHEET

TYPE PROXIMITY MODEL 3300

MFR. BENTLY NEVADA

NO. AT EA SHAFT BEARING 2 TOTAL NO. 4

OSCILLATOR-DETECTORS SUPPLIED BY PACKAGE VENDOR

MFR. BENTLY NEVADA MODEL 3300

MONITOR SUPPLIED BY (2-3.4.7.2) PACKAGE VENDOR

LOCATION UCP ENCLOSURE WEATHER PROOF, IP 56

MFR. BENTLY NEVADA MODEL BN 3500

SCALE RGE 0-100 μm ALARM SET @ 50 μm <2>

SHTDWN: SET @ 70 μm TIME DELAY _____ SEC <2>

CASING VIBRATION TRANSDUCERS (2-3.4.7.5)

CASING VIBRATION MONITORS (2-3.4.7.6)

AXIAL POSITION DETECTOR: SEE ATTACHED API-670 DATA SHEET

TYPE PROXIMITY MODEL 3300

MFR. BENTLY NEVADA NO. REQUIRED 2

OSCILLATOR-DEMODULATOR SUPPLIED BY PACKAGE VENDOR

MFR. BENTLY NEVADA MODEL 3300

MONITOR SUPPLIED BY (2-3.4.7.2) PACKAGE VENDOR

LOCATION UCP ENCLOSURE WEATHER PROOF, IP 56

MFR. BENTLY NEVADA MODEL BN 3500

SCALE RGE ± 1 mm ALARM SET @ ± 0.55 mm <2>

SHTDWN: SET @ ± 0.75 mm TIME DELAY _____ SEC <2>

39 KEY PHASOR REQUIRED

40 COMPRESSOR GEAR H.S. GEAR L.S. DRIVER

41 CASING CONNECTIONS (1-2.3.2.2.1)

42	CONNECTION	<input type="checkbox"/> ANSI/ASME (B16.1; B16.5; B16.42; B16.47 series A, B; ISO 7005-1, -2; OTHER	<input checked="" type="checkbox"/> FACING <input type="checkbox"/> BORE	<input checked="" type="radio"/> ORIENTATION	<input checked="" type="checkbox"/> FLANGED OR <input type="checkbox"/> STUDDED (1-2.3.2.2.1)	<input checked="" type="radio"/> MATING FLG & GASKET BY VENDOR (1-2.3.2.2.7)	<input checked="" type="checkbox"/> GAS VELOCITY m/sec
48	INLET 1st PHASE	ANSI B16.47 SERIES A	18" 1500#	UP	FLANGED (**)	YES	26.9
49	INLET 2nd PHASE	ANSI B16.47 SERIES A	14" 1500#	UP	FLANGED (**)	YES	25.87
50	DISCHARGE 1st PHASE	ANSI B16.47 SERIES A	14" 1500#	UP	FLANGED (**)	YES	28.07
51	DISCHARGE 2nd PHASE	ANSI B16.47 SERIES A	10" 1500# (*)	UP	FLANGED (**)	YES	29.59

52 BOROSCOPIC INSPECTION PORTS (2-2.3.2.4) (*) THE CUSTOMER INTERFACE FLANGE WILL BE 12"; (**) FLANGE TYPE RJ

3	REVISED WHERE SHOWN <3>	
2	REVISED WHERE SHOWN <2>	N. SOK 7302001 /4
1	REVISED WHERE SHOWN <1>	LINGUA-LANG. PAGINA-SHEET
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FIRENZE



OIL & GAS

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1	<input checked="" type="checkbox"/> OTHER CONNECTIONS						
2	SERVICE:	NO.	SIZE	TYPE	NO.	SIZE	TYPE
3	LUBE-OIL INLET						
4	LUBE OIL OUTLET						
5	SEAL-OIL INLET						
6	SEAL-OIL OUTLET						
7	SEAL GAS INLET						
8	SEAL GAS OUTLET						
9	CASING DRAINS						
10	STAGE DRAINS						
11	<input type="checkbox"/> INDIVIDUAL STAGE DRAINS REQUIRED (1-2.3.2.1.7)						
12	<input type="checkbox"/> VALVED & BLINDED						
13	<input type="checkbox"/> VALVED & BLINDED & MANIFOLD						
14	LUBRICATION AND SEALING SYSTEMS (1-2.10) (1-3.5.1.2)						
15	<input checked="" type="checkbox"/> SEE ATTACHED API 614 DATASHEET						
16	<input type="checkbox"/> SEPARATE <input checked="" type="checkbox"/> COMBINED (2-2.10.1)						
17	<input checked="" type="checkbox"/> INTEGRAL OIL RESERVOIR (1-3.3.2.11)						
18	<input checked="" type="checkbox"/> OIL TYPE (2-2.10.2) ISO VG 32						
19	ACCESSORIES						
20	COUPLING AND GUARDS (3.2)						
21	NOTE: SEE ROTATING ELEMENTS - SHAFT ENDS						
22	<input type="checkbox"/> SEE ATTACHED API-671 DATA SHEET <input checked="" type="checkbox"/> KEYLESS HYDRAULIC <input type="checkbox"/> KEYED <input type="checkbox"/> FLANGED <input type="checkbox"/> OTHER _____						
23	COUPLING FURNISHED BY PACKAGE VENDOR						
24	MANUFACTURER	LATER	TYPE	Dry Flexible	MODEL	LATER	
25	COUPLING GUARD FURNISHED BY: PACKAGE VENDOR						
26	TYPE: <input checked="" type="checkbox"/> FULLY ENCLOSED <input type="checkbox"/> SEMI-OPEN <input type="checkbox"/> OTHER						
27	COUPLING DETAILS						
28	<input type="checkbox"/> MAX O.D.	LATER	mm	<input checked="" type="checkbox"/> PLUG AND RING GAUGES (1-3.2.5)			
29	<input type="checkbox"/> HUB WEIGHT	LATER	kg	LUBRICATION REQUIREMENTS:			
30	<input type="checkbox"/> SPACER LENGTH	LATER	mm	<input checked="" type="checkbox"/> NON-LUBE	<input type="checkbox"/> CONT. OIL LUBE	<input type="checkbox"/> OTHER _____	
31	<input type="checkbox"/> SPACER WEIGHT	LATER	kg	QUANTITY PER HUB _____ kg OR L/min			
32							
33	MOUNTING PLATES (1-3.3)						
34	<input checked="" type="checkbox"/> BASEPLATES FURNISHED BY (1-3.3.2.1) PACKAGE VENDOR						
35	<input type="checkbox"/> COMPRESSOR ONLY <input type="checkbox"/> DRIVER <input checked="" type="checkbox"/> GEAR						
36	<input checked="" type="checkbox"/> OTHER COMBINED						
37	<input checked="" type="checkbox"/> NONSKID DECKING (1-3.3.2.4) <input type="checkbox"/> SLOPED DECK (1-3.3.2.4.1)						
38	<input checked="" type="checkbox"/> LEVELING PADS OR TARGETS (1-3.3.2.6)						
39	<input checked="" type="checkbox"/> COLUMN MOUNTING (1-3.3.2.5)						
40	<input type="checkbox"/> SUB-SOLE PLATES REQUIRED (1-3.3.2.10)						
41	<input type="checkbox"/> STAINLESS STEEL SHIM THICKNESS _____ mm						
42	<input checked="" type="checkbox"/> MACHINED MOUNTING PADS REQUIRED (1-3.3.2.9)						
43							
44	NOTES						
45	Temporary compressor inlet filter: Mesh 22 Material AISI304 <2>						
46							
47							
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51							
52							

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OIL & GAS

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1	UTILITIES		
2	UTILITY CONDITIONS:		MANUALS
3	STEAM:	DRIVERS	<input type="radio"/> DRAFT MANUAL FOR REVIEW (1-5.3.5.1.2)
4	INLET MIN	REFER TO UTILITY CONSUMPTION LIST SOM6628760 (012000DEEU21315)	<input type="radio"/> TECHNICAL DATA MANUAL (1-5.3.5.4)
5	NORM		MISCELLANEOUS: (Note 1)
6	MAX		<input type="checkbox"/> RECOMMENDED STRAIGHT RUN OF PIPE DIAMETERS BEFORE SUCTION _____
7	EXHAUST. MIN		<input type="radio"/> COMPRESSOR TO BE SUITABLE FOR FIELD RUN-IN ON AIR (1-2.1.16)
8	NORM		<input type="radio"/> PROVISION FOR LIQUID INJECTION (1-2.1.10) _____
9	MAX		<input type="radio"/> INJECTION MANIFOLD (2-3.5.1.2)
10	ELECTRICITY:	DRIVERS CONTROL SHUTDOWN	<input type="radio"/> VENDOR'S REVIEW & COMMENTS ON PURCHASER'S CONTROL SYSTEMS (1-3.4.1.1)
11	VOLTAGE	REFER TO ELECTRIC LOAD LIST SOM6627659 (012000DEEU21312)	<input type="radio"/> SHOP FITUP OF VENDOR PROCESS PIPING (1-4.4.3.11)
12	HERTZ		<input type="radio"/> WELDING HARDNESS TESTING (1-4.2.1.5) _____
13	PHASE		<input type="radio"/> INSPECT CLEANLINESS (1-4.2.1.4) _____
14			<input type="radio"/> DESIGN AUDIT (1-5.1.4)
15	<input type="checkbox"/> REDUCED VOLTAGE START (1-3.1.6)		<input type="radio"/> BALANCE PISTON Δ P (1-5.3.2.1.5) (BAR) (kPa) _____
16	<input type="checkbox"/> NUMBER OF STARTS (1-3.1.6)	REFER TO UTILITY CONSUMPTION LIST SOM6628760 (012000DEEU21315)	<input type="radio"/> PROVIDE TAIL END SCHEDULES (1-5.3.3.2)
17	INSTRUMENT AIR:		
18	NORMAL PRESS _____		
19			
20	SHOP INSPECTION AND TESTS: (1-4.1.4)	REQ'D WIT/OBV	VENDOR'S REPRESENTATIVE SHALL (1-2.1.13) (Note 1)
21	HYDROSTATIC (1-4.3.2)	REFER TO QUALITY CONTROL PLAN SOM5086774 (012000DMQA12806) <1>	<input type="radio"/> OBSERVE FLANGE PARTING
22	IMPELLER OVERSPEED (1-4.3.3)		<input type="radio"/> CHECK ALIGNMENT AT TEMPERATURE
23	MECHANICAL RUN (1-4.3.6)(2-4.3.1)		<input type="radio"/> BE PRESENT AT INITIAL ALIGNMENT
24	<input checked="" type="radio"/> CONTRACT COUPLING		
25	OPTIONAL TESTS		<input checked="" type="checkbox"/> WEIGHTS (kg): <3>
26	PURCHASER VIB. EQUIPMENT (2-4.3.1)		COMPR. 30000 GEAR 5000 DRIVER 19700 BASE 65000
27	VARY LUBE & SEAL OIL PRESSURES AND TEMPERATURES (1-4.3.6.1.5)		ROTORS: COMPR. 1000 DRIVER 3485 GEAR 386 / 942
28	POLAR FORM VIB DATA (1-4.3.6.1.2)		COMPRESSOR UPPER CASE N/A
29	TAPE RECORD VIB DATA (1-4.3.6.1.3)		MAX. FOR MAINTENANCE (IDENTIFY) 5000
30	SHAFT END SEAL INSP. (1-4.3.6.2.2)		TOTAL SHIPPING WEIGHT *
31	GAS LEAK TEST AT DISCH PRESS (2-4.3.8.5)		<input checked="" type="checkbox"/> SPACE REQUIREMENTS (mm): <3>
32	POST TEST INTERNAL INSP. (1-4.3.8.5)		COMPLETE UNIT: L 10000 W 3500 H 3700
33	BEFORE GAS LEAKAGE TEST		
34	AFTER GAS LEAKAGE TEST		
35	PERFORMANCE TEST (GAS) (AIR) (2-4.3.3.2)		
36	INTERMEDIATE HEAD/PRESSURE TOL		
37	COMPLETE UNIT TEST (2-4.3.3.2)		
38	TANDEM TEST (2-4.3.3.3)		
39	GEAR TEST (2-4.3.3.4)		
40	HELIUM LEAK TEST (1-4.3.8.2)		
41	SOUND LEVEL TEST (1-4.3.8.3)		
42	AUX. EQUIPMENT TEST (1-4.3.8.4)		
43	FULL LOAD / SPEED / PRESS TEST (1-4.3.8.7)		
44	HYDRAULIC COUPLING INSP (1-4.3.8.7)		
45	SPARE PARTS TEST (1-4.3.8.8)		
46	INSPECTOR'S CHECKLIST COMPLIANCE		
47	GAS SEAL TEST VENDOR SHOP (1-4.3.8.8)		
48			
49			
50			
51			
52			

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