



Basic Pump

Self Priming Centrifugal Pump

Model T3A3-B

Size 3" x 3"

VARIOUS PATENTS APPLY

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

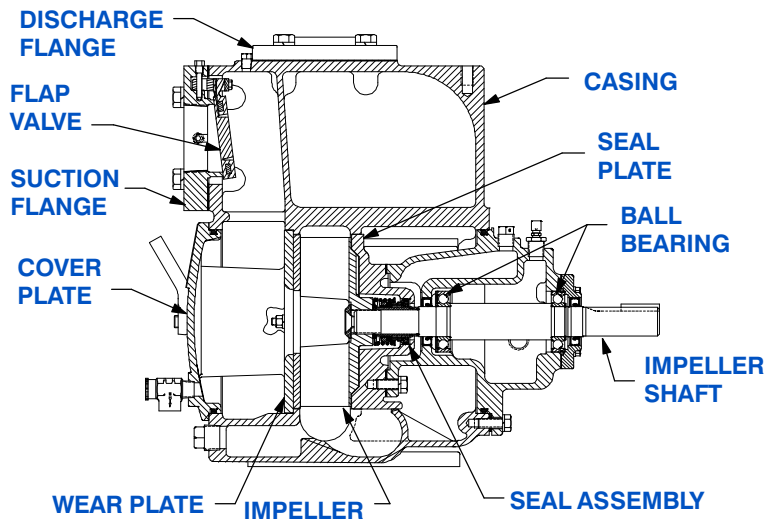
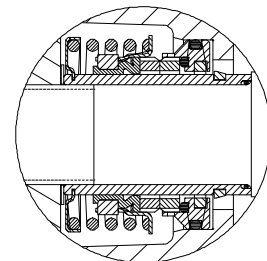
Maximum Operating Pressure 86 psi (593 kPa).*

Semi-Open Type, Two Vane Impeller: Ductile Iron No. 65-45-12.

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:** Carbon Steel No. 1015.**Removable Cover Plate:** Gray Iron No. 30; 30 lbs. (14 kg).**Seal Plate:** Gray Iron No. 30.**Flap Valve:** Neoprene ^w/Steel Reinforcing.**Bearing Housing:** Gray Iron No. 30.**Radial and 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 ^w/Compressed Synthetic Fibers, Vegetable Fiber, PTFE, Cork and Rubber.**O-Rings:** Buna-N.**Hardware:** Standard Plated Steel.**Brass Pressure Relief Valve.****Bearing Cavity Oil Level Sight Gauge.****Optional Equipment:** Stainless Steel No. 316 Pressure Relief Valve. Automatic Air Release Valve. G-R Hard Iron Impeller, Seal Plate and Wear Plate. 120V/240V Casing Heater. High Pump Temperature Shutdown Kit. Self-Cleaning Wear Plate. Gray Iron No. 30 Suction and Discharge Spool Flanges: 3" ASA.

80 mm DIN 2527 (PN 16).

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. Tungsten Titanium 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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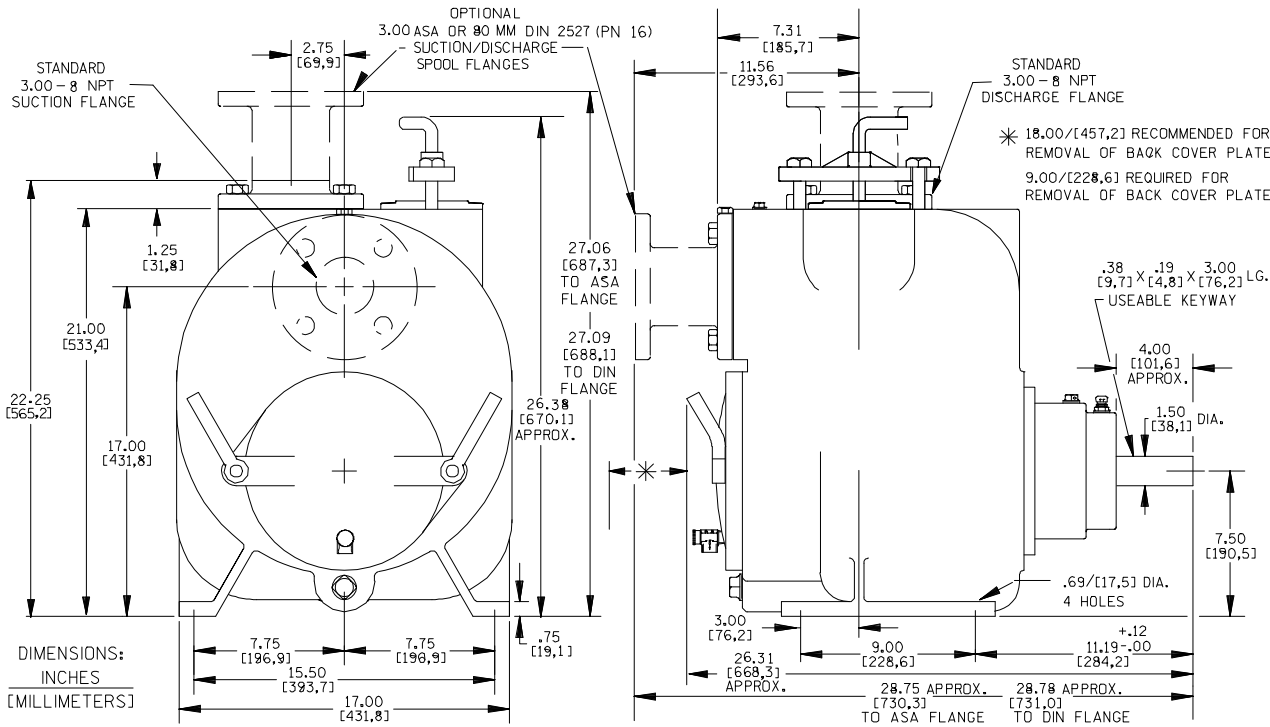
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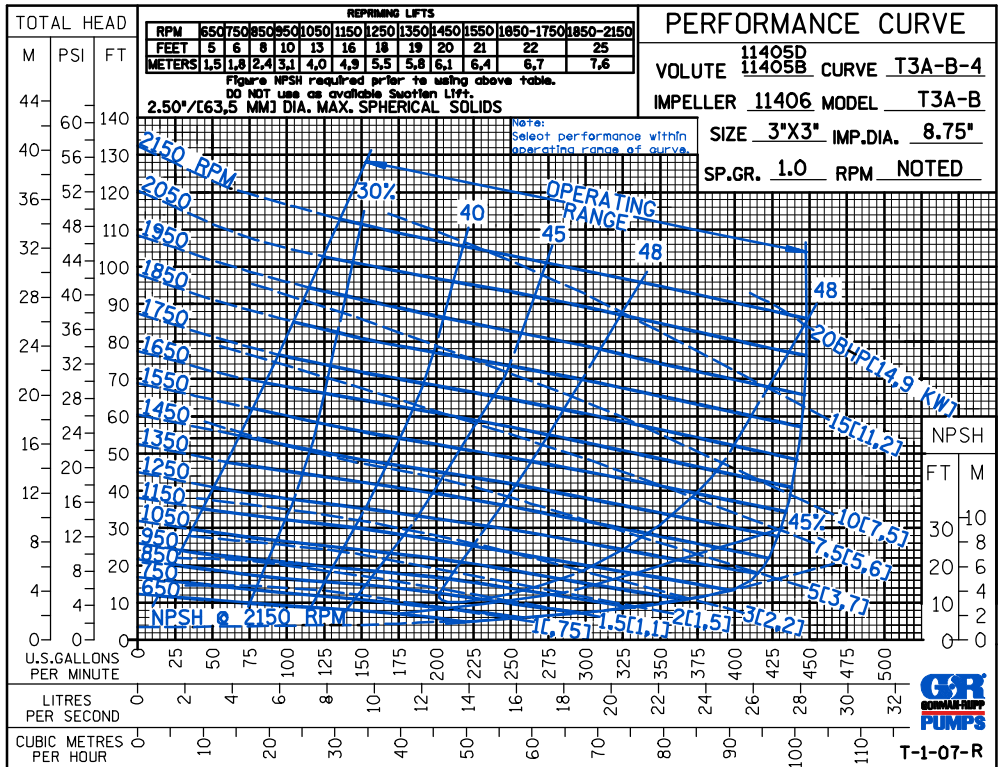
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APPROXIMATE DIMENSIONS and WEIGHTS

NET WEIGHT: 404 LBS. (183 KG.)*
SHIPPING WEIGHT: 452 LBS. (205 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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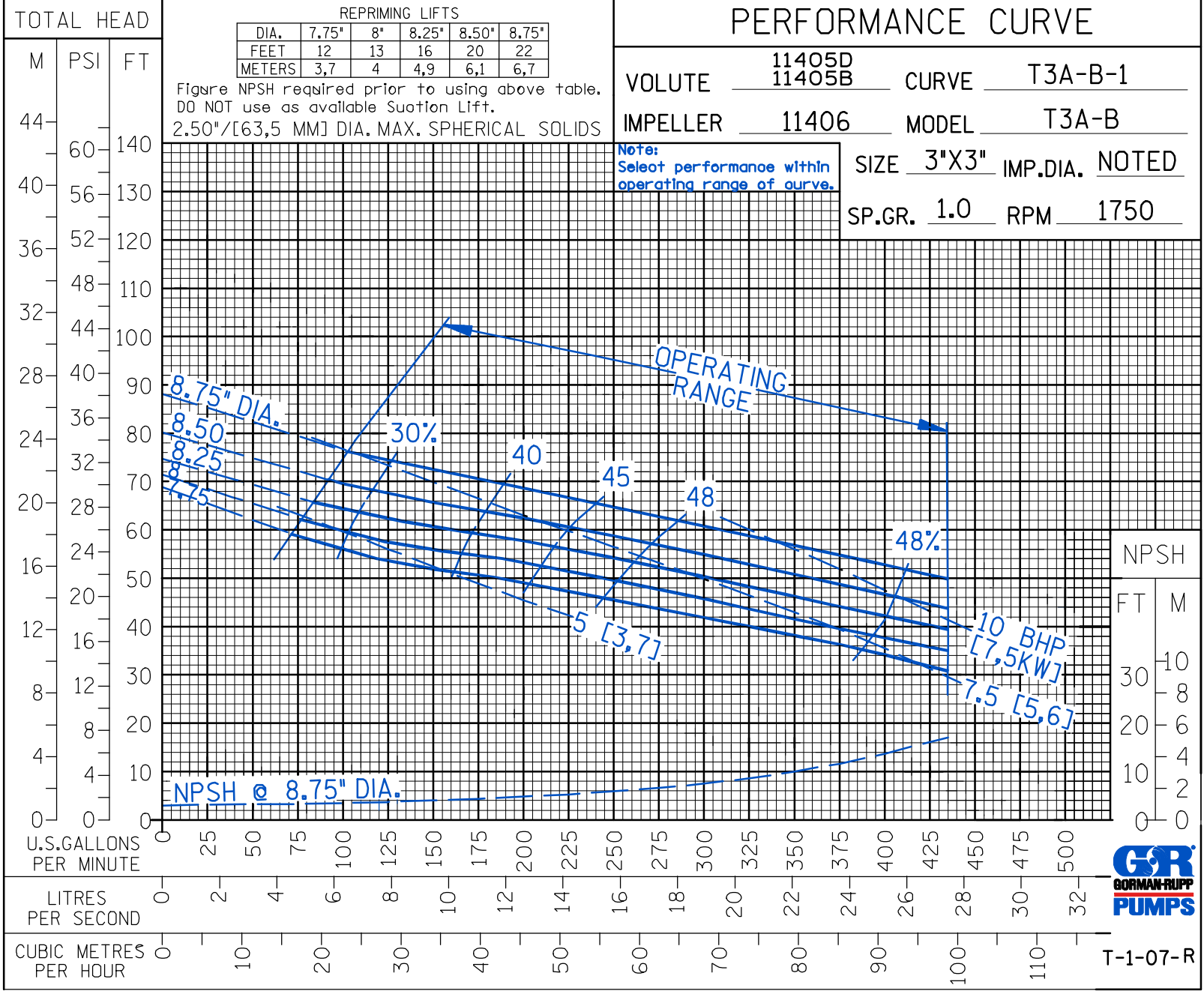
PERFORMANCE CURVE

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
30 10
20 6
10 2
0 0



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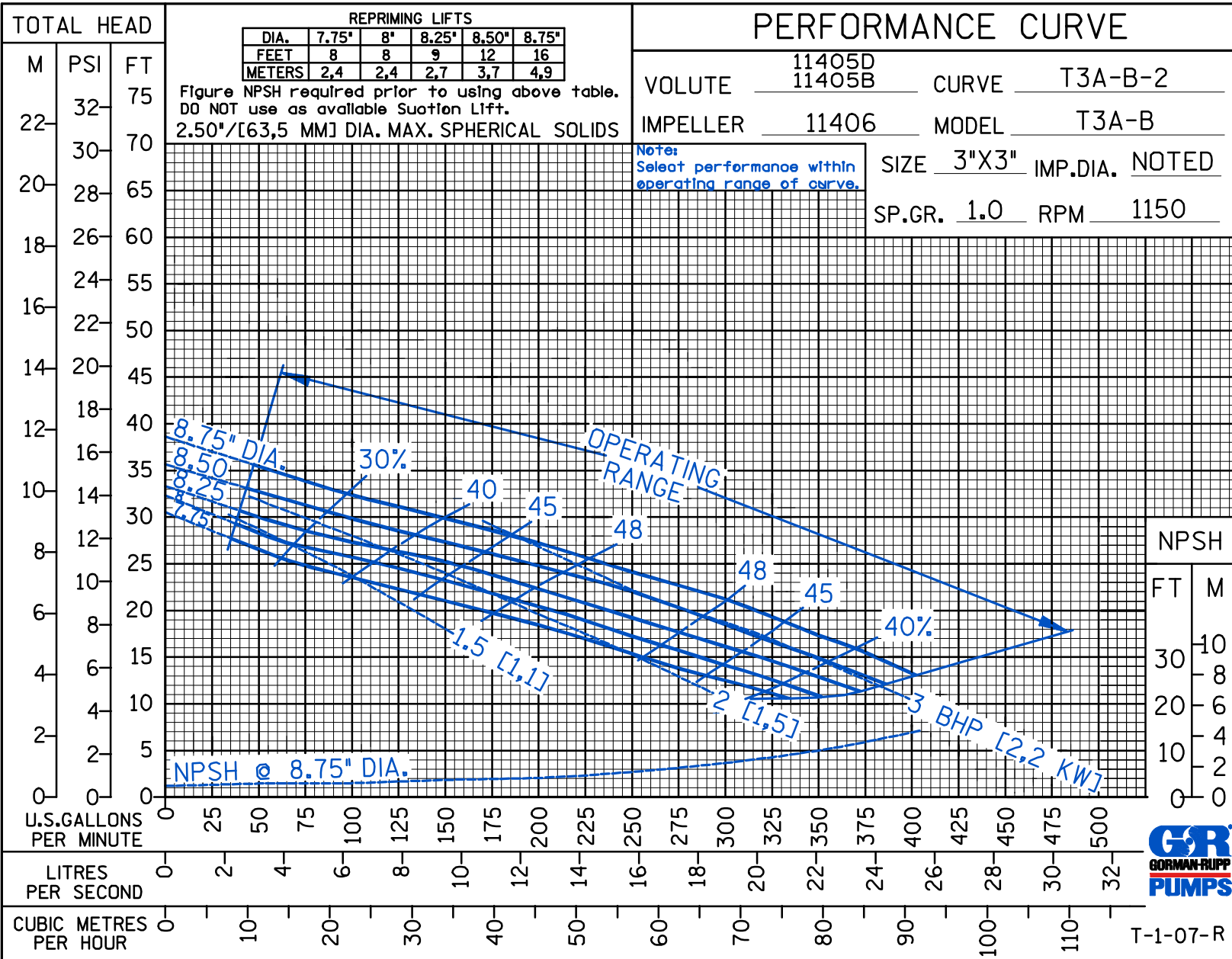
PERFORMANCE CURVE

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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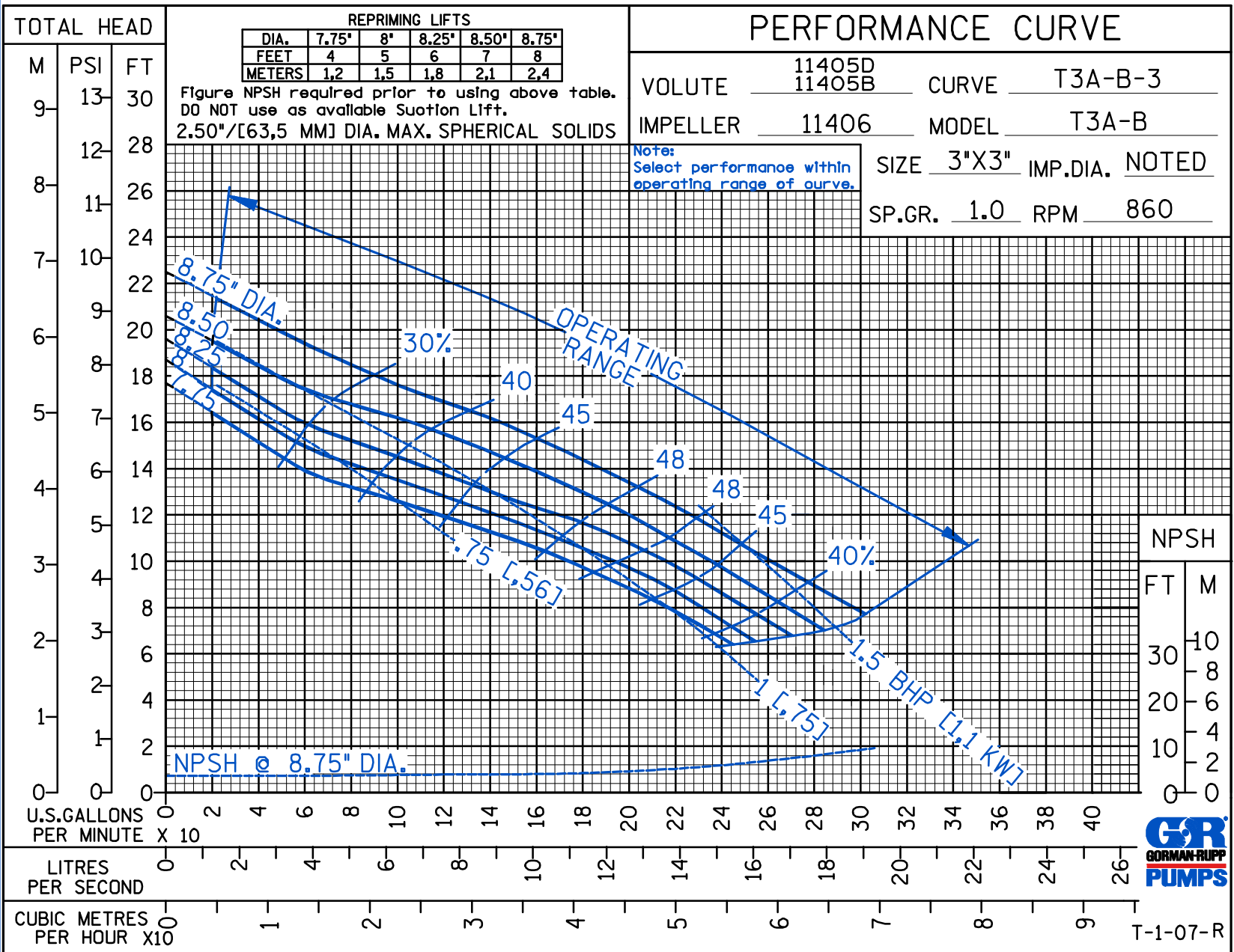
PERFORMANCE CURVE

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

30 10

8 8

20 6

10 4

0 2

0 0

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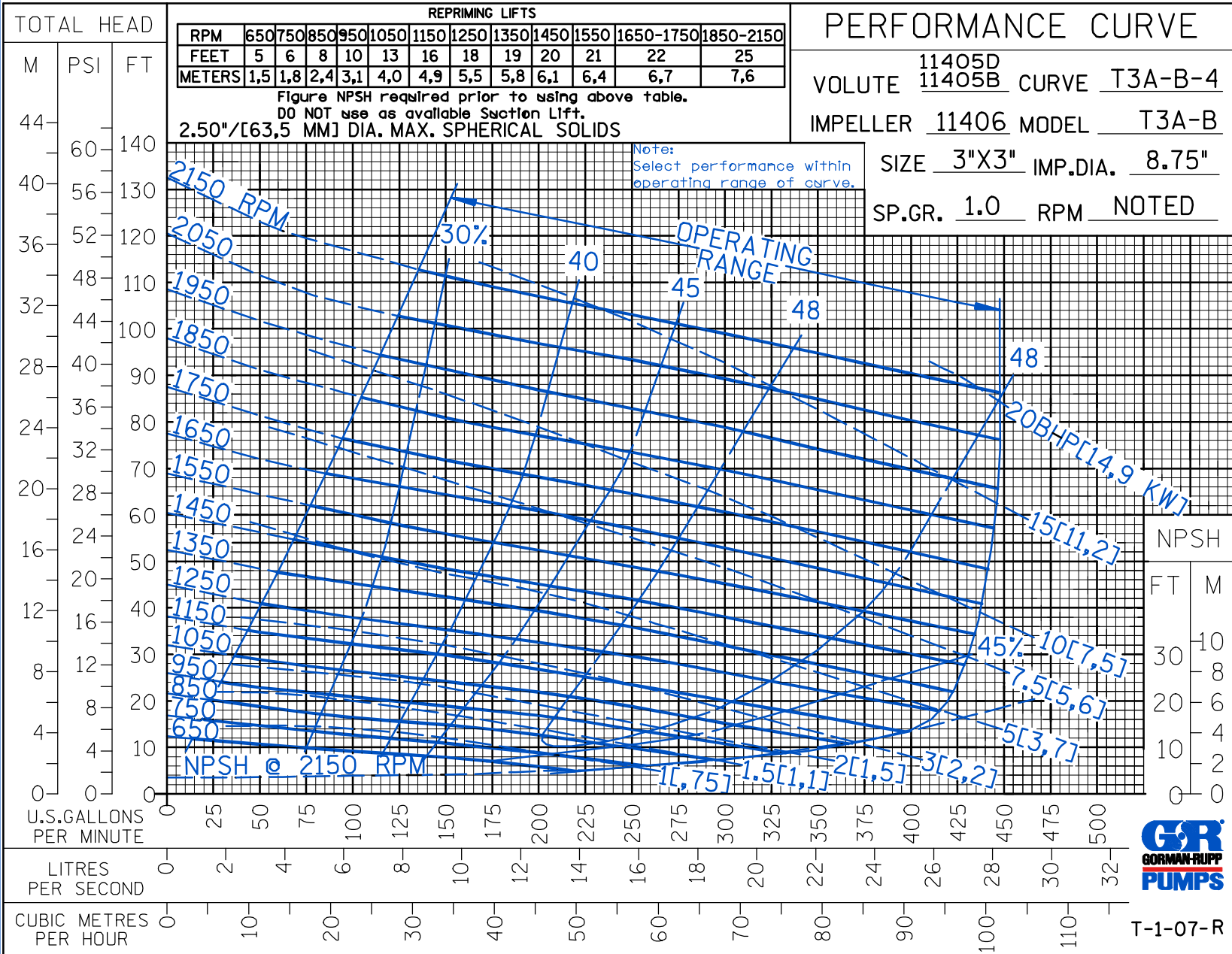
PERFORMANCE CURVE

VOLUTE 11405D
11405B CURVE T3A-B-4
 IMPELLER 11406 MODEL T3A-B
 SIZE 3"X3" IMP.DIA. 8.75"
 SP.GR. 1.0 RPM NOTED

REPRIMING LIFTS												
RPM	650	750	850	950	1050	1150	1250	1350	1450	1550	1650-1750	1850-2150
FEET	5	6	8	10	13	16	18	19	20	21	22	25
METERS	1,5	1,8	2,4	3,1	4,0	4,9	5,5	5,8	6,1	6,4	6,7	7,6

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.



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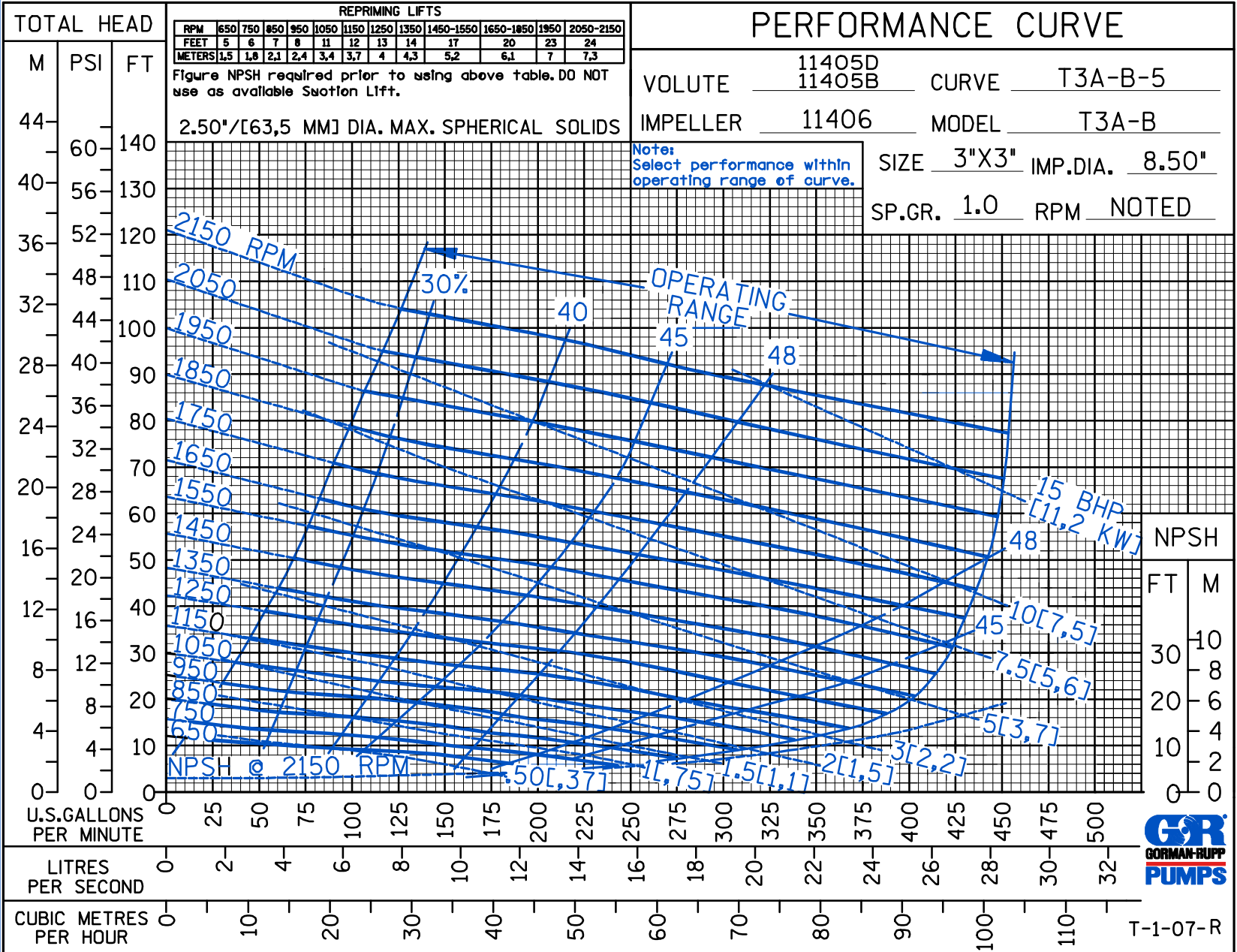


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Curve Data

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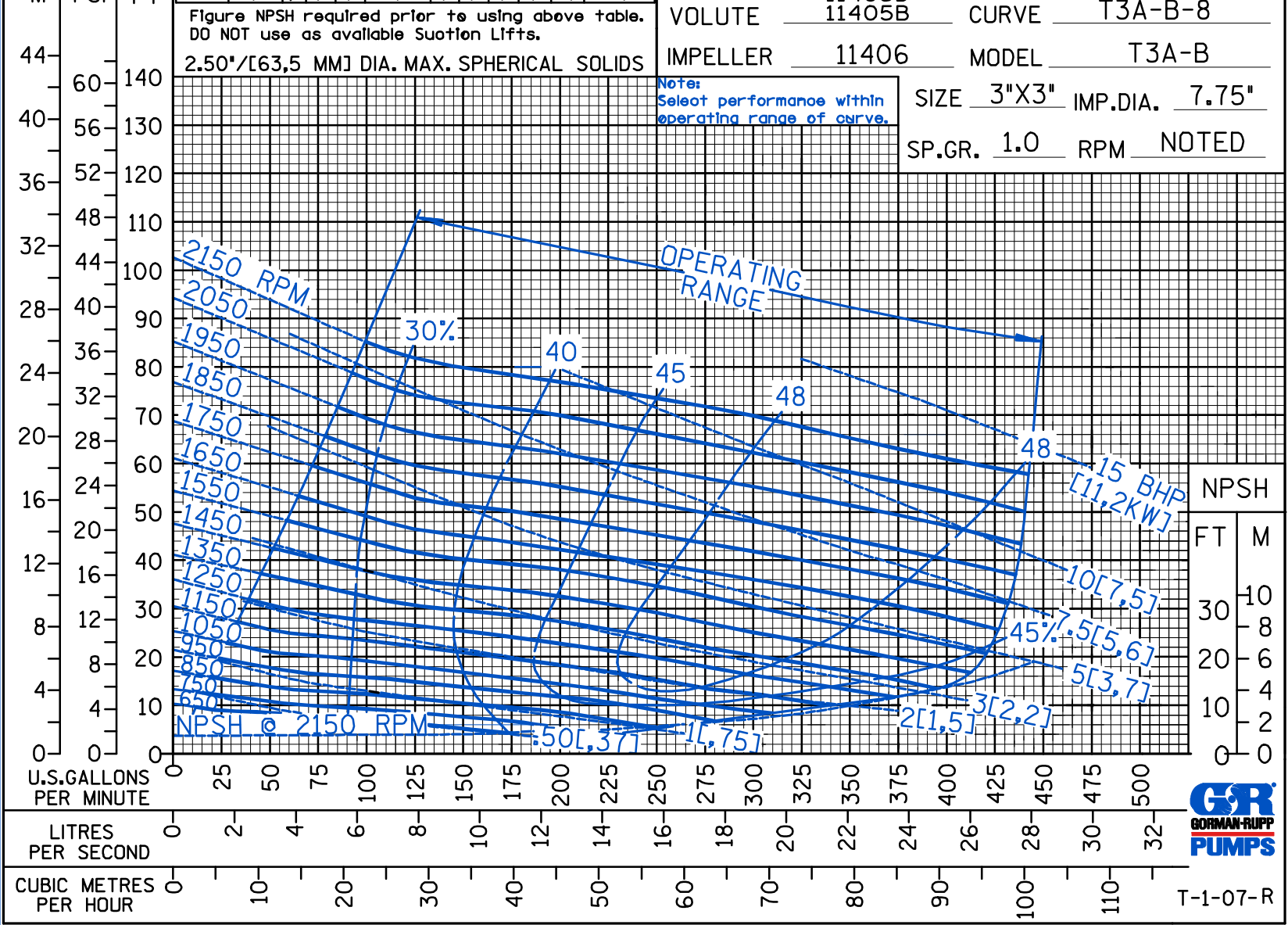
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TOTAL HEAD		REPRIMING LIFTS											
M	FT	RPM	650-850	950	1050	1150	1250-1450	1550	1650	1750	1850	1950	2050-2150
PSI		FEET	4	5	6	8	9	10	11	12	14	17	20
		METERS	1.2	1.5	1.8	2.4	2.7	3.1	3.4	3.7	4.3	5.2	6.1

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

PERFORMANCE CURVE
 VOLUTE 11405D
 11405B CURVE T3A-B-8
 IMPELLER 11406 MODEL T3A-B
 SIZE 3"X3" IMP.DIA. 7.75"
 SP.GR. 1.0 RPM NOTED

Note:
 Select performance within
 operating range of curve.



NPSH
 FT M
 10 8 6 4 2 0



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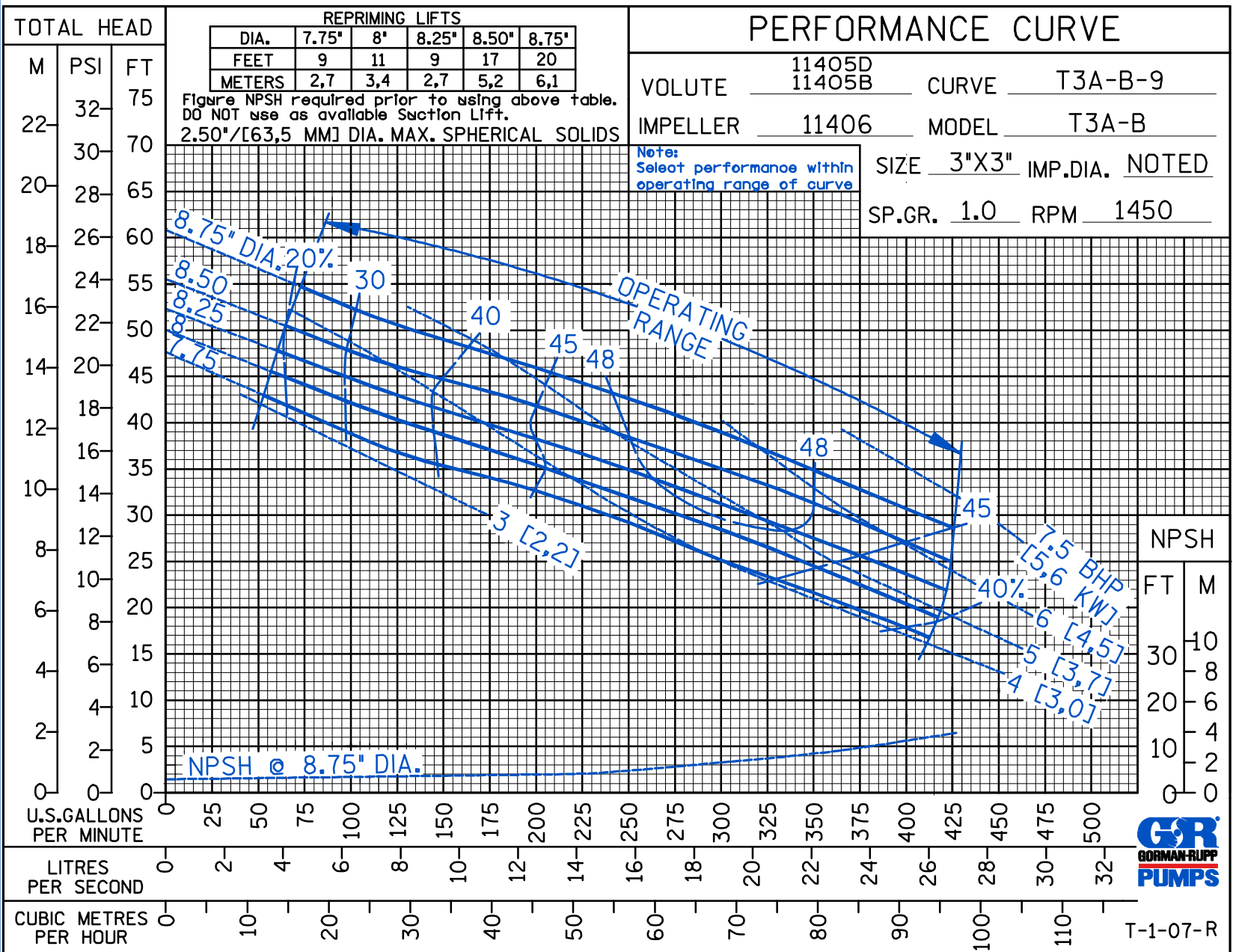
PERFORMANCE CURVE

VOLUTE 11405D
 11405B CURVE T3A-B-9
 IMPELLER 11406 MODEL T3A-B
 SIZE 3"X3" IMP.DIA. NOTED
 SP.GR. 1.0 RPM 1450

REPRIMING LIFTS					
DIA.	7.75"	8"	8.25"	8.50"	8.75"
FEET	9	11	9	17	20
METERS	2,7	3,4	2,7	5,2	6,1

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

Note:
 Select performance within
 operating range of curve



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



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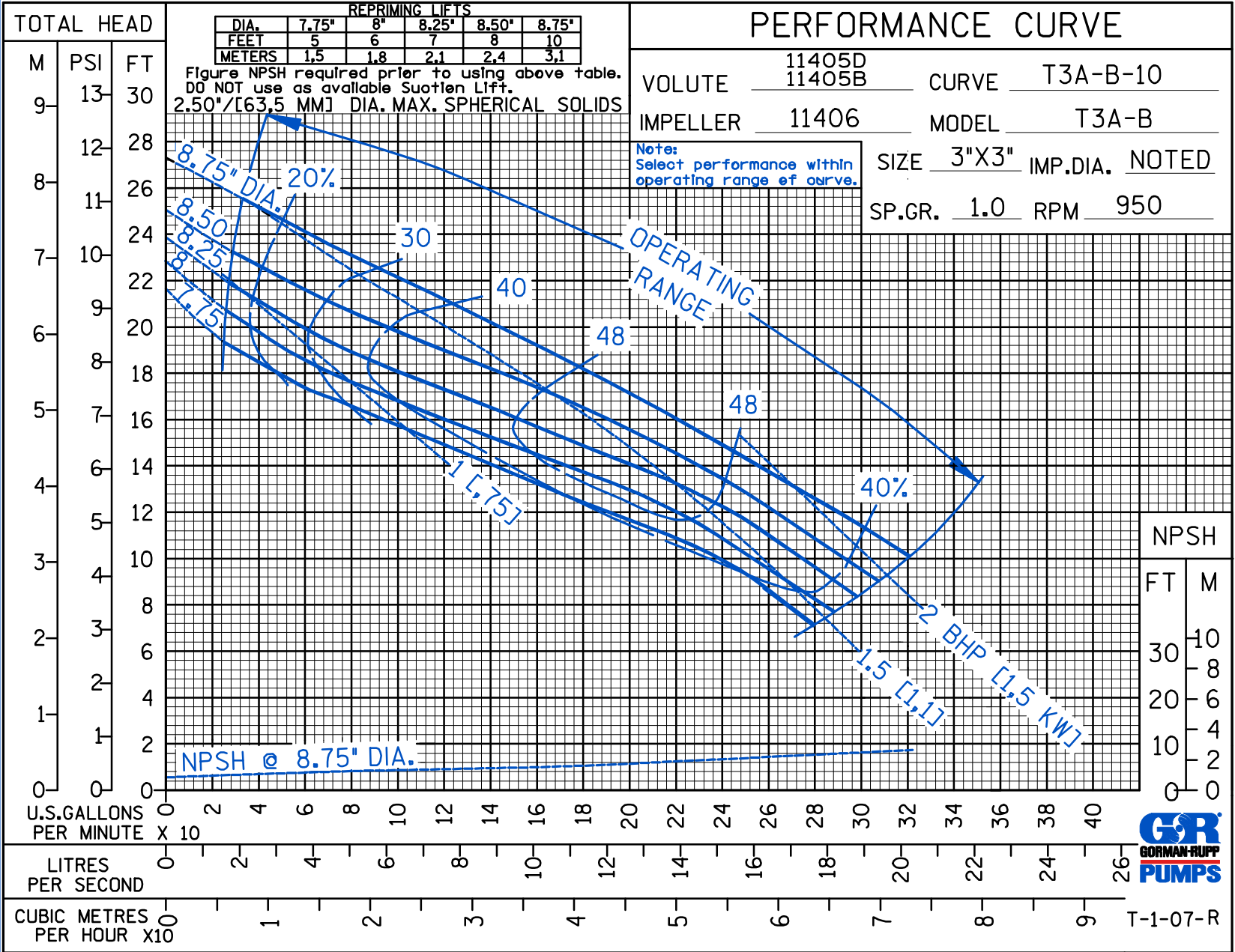


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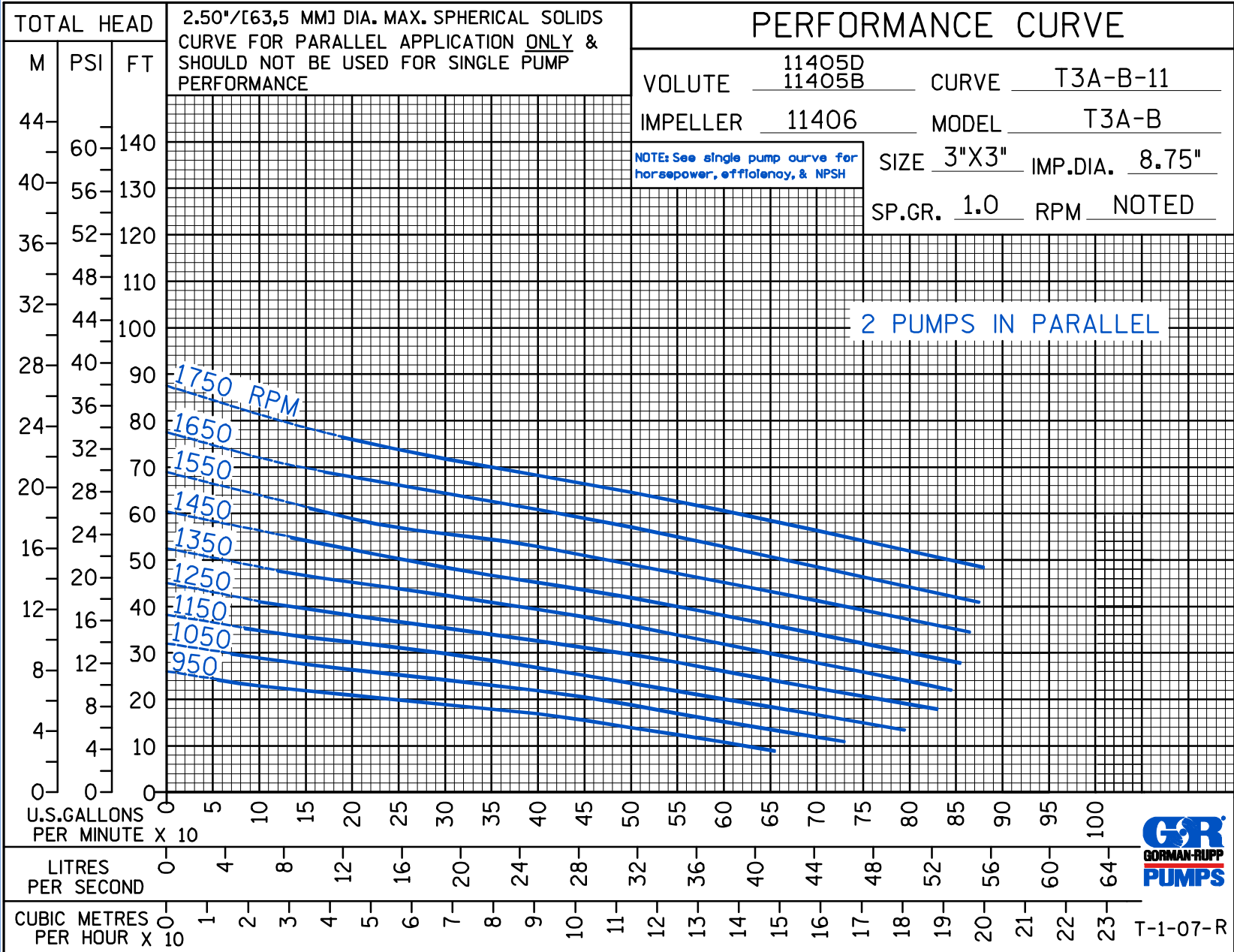


D S W

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

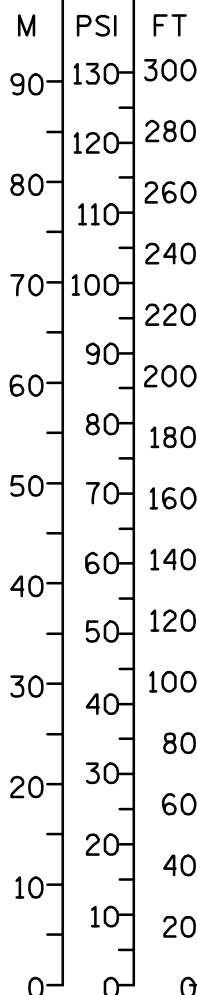
VOLUTE 11405D CURVE T3A-B-12
 11405B
 IMPELLER 11406 MODEL T3A-B
 SIZE 3"X3" IMP.DIA. 8.75"
 SP.GR. 1.0 RPM NOTED

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



U.S. GALLONS PER MINUTE X 10

LITRES PER SECOND

CUBIC METRES PER HOUR X 10



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