

CDS



VARIOUS PATENTS APPLY

Self Priming Centrifugal Pump

Model T2A65-B

Size 2" x 2"

PUMP SPECIFICATIONS

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

Casing: Stainless Steel CD4MCu.

Maximum Operating Pressure 79 psi (545 kPa).*

Semi-Open Type, Two Vane Impeller: Stainless Steel CD4MCu.

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

Impeller Shaft: Stainless Steel 17-4 PH.

Shaft Sleeve: Stainless Steel 316.

Replaceable Wear Plate: Stainless Steel CD4MCu.

Removable Cover Plate: Stainless Steel CD4MCu; 20 lbs. (9 kg).

Seal Plate: Stainless Steel CD4MCu.

Externally Replaceable Flap Valve: Fluorocarbon (DuPont Viton® or Equivalent) w/Steel Reinforcing.

Bearing Housing: Stainless Steel CD4MCu.

Radial Bearing: Open Single Row Ball.

Thrust Bearing: Open Double Row Ball.

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

Flanges: 125# Stainless Steel 316.

Gaskets: Fluorocarbon (DuPont Viton® or Equivalent).

O-Rings: Fluorocarbon (DuPont Viton® or Equivalent).

Hardware: Stainless Steel 316.

Stainless Steel 316 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.

Stainless Steel CD4MCu Suction

and Discharge Spool Flanges:

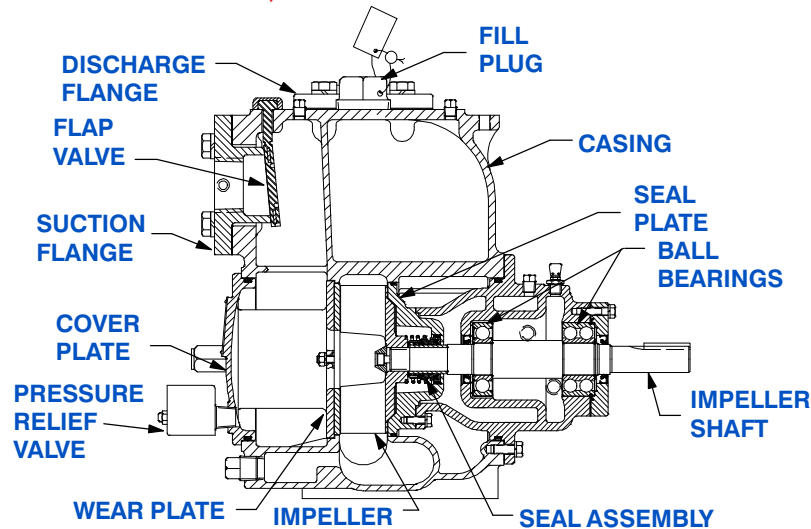
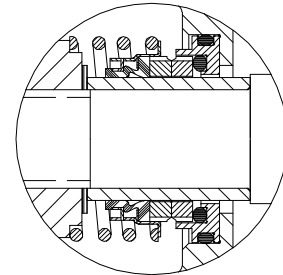
2" ASA (**Specify Model T2A65-B /F**).

50 mm DIN 2527 (PN 16) (**Specify Model T2A65-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 DETAILS

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 316 Cage and Spring. Maximum Temperature of Liquid Pumped, 160°F (71°C).*



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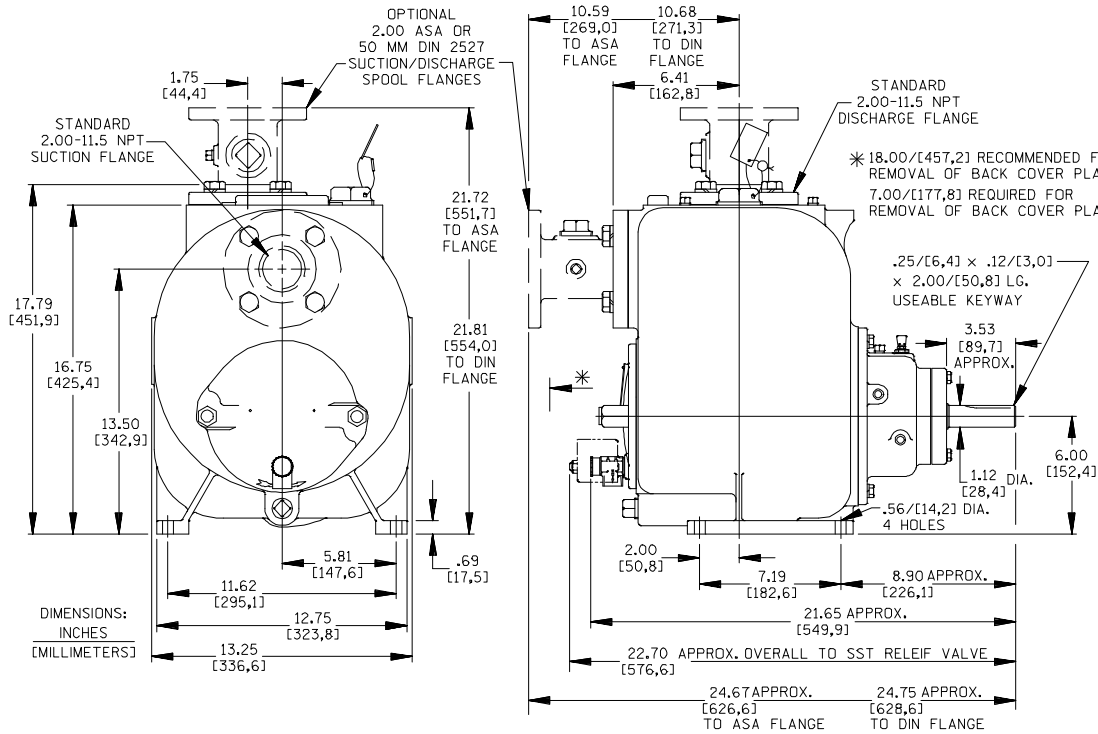
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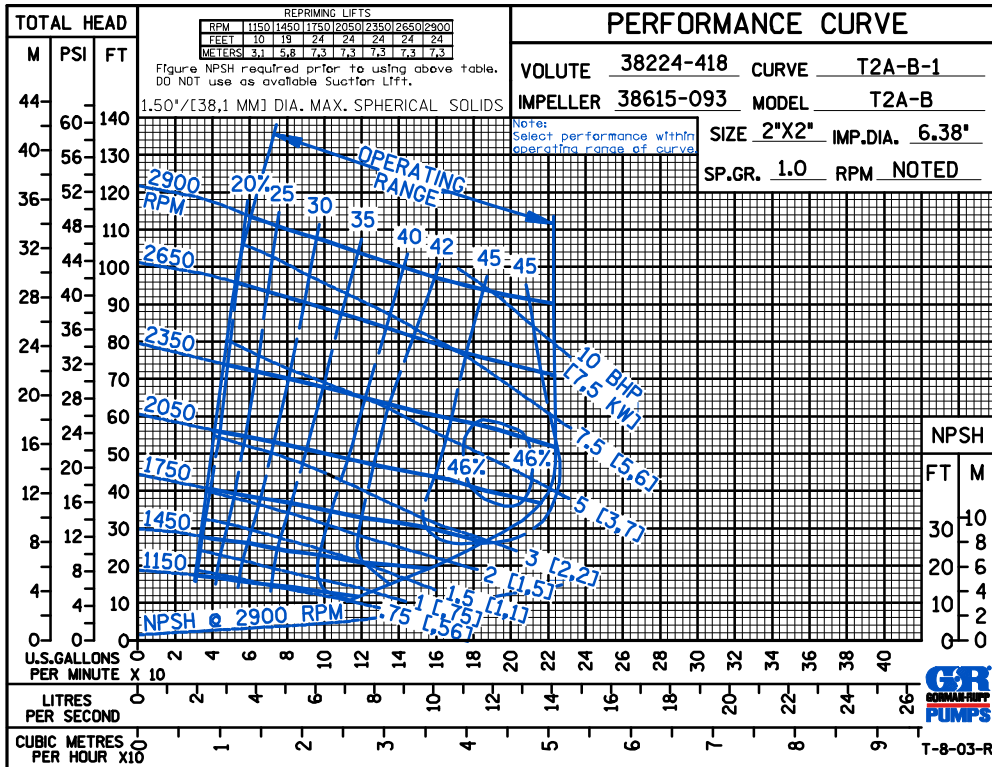
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APPROXIMATE DIMENSIONS and WEIGHTS

NET WEIGHT: 230 LBS. (104 KG.)*
SHIPPING WEIGHT: 240 LBS. (109 KG.)*
EXPORT CRATE: 7.9 CU. FT. (0,22 CU. M.)
***ADD 9 LBS. (4,1 KG.) W/EACH SPOOL FLANGE**



OPTIONAL ASA OR DIN STANDARD SUCTION & DISCHARGE SPOOL FLANGES AVAILABLE



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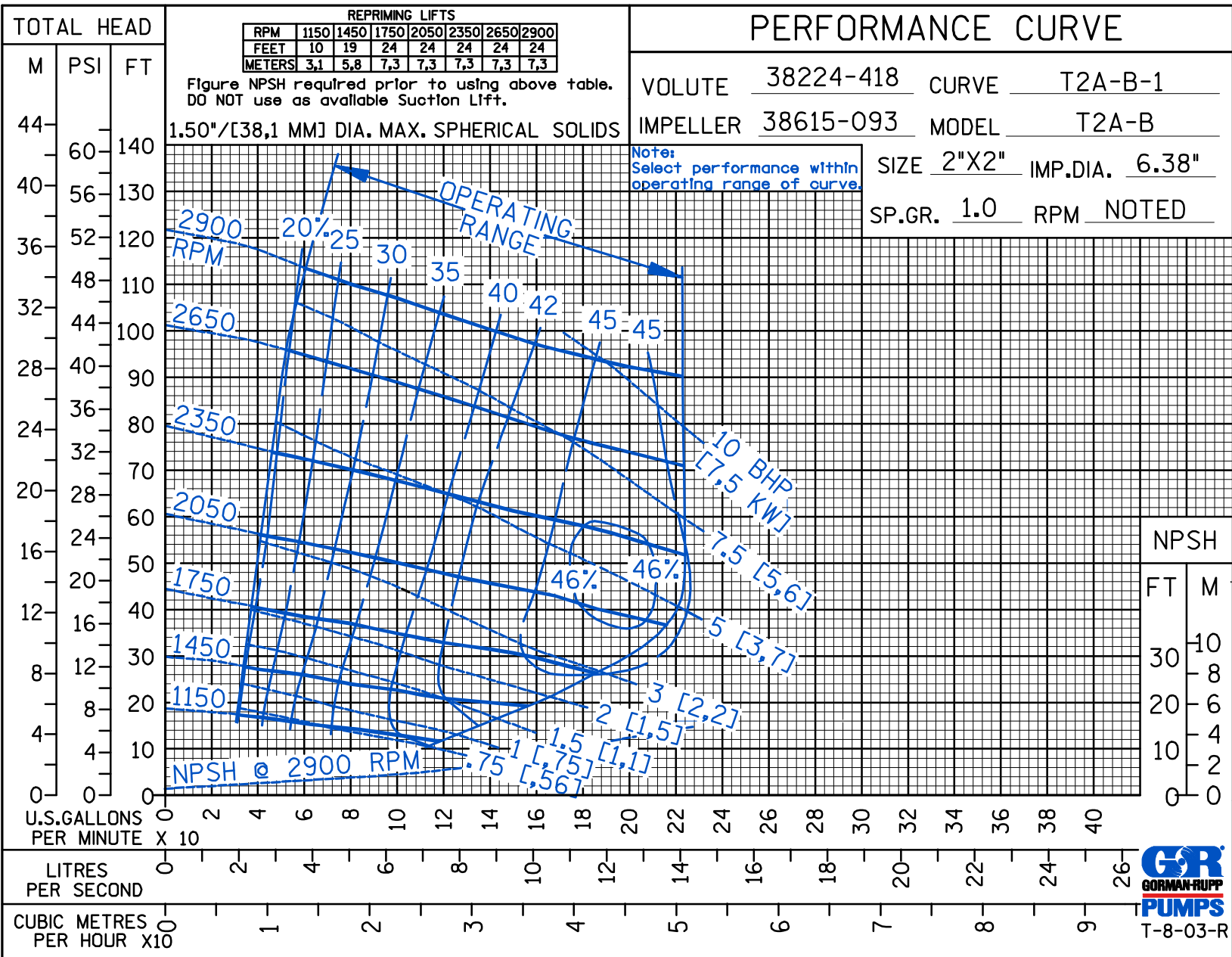


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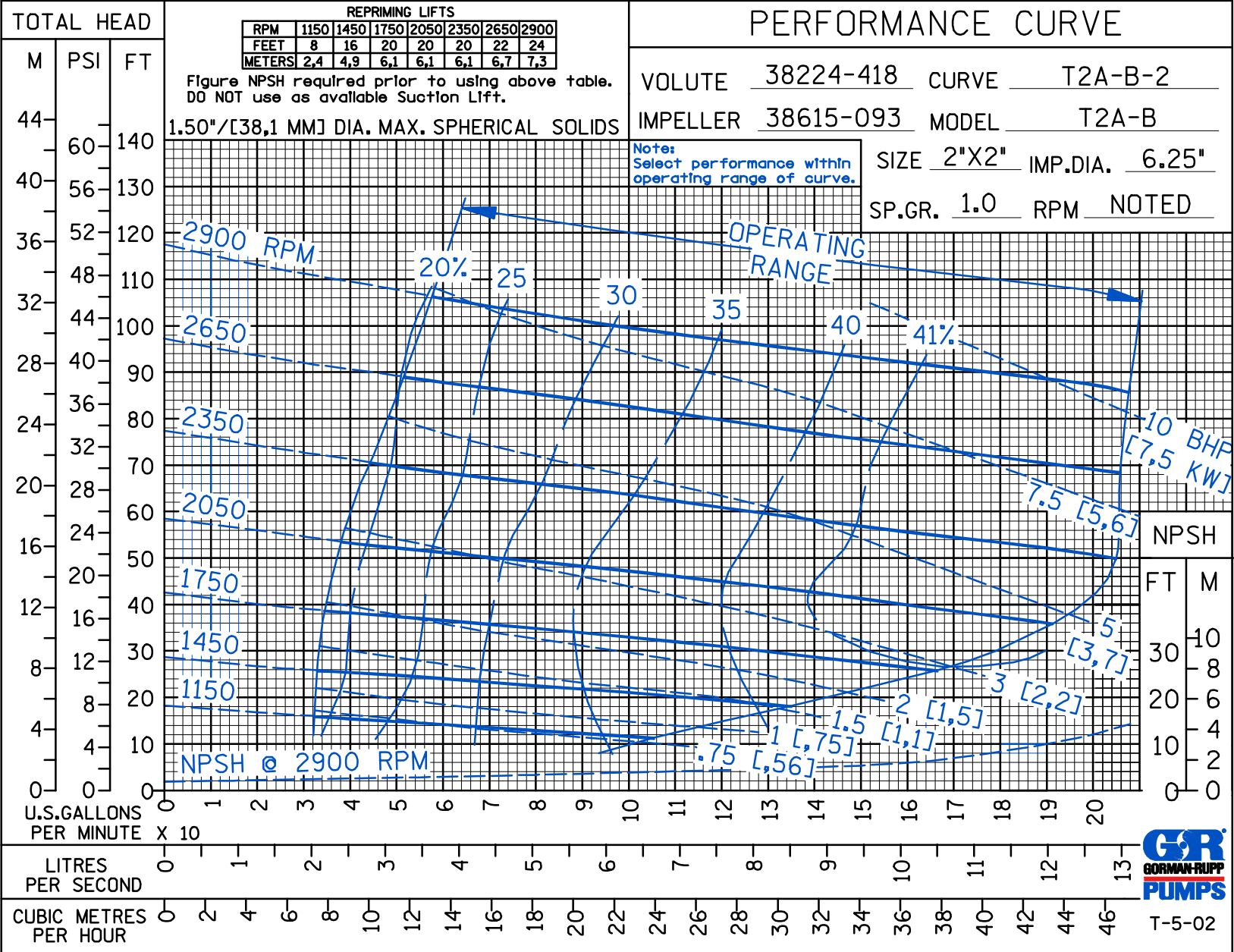


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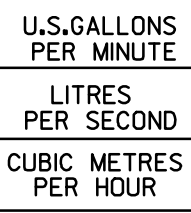
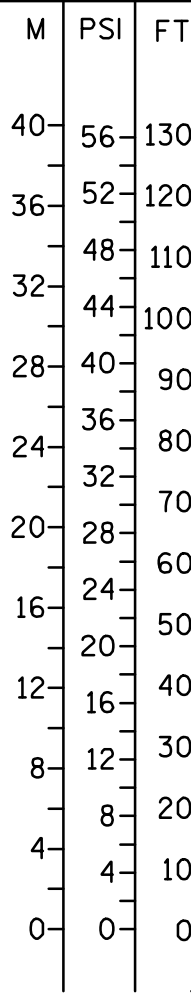
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TOTAL HEAD



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

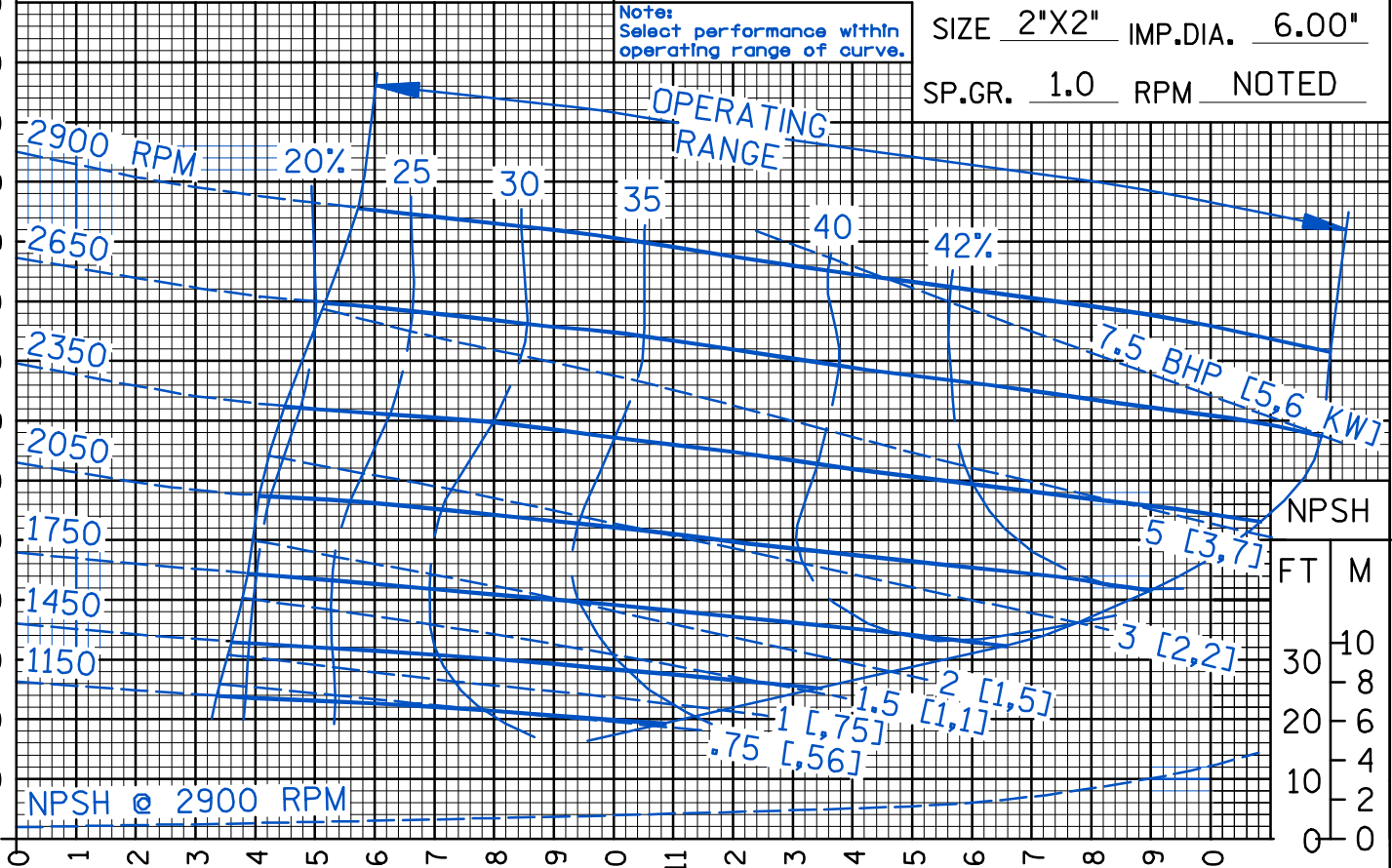
Figure NPSH required prior to using above table. DO NOT use as available Suction Lift.

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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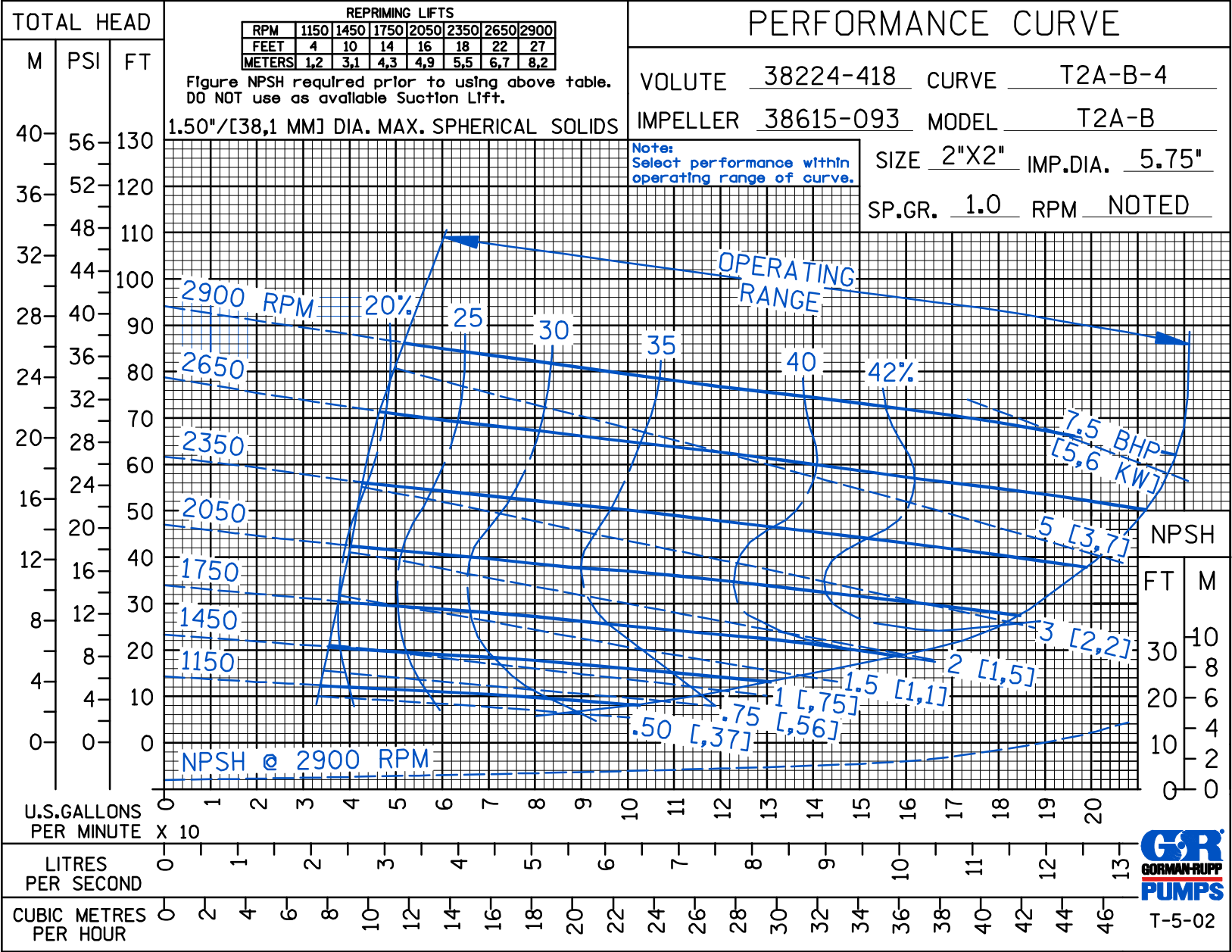


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TOTAL HEAD

M PSI FT
 40 56 130
 36 52 120
 48 110
 32 44 100
 28 40 90
 24 36 80
 20 28 70
 16 24 60
 12 20 50
 8 16 40
 4 8 30
 0 4 20
 0 0 10
 0 0 0

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	4	8	12	12	15	20	26
METERS	1,2	2,4	3,7	3,7	4,6	6,1	7,9

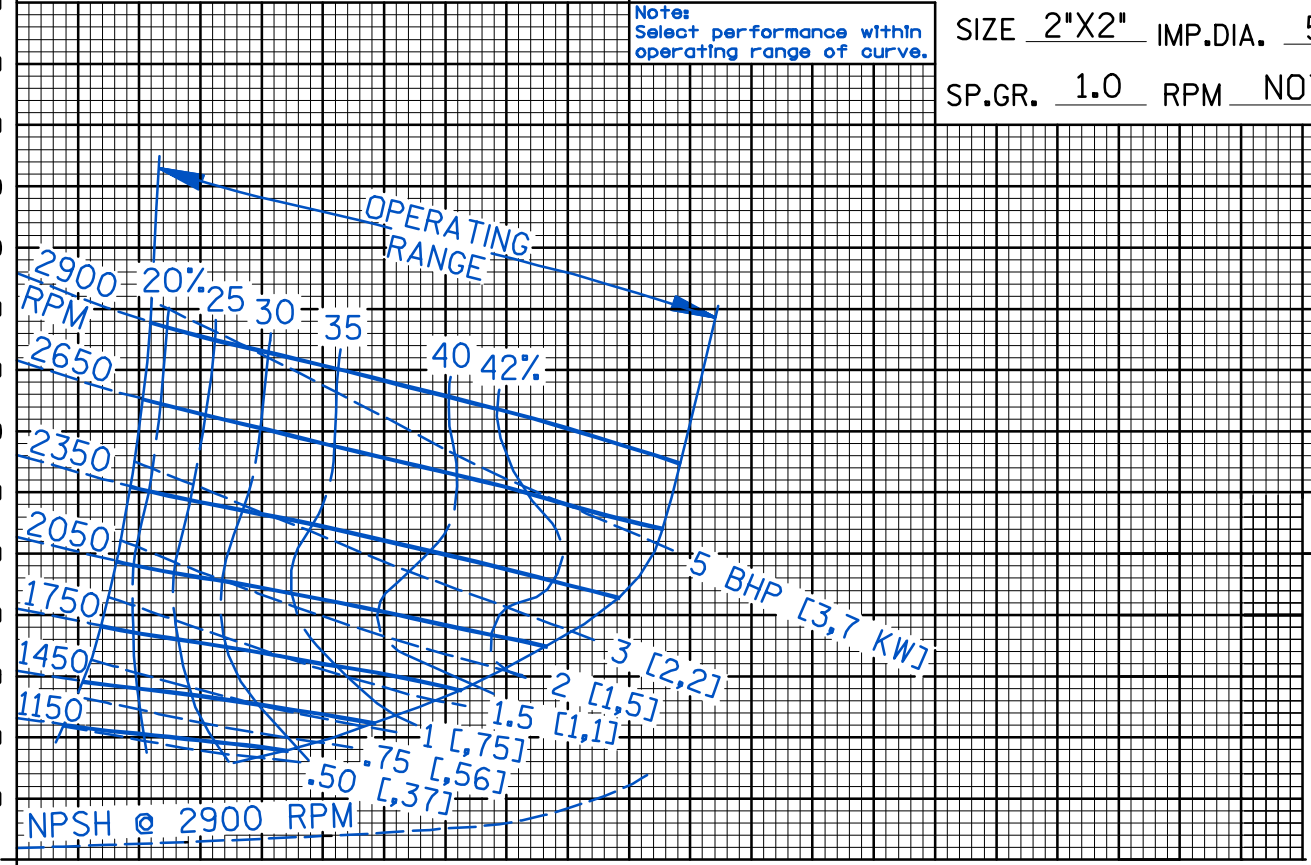
Figure NPSH required prior to using above table.
 DO NOT use as available Suction Lift.

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

PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-5
 IMPELLER 38615-093 MODEL T2A-B
 SIZE 2"X2" IMP.DIA. 5.50"
 SP.GR. 1.0 RPM NOTED

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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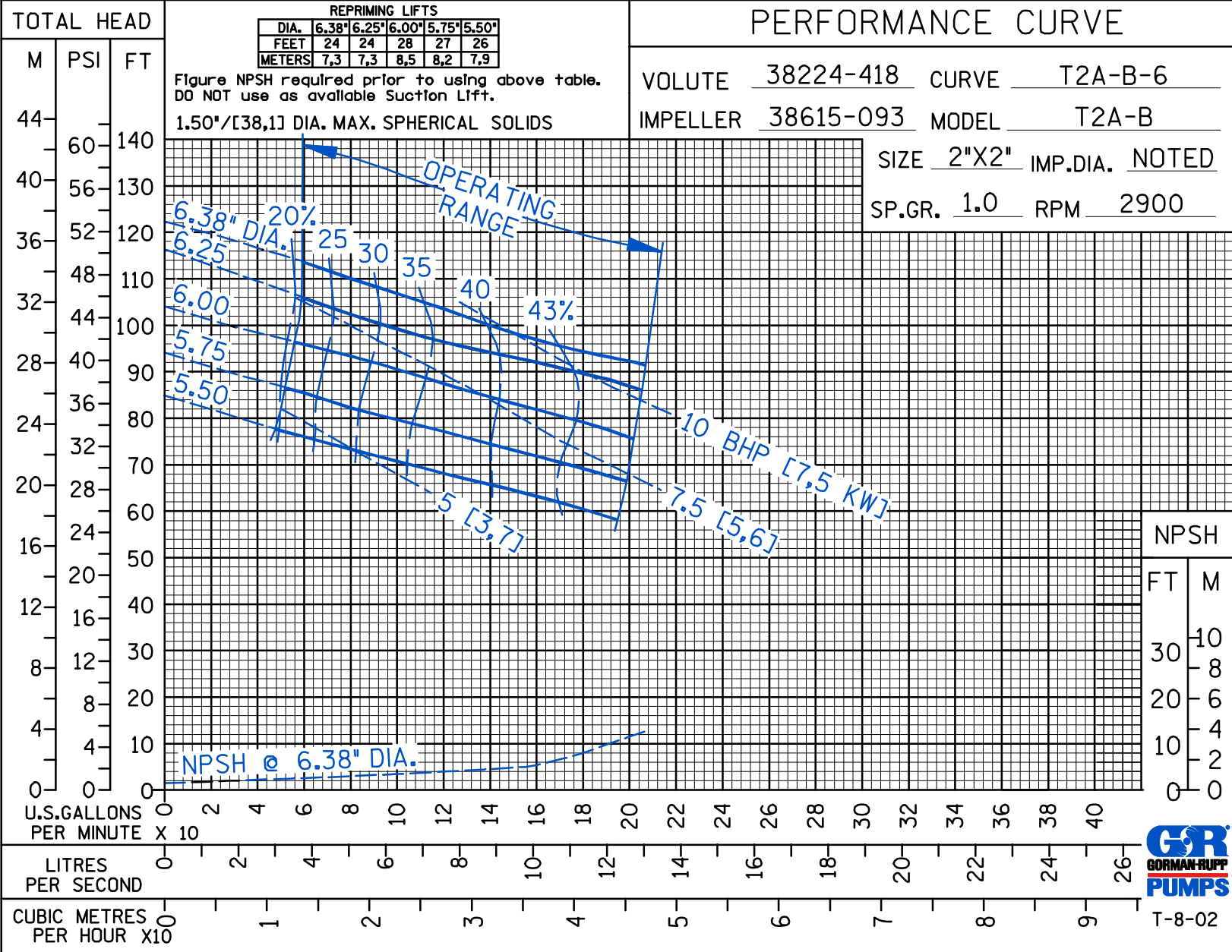
PERFORMANCE CURVE

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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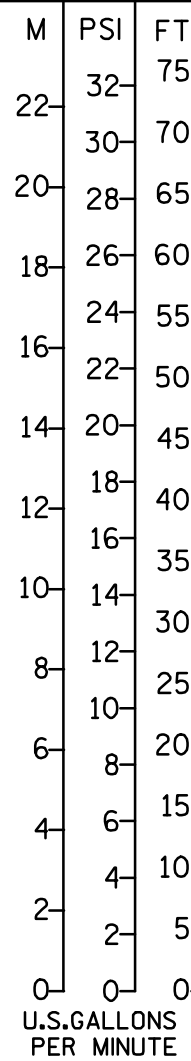
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TOTAL HEAD



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

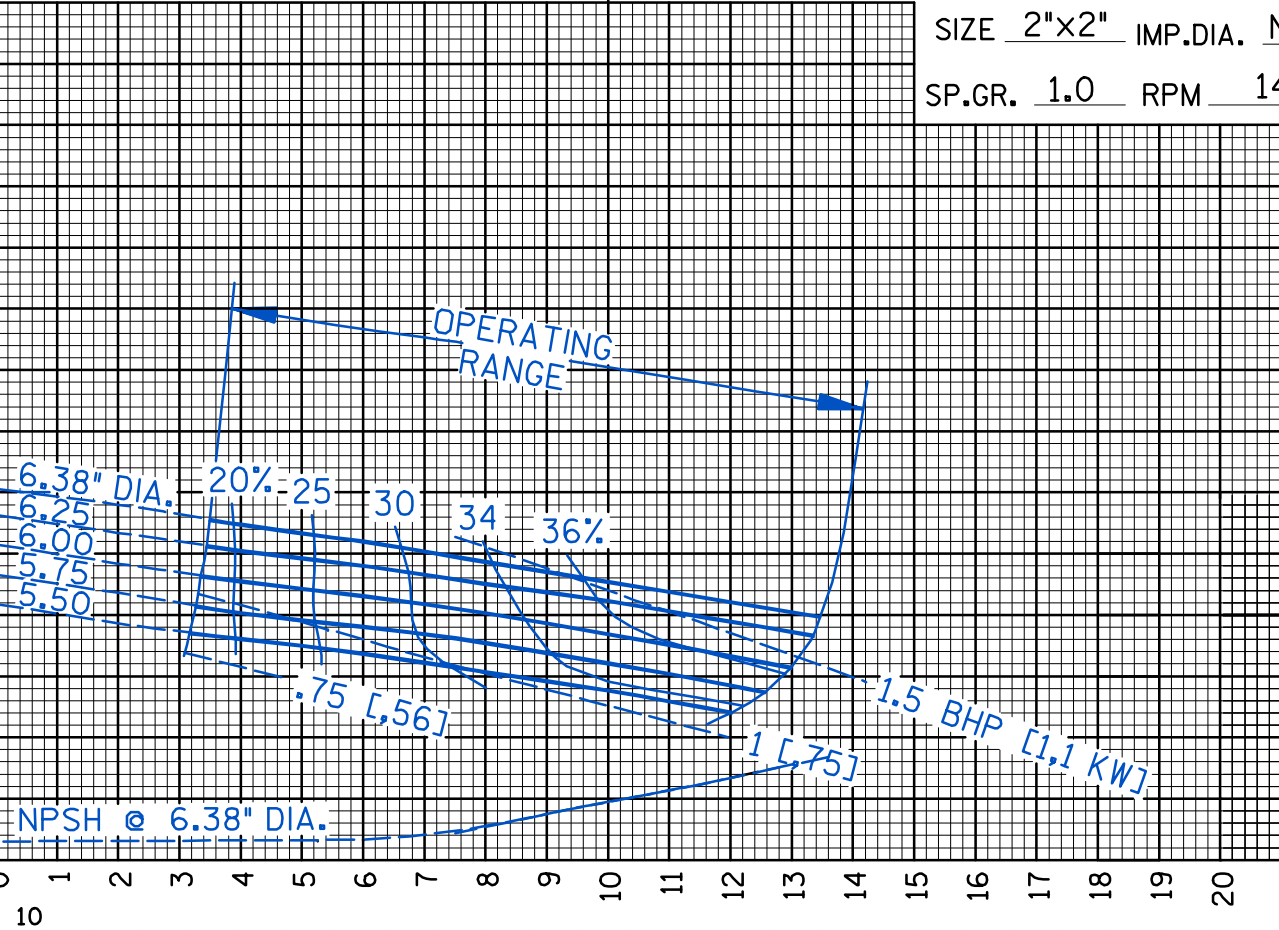
PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-7

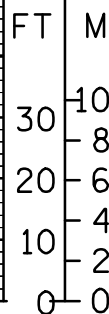
IMPELLER 38615-093 MODEL T2A-B

SIZE 2"x2" IMP.DIA. NOTED

SP.GR. 1.0 RPM 1450



NPSH



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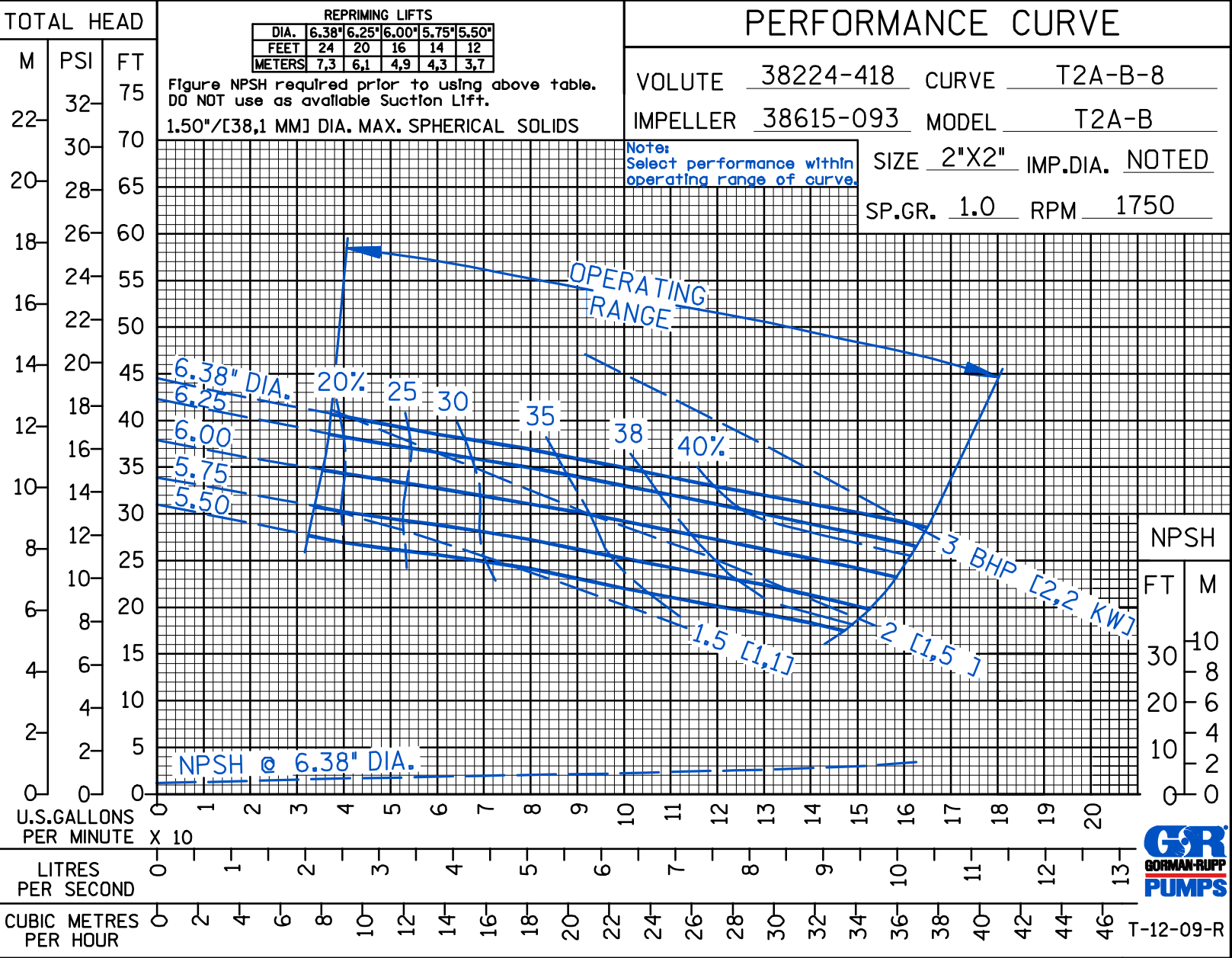
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PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-9

IMPELLER 38615-093 MODEL T2A-B

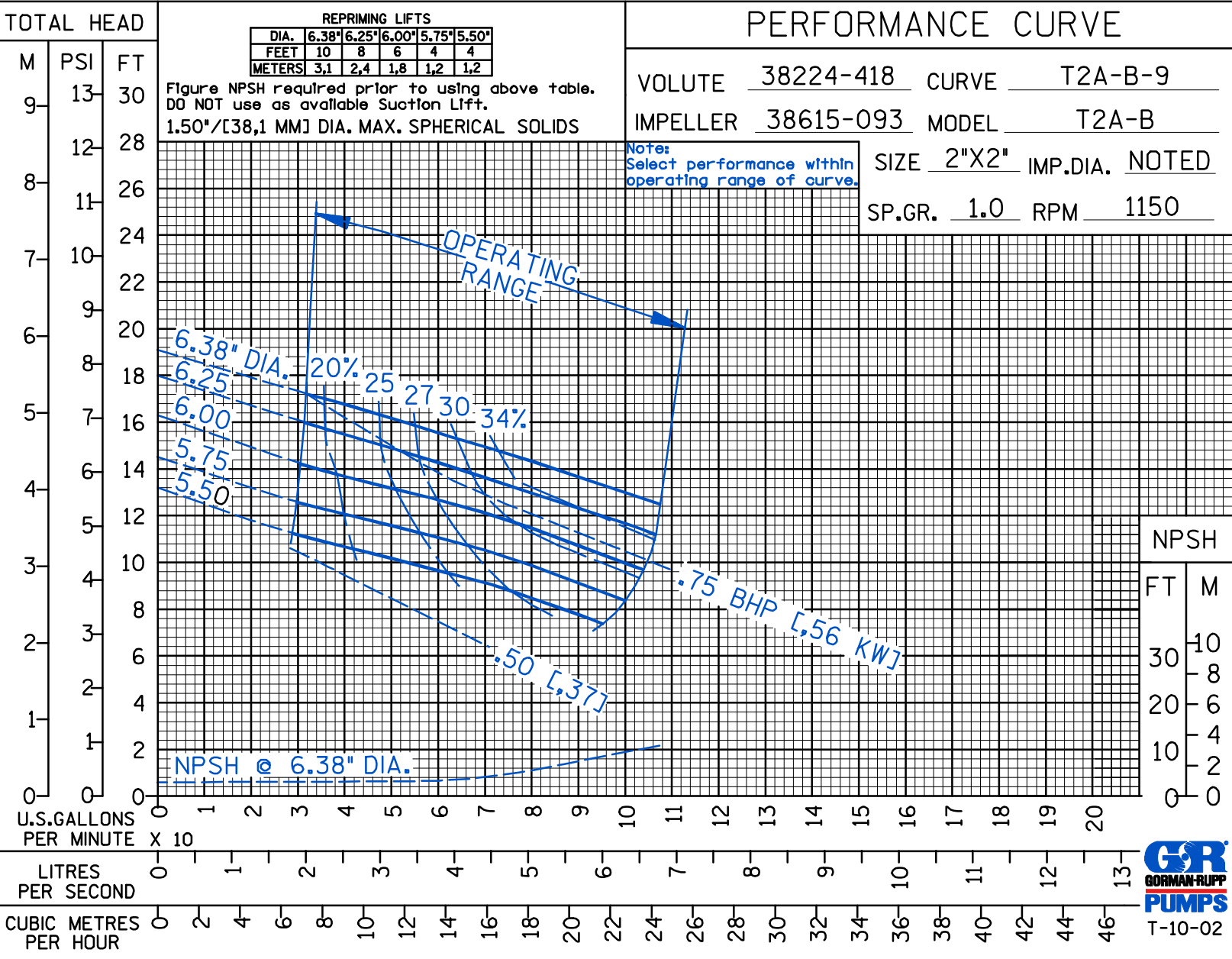
SIZE 2"X2" IMP.DIA. NOTED

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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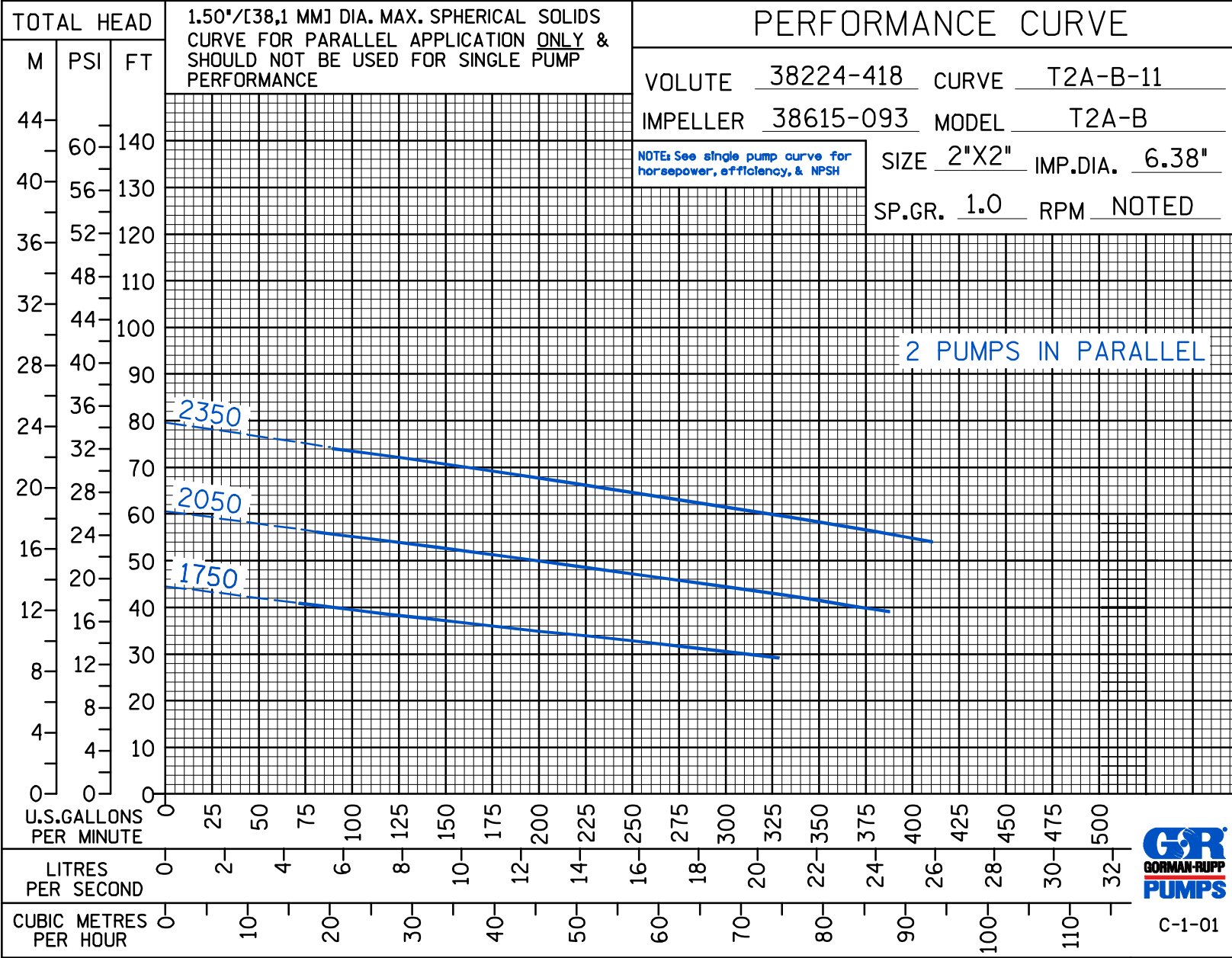
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PERFORMANCE CURVE

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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PERFORMANCE CURVE

VOLUTE 38224-418 CURVE T2A-B-12

IMPELLER 38615-093 MODEL T2A-B

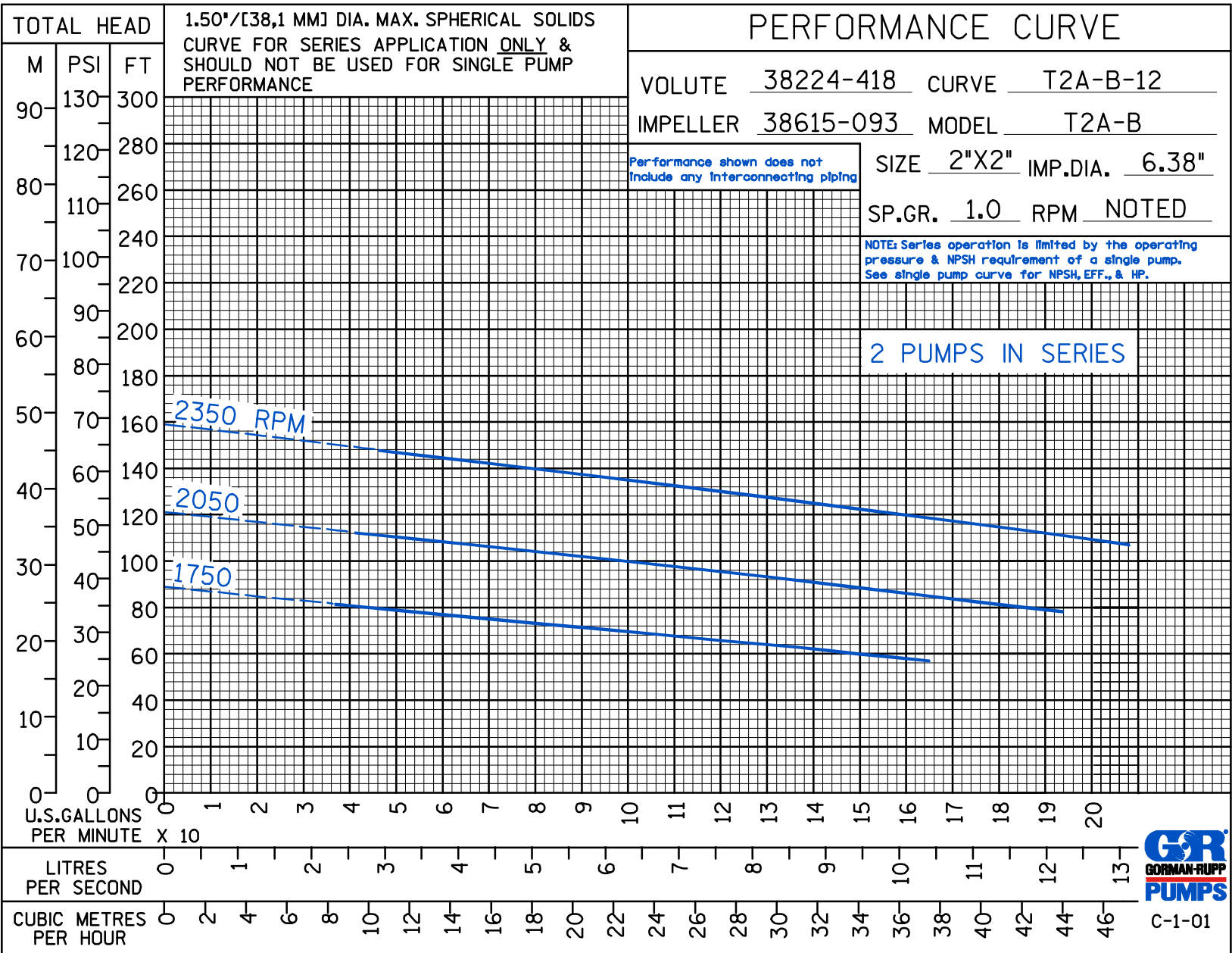
SIZE 2"X2" IMP.DIA. 6.38"

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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