SERFILCO®

SERIES VGRP VERTICAL CENTRIFUGAL FIBERGLASS PUMP

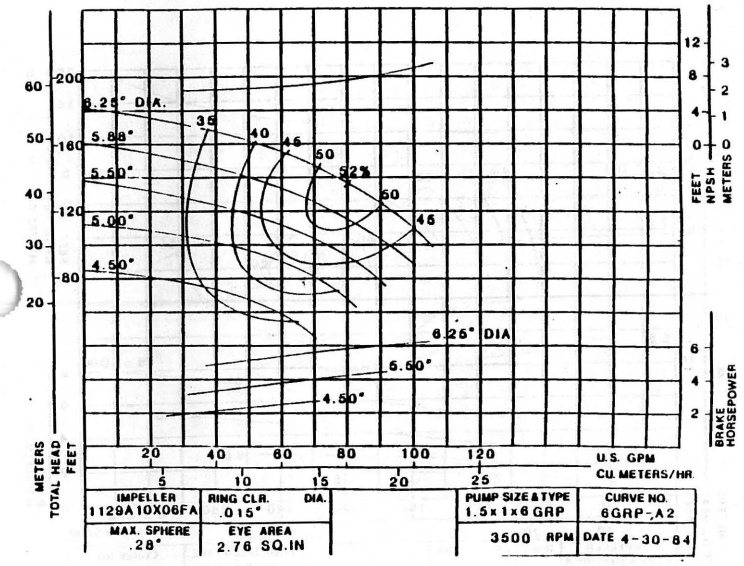
TECHNICAL BULLETIN TP-109

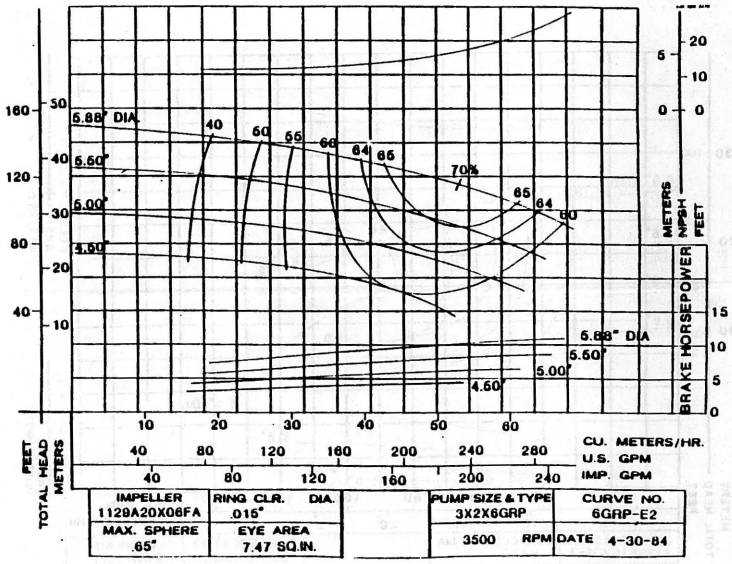
The vertical GRP is a fiberglass vertical immersion sump pump for wet pit applications in chemical waste handling, effluent handling and liquid transfer operations wherever the broad corrosion resistance of the proprietary GRP material is required. The pump shaft is 316 stainless steel or as required (alloy 20, hastelloy B or C, titanium) depending on the corrosive characteristics of the liquid.

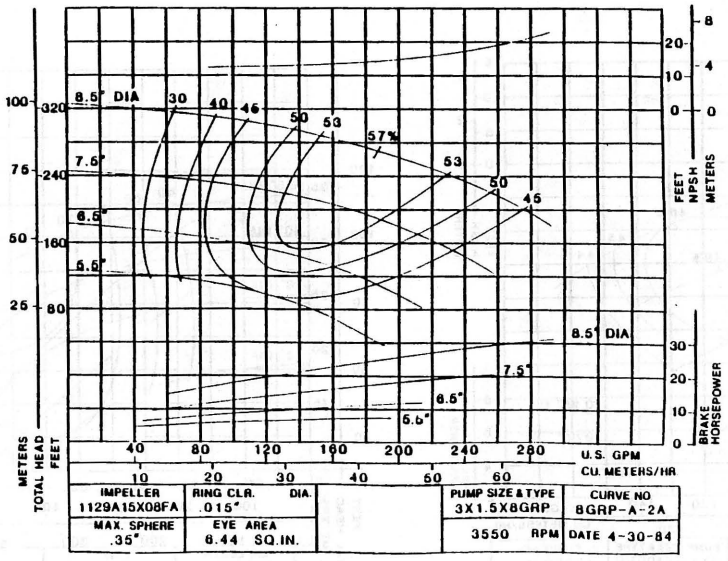
The VGRP pump is furnished with vertical P-base motors which meet NEMA Standard MGI-18.620, the same motors supplied with our VOC and ESP pumps. The high thrust capacity of this motor eliminates the need for an external thrust bearing; if desired, however, an optional thrust bearing design incorporating a flexible coupling is available.

STANDARD CURVES 3600 RPM 60 HERTZ

NOTE: Curves are based on discharge at casing. Refer to Pages 1 & 2 before sizing pump and motor.

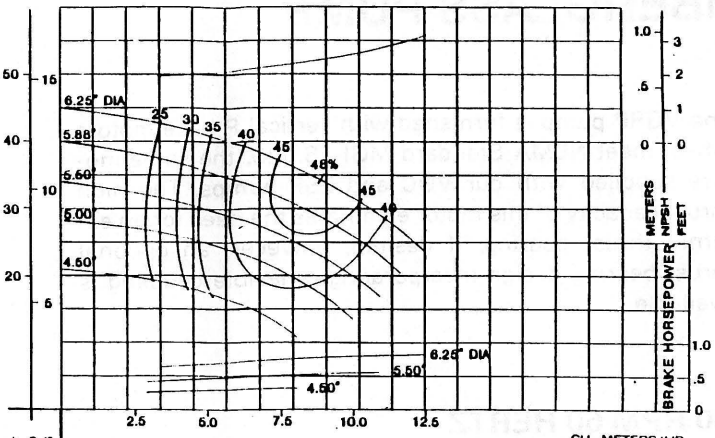




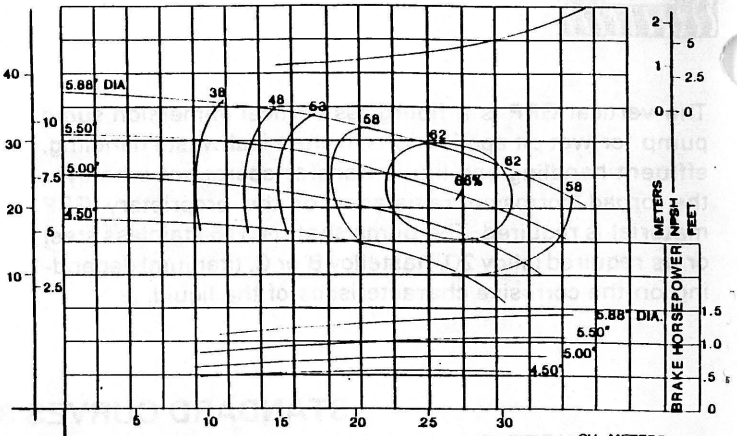


STANDARD CURVES 1800 RPM 60 HERTZ

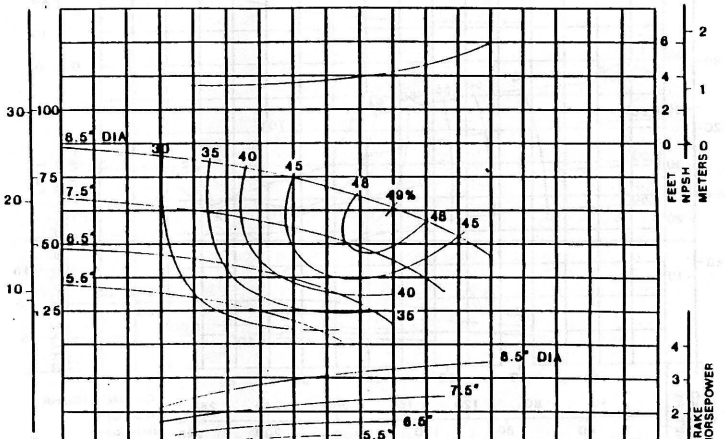
NOTE: Curves are based on discharge at casing.



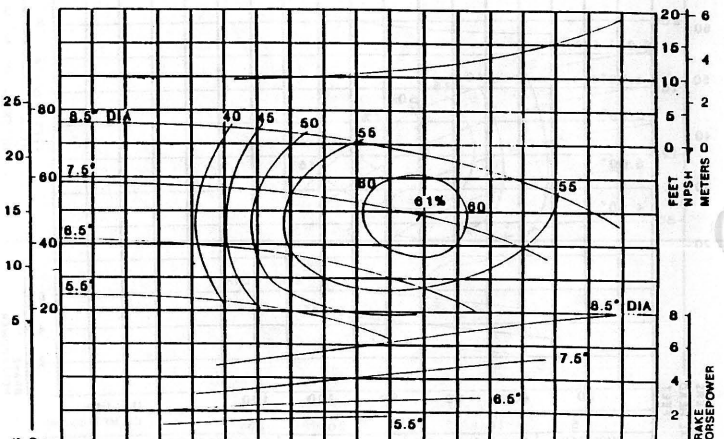
IMPELLER	RING CLR. DIA.		PUMP SIZE & TYPE	CURVE NO.
1129A10X06FA	.015"		1.5X1X6GRP	6GRP-B2
MAX. SPHERE	EYE AREA		1750 RPM	DATE 4-30-84
.28"	2.76 SQ.IN.			



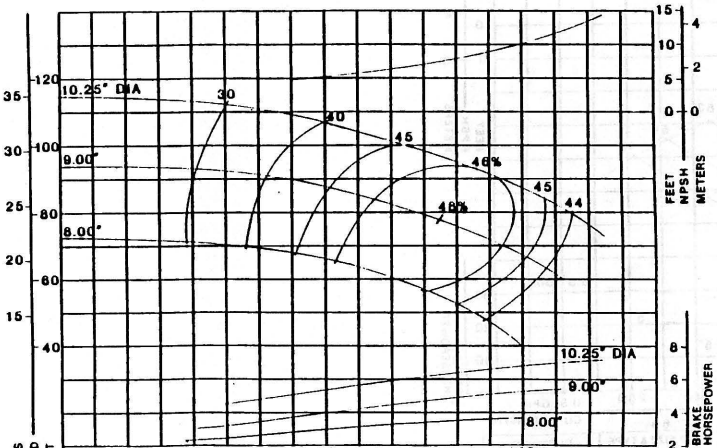
IMPELLER	RING CLR. DIA.		PUMP SIZE & TYPE	CURVE NO.
1129A20X06FA	.015"		3X2X6GRP	6GRP-F2
MAX. SPHERE	EYE AREA		1750 RPM	DATE 4-30-84
.65"	7.47 SQ.IN.			



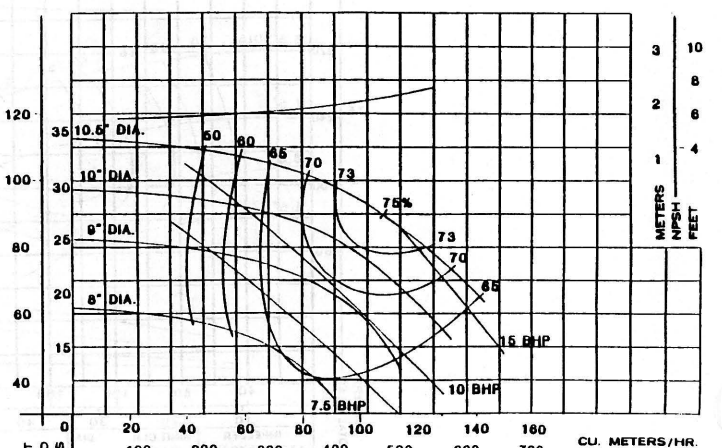
IMPELLER	RING CLR. DIA.		PUMP SIZE & TYPE	CURVE NO.
1129A15X08FA	.015"		3X1.5X8GRP	8GRP-B1
MAX. SPHERE	EYE AREA		1750 RPM	DATE 4-30-84
.35"	6.44 SQ.IN.			



IMPELLER	RING CLR. DIA.		PUMP SIZE & TYPE	CURVE NO.
1129A30X08FA	.015"		4X3X8GRP	8GRP-F
MAX. SPHERE	EYE AREA		1750 RPM	DATE 4-30-84
.72"	9.7 SQ.IN.			

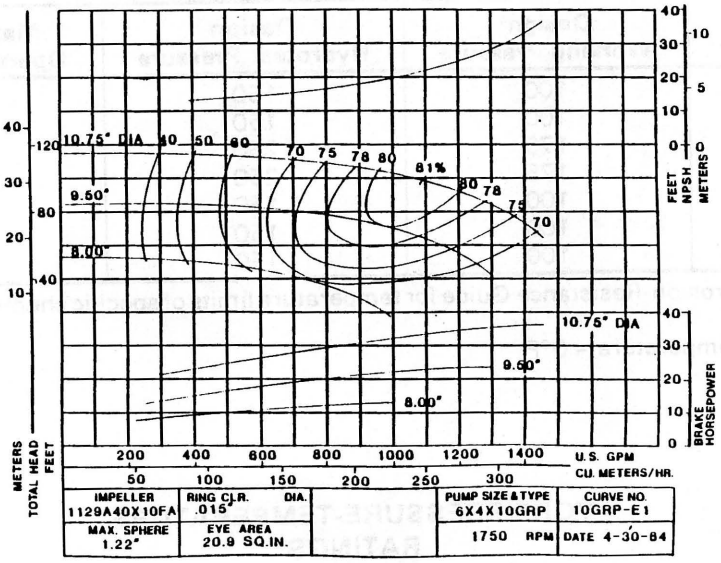


IMPELLER	RING CLR. DIA.		PUMP SIZE & TYPE	CURVE NO.
1129A15X10FA	.015"		3X1.5X10GRP	10GRP-A-1
MAX. SPHERE	EYE AREA		1750 RPM	DATE 4-30-84
.41"	7.3 SQ.IN.			

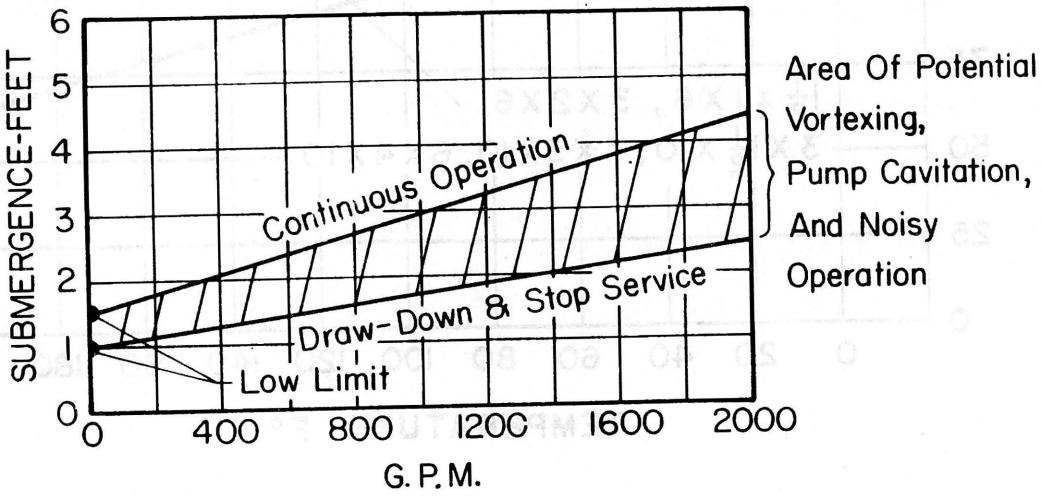


IMPELLER	CLR.		PUMP SIZE & TYPE	CURVE NO.
1129A30X10FA	.015"		4X3X10GRP	10GRP-C-1
MAX. SPHERE	EYE AREA		1750 RPM	DATE 9-12-83
.59"	12.6 SQ.IN.			

STANDARD CURVES 1800 RPM 60 HERTZ



WARNING: Vibration and vortexing will occur if Draw Down & Stop Service Curve is used for other than what is intended



VGRP Line
Minimum Submergence
(Measured From Bottom of Strainer)

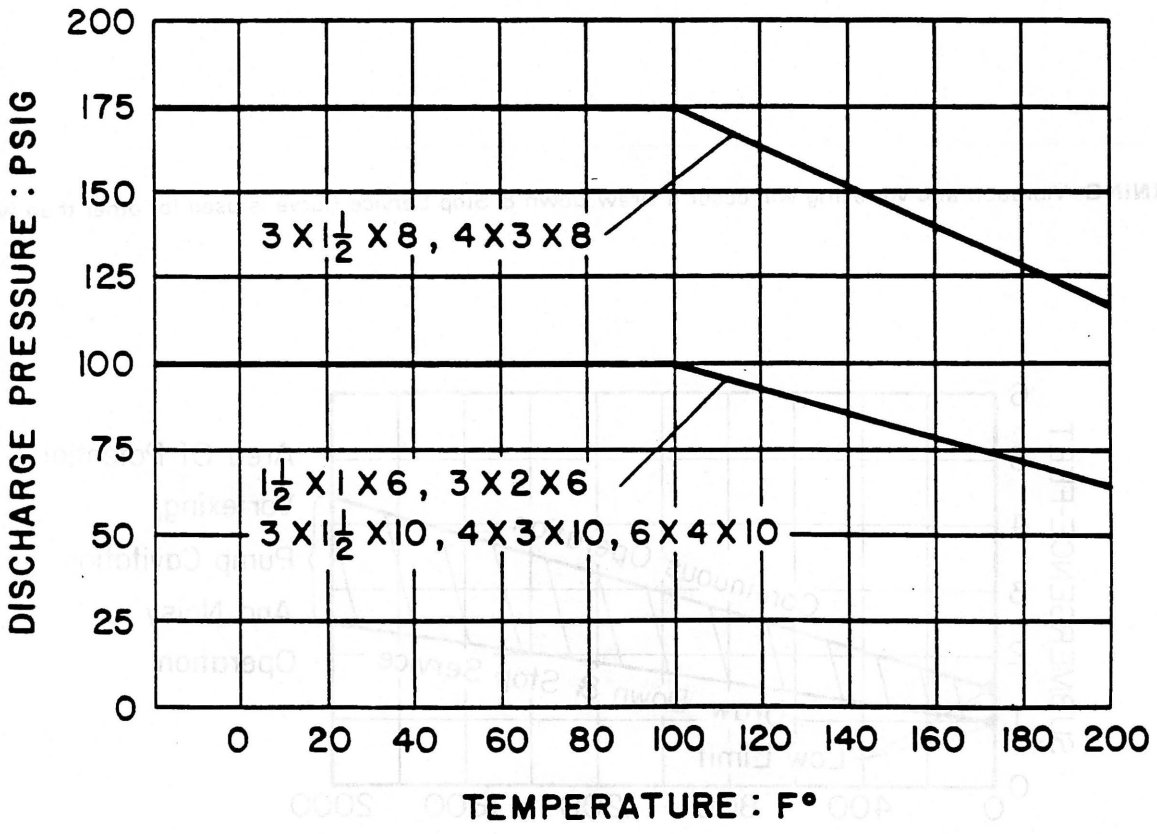
VGRP
VERTICAL FIBERGLASS
SUMP PUMPS

PRESSURE AND TEMPERATURE RATINGS

Pump Size	Design[1] Working Pressure	Design Hydrotest Pressure	Maximum [1,2] Operating Temp.
1½x1x6	100	150	↑
3x2x6	100	150	
3x1½x8	175	250	
4x3x8	175	250	200°F
3x1½x10	100	150	
4x3x10	100	150	
6x4x10	100	150	↓

1. Refer to Corrosion-Resistance Guide for temperature limits of specific chemicals, and chart below.
2. Minimum temperature = 0°F.

VGRP PRESSURE-TEMPERATURE RATINGS



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