

C D S W

G-R Hard Iron Fitted Basic Pump

Self Priming Centrifugal Pump

Model T6A71S-B

Size 6" x 6"



VARIOUS PATENTS APPLY



PUMP SPECIFICATIONS

Size: 6" x 6" (152 mm x 152 mm) NPT - Female.**Casing:** Gray Iron No. 30.

Maximum Operating Pressure 79 psi (545 kPa).*

Semi-Open Type, Two Vane Impeller: G-R Hard Iron.

Handles 3" (76,2 mm) Diameter Spherical Solids.

Impeller Shaft: Alloy Steel No. 4150.**Shaft Sleeve:** Alloy Steel No. 4130.**Replaceable Wear Plate:** Hardened Alloy Steel.**Removable Adjustable Cover Plate:** Gray Iron No. 30; 62 lbs. (28 kg).**Flap Valve:** Neoprene w/Nylon and Steel Reinforcing.**Seal Plate:** G-R Hard Iron.**Bearing Housing:** Gray Iron No. 30.**Radial Bearing:** Open Single Row Ball.**Thrust Bearing:** Open Double Row Ball.**Bearing and Seal Cavity Lubrication:** SAE No. 30 Non-Detergent Oil.**Flanges:** 125# Gray Iron No. 30.**Gaskets:** Buna-N, Compressed Synthetic Fibers, PTFE, Vegetable Fiber, Cork, and Rubber.**O-Rings:** Buna-N.**Hardware:** Standard Plated Steel.**Brass Pressure Relief Valve.****Bearing and Seal Cavity Oil Level Sight Gauges.****Optional Equipment:** Metal Bellows Seal. Automatic Air

Release Valve. 120V/240V Casing Heater. High Pump

Temperature Shutdown Kit. G-R Hard Iron Casing.

Self-Cleaning Wear Plate.

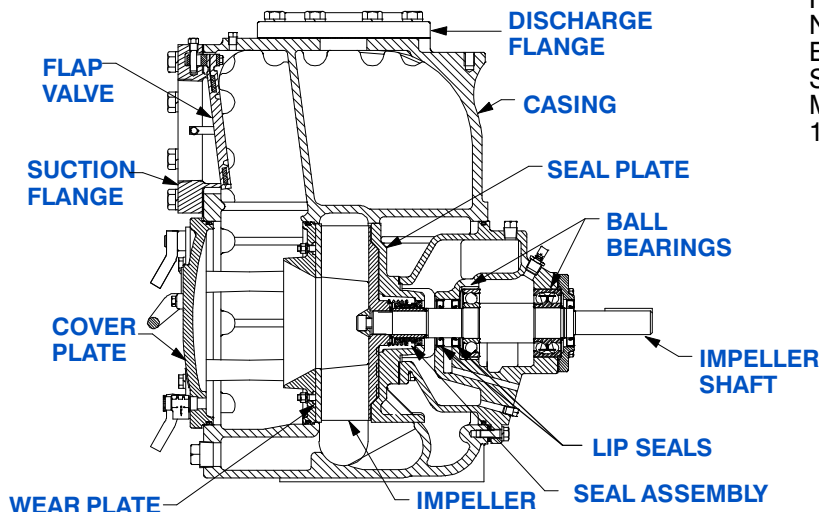
Gray Iron No. 30 Suction and Discharge Spool Flanges:

6" ASA (**Specify Model T6A71S-B /F**).150 mm DIN 2527 (PN16) (**Specify Model T6A71S-B /FM**).*Consult Factory for Applications Exceeding
Maximum Pressure and/or Temperature Indicated.

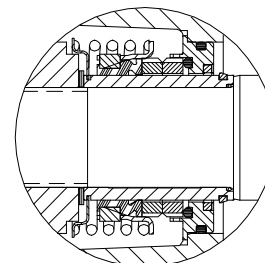
Shown with Optional Suction & Discharge Spool Flanges (Available in ASA or DIN Standard Sizes).

SEAL SPECIFICATIONS

Cartridge Type, Mechanical, Oil-Lubricated, Double Floating, Self-Aligning. Silicon Carbide Rotating and Stationary Faces. Stainless Steel No. 316 Stationary Seat. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Stainless Steel No. 18-8 Cage and Spring. Maximum Temperature of Liquid Pumped, 160°F (71°C).*



SEAL DETAIL



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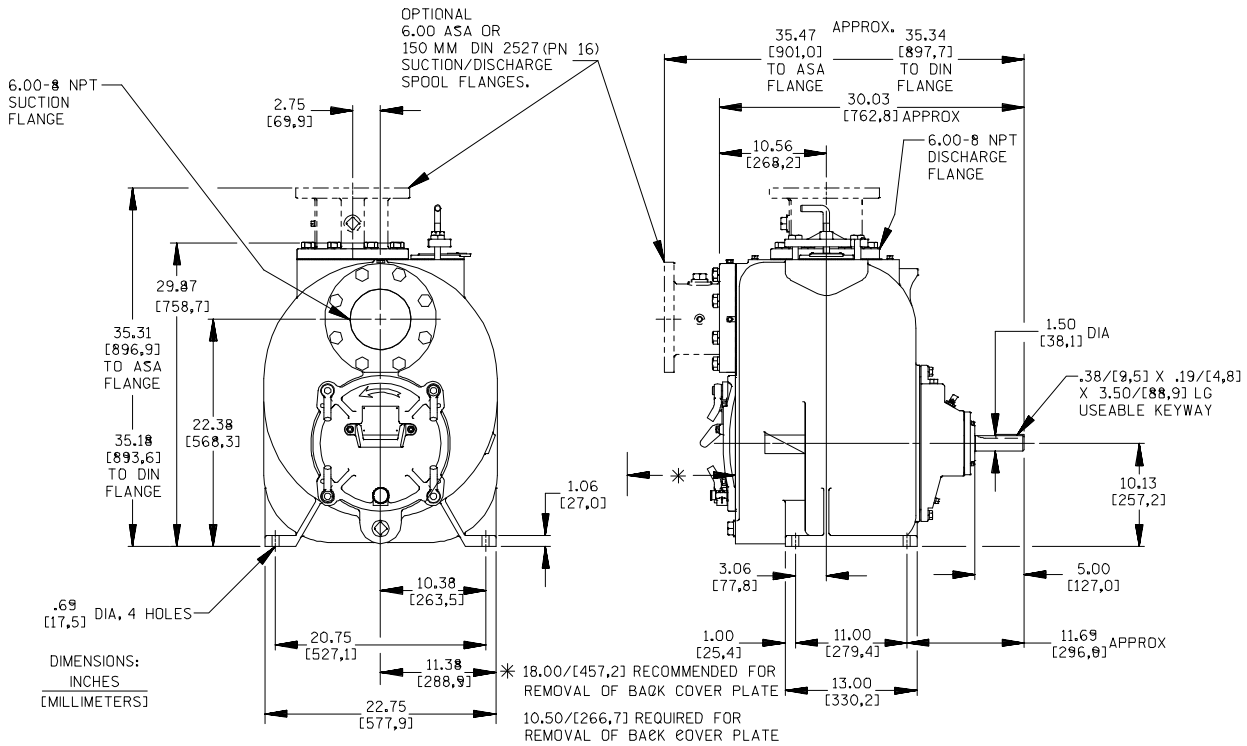
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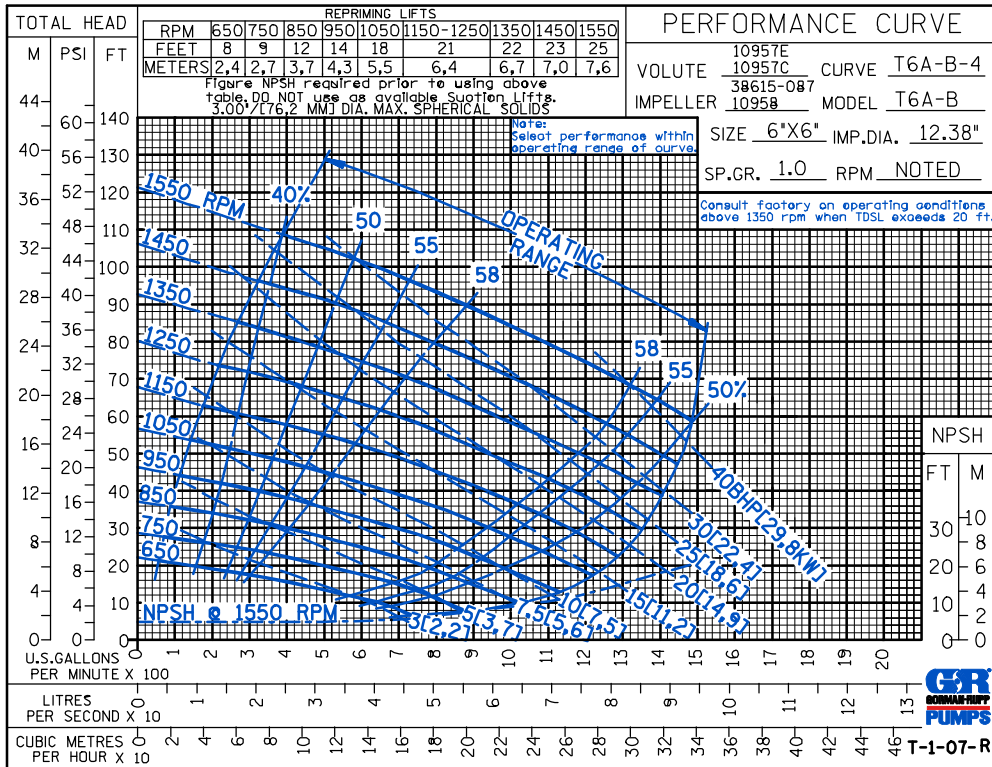
SECTION 55, PAGE 2240

APPROXIMATE DIMENSIONS and WEIGHTS

NET WEIGHT: 865 LBS. (392 KG.)*
SHIPPING WEIGHT: 920 LBS. (417 KG.)*
EXPORT CRATE: 32.5 CU. FT. (0.92 CU. M.)
***ADD 25 LBS. (11,3 KG.) W/EACH SPOOL FLANGE**



OPTIONAL ASA OR DIN STANDARD SUCTION & DISCHARGE SPOOL FLANGES AVAILABLE



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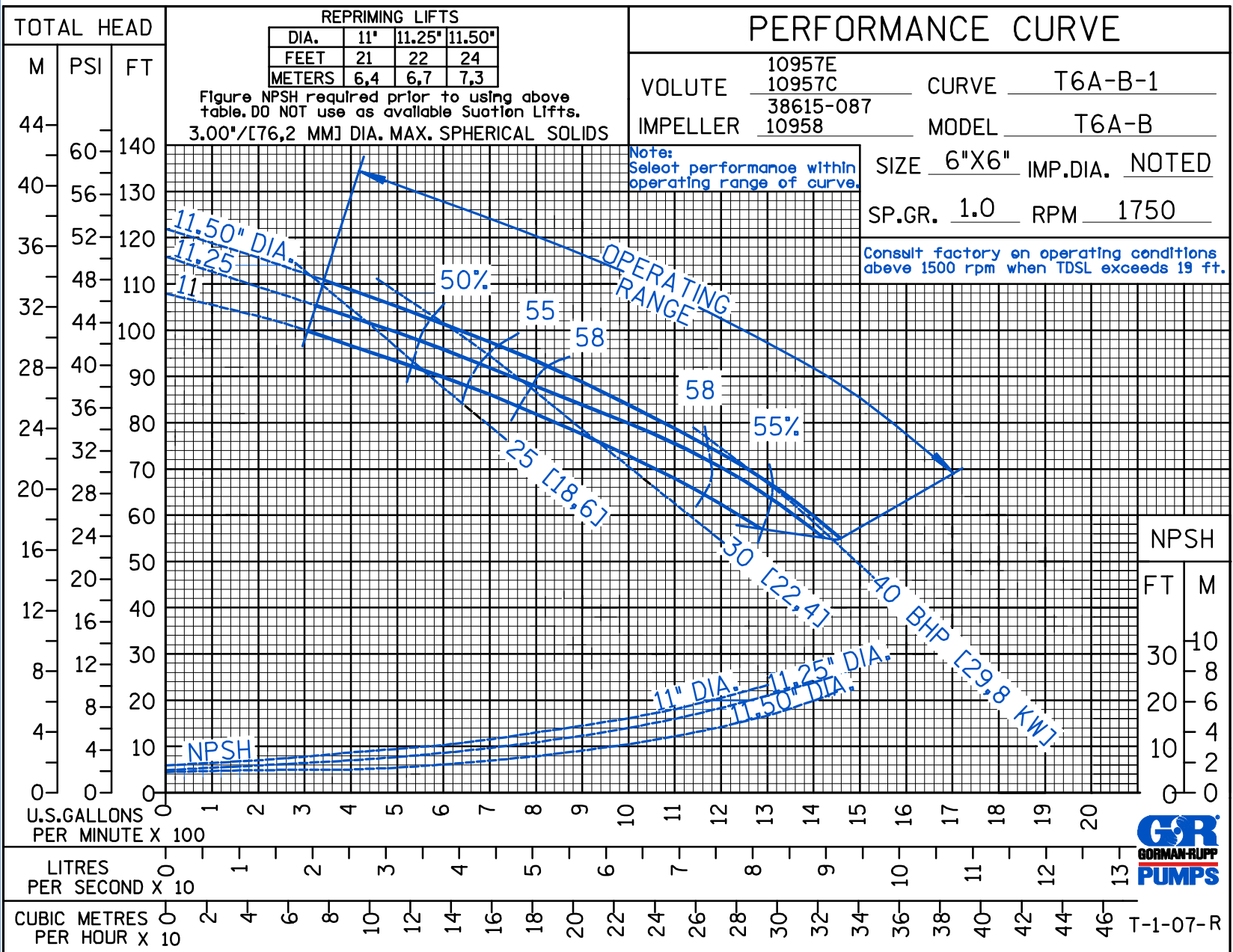


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Sec. 55

PAGE 2245.1
 FEBRUARY 2007



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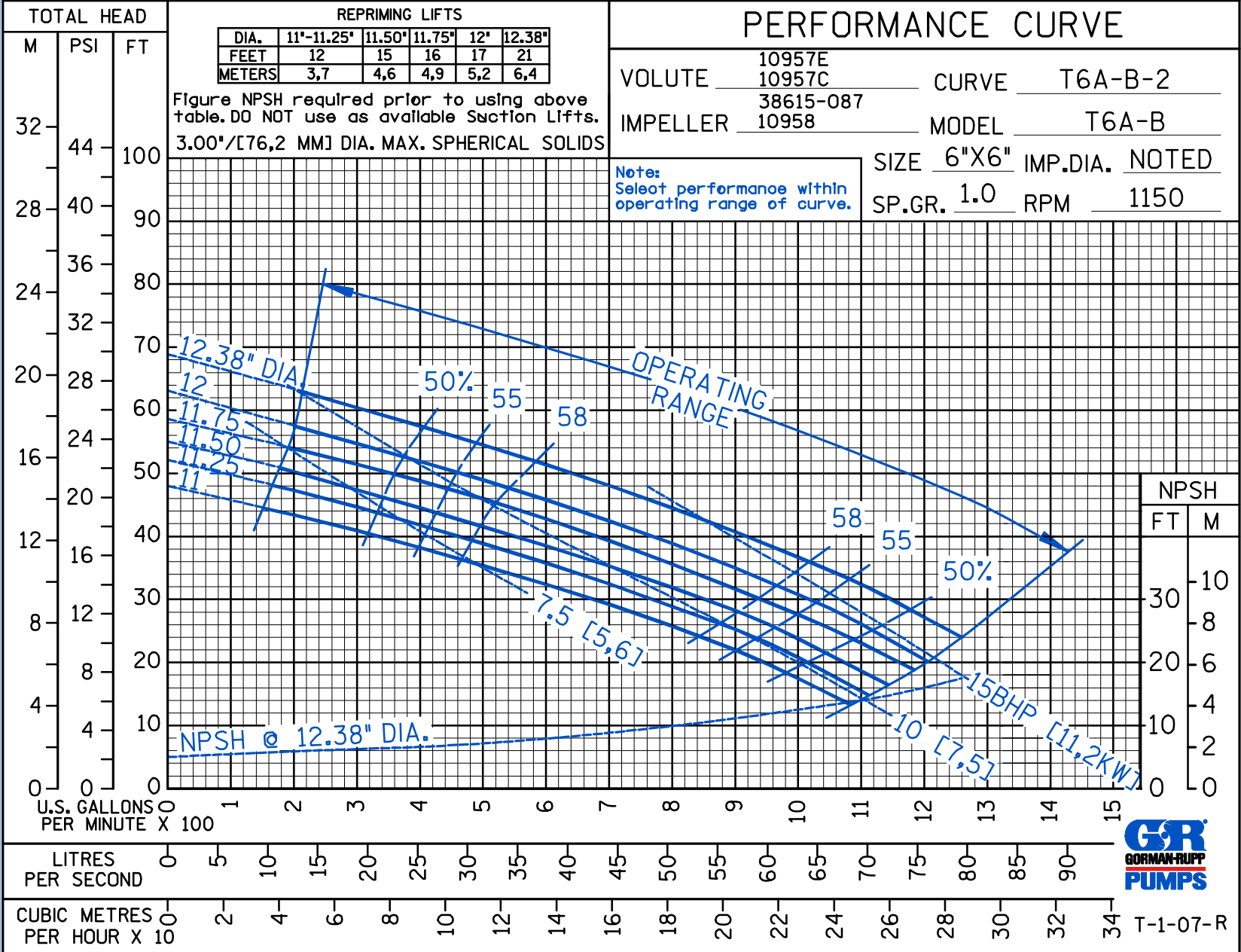
PERFORMANCE CURVE

VOLUTE 10957E
 10957C CURVE T6A-B-2
 38615-087
 IMPELLER 10958 MODEL T6A-B
 SIZE 6"X6" IMP.DIA. NOTED
 SP.GR. 1.0 RPM 1150

REPRIMING LIFTS					
DIA.	11'-11.25'	11.50'	11.75'	12'	12.38"
FEET	12	15	16	17	21
METERS	3,7	4,6	4,9	5,2	6,4

Figure NPSH required prior to using above table. DO NOT use as available Suction Lifts.
 3.00"/[76,2 MM] DIA. MAX. SPHERICAL SOLIDS

Note:
 Select performance within operating range of curve.



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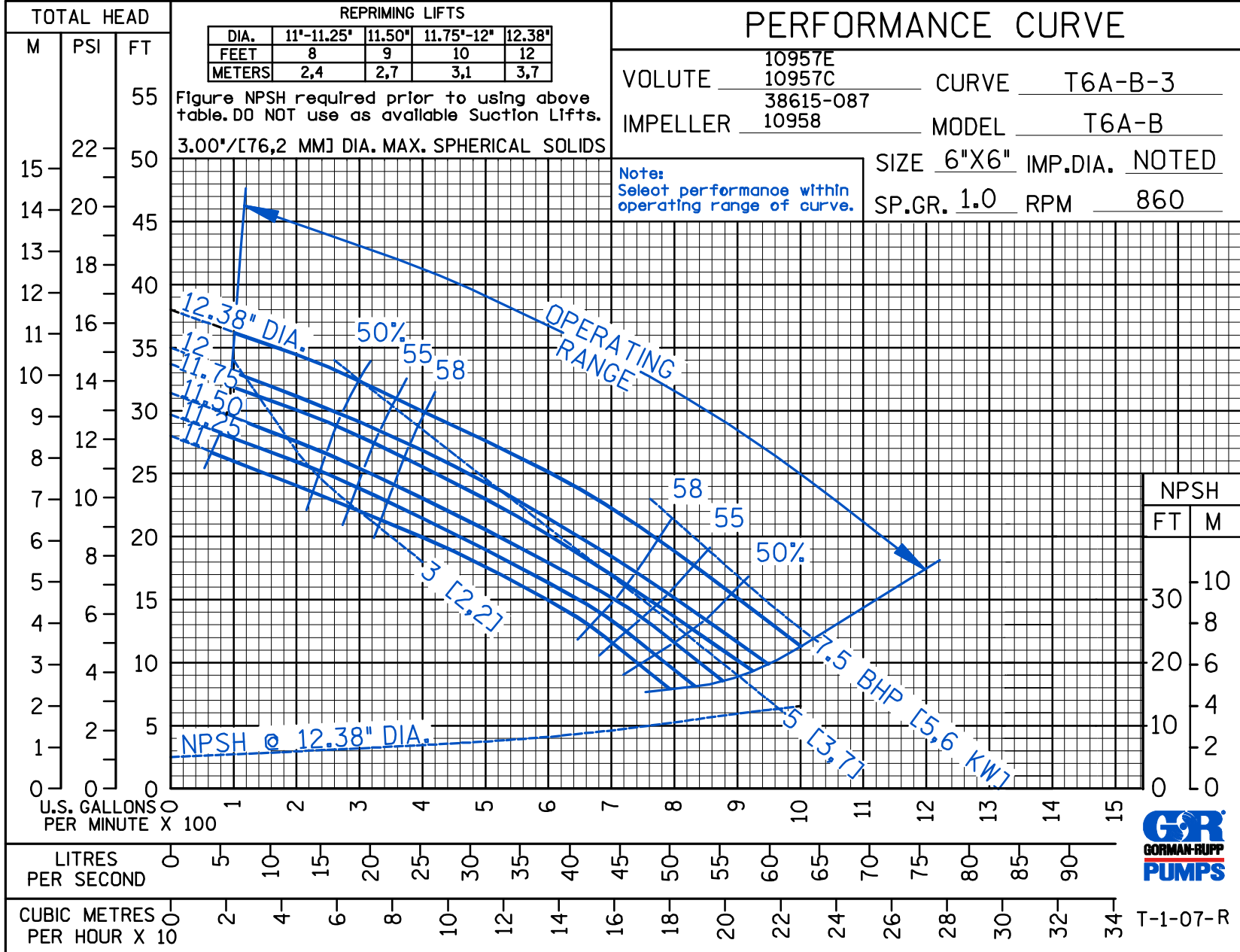


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Sec. 55

PAGE 2245.3
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PERFORMANCE CURVE

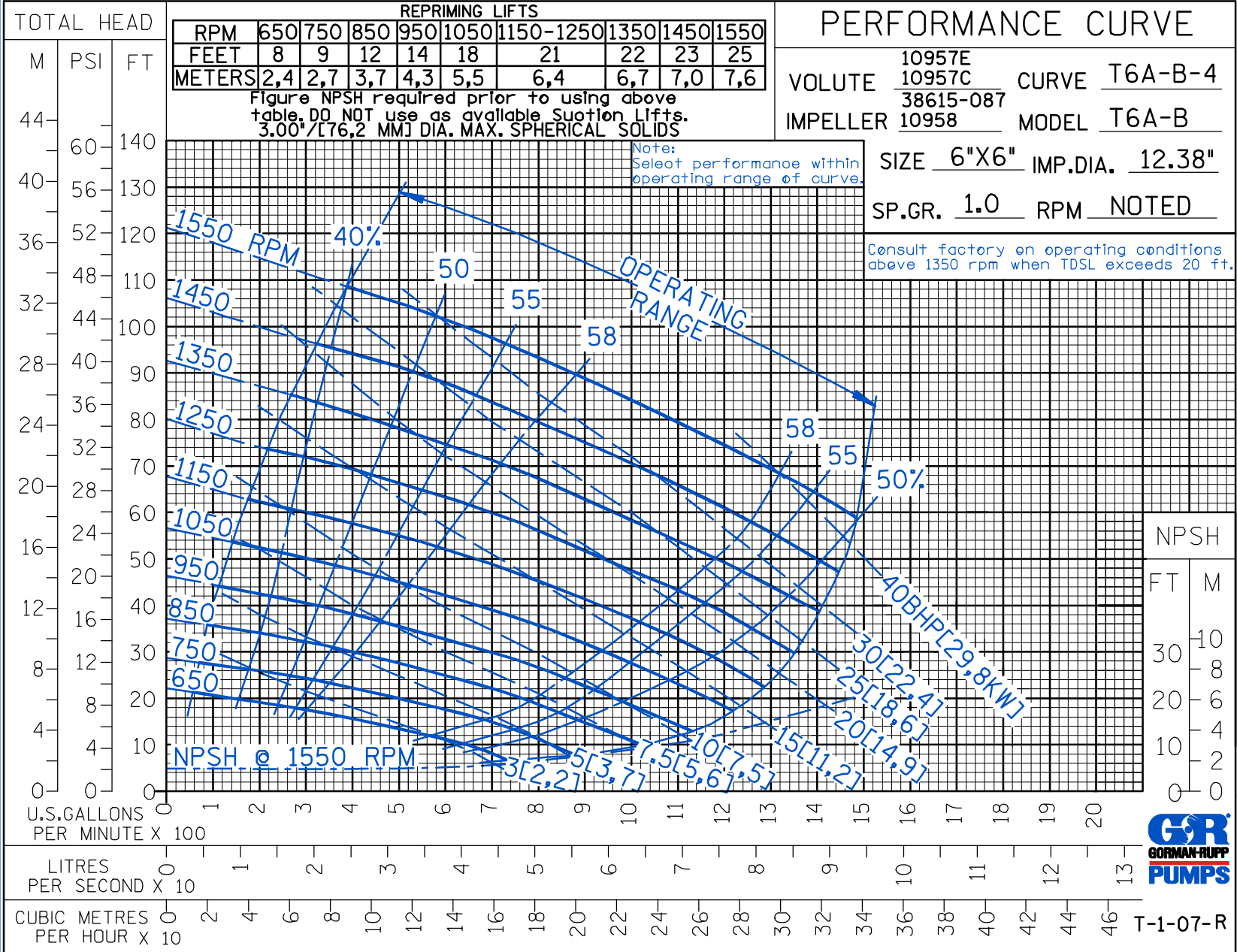
VOLUTE 10957E
10957C
38615-087
IMPELLER 10958
MODEL T6A-B-4
T6A-B
SIZE 6"X6" IMP.DIA. 12.38"
SP.GR. 1.0 RPM NOTED

Consult factory on operating conditions above 1350 rpm when TDSL exceeds 20 ft.

REPRIMING LIFTS									
RPM	650	750	850	950	1050	1150-1250	1350	1450	1550
FEET	8	9	12	14	18	21	22	23	25
METERS	2,4	2,7	3,7	4,3	5,5	6,4	6,7	7,0	7,6

Figure NPSH required prior to using above table. DO NOT use as available Suction Lifts. 3.00"/[76,2 MM] DIA. MAX. SPHERICAL SOLIDS

Note: Select performance within operating range of curve.



NPSH

FT M

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30 20 6

10 2

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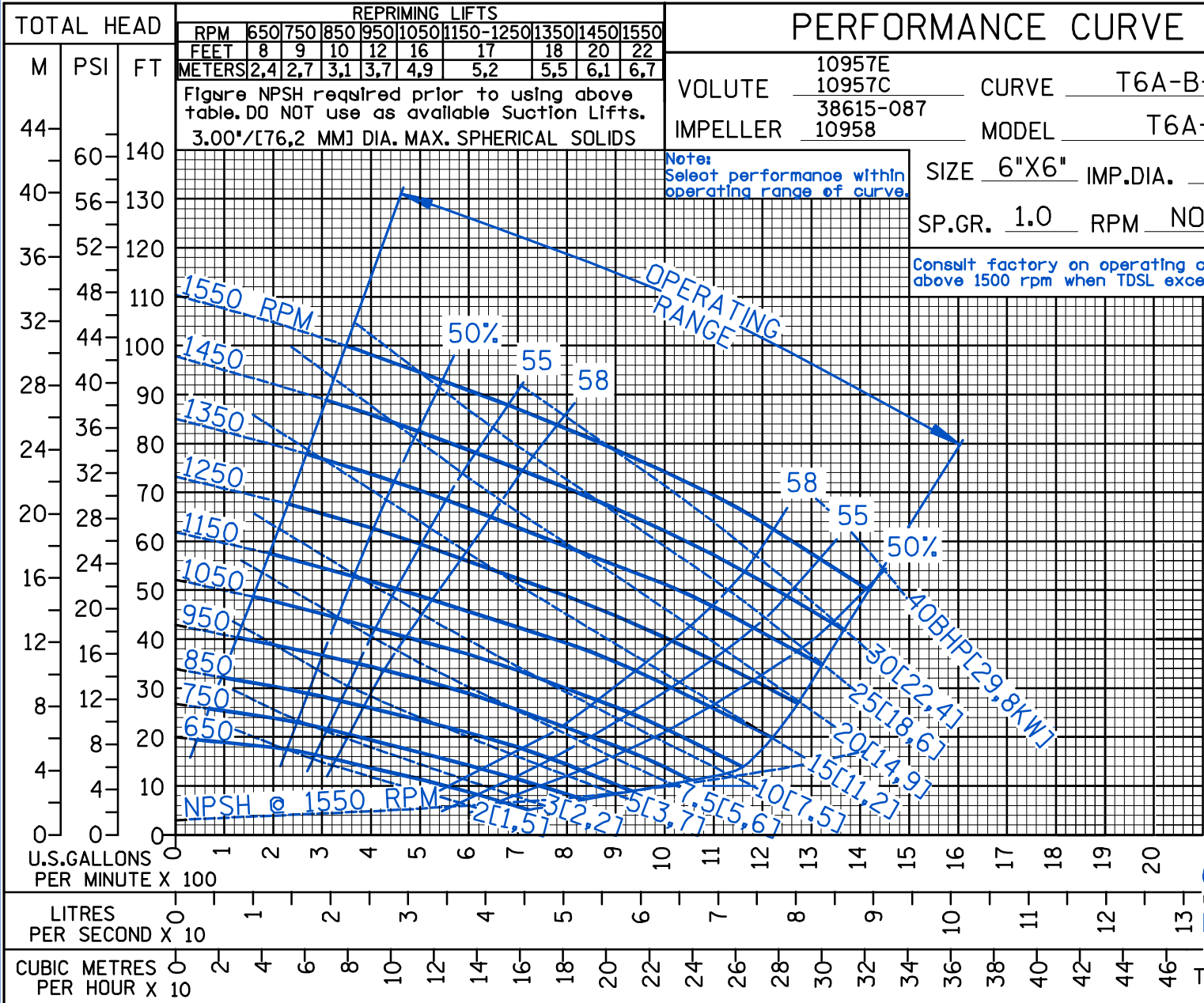
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PERFORMANCE CURVE

VOLUTE	10957E 10957C	CURVE	T6A-B-5
IMPELLER	38615-087 10958	MODEL	T6A-B
SIZE 6"X6"		IMP.DIA. 12"	
SP.GR. 1.0		RPM NOTED	
Consult factory on operating conditions above 1500 rpm when TDSL exceeds 19 ft.			

REPRIMING LIFTS										
RPM	650	750	850	950	1050	1150-1250	1350	1450	1550	
FEET	8	9	10	12	16	17	18	20	22	
METERS	2,4	2,7	3,1	3,7	4,9	5,2	5,5	6,1	6,7	

Figure NPSH required prior to using above table. DO NOT use as available Suction Lifts.
3.00"/[76,2 MM] DIA. MAX. SPHERICAL SOLIDS



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PERFORMANCE CURVE

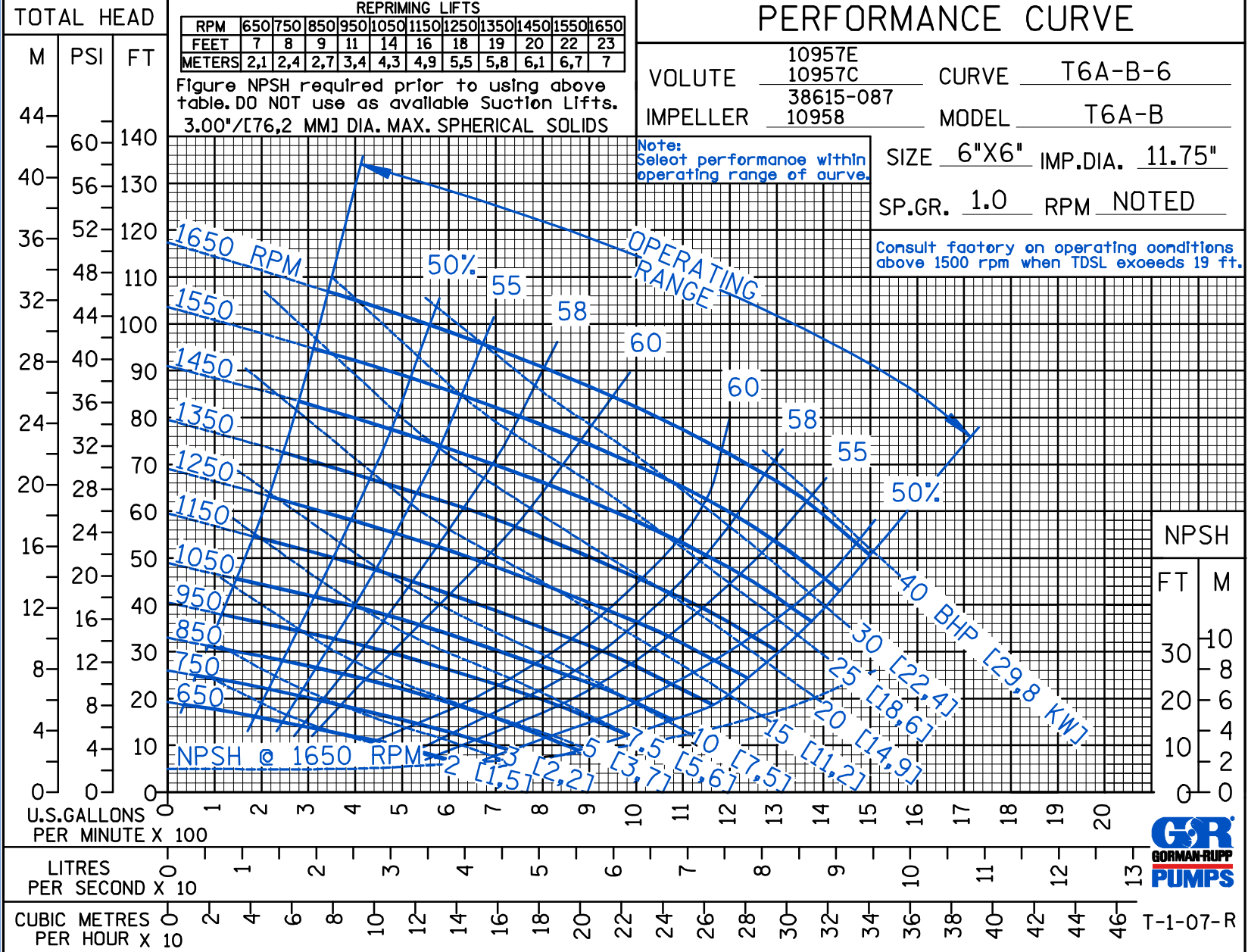
VOLUTE 10957E
10957C CURVE T6A-B-6
IMPELLER 38615-087
10958 MODEL T6A-B
SIZE 6"X6" IMP.DIA. 11.75"
SP.GR. 1.0 RPM NOTED

Consult factory on operating conditions above 1500 rpm when TDSL exceeds 19 ft.

Note:
Select performance within operating range of curve.

REPRIMING LIFTS												
RPM	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	
FEET	7	8	9	11	14	16	18	19	20	22	23	
METERS	2,1	2,4	2,7	3,4	4,3	4,9	5,5	5,8	6,1	6,7	7	

Figure NPSH required prior to using above table. DO NOT use as available Suction Lifts.
3.00"/[76,2 MM] DIA. MAX. SPHERICAL SOLIDS



NPSH
FT M
10 8 6 4 2 0
30 20 10 0
40 30 20 10 0



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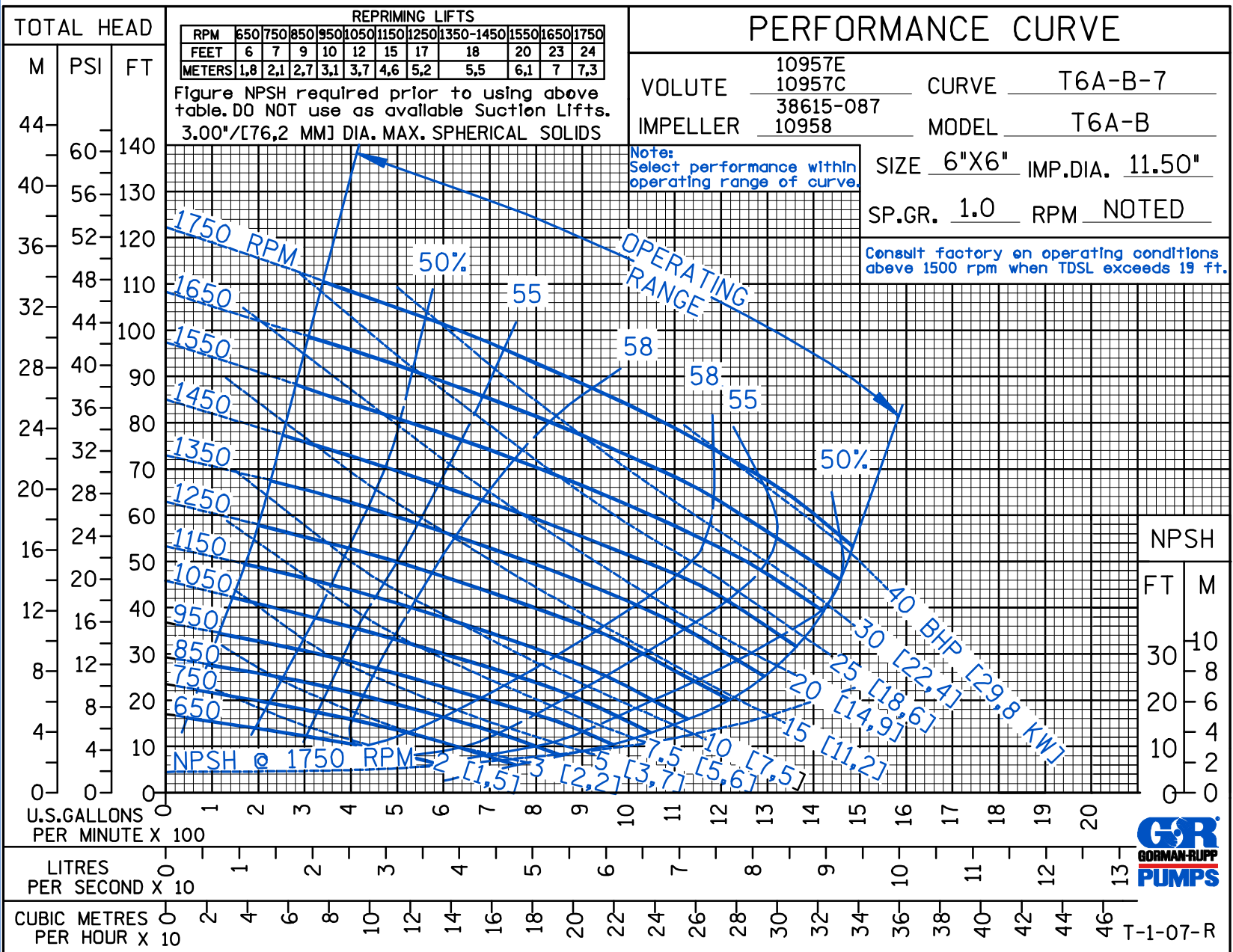
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Sec. 55

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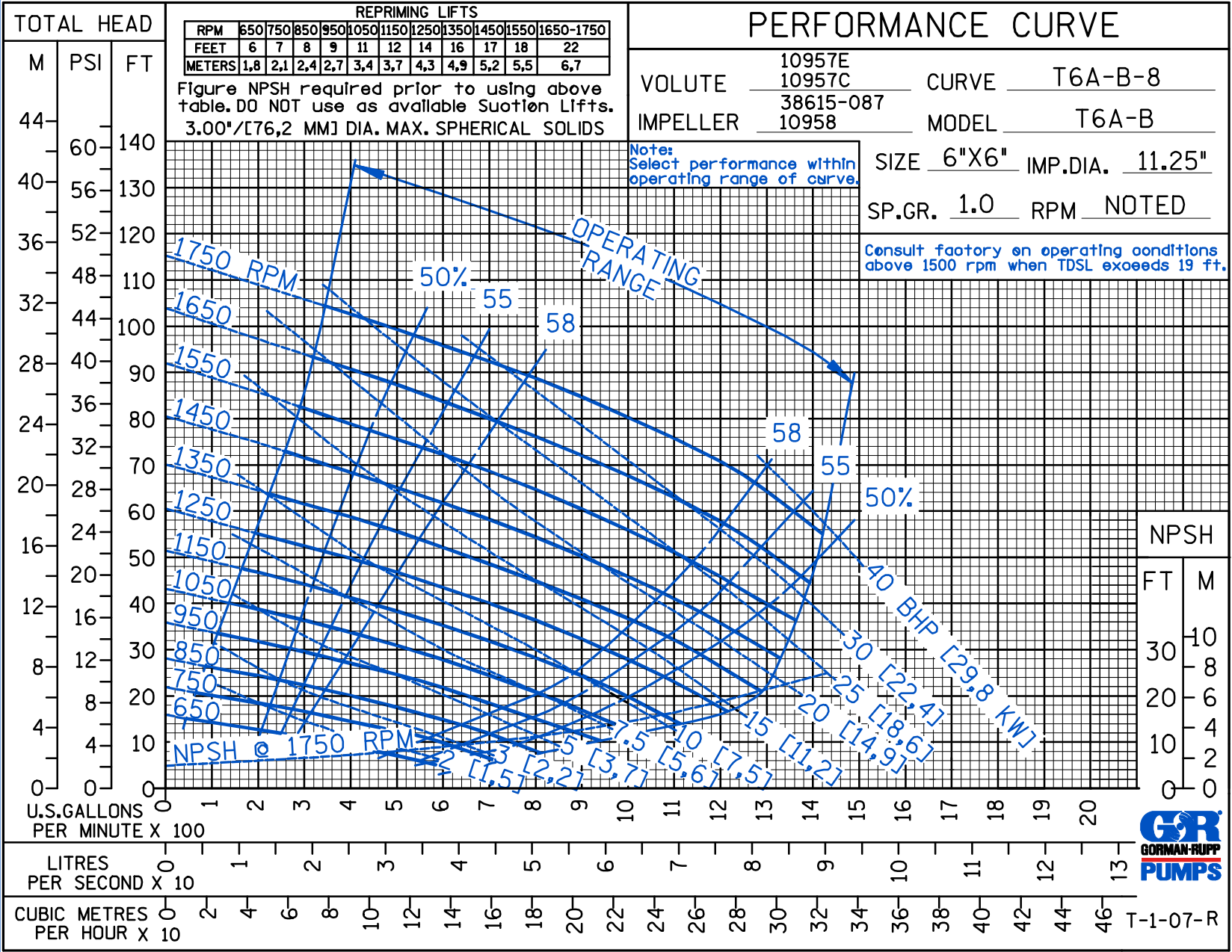


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PAGE 2245.8
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PERFORMANCE CURVE

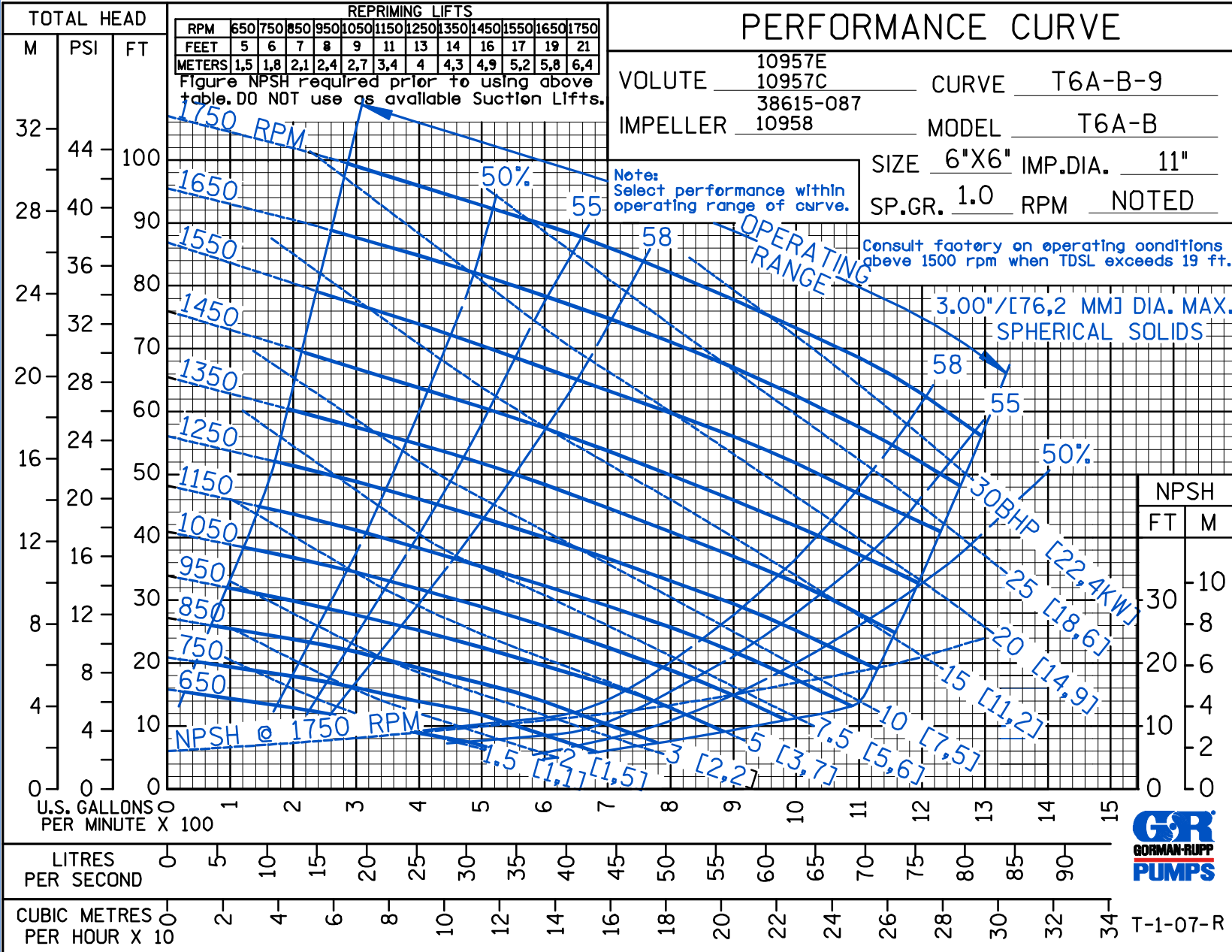
VOLUTE 10957E
 10957C
 IMPELLER 38615-087
 10958
 CURVE T6A-B-9
 MODEL T6A-B
 SIZE 6"X6" IMP.DIA. 11"
 SP.GR. 1.0 RPM NOTED

Consult factory on operating conditions above 1500 rpm when TDSL exceeds 19 ft.

3.00"/[76,2 MM] DIA. MAX. SPHERICAL SOLIDS

REPRIMING LIFTS												
RPM	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750
FEET	5	6	7	8	9	11	13	14	16	17	19	21
METERS	1,5	1,8	2,1	2,4	2,7	3,4	4	4,3	4,9	5,2	5,8	6,4

Figure NPSH required prior to using above table. DO NOT use as available Suction Lifts.



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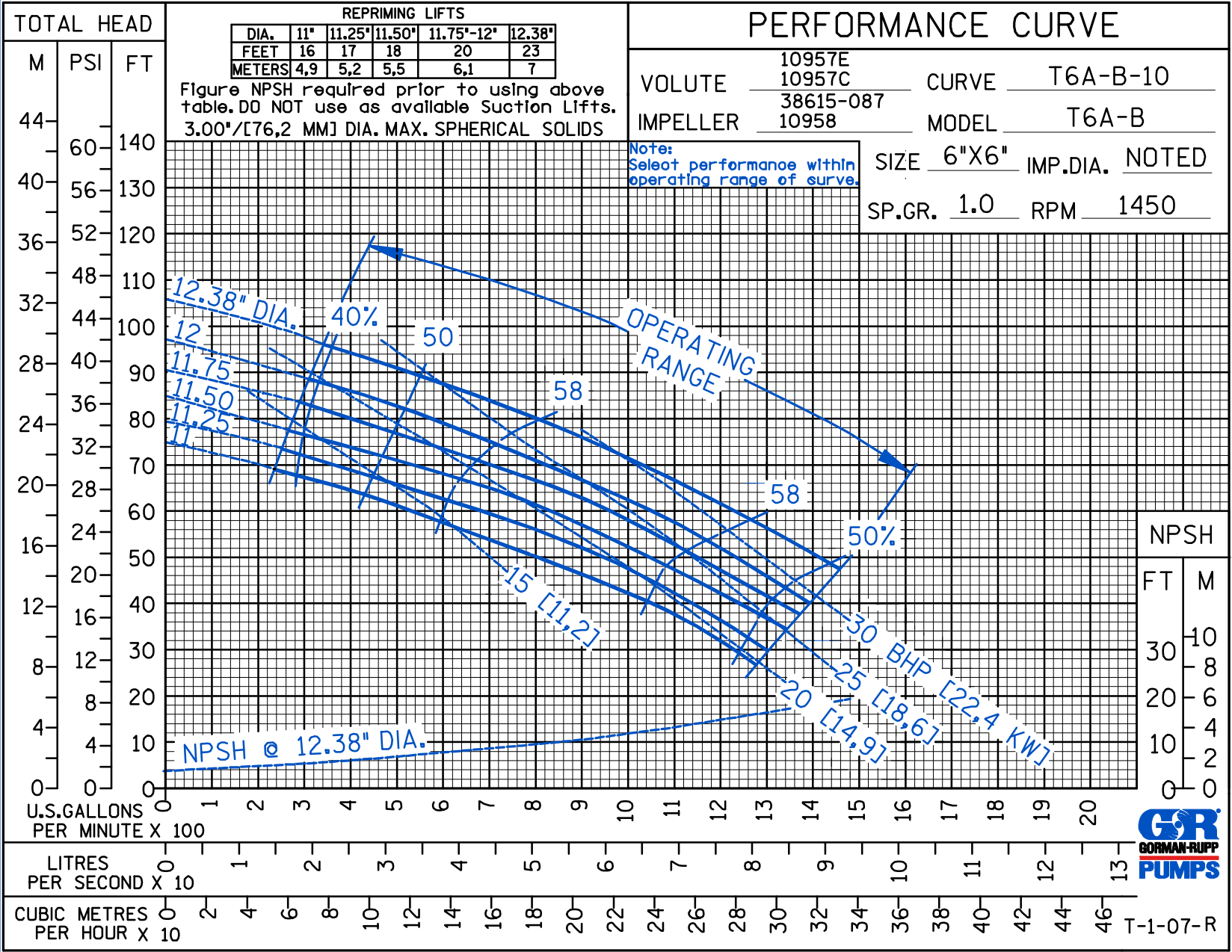
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PERFORMANCE CURVE

VOLUTE	10957E 10957C	CURVE	T6A-B-10
IMPELLER	38615-087 10958	MODEL	T6A-B
Note: Select performance within operating range of curve.		SIZE	6"X6" IMP.DIA. NOTED
		SP.GR.	1.0 RPM 1450

REPRIMING LIFTS					
DIA.	11"	11.25"	11.50"	11.75"-12"	12.38"
FEET	16	17	18	20	23
METERS	4,9	5,2	5,5	6,1	7

Figure NPSH required prior to using above table. DO NOT use as available Suction Lifts. 3.00"/[76,2 MM] DIA. MAX. SPHERICAL SOLIDS



NPSH
FT M
10 8
30 20 10 0
4 2 0
0 0



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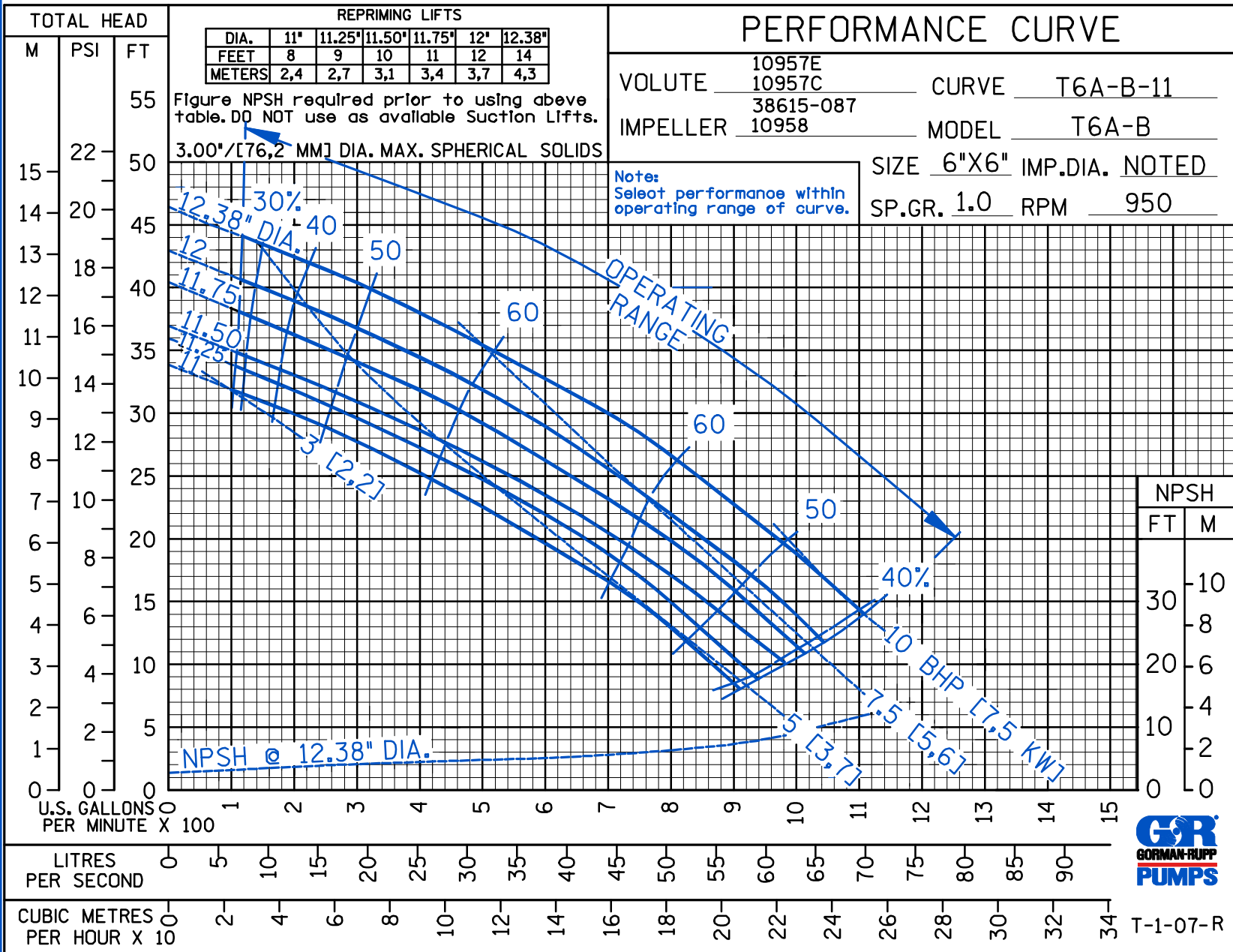


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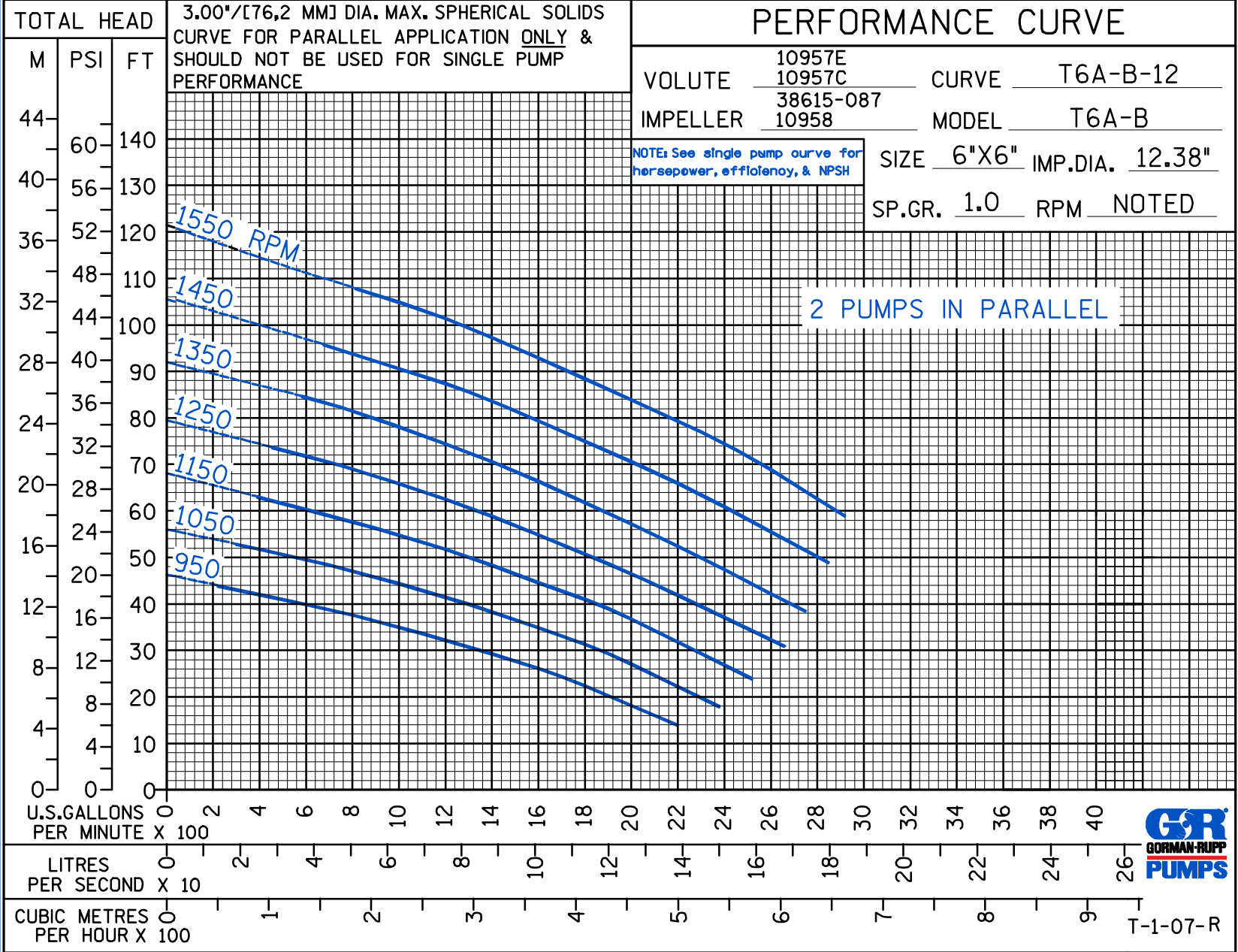
PAGE 2245.11
 FEBRUARY 2007

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PERFORMANCE CURVE

VOLUTE	10957E 10957C	CURVE	T6A-B-12
IMPELLER	38615-087 10958	MODEL	T6A-B
NOTE: See single pump curve for horsepower, efficiency, & NPSH		SIZE	6"X6" IMP.DIA. 12.38"
		SP.GR.	1.0 RPM NOTED

3.00"/[76,2 MM] DIA. MAX. SPHERICAL SOLIDS
CURVE FOR PARALLEL APPLICATION ONLY &
SHOULD NOT BE USED FOR SINGLE PUMP
PERFORMANCE



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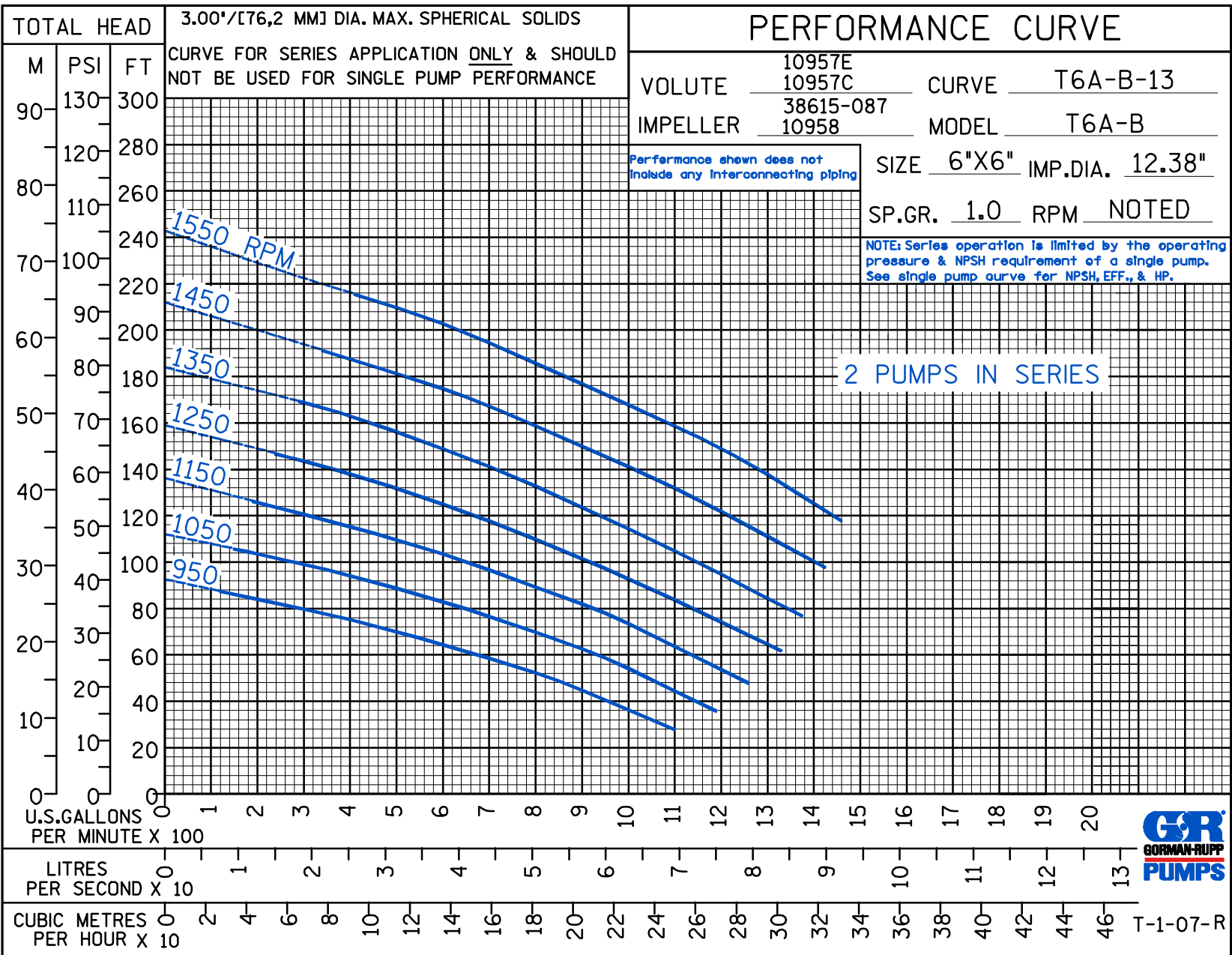
PERFORMANCE CURVE

VOLUTE	10957E 10957C	CURVE	T6A-B-13
IMPELLER	38615-087 10958	MODEL	T6A-B
SIZE		6"X6" IMP.DIA. 12.38"	
SP.GR.		1.0 RPM NOTED	

Performance shown does not include any Interconnecting piping

NOTE: Series operation is limited by the operating pressure & NPSH requirement of a single pump. See single pump curve for NPSH, EFF., & HP.

2 PUMPS IN SERIES



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