



Pump Division

Model: HPX

Size: 6HPX12C PUMP

Serial No.: 05RLCB0229701001/02

Contractor: LINDE BOC PROCESS PLANTS LLC

End User: GIANT INDUSTRIES, INC.

Location; YORKTOWN, VA

Service: STRIPPER BOTTOMS / REBOILER FEED PUMP

Customer P.O. No.: PQ7053748

Item No.: G-544A/B

*USER INSTRUCTIONS
INSTALLATION, OPERATION, MAINTENANCE*

Shop Order No.: RLCB02297
FPD Order No.: 076-05613

Los Angeles, California

Witness

05BLCB0229701001

Impeller Pattern	6HPX12C-1-1-3
Maximum Diameter (in.)	12.7500
Rated Diameter (in.)	11.6200
Minimum Diameter (in.)	10.2500



V7.0

Shop order no.	RLCB02297
Serial no.	05RLCB0229701001
Size	6HPX12C
Type	HPX
Number of stages	1
C _v	886.75

Customer	Linde BOC Process Plant LLC
Contractor	End User: Giant Industries, Inc.
Purchase order	PQ7053748
Item no.	G-544A
Date	12/5/2005



TEST DATA POINTS

	1	2	3	4	5	6	7	8	9	10
Speed (RPM)	3572.0	3574.0	3579.0	3582.0	3583.0	-----	-----	-----	-----	-----
Diff. pressure (psid)	149.72	200.49	227.61	236.99	242.23	-----	-----	-----	-----	-----
Diff. head (feet)	346.55	464.06	526.84	548.55	560.68	-----	-----	-----	-----	-----
Velocity head (feet)	12.53	6.84	2.72	1.58	0.56	-----	-----	-----	-----	-----
Total diff. head (feet)	359.08	470.91	529.56	550.13	561.24	-----	-----	-----	-----	-----
Barometric Press. ("Hg)	29.99	29.99	29.99	29.99	29.99	-----	-----	-----	-----	-----
Suction Pressure (psi)	4.64	-1.10	-6.30	-6.40	-6.40	-----	-----	-----	-----	-----
Suction temp. (°F)	74.0	77.0	79.0	80.0	81.0	-----	-----	-----	-----	-----
Suction S. G.	0.9980	0.9980	0.9980	0.9980	0.9980	-----	-----	-----	-----	-----
Venturi pressure (psid)	9.59	5.24	2.08	1.21	0.43	-----	-----	-----	-----	-----
Temp. correction factor	1.0005	1.0008	1.0011	1.0012	1.0013	-----	-----	-----	-----	-----
Flow (GPM)	2747.38	2030.54	1280.26	976.60	582.25	-----	-----	-----	-----	-----
NPSH (feet)	43.86	30.47	18.37	18.11	18.06	-----	-----	-----	-----	-----
Vel. head suction (feet)	1.95	1.06	0.42	0.25	0.09	-----	-----	-----	-----	-----
Elevation Head (feet)	0.00	0.00	0.00	0.00	0.00	-----	-----	-----	-----	-----
NPSHR (feet)	45.81	31.54	18.80	18.35	18.15	-----	-----	-----	-----	-----

PERFORMANCE AT RATED CONDITIONS OF 3540 RPM & 0.6200 SP. GR.

	1	2	3	4	5	6	7	8	9	10
Flow (GPM)	2722.77	2011.22	1266.31	965.14	575.27	-----	-----	-----	-----	-----
Total diff. head (feet)	352.67	461.99	518.08	537.30	547.85	-----	-----	-----	-----	-----
NPSHR (feet)	44.99	30.94	18.39	17.93	17.72	-----	-----	-----	-----	-----









