

CDSW

Super
TSERIES
VARIOUS PATENTS APPLY

G-R Hard Iron Fitted Basic Pump

Self Priming Centrifugal Pump

Model T3A71S-B

Size 3" x 3"

**PUMP SPECIFICATIONS****Size:** 3" x 3" (76 mm x 76 mm) NPT - Female.**Casing:** Gray Iron No. 30.

Maximum Operating Pressure 86 psi (593 kPa).*

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

Handles 2 1/2" (63,5 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; 35 lbs. (16 kg)**Flap Valve:** Neoprene w/Nylon and Steel Reinforcing.**Seal Plate:** G-R Hard Iron.**Bearing Housing:** Gray Iron No. 30.**Radial/Thrust Bearings:** Open Single 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, Vegetable Fiber, PTFE, 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:** Automatic Air Release Valve.

Metal Bellows Seal. 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:

3" ASA (**Specify Model T3A71S-B /F**).80 mm DIN 2527 (PN 16) (**Specify Model T3A71S-B /FM**).

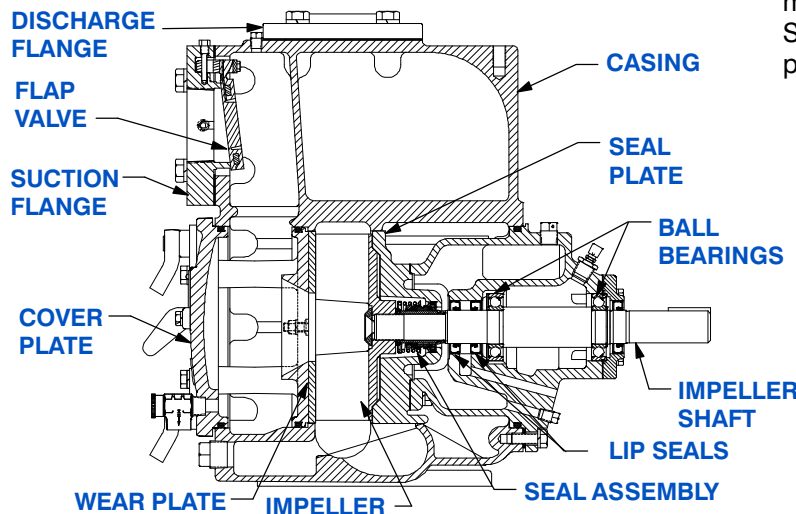
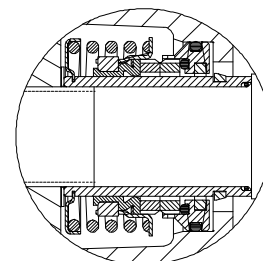
*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.



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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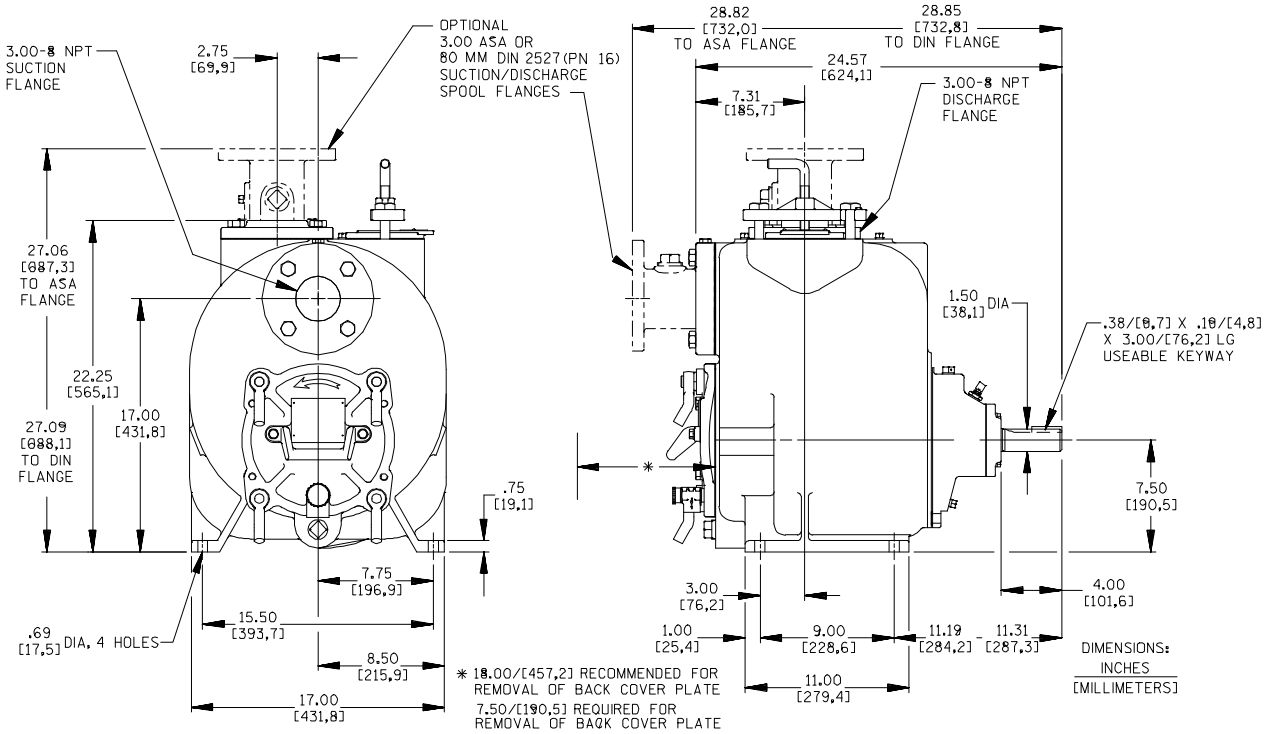
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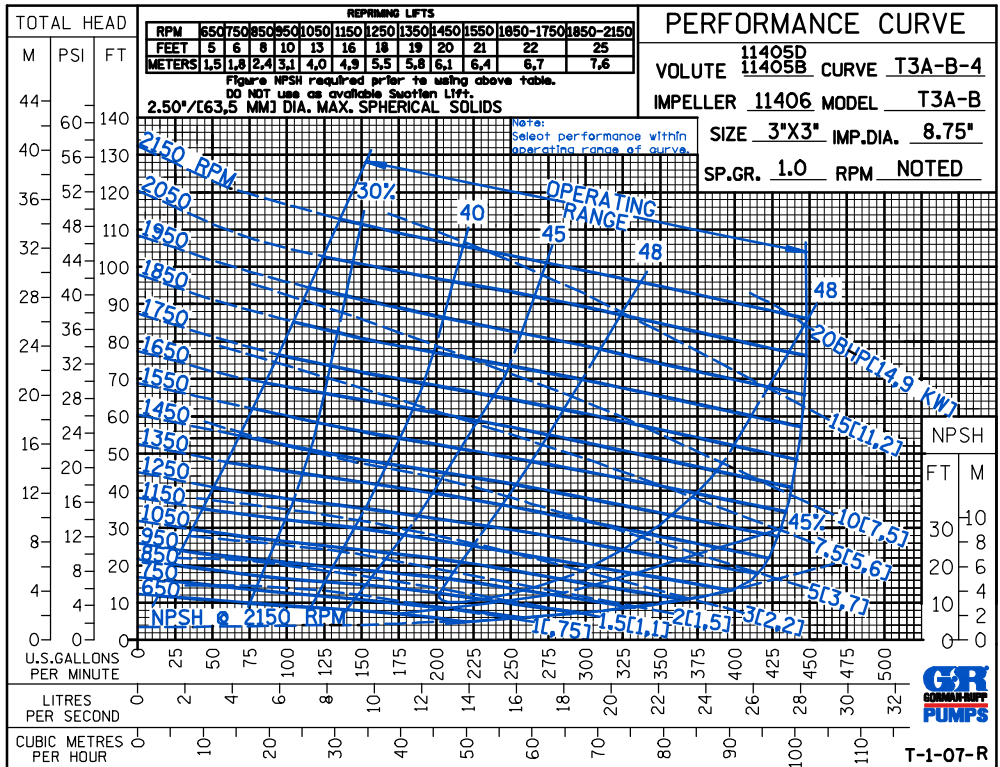
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APPROXIMATE DIMENSIONS and WEIGHTS

NET WEIGHT: 414 LBS. (188 KG.)*
SHIPPING WEIGHT: 462 LBS. (210 KG.)*
EXPORT CRATE: 19.3 CU. FT. (0,55 CU. M.)
***ADD 10 LBS. (4,5 KG.) W/EACH SPOOL FLANGE**



OPTIONAL ASA OR DIN STANDARD SUCTION & DISCHARGE SPOOL FLANGES AVAILABLE



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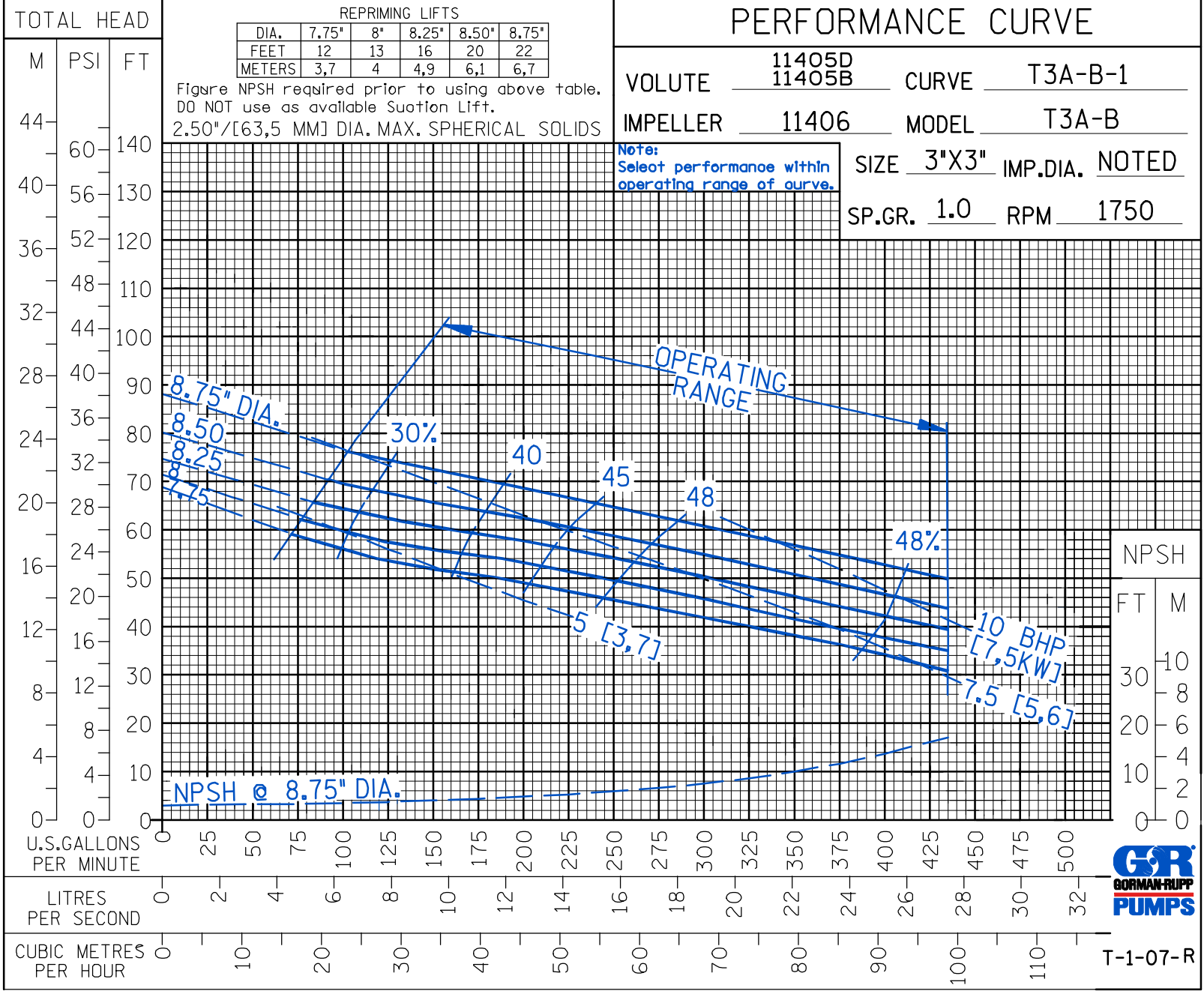
PERFORMANCE CURVE

VOLUTE 11405D
11405B CURVE T3A-B-1
 IMPELLER 11406 MODEL T3A-B
 SIZE 3"X3" IMP.DIA. NOTED
 SP.GR. 1.0 RPM 1750

Note:
Select performance within
operating range of curve.

REPRIMING LIFTS					
DIA.	7.75"	8"	8.25"	8.50"	8.75"
FEET	12	13	16	20	22
METERS	3,7	4	4,9	6,1	6,7

Figure NPSH required prior to using above table.
DO NOT use as available Suotion Lift.
2.50"/[63,5 MM] DIA. MAX. SPHERICAL SOLIDS



NPSH
FT M



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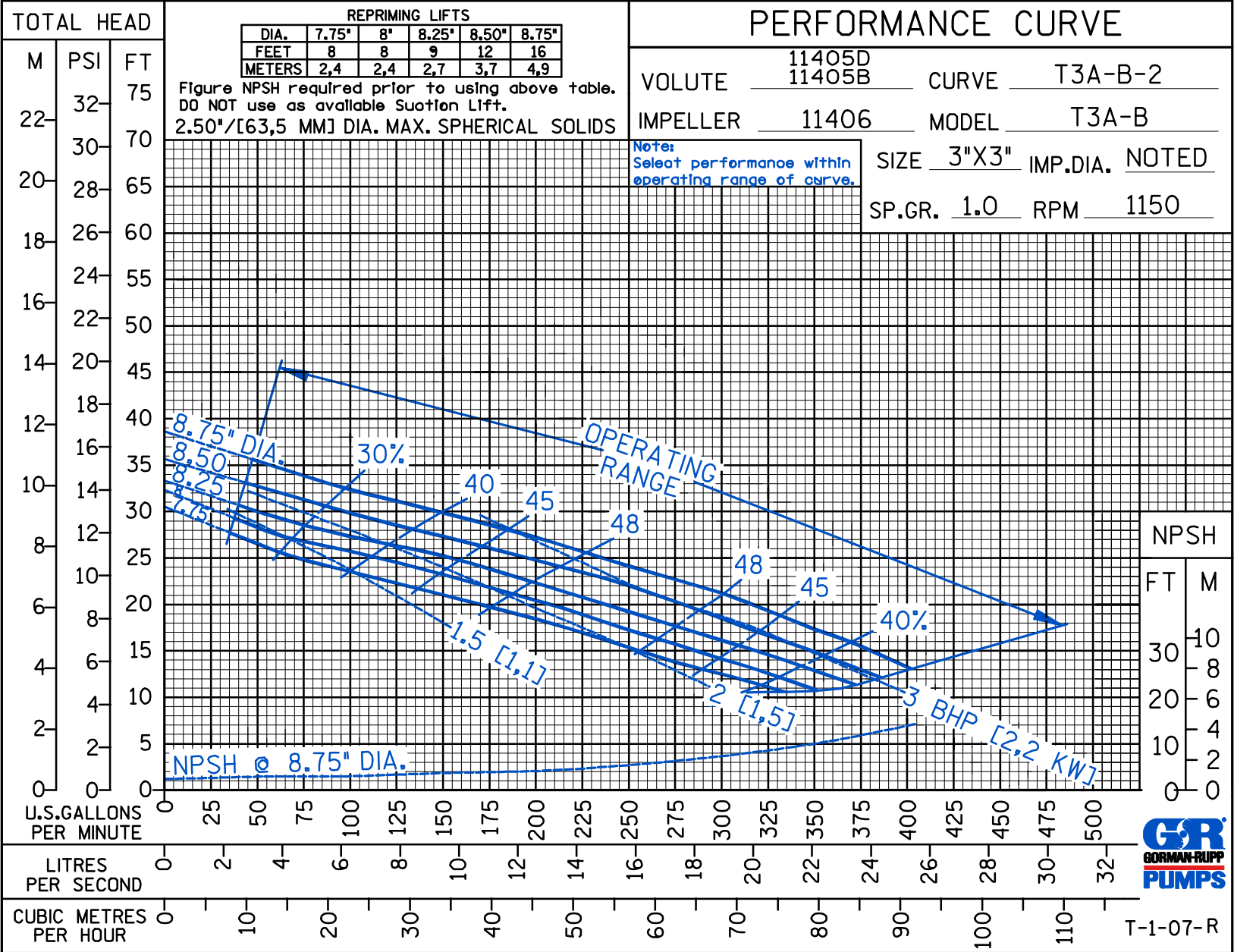
PERFORMANCE CURVE

VOLUTE 11405D
11405B CURVE T3A-B-2
IMPELLER 11406 MODEL T3A-B
SIZE 3"X3" IMP.DIA. NOTED
SP.GR. 1.0 RPM 1150

Note:
Select performance within
operating range of curve.

REPRIMING LIFTS					
DIA.	7.75"	8"	8.25"	8.50"	8.75"
FEET	8	8	9	12	16
METERS	2,4	2,4	2,7	3,7	4,9

Figure NPSH required prior to using above table.
DO NOT use as available Suction Lift.
2.50"/[63,5 MM] DIA. MAX. SPHERICAL SOLIDS



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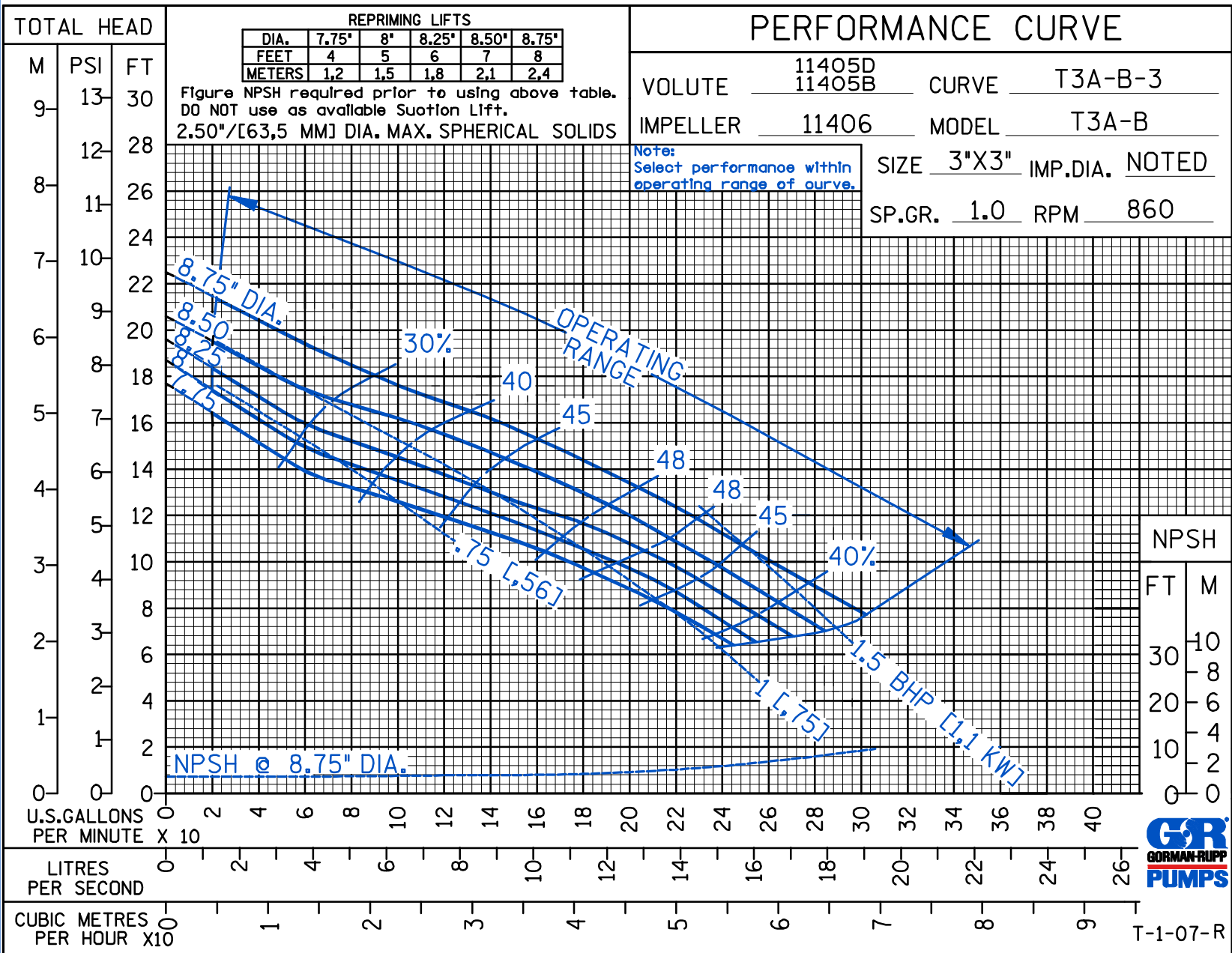
PERFORMANCE CURVE

VOLUTE 11405D
 11405B CURVE T3A-B-3
 IMPELLER 11406 MODEL T3A-B
 SIZE 3"X3" IMP.DIA. NOTED
 SP.GR. 1.0 RPM 860

REPRIMING LIFTS					
DIA.	7.75'	8'	8.25'	8.50'	8.75'
FEET	4	5	6	7	8
METERS	1,2	1,5	1,8	2,1	2,4

Figure NPSH required prior to using above table.
 DO NOT use as available Suction Lift.
 2.50"/[63,5 MM] DIA. MAX. SPHERICAL SOLIDS

Note:
 Select performance within
 operating range of curve.



NPSH
 FT M



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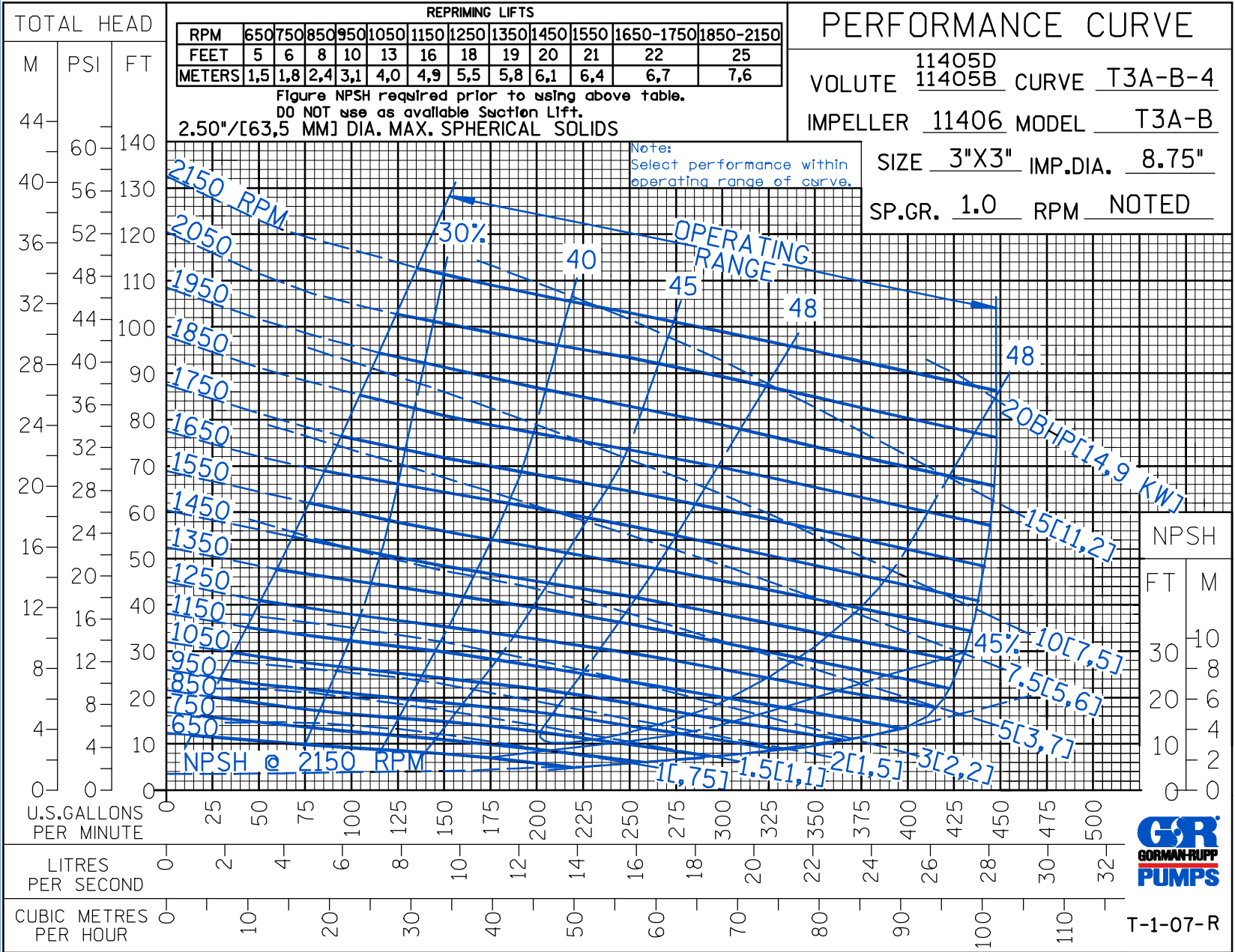


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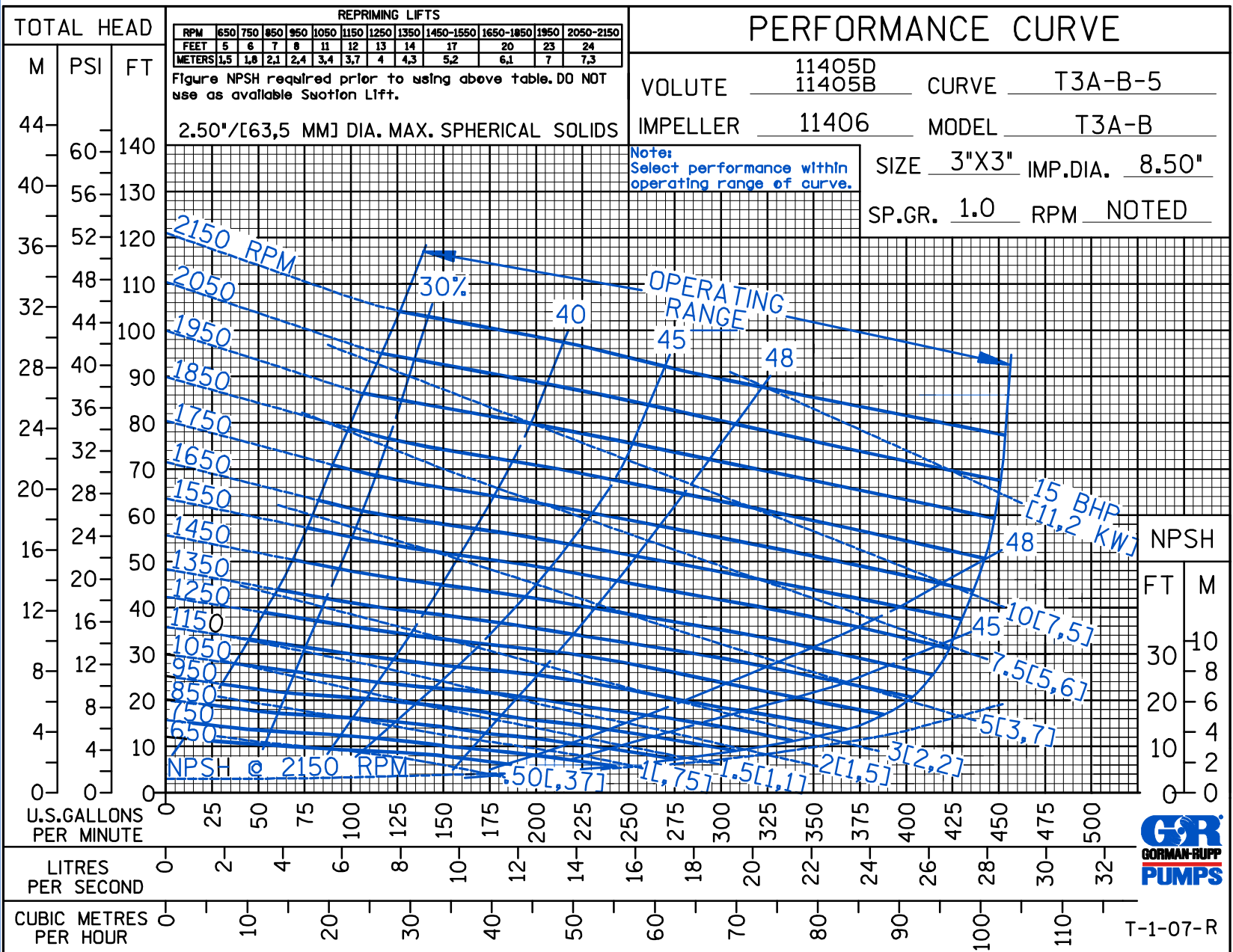


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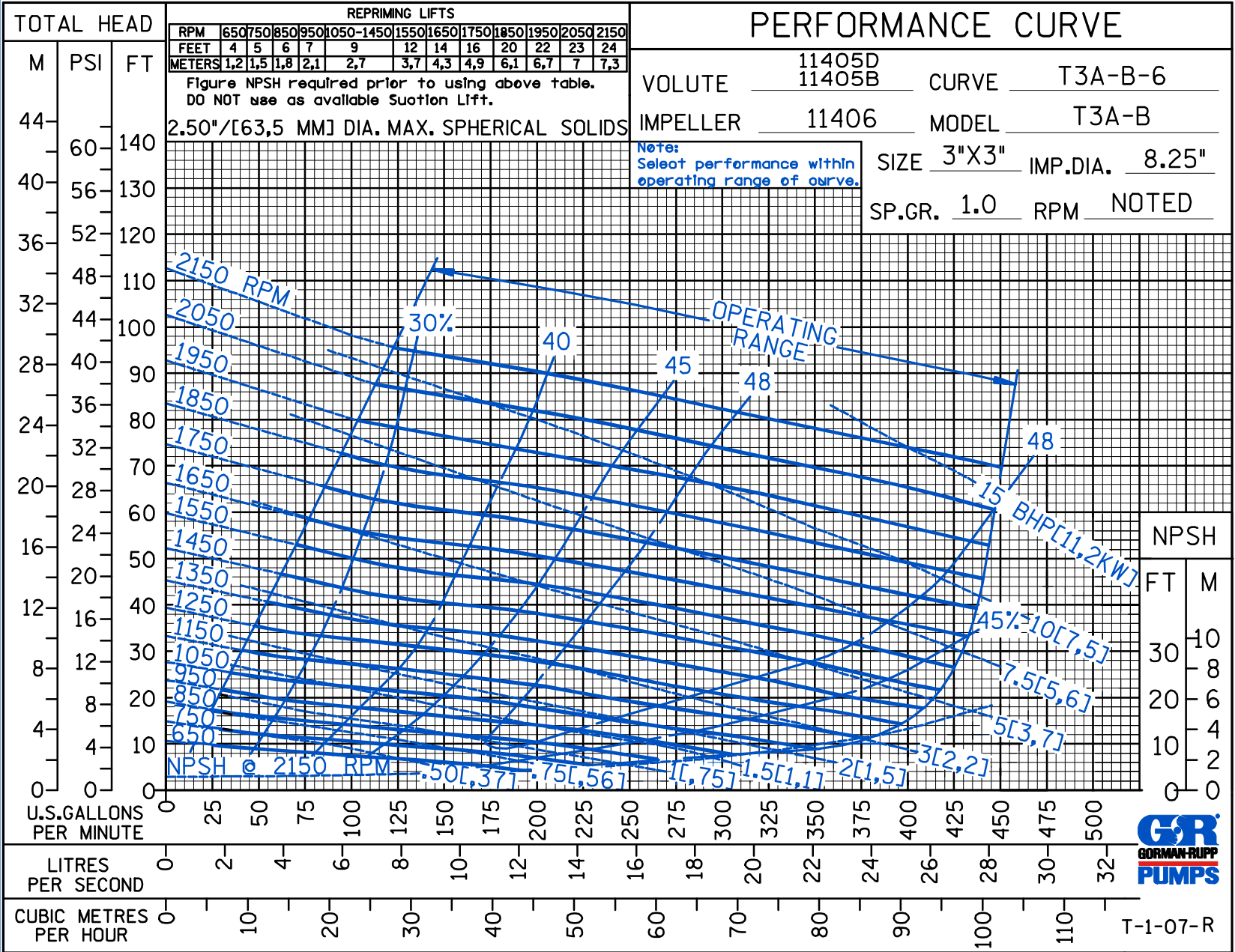


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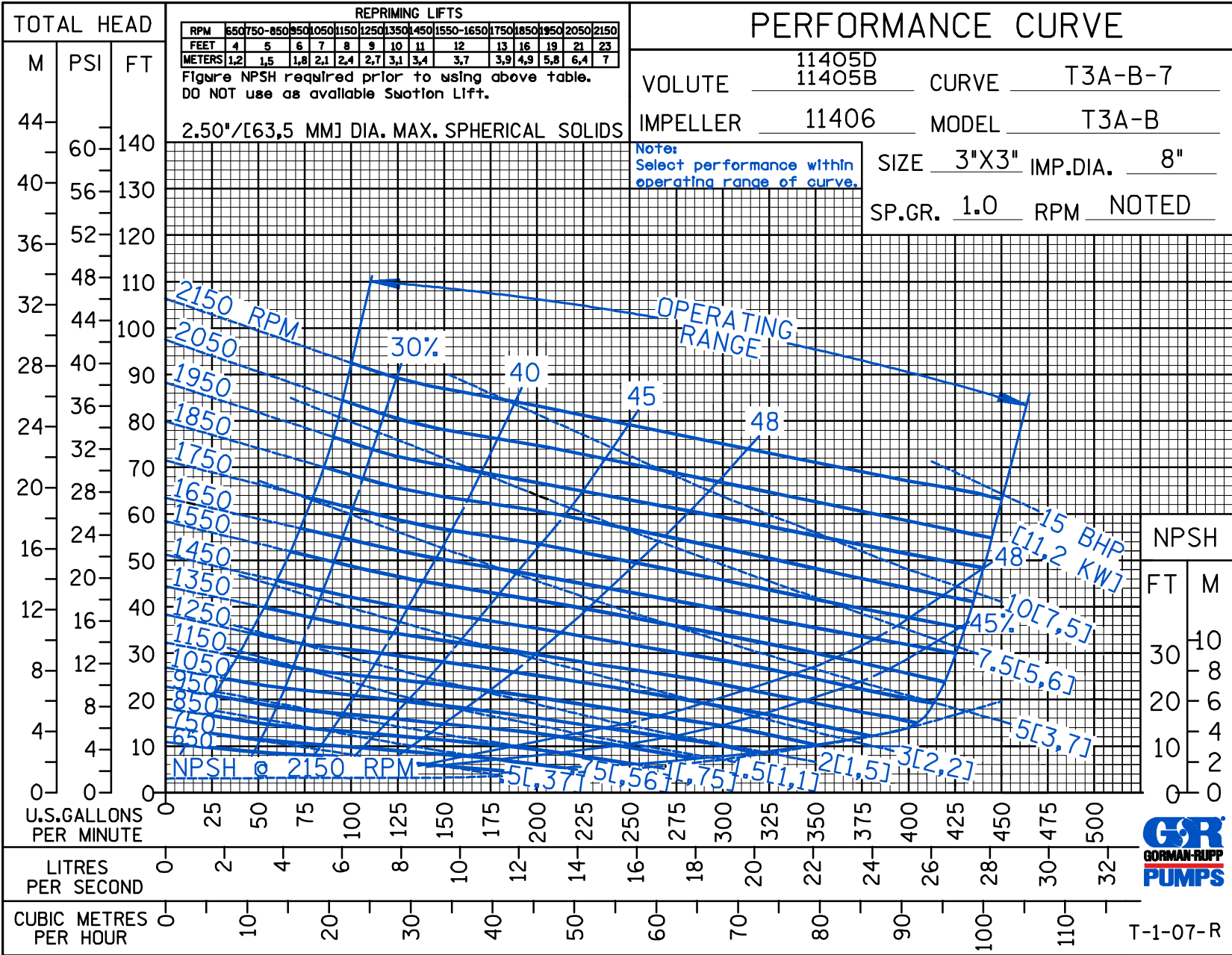


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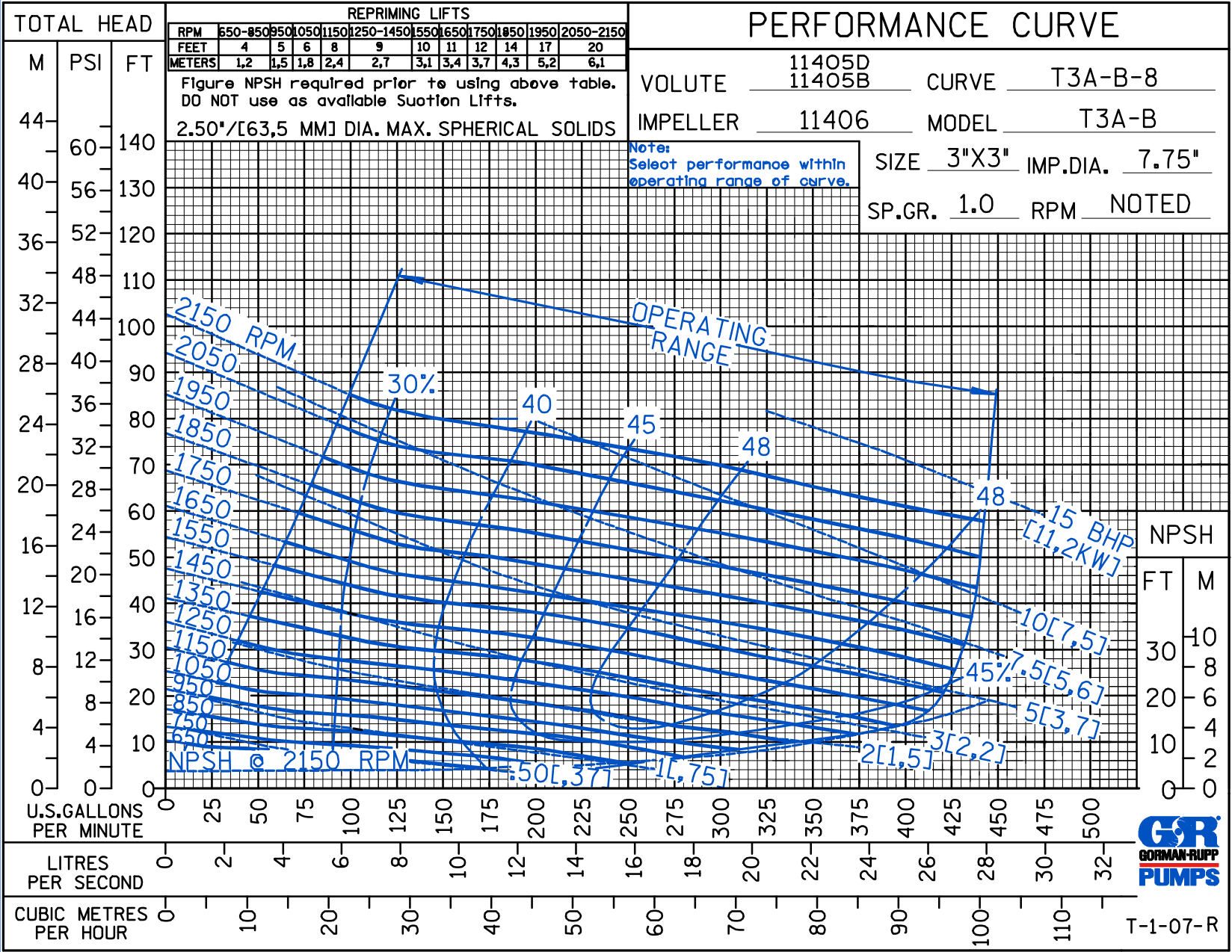


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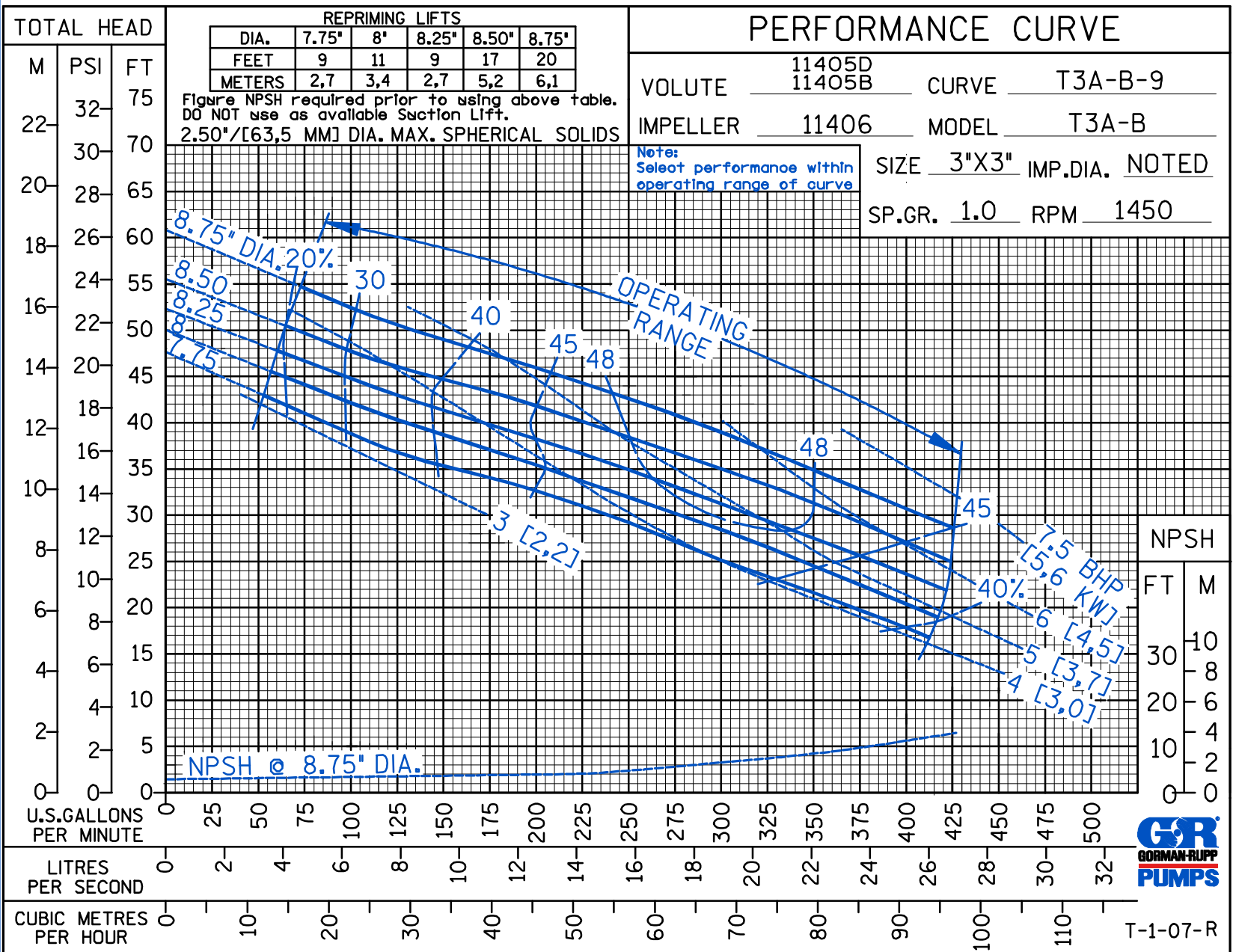
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PERFORMANCE CURVE

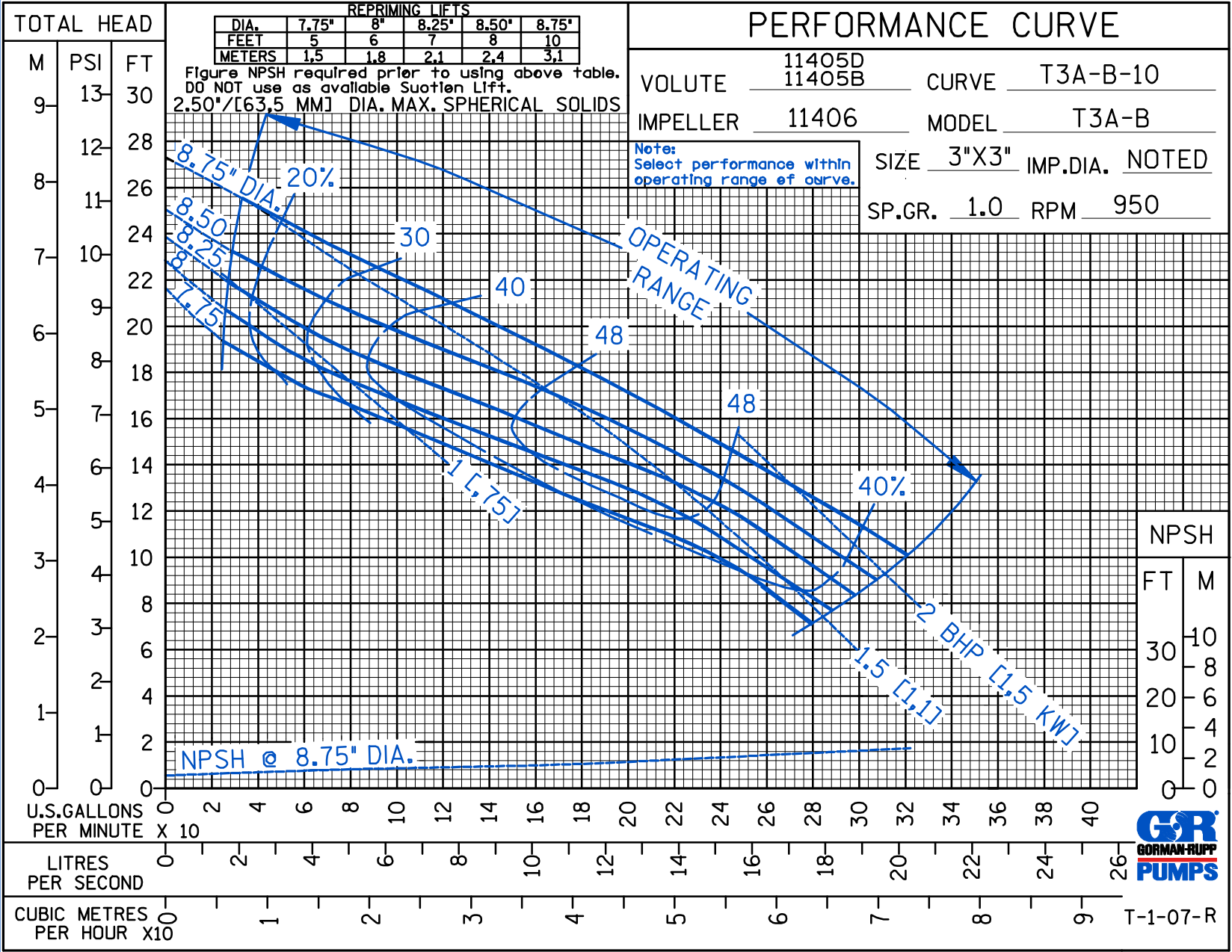
VOLUTE 11405D
 11405B CURVE T3A-B-10
 IMPELLER 11406 MODEL T3A-B
 SIZE 3"X3" IMP.DIA. NOTED
 SP.GR. 1.0 RPM 950

Note:
 Select performance within
 operating range of curve.

REPRIMING LISTS

DIA.	7.75"	8"	8.25"	8.50"	8.75"
FEET	5	6	7	8	10
METERS	1.5	1.8	2.1	2.4	3.1

Figure NPSH required prior to using above table.
 DO NOT use as available Suotion Lift.
 2.50"/[63.5 MM] DIA. MAX. SPHERICAL SOLIDS



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



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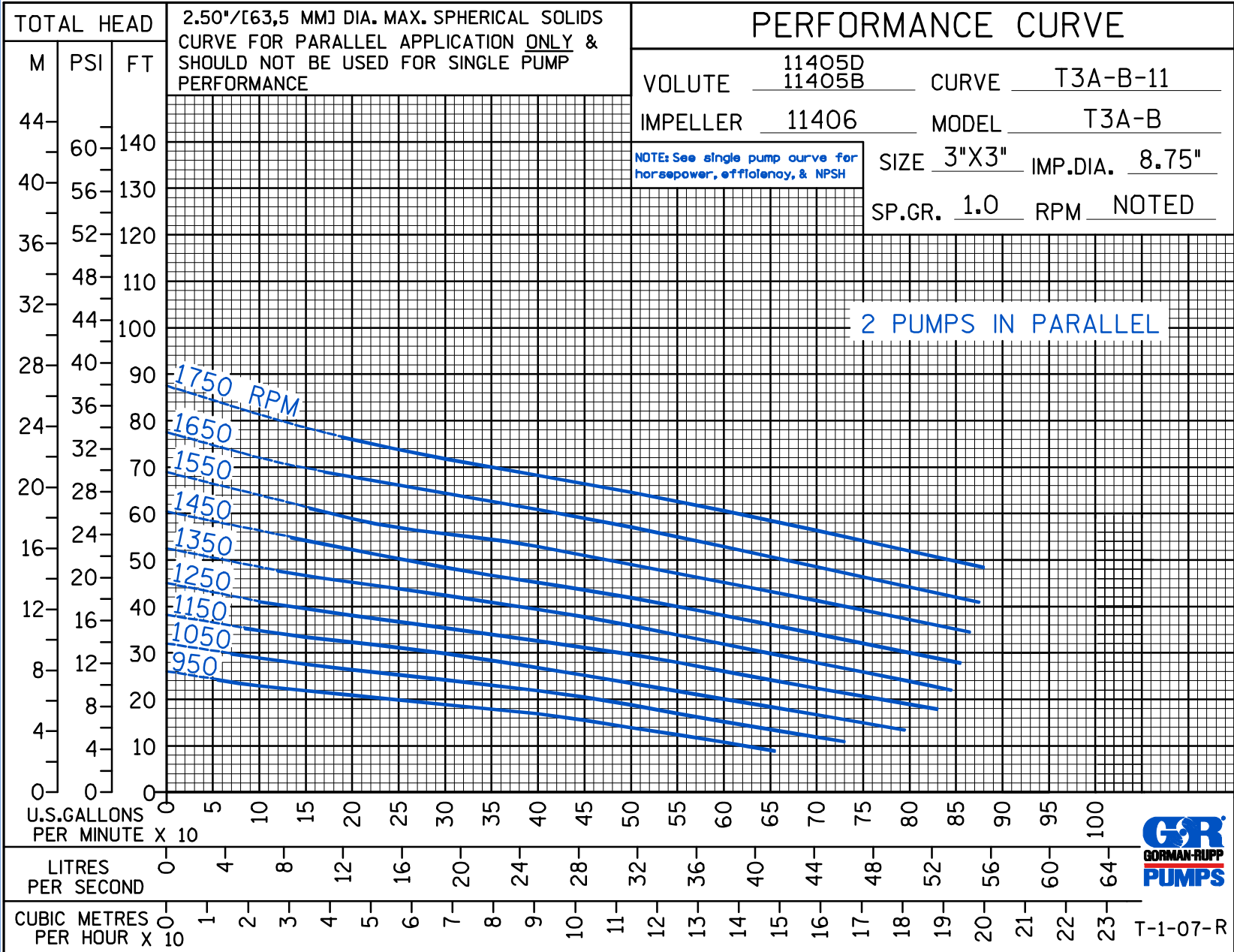
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D S W

PERFORMANCE CURVE

VOLUTE	11405D 11405B	CURVE	T3A-B-11
IMPELLER	11406	MODEL	T3A-B
NOTE: See single pump curve for horsepower, efficiency, & NPSH		SIZE	3"X3" IMP.DIA. 8.75"
		SP.GR.	1.0 RPM NOTED

2.50"/[63,5 MM] DIA. MAX. SPHERICAL SOLIDS CURVE FOR PARALLEL APPLICATION ONLY & SHOULD NOT BE USED FOR SINGLE PUMP PERFORMANCE



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D S W

PERFORMANCE CURVE

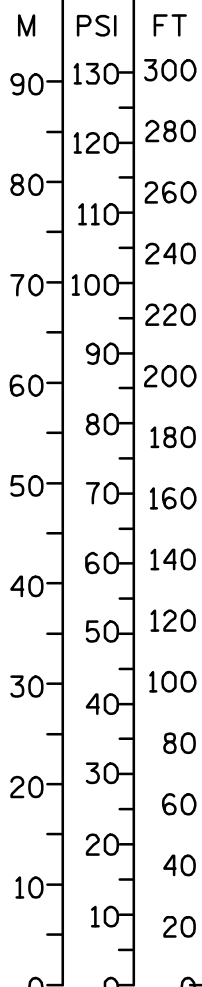
VOLUTE 11405D CURVE T3A-B-12
 11405B
 IMPELLER 11406 MODEL T3A-B
 SIZE 3"X3" IMP.DIA. 8.75"
 SP.GR. 1.0 RPM NOTED

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.

2.50" [63,5 MM] DIA. MAX. SPHERICAL SOLIDS CURVE FOR SERIES APPLICATION ONLY & SHOULD NOT BE USED FOR SINGLE PUMP PERFORMANCE

TOTAL HEAD



2 PUMPS IN SERIES



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