



# Self Priming Centrifugal Pump

## Model T2A71-B

Size 2" x 2"

VARIOUS PATENTS APPLY

### PUMP SPECIFICATIONS

**Size:** 2" x 2" (51 mm x 51 mm) NPT - Female.

**Casing:** Gray Iron 30.

Maximum Operating Pressure 79 psi (545 kPa).\*

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

Handles 1 1/2" (38,1 mm) Diameter Spherical Solids.

**Impeller Shaft:** Alloy Steel 4150.

**Shaft Sleeve:** Alloy Steel 4130.

**Replaceable Wear Plate:** Hardened Alloy Steel.

**Removable Cover Plate:** Gray Iron 30; 20 lbs. (9 kg).

**Seal Plate:** G-R Hard Iron.

**Externally Replaceable Flap Valve:** Neoprene w/Steel Reinforcing.

**Bearing Housing:** Gray Iron 30.

**Radial Bearing:** Open Single Row Ball.

**Thrust Bearing:** Open Double Row Ball.

**Bearing and Seal Cavity Lubrication:** SAE 30 Non-Detergent Oil.

**Flanges:** Gray Iron 30.

**Gaskets:** Buna-N, 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:** Automatic Air Release Valve. 120V/240V

Casing Heater. High Pump Temperature Shutdown Kit.

Self-Cleaning Wear Plate.

Gray Iron 30 Suction and Discharge Spool Flanges:

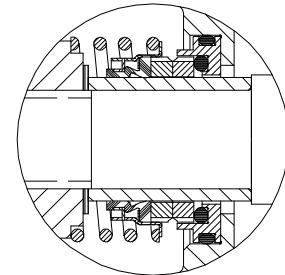
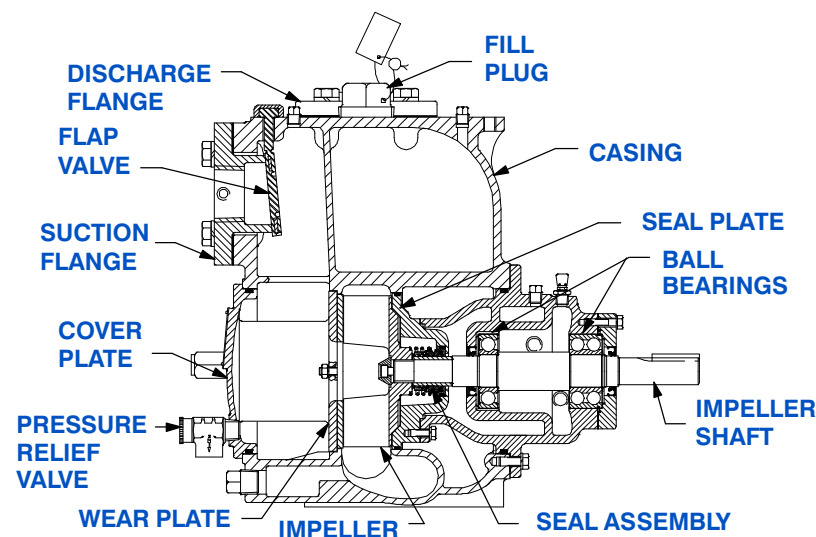
2" ASA (**Specify Model T2A71-B /F**).

50 mm DIN 2527 (PN 16) (**Specify Model T2A71-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 DETAIL

Mechanical, Oil-Lubricated, Double Floating, Self-Aligning. Silicon Carbide Rotating and Stationary Faces. Stainless Steel 316 Stationary Seat. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Stainless Steel 18-8 Cage and Spring. Maximum Temperature of Liquid Pumped, 160°F (71°C).\*



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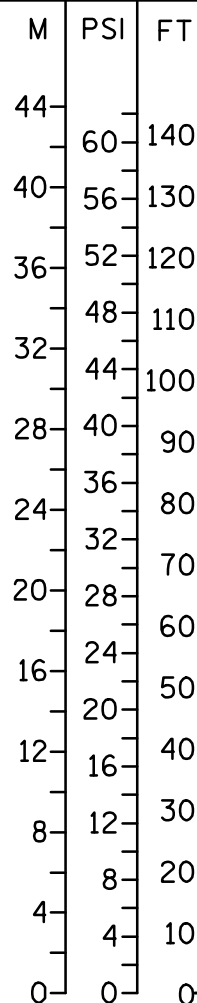
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TOTAL HEAD



U.S. GALLONS PER MINUTE X 10

LITRES PER SECOND

CUBIC METRES PER HOUR X 10

REPRIMING LIFTS							
RPM	1150	1450	1750	2050	2350	2650	2900
FEET	10	19	24	24	24	24	24
METERS	3,1	5,8	7,3	7,3	7,3	7,3	7,3

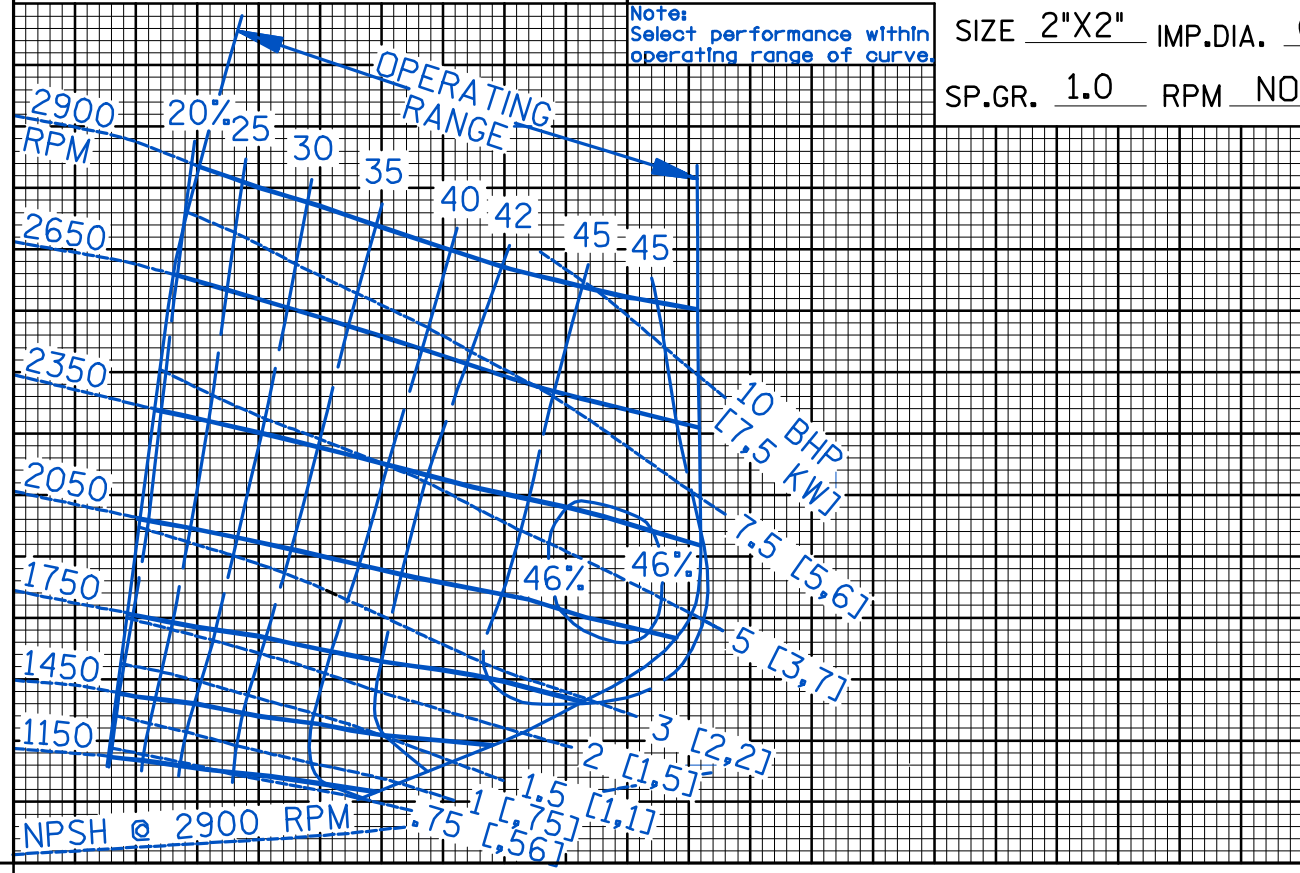
Figure NPSH required prior to using above table.  
 DO NOT use as available Suction Lift.

1.5" / [38,1 MM] DIA. MAX. SPHERICAL SOLIDS

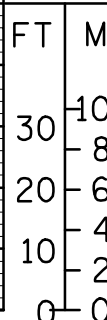
PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-1  
 IMPELLER 38615-093 MODEL T2A-B  
 SIZE 2"X2" IMP.DIA. 6.38"  
 SP.GR. 1.0 RPM NOTED

Note:  
 Select performance within  
 operating range of curve.



NPSH



T-8-03-R

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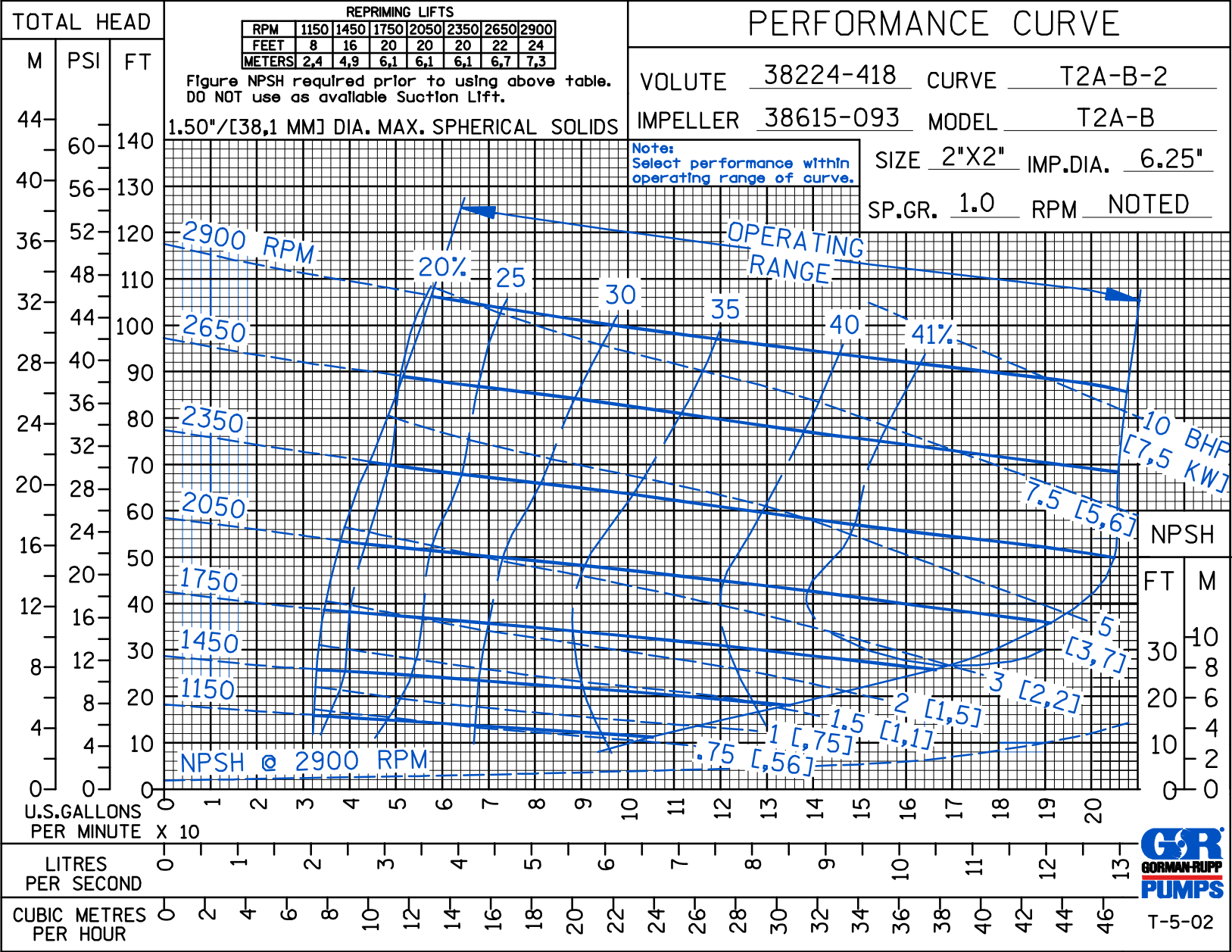


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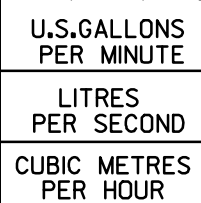
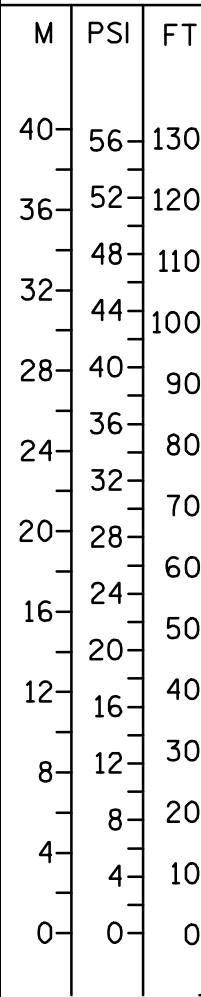
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**TOTAL HEAD**



REPRIMING LIFTS							
RPM	1150	1450	1750	2050	2350	2650	2900
FEET	6	11	16	18	20	24	28
METERS	1,8	3,4	4,9	5,5	6,1	7,3	8,5

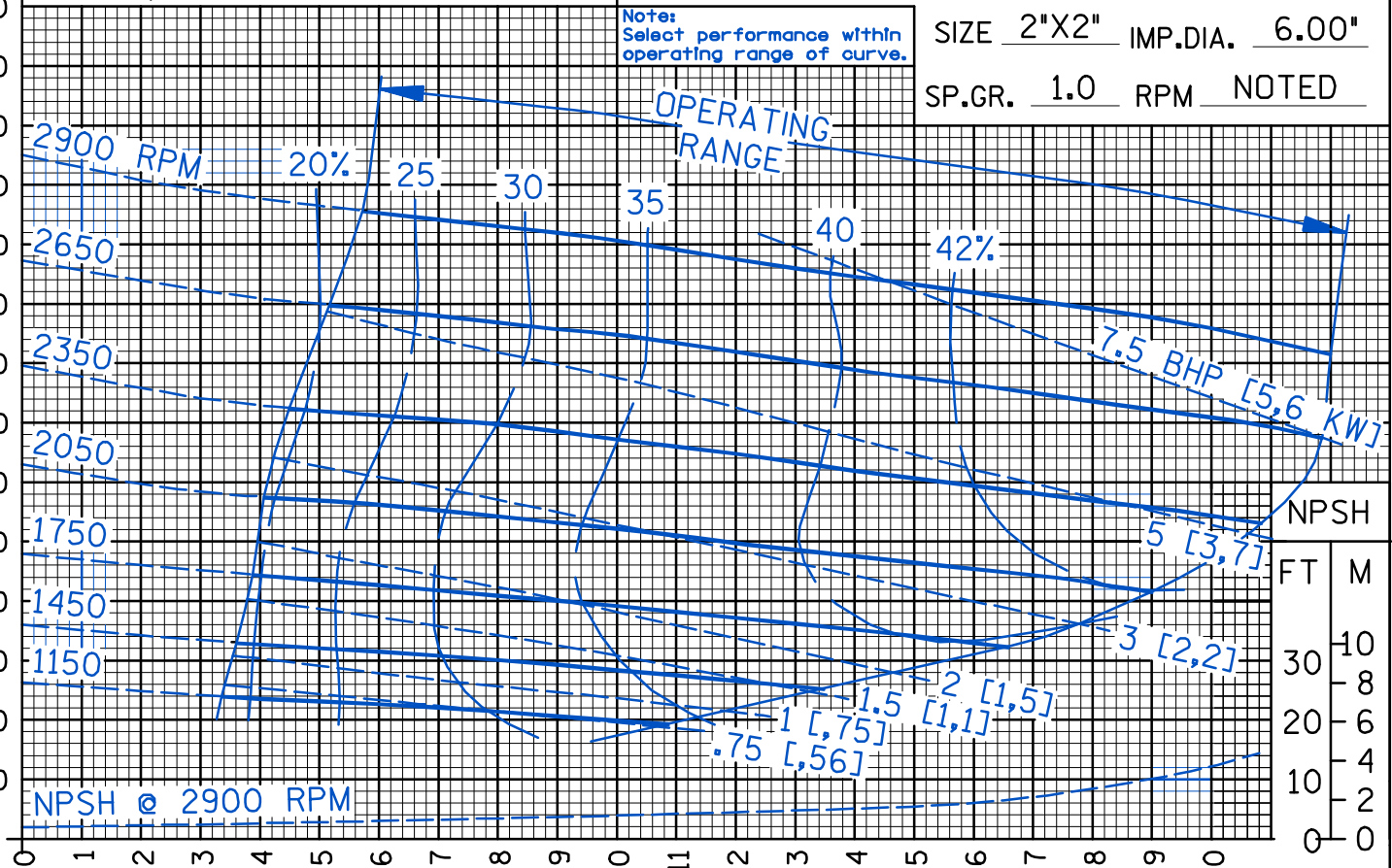
Figure NPSH required prior to using above table.  
 DO NOT use as available Suction Lift.

1.50" [38,1 MM] DIA. MAX. SPHERICAL SOLIDS

**PERFORMANCE CURVE**

VOLUTE 38224-418 CURVE T2A-B-3  
 IMPELLER 38615-093 MODEL T2A-B  
 SIZE 2"X2" IMP.DIA. 6.00"  
 SP.GR. 1.0 RPM NOTED

Note:  
 Select performance within  
 operating range of curve.



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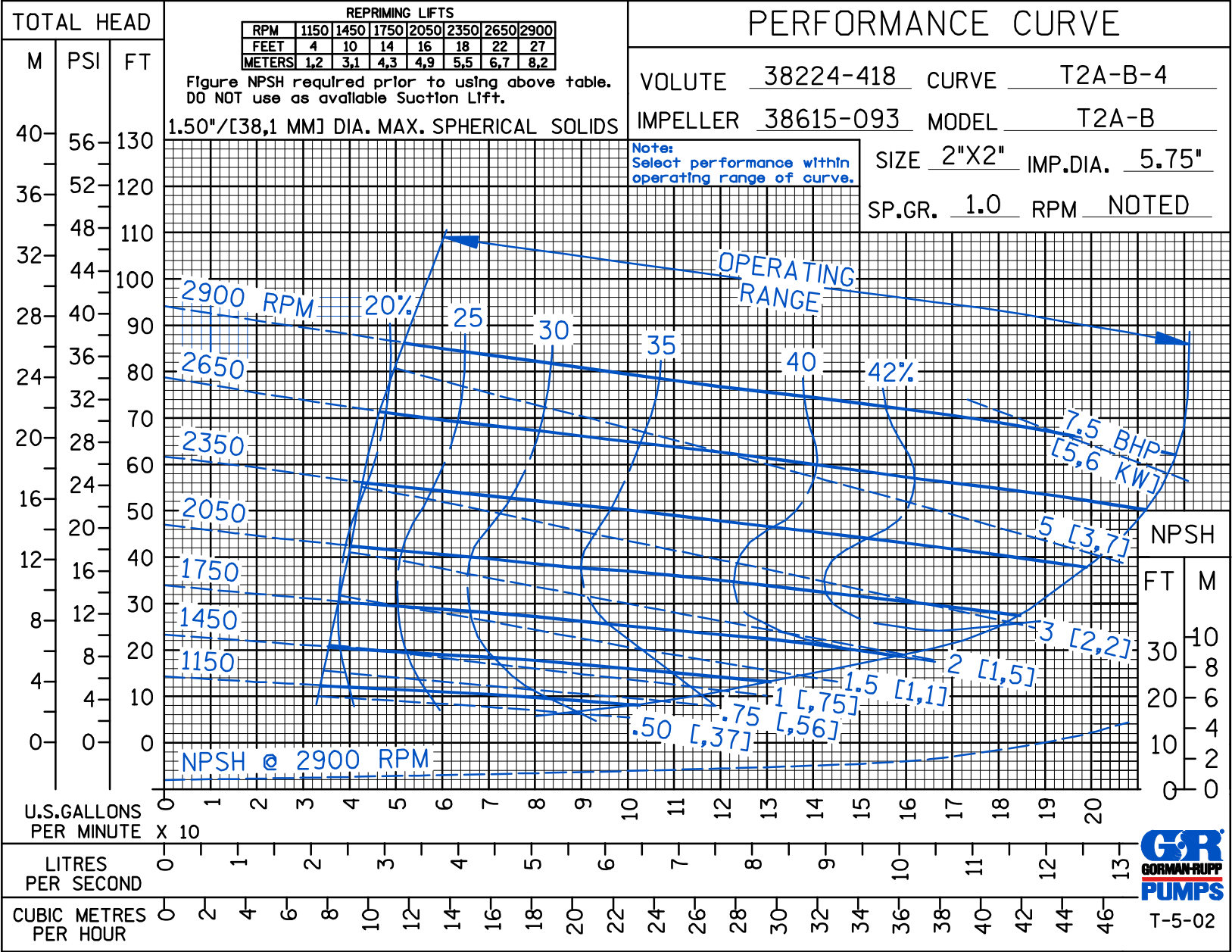


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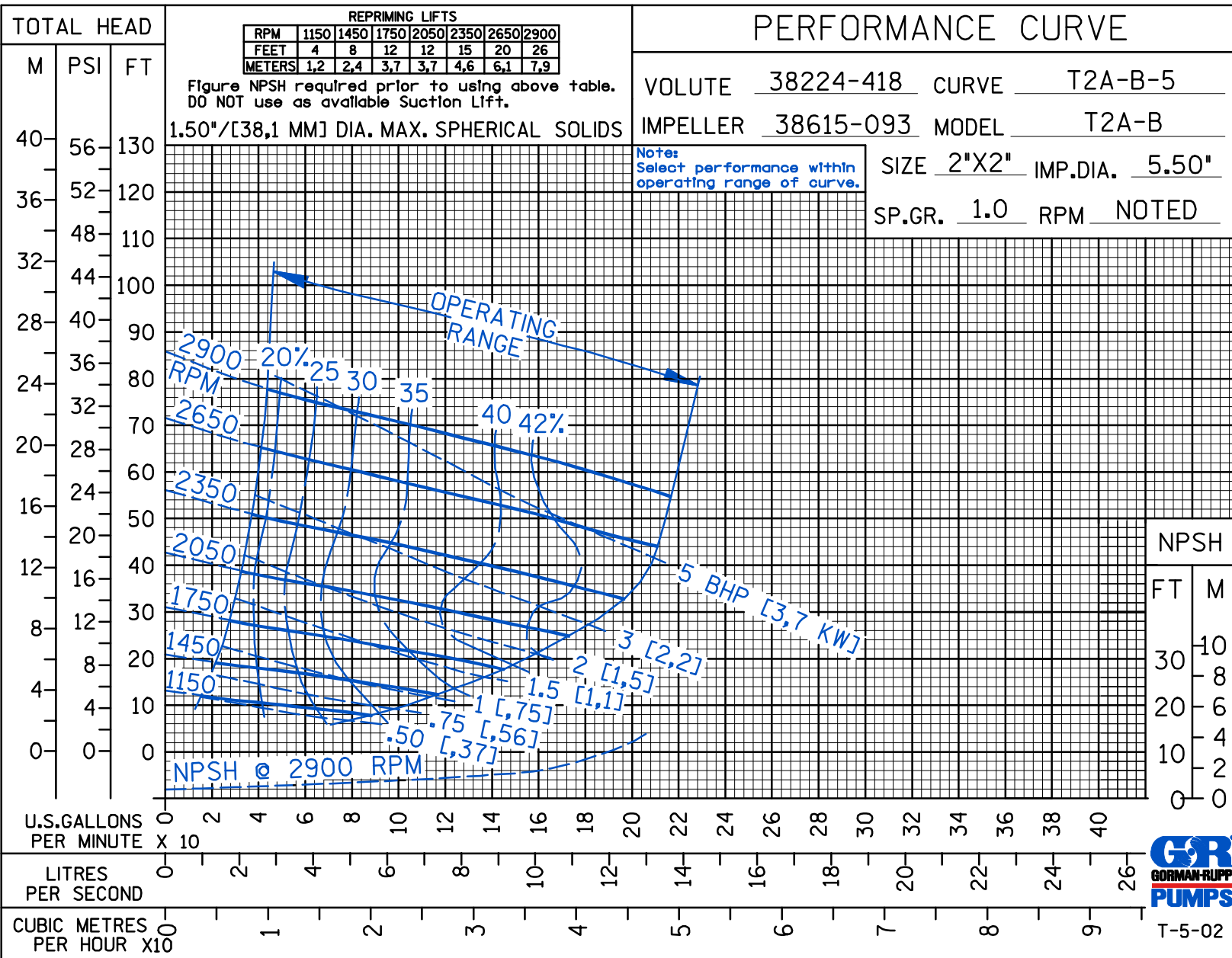


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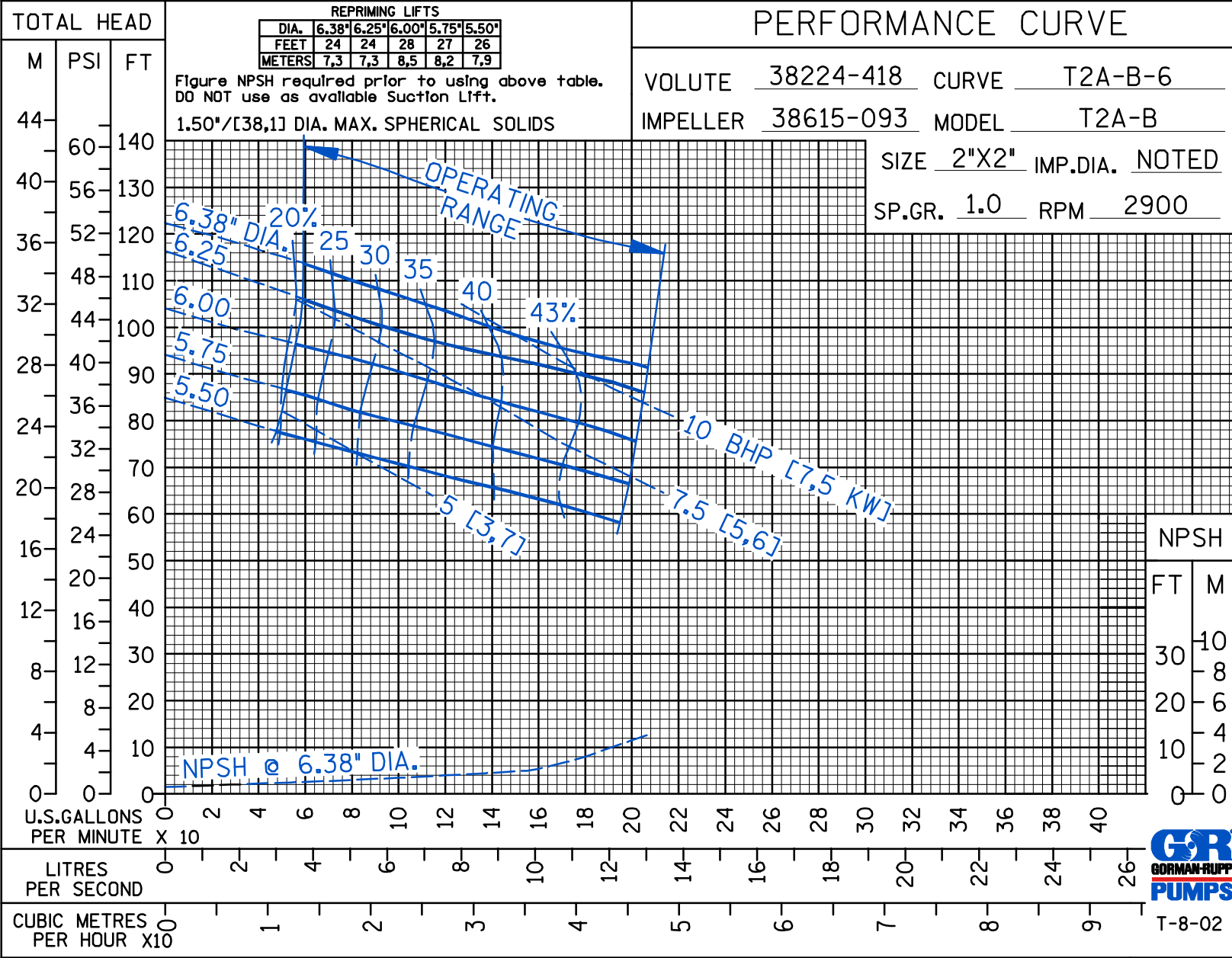
PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-6  
 IMPELLER 38615-093 MODEL T2A-B  
 SIZE 2"X2" IMP.DIA. NOTED  
 SP.GR. 1.0 RPM 2900

REPRIMING LIFTS					
DIA.	6.38'	6.25'	6.00'	5.75'	5.50'
FEET	24	24	28	27	26
METERS	7,3	7,3	8,5	8,2	7,9

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

1.50"/[38,1] DIA. MAX. SPHERICAL SOLIDS



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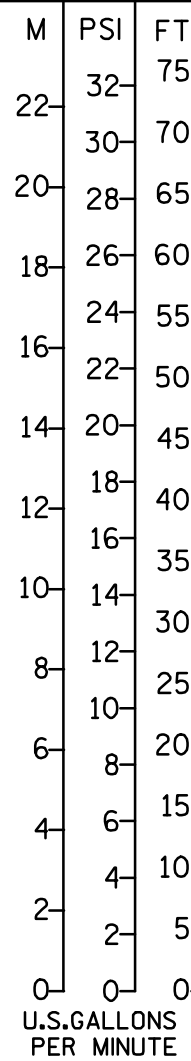
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TOTAL HEAD



REPRIMING LIFTS					
DIA.	6.38"	6.25"	6.00"	5.75"	5.50"
FEET	19	16	11	10	8
METERS	5,8	4,9	3,4	3,1	2,4

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

1.50"/[38,1] DIA. MAX. SPHERICAL SOLIDS

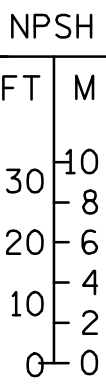
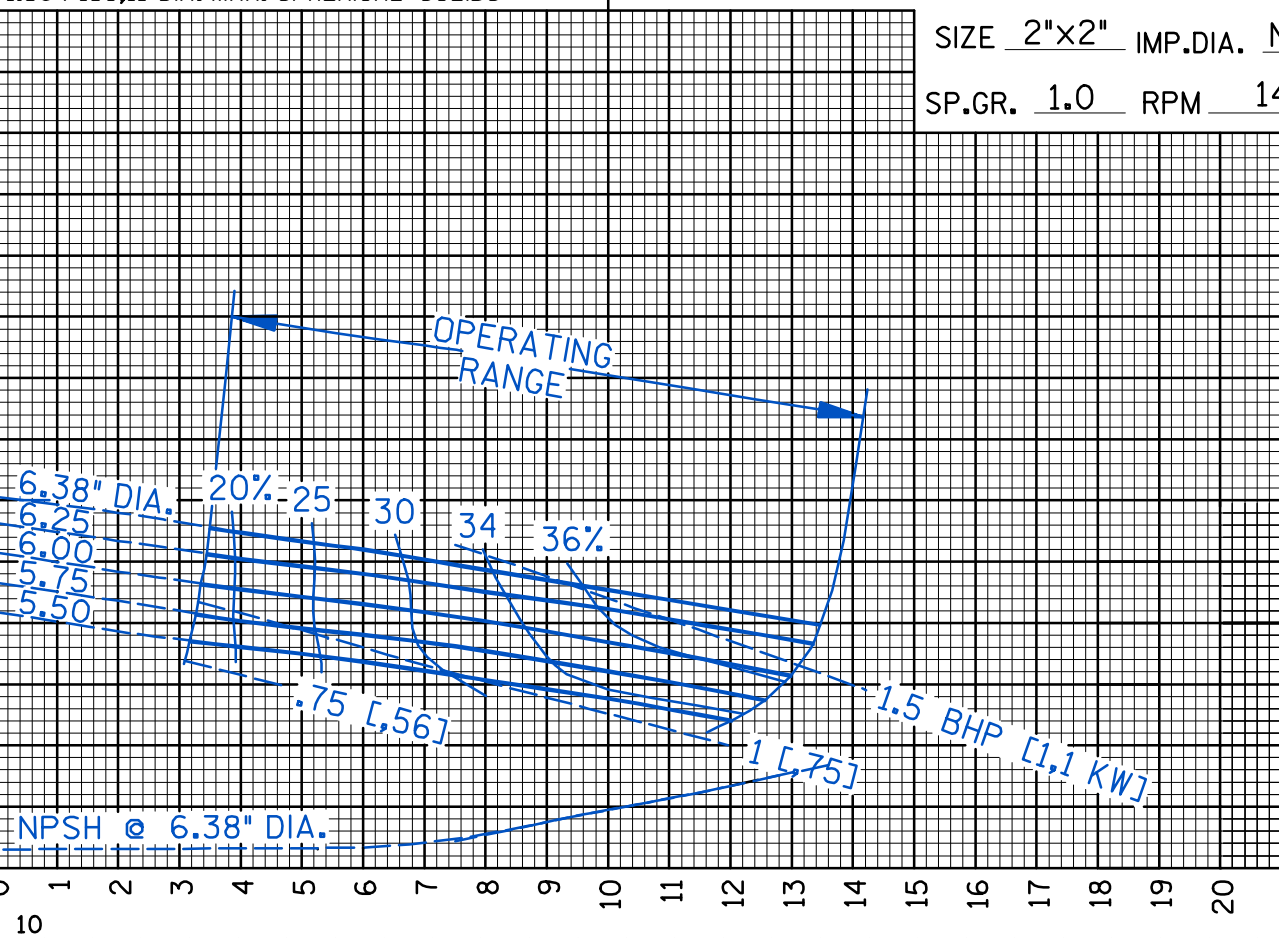
PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-7

IMPELLER 38615-093 MODEL T2A-B

SIZE 2"x2" IMP.DIA. NOTED

SP.GR. 1.0 RPM 1450



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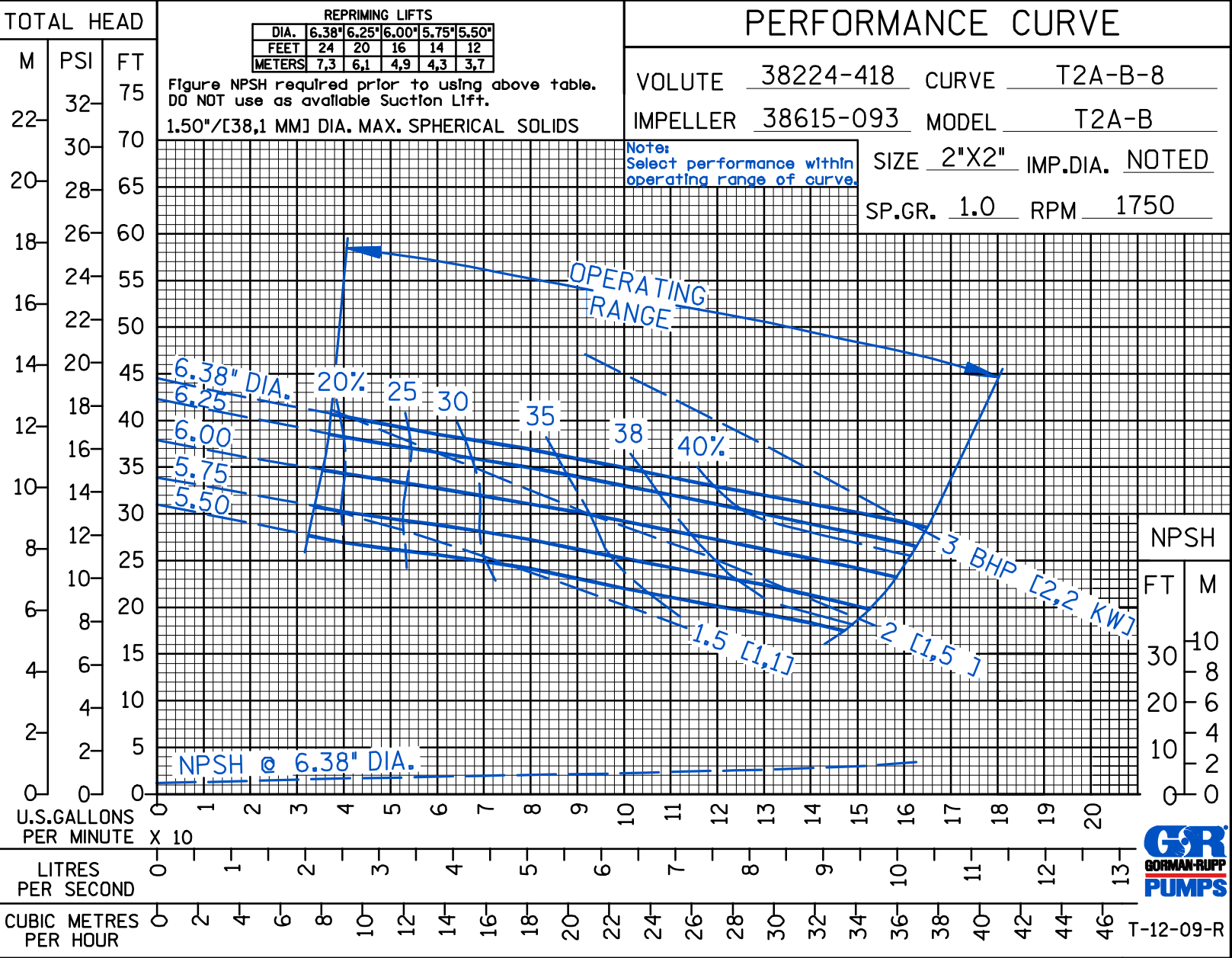
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PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-9

IMPELLER 38615-093 MODEL T2A-B

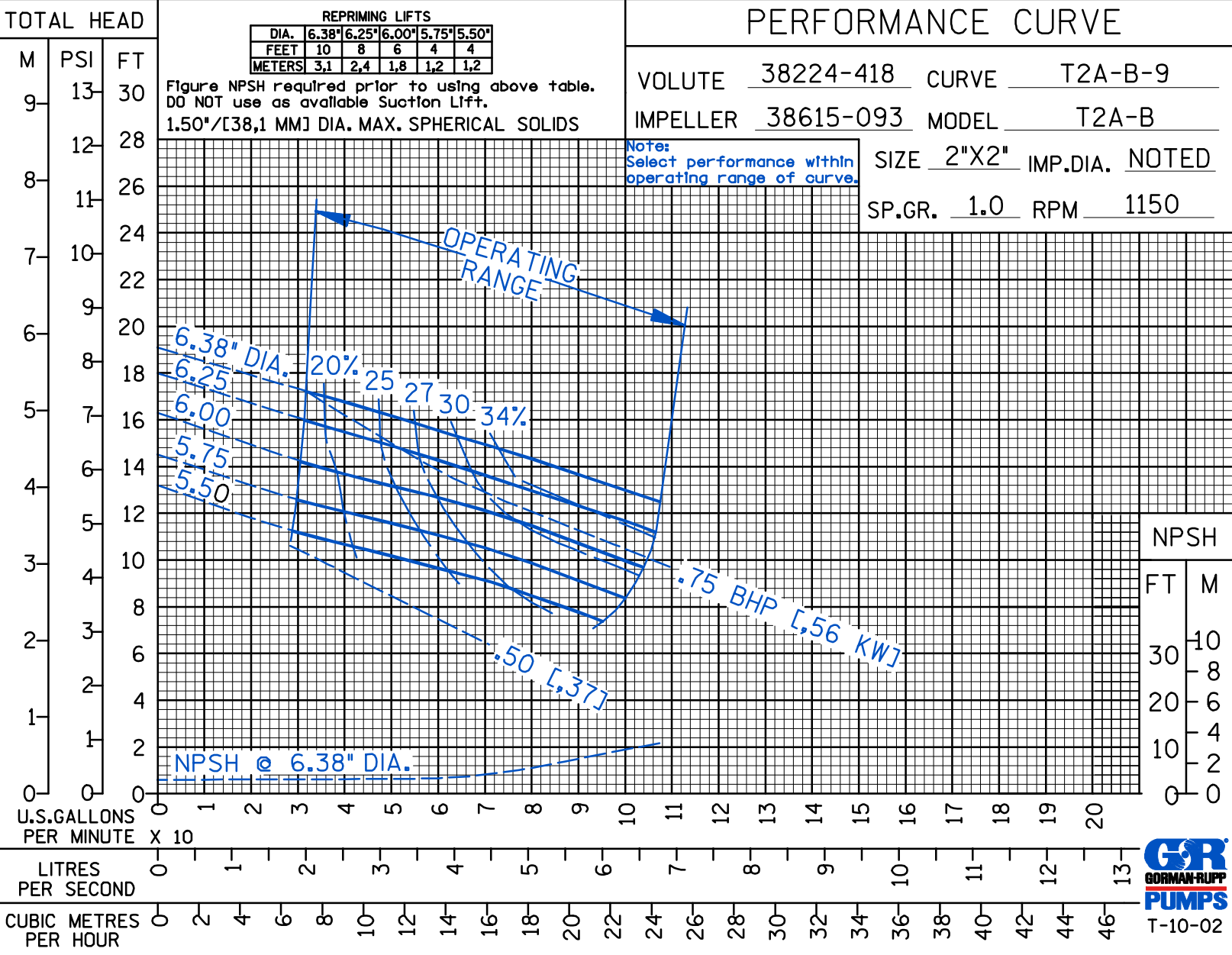
SIZE 2"X2" IMP.DIA. NOTED

SP.GR. 1.0 RPM 1150

Note:  
Select performance within  
operating range of curve.

REPRIMING LIFTS					
DIA.	6.38"	6.25"	6.00"	5.75"	5.50"
FEET	10	8	6	4	4
METERS	3,1	2,4	1,8	1,2	1,2

Figure NPSH required prior to using above table.  
DO NOT use as available Suction Lift.  
1.50"/[38,1 MM] DIA. MAX. SPHERICAL SOLIDS



T-10-02



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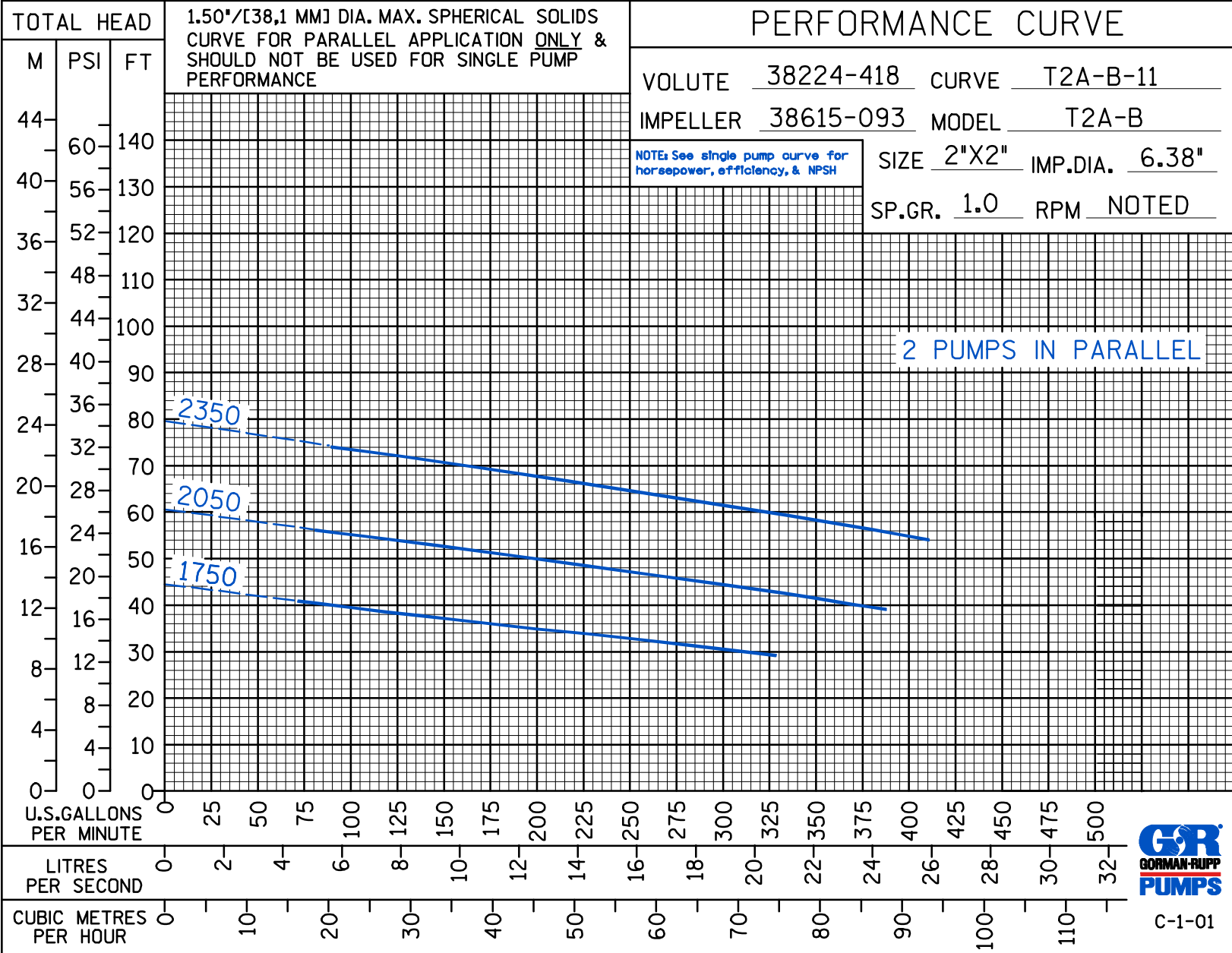
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PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-11  
 IMPELLER 38615-093 MODEL T2A-B  
 SIZE 2"X2" IMP.DIA. 6.38"  
 SP.GR. 1.0 RPM NOTED

NOTE: See single pump curve for horsepower, efficiency, & NPSH

2 PUMPS IN PARALLEL



1.50"/[38,1 MM] DIA. MAX. SPHERICAL SOLIDS CURVE FOR PARALLEL APPLICATION ONLY & SHOULD NOT BE USED FOR SINGLE PUMP PERFORMANCE



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C-1-01

### PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-12

IMPELLER 38615-093 MODEL T2A-B

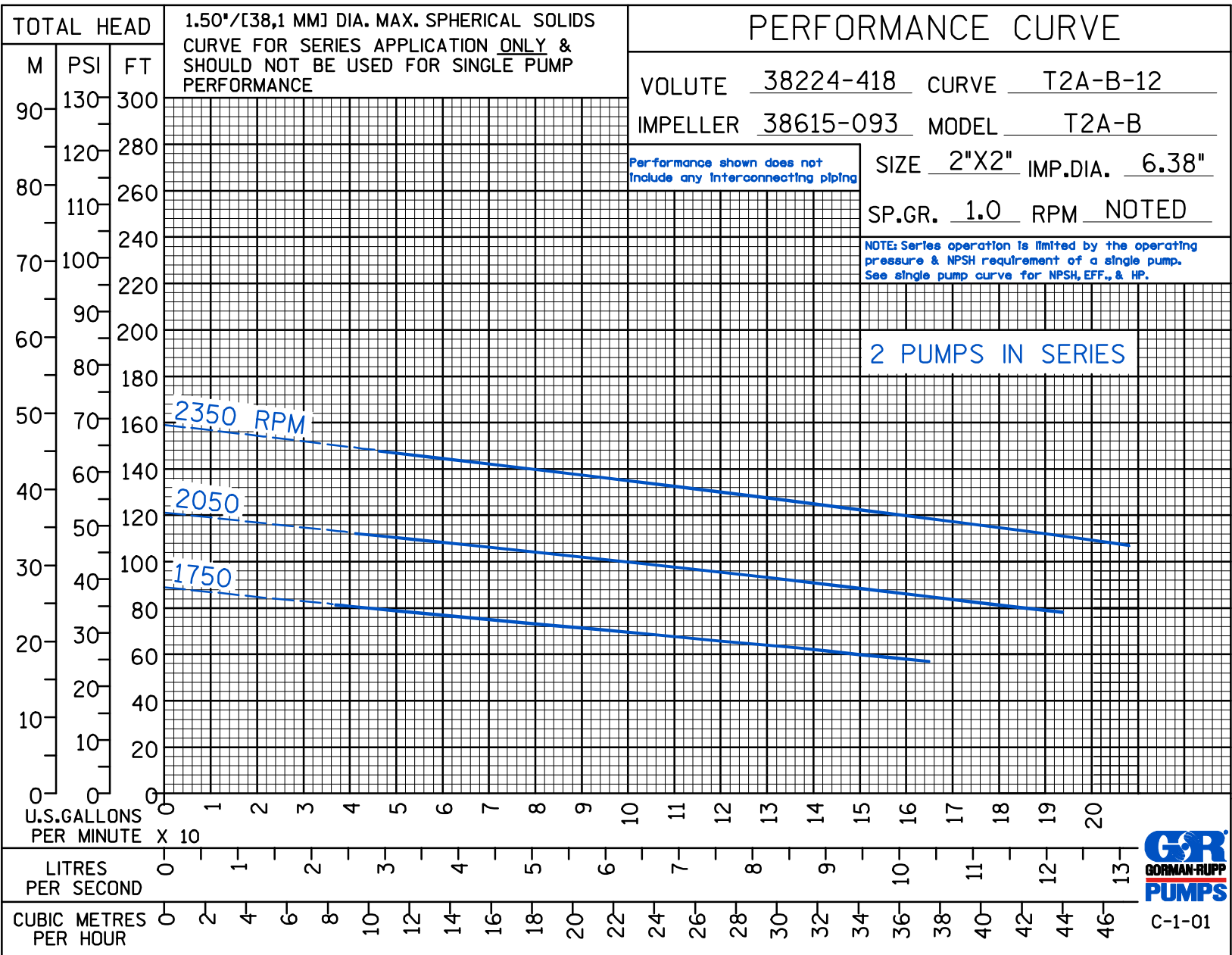
SIZE 2"X2" IMP.DIA. 6.38"

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



1.50"/[38,1 MM] DIA. MAX. SPHERICAL SOLIDS  
CURVE FOR SERIES APPLICATION ONLY &  
SHOULD NOT BE USED FOR SINGLE PUMP  
PERFORMANCE



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