

GAS COMPRESSOR DATASHEET										 PPI PRESSURE PRODUCTS INDUSTRIES MILTON ROY		DATE	5/4/2011	
										PAGE NO.		1 OF 3		
1	CUSTOMER	IFIC								MODEL NUMBER				
2	USER & SITE	IFIC				PJT. NO.	not specified							
3	INQUIRY NO.	not specified				ITEM NO.	COMPRESSOR							
4	PPI QUOTE NO.	10-065-CP	REV.	3										
5	NO. REQ'D	WORKING	one (1)	STAND-BY	0	TOTAL	one (1)	PREPARED BY :	JDP					
6	CUSTOMER SUPPLIED OPERATION CONDITIONS													
7				NORMAL		MINIMUM		MAXIMUM		ALTERNATE				
8	GAS HANDLED	XENON												
9	MOLECULAR WEIGHT					131.00	(estimated)							
10	SPECIFIED CAPACITY	SLPM			200.0	50.0		100.0						
11		KG/HR			66.3	16.6		33.2						
12														
13	CUSTOMER SPECIFIED SUCTION CONDITIONS													
14	PRESSURE	BARG			10.0	10.0		10.0						
15	TEMPERATURE	C			40	(given)								
16	Cp/Cv	(K1)			1.66	(given)								
17	COMPRESSIBILITY	(Zs)			0.95	(estimated)								
18	CUSTOMER SPECIFIED DISCHARGE CONDITIONS													
19	PRESSURE	BARG			11.0	(given)								
20	TEMPERATURE	C			NOT SPECIFIED	(given)								
21	Cp/Cv	(K2)			1.66	(given)								
22	COMPRESSIBILITY	(Zd)			0.93	(estimated)								
23														
24	COMPRESSOR PERFORMANCE DATA													
25	MODEL NUMBER	2083												
26	1ST STAGE			NORMAL		MINIMUM		MAXIMUM		ALTERNATE				
27	SUCTION PRESSURE	BARG			10.00	9.66		10.34						
28	CAPACITY @ DISCH PRESS	SLPM			200.0	193.0		207.0						
29	ESTIMATED DISCH TEMP (note a)	C			50	54		46						
30	VOLUMETRIC EFFICIENCY	%			79.53%	79.38%		79.67%						
31	OPERATING ROD LOAD	KGf			140	140		140						
32	COMPRESSION RATIO				1.1	1.1		1.1						
33														
34	2ND STAGE													
35	SUCTION PRESSURE	BARG			N/A	N/A		N/A						
36	CAPACITY @ DISCH PRESS	SLPM			N/A	N/A		N/A						
37	ESTIMATED DISCH TEMP (note a)	C			N/A	N/A		N/A						
38	VOLUMETRIC EFFICIENCY	%			N/A	N/A		N/A						
39	OPERATING ROD LOAD	KGf			N/A	N/A		N/A						
40	COMPRESSION RATIO				N/A	N/A		N/A						
41														
42	ADIABATIC BHP	KW			0.0	0.1		0.0						
43	REQUIRED MOTOR POWER	KW			3.7									
44	COOLING WATER REQUIRED (1)	LPM			8									
45	OPERATING SPEED (3)	RPM			345									
46	PISTON SPEED	M/SEC			0.7									
47														
48														
49	note a) temperature before heat exchanger													
50	NOTE : Standard conditions are calculated at 14.7 psia and 60 °F (15 °C); Normal at 1.013 bar A and 0 °C (32 °F)													

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5	NO. REQ'D	WORKING	one (1)		STAND-BY	0	TOTAL	one (1)		PREPARED BY :	JDP			
6	HEAD ASSEMBLY DETAILS													
7			1ST STAGE			2ND STAGE								
8	HEAD CLOSURE TYPE		FLGD & BOLTED											
9	HEAD WORKING PRESSURE	BARG	57											
10	HEAD DESIGN PRESSURE	BARG	68											
11	HEAD DESIGN TEMPERATURE	C	246											
12	DISPLACEMENT / STROKE	CM3	69.15											
13	BORE	MM	38.1											
14	CAVITY DIAMETER	MM	211.14											
15	HEAD COOLING FLUID		WATER											
16	LEAK DETECTION SYSTEM(2)		NOTE (2)											
17	PROCESS HEAD MATERIAL(4)		304 SS											
18	DIAPHRAGM CONSTRUCTION		TRIPLE METAL											
19	PROCESS DIAPH MATERIAL(4)		301 SST											
20	MAIN CLOSURE SEAL(4)		COPPER METAL											
21	SUCTION NOZZLE	IN	1/2" TUBE											
22	DISCHARGE NOZZLE	IN	1/2" TUBE											
23														
24	COMPRESSOR FRAME DETAILS								OTHER					
25	NUMBER OF STAGES/HEADS		1 / 1 PER STG			ELECTRIC MOTOR SPEC.	TYPE	To be determined						
26	FRAME CONFIGURATION		VERTICAL				MFG'R	To be determined						
27	STROKE	MM	63.5				VOLTAGE	220V, 1PH, 50HZ						
28	MAXIMUM ROD LOAD	KGf	680				HAZARD	NON EXPLOSIVE						
29	RATED SPEED	RPM	425			COMP'R LOCATION		INDOOR						
30	MAIN BEARING		TAPERED ROLLER			AREA CLASSIFICATION		NON EXPLOSIVE						
31	CON ROD/ CRANK BEARING		BABBITT JOURNAL			ELECTRICAL POWER		250V, 1ph, 50hz						
32	CROSSHEAD BEARING		NEEDLE			PAINTING COLOR		MANUFACTURER'S STANDARD						
33	CRANKSHAFT MATERIAL		80/55/6 DUCTILE			APPLICABLE CODE		MANUFACTURER'S STANDARD						
34	CONNECTION ROD MATL		80/55/6 DUCTILE			DUTY		CONTINUOUS						
35	CROSSHEAD MATL		ALUMINUM			PULSATION FLUCTUATION		5%						
36	DRIVER METHOD		BELT			TYPE OF APPLICATION		RECYCLE COMPRESSOR						
37	LUBRICATION		FORCED			OVERALL DIMENSIONS (a)		1524 L x	914 W x	1219 H	MM			
38	CRANKSHAFT DIAMETER	MM	38.1			APPROX. WEIGHT (a)		816 KG						
39	WRIST PIN DIAMETER	MM	17.4625			LUBE OIL		ISO 68						
40	WRIST PIN BEARING L10 LIFE	HRS	20,468,022			note (a) these dimensions and weight are only preliminary and may not be used for construction purposes.								
41	DESIGN STANDARD API-618 MODIFIED													
42	NOTES													
43	1.)	total requirement for single stage compressor. Cooling water requirement for aftercooler given elsewhere.												
44	2.)	the leak detection system is fully integrated and designed to detect both diaphragm leakage and head seal leakage.												
45	3.)	actual operating speed may vary in order to achieve guaranteed flow rate.												
46	4.)	The materials of construction given in this quotation are for proposal purposes only.												
47	PPI may make suggestions for a material to user with a specific media. These suggestions will be based on													
48	technical compatibility resources both through associations and manufacturers. PPI does not guarantee the material													
49	to be compatible with the specific media, this is the responsibility of the user. Users must test under their own													
50	operating conditions to determine the suitability of any materials in a particular application.													

GAS COMPRESSOR DATASHEET



PPI
PRESSURE PRODUCTS INDUSTRIES
MILTON ROY

DATE

5/4/2011

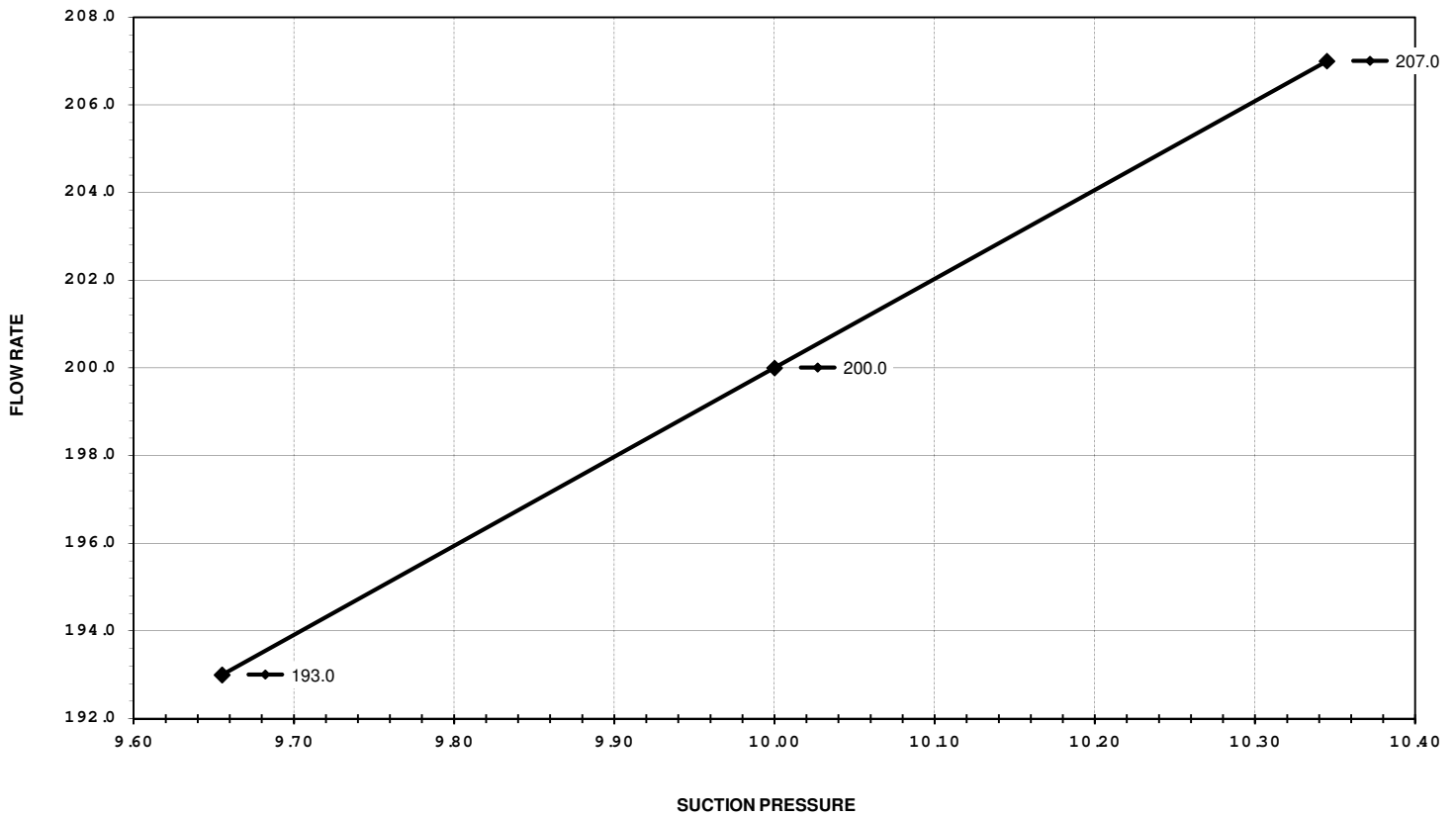
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PERFORMANCE CURVE

DISCHARGE PRESSURE 11 BARG FLOW RATE SLPM
GAS HANDLED XENON SUCTION PRESSURE BARG
COMPRESSOR SPEED 345



NOTE: NORMAL CONDITION FLOW POINT IS THE CERTIFIED POINT TO WHICH PPI GUARANTEES THE COMPRESSOR PERFORMANCE. MINIMUM AND MAXIMUM FLOW POINTS ARE FOR REFERENCE ONLY.

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