



**RECIPROCATING COMPRESSOR  
API 618 5TH EDITION DATA SHEET  
SI UNITS**

JOB NO. \_\_\_\_\_ ITEM NO. \_\_\_\_\_  
 REVISION \_\_\_\_\_ DATE \_\_\_\_\_  
 PAGE 2 OF 17 BY \_\_\_\_\_

Revision

	GAS ANALYSIS AT OPERATING CONDITIONS MOLE % (BY VOLUME) ONLY	REMARKS
1		
2		
3	<input type="radio"/> SERVICE/ITEM NO.	
4	<input type="radio"/> STAGE	
5	<input type="radio"/> NORMAL OR ALT	
6	M.W.	
7	AIR 28.966	
8	OXYGEN O <sub>2</sub> 32.000	
9	NITROGEN N <sub>2</sub> 28.016	
10	WATER VAPOR H <sub>2</sub> O 18.016	
11	CARBON MONOX. CO 28.010	
12	CARBON DIOX. CO <sub>2</sub> 44.010	
13	HYDRO. SULFIDE H <sub>2</sub> S 34.076	
14	HYDROGEN H <sub>2</sub> 2.016	
15	METHANE CH <sub>4</sub> 16.042	
16	ETHYLENE C <sub>2</sub> H <sub>4</sub> 28.052	
17	ETHANE C <sub>2</sub> H <sub>6</sub> 30.068	
18	PROPYLENE C <sub>3</sub> H <sub>6</sub> 42.078	
19	PROPANE C <sub>3</sub> H <sub>8</sub> 44.094	
20	I-BUTANE C <sub>4</sub> H <sub>10</sub> 58.120	
21	n-BUTANE C <sub>4</sub> H <sub>10</sub> 58.120	
22	I-PENTANE C <sub>5</sub> H <sub>12</sub> 72.146	
23	n-PENTANE C <sub>5</sub> H <sub>12</sub> 72.146	
24	HEXANE PLUS	
25	AMMONIA NH <sub>3</sub> 17.031	
26	HYDRO. CHLOR. HCl 36.461	
27	CHLORINE Cl <sub>2</sub> 70.914	
28	CHLORIDES - TRACES	
29		
30		
31		
32	<input type="checkbox"/> CALCULATED MOL WT.	
33	<input type="checkbox"/> C <sub>p</sub> /C <sub>v</sub> (K) @ 65° OR _____ °C	
34	<b>NOTE: IF WATER VAPOR AND/OR CHLORIDES ARE PRESENT, EVEN MINUTE TRACES, IN THE GAS BEING COMPRESSED, IT MUST BE INCLUDED ABOVE.</b>	
35		
36	<input type="radio"/> SITE/LOCATION CONDITIONS	
37	ELEVATION _____ m	bar _____ AMBIENT TEMPS: MAX _____ °C MIN _____ °C
38	<input type="radio"/> MIN DESIGN METAL TEMP _____ °C (6.15.8.1)	RELATIVE HUMIDITY: MAX _____ % MIN _____ %
39	COMPRESSOR LOCATION: <input type="radio"/> INDOOR <input type="radio"/> HEATED <input type="radio"/> UNHEATED <input type="radio"/>	AT GRADE LEVEL <input type="radio"/> ELEVATED: _____ m
40	<input type="radio"/> OUTDOOR <input type="radio"/> NO ROOF <input type="radio"/> UNDER ROOF	<input type="radio"/> PARTIAL SIDES <input type="radio"/> PLATFORM: <input type="radio"/> ON-SHORE
41	<input type="radio"/> OFF-SHORE <input type="radio"/> WEATHER PROTECTION REQ.	<input type="radio"/> TROPICALIZATION REQ.
42	<input type="radio"/> WINTERIZATION REQUIRED	
43	UNUSUAL CONDITIONS: <input type="radio"/> CORROSIVES <input type="radio"/> DUST <input type="radio"/> FUMES <input type="radio"/> OTHER	
44		
45	ELECTRICAL CLASSIFICATIONS	
46		HAZARDOUS NON-HAZARDOUS
47	MAIN UNIT <input type="radio"/> CLASS _____ GROUP _____ DIVISION _____	<input type="radio"/>
48	L.O. CONSOLE <input type="radio"/> CLASS _____ GROUP _____ DIVISION _____	<input type="radio"/>
49	CW CONSOLE <input type="radio"/> CLASS _____ GROUP _____ DIVISION _____	<input type="radio"/>
50		
51		