

**CENTRIFUGAL COMPRESSOR
DATA SHEET
SI-UNITS**

PAGE 1 GUS OF 6

JOB NO. 24235600 ITEM NO. _____
PURCH. ORDER NO. _____ DATE _____
INQUIRY NO. _____ BY GRAETZ
REVISION 0 DATE 14.01.98

1	APPLICABLE TO:	☐ PROPOSAL	☒ PURCHASE	☐ AS BUILT	REQUISITION NO.:	_____
2	FOR	WINGAS			UNIT	_____
3	SITE	REHDEN 4			SERIAL NO.	_____
4	SERVICE	ERDGASSPEICHER			NO. REQUIRED	2
5		☒ CONTINUOUS	☐ INTERMITTENT	☐ STANDBY	DRIVER TYPE (3.1.1)	E-Motor (var)
6	MANUFACTURER	MANNESMANN DEMAG			MODEL	06MV4A
7	NOTE: INFORMATION TO BE COMPLETED:	☐ BY PURCHASER			☒ BY MANUFACTURER	
8	OPERATING CONDITIONS					
9	(ALL DATA ON PER UNIT BASIS)					
10	CONDITIONS AT BATTERY LIMITS					
11	☒ GAS HANDLED (ALSO SEE PAGE)					
12	☒ SUCTION VOLUME FLOW	m³/h	2320.	3711.	1855.	3904.
13	☐ WEIGHT FLOW	kg/h				
14	☒ WEIGHT FLOW	kg/h	273708.	437804.	218948.	510948.
15	☒ SUCTION PRESSURE	bar	160.00	160.00	160.00	178.00
16	☒ SUCTION TEMPERATURE	°C	40.0	40.0	40.0	40.0
17	☒ DISCHARGE PRESSURE	bar	199.99	230.00	270.00	229.99
18	☒ DISCHARGE TEMPERATURE	°C				
19	INLET CONDITIONS AT CASING FLANGE					
20	☒ PRESSURE	bar	160.00	160.00	160.00	178.00
21	☒ TEMPERATURE	°C	40.0	40.0	40.0	40.0
22	☒ RELATIVE HUMIDITY	%	0.00	0.00	0.00	0.00
23	☒ MOLECULAR WEIGHT	kg/kmol	16.361	16.361	16.361	16.361
24	☒ COMPRESSIBILITY (Z1)	-	0.8520	0.8520	0.8520	0.8547
25	☒ INLET VOLUME FLOW	m³/h	2320.	3711.	1855.	3904.
26	DISCHARGE CONDITIONS AT CASING FLANGE					
27	☒ PRESSURE	bar	199.99	230.00	270.00	229.99
28	☒ TEMPERATURE	°C	60.4	74.7	89.2	67.0
29	☒ COMPRESSIBILITY (Z2)	-	0.9013	0.9385	0.9828	0.9273
30						
31	☒ POLYTROPIC HEAD	kJ/kg	32.11	54.43	81.95	37.85
32	☒ POLYTROPIC EFFICIENCY	%	77.49	72.91	75.27	61.63
33	☒ N ACC. ASME PTC 10		2.1489	2.2527	2.2314	2.7893
34	☒ k AVG	-	1.7074	1.6819	1.7104	1.6539
35	☒ SPEED	rpm	7552.	10554.	10727.	10092.
36	☒ ESTIMATED SURGE AT ABOVE SPEED	m³/h	see performance curves			
37	☒ POWER REQUIREMENT INTERNAL	KW	3150.	9080.	6622.	8717.
38	☒ MECHANICAL LOSSES	KW	285	314	316	309
39	☒ POWER REQUIREMENT AT DRIVER COUPL	KW	3435	9394 1)	6938 2)	9026
40	☐ GUARANTEE POINT		NEIN	JA	JA	NEIN
41	☐ PERFORMANCE CURVE NUMBER ID. NO. 26773215 BLA		2	2	2	3
42						
43	PROCESS CONTROL:					
44	METHOD:	☒ BYPASS FROM _____ TO _____				
45		☐ ANTISURGE BYPASS: ☐ MANUAL ☒ AUTOMATIC				
46		☐ SUCTION THROTTLING FROM _____ TO _____				
47		☐ SPEED VARIATION FROM _____ TO _____				
48		☐ OTHER: _____				
49	SIGNAL:	☐ SOURCE: _____				
50		☐ TYPE: _____				
51		☐ RANGE: FOR PNEUMATIC CONTROL _____ RPM TO _____ RPM				
52		OTHER: _____				
53	SERVICE:	☒ CONTINUOUS ☐ INTERMITTENT ☐ STANDBY				
54	REMARKS:	1) Garantierte Leistung 9460 kW, Meßtol. nach VDI 2045:				
55		2) Garantierte Leistung 7186 kW, Meßtol. nach VDI 2045:				
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