

NDP-40 Specifications

Port Dimensions (107 GPM Max.)

Intake & discharge connection:

Polypropylene (PPG)	1-1/2" ANSI B16.5 #150
Kynar® (PVDF)	1-1/2" ANSI B16.5 #150
Aluminum (ADC-12)	1-1/2" ANSI B16.5 #150 (with tapped 1-1/2" Female NPT)
Stainless Steel (316)	1-1/2" ANSI B16.5 #150 or 1-1/2" Female NPT
Cast Iron	1-1/2" Female NPT
Air inlet (incl. ball valve):	1/2" Female NPT
Air exhaust (incl. silencer):	1" Female NPT

Maximum Liquid Temperature*

Diaphragm Material	Temperature
Buna N	180°F (82°C)
Neoprene	180°F (82°C)
Santoprene® (TPO)	180°F (82°C)
EPDM	212°F (100°C)
PTFE	212°F (100°C)
Hytrel® (TPEE)	248°F (120°C)
Viton® fluoroelastomer	248°F (120°C)

*The maximum liquid temperature for metal and Kynar®-fitted pumps is determined by the elastomer (diaphragm material). Polypropylene pumps have a maximum liquid temperature of 180°F (82°C) regardless of diaphragm material.

Air Supply Pressure (All Models)

20–100 PSI (1.4–7 kgf/cm)

Discharge Volume Per Cycle

Rubber diaphragm: 0.73 gallons (2.74 liters)

PTFE diaphragm: 0.37 gallons (1.40 liters)

Maximum Cycles Per Minute

Rubber diaphragm: 148

PTFE diaphragm: 270

Maximum Size Solid

9/32" (7 mm)

Maximum Dry Suction Lift

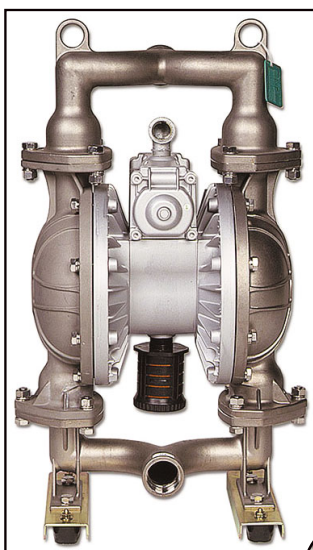
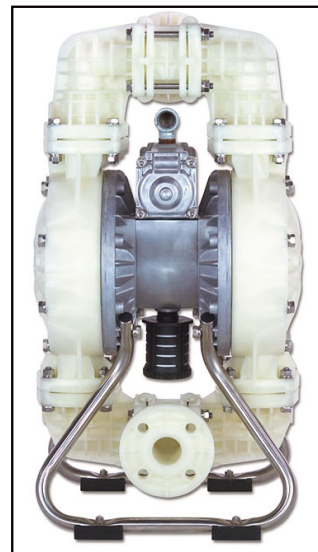
Rubber-fitted pump capability: 18-feet

Air Motor

Aluminum Air Motor–Standard

Optional coating: PTFE grey coated (XP)

Notes: Hytrel® fitted pumps include Buna N wetted o-rings.
Santoprene® fitted pumps include EPDM wetted o-rings. Kynar® (PVDF) pumps fitted with Santoprene®, Hytrel®, or PTFE include PTFE check balls and o-rings.



Aluminum (top left)

Dimensions: 16.20"Lx11.29"Wx27.96"H

Net Wt.: 68 lbs. (28.9 kg)

Shipping Wt.: 75 lbs.

Polypropylene or Kynar® (top right)

Dimensions: Poly: 15.94"Lx12.20"Wx29.60"H

Kynar: 15.67"Lx12.20"Wx29.49"H

Net Wt.: 70 lbs. (29.9 kg)

Shipping Wt.: 78 lbs.

Cast Iron or Stainless Steel (left)

Dimensions: SS: 16.20"Lx11.28"Wx27.74"H

C. Iron: 16.20"Lx11.31"Wx27.72"H

Net Wt.:

C. Iron: 112 lbs. (59.8 kg) SS: 98 lbs. (39.9 kg)

Ship Wt.: C. Iron: 120 lbs.

SS: 106 lbs.



Note: ANSI Flange available for Stainless Steel

Model Number Nomenclature

Series: NDP-40 Pump

Valve Type:
B = Ball

Body Material:
P = Polypropylene
V = Kynar®
A = Aluminum
S = Stainless Steel
F = Cast Iron

Diaphragm Material:
C = Neoprene (CR)
N = Buna N (NBR)
E = Nordel™ (EPDM)
S = Santoprene® (TPO)
T = PTFE
V = Viton® (FKM)
H = Hytrel® (TPE)

Note: For NPT-fitted Stainless Steel, add "NPT" at end of model number nomenclature.

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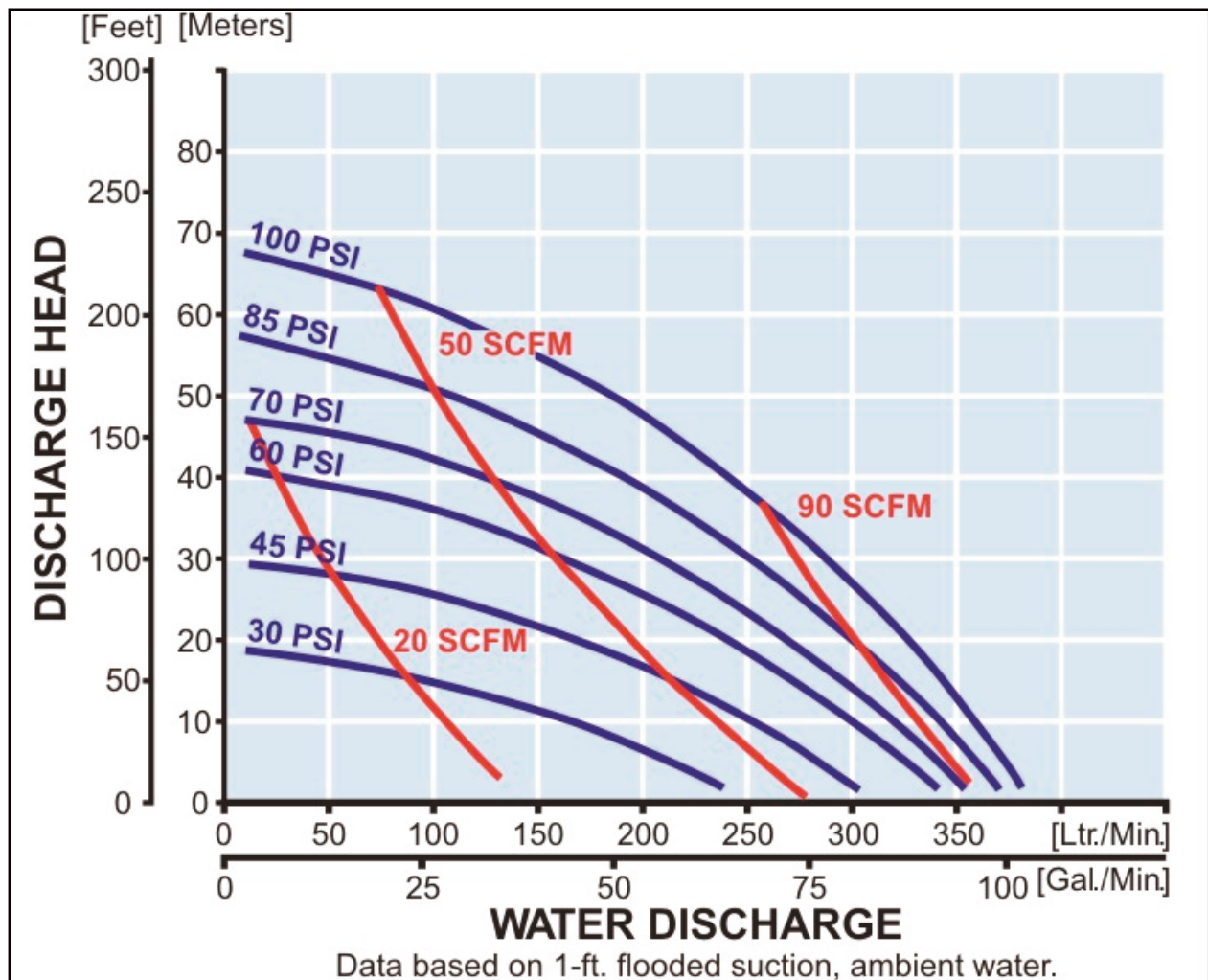
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NDP-40 Performance Curve – Rubber

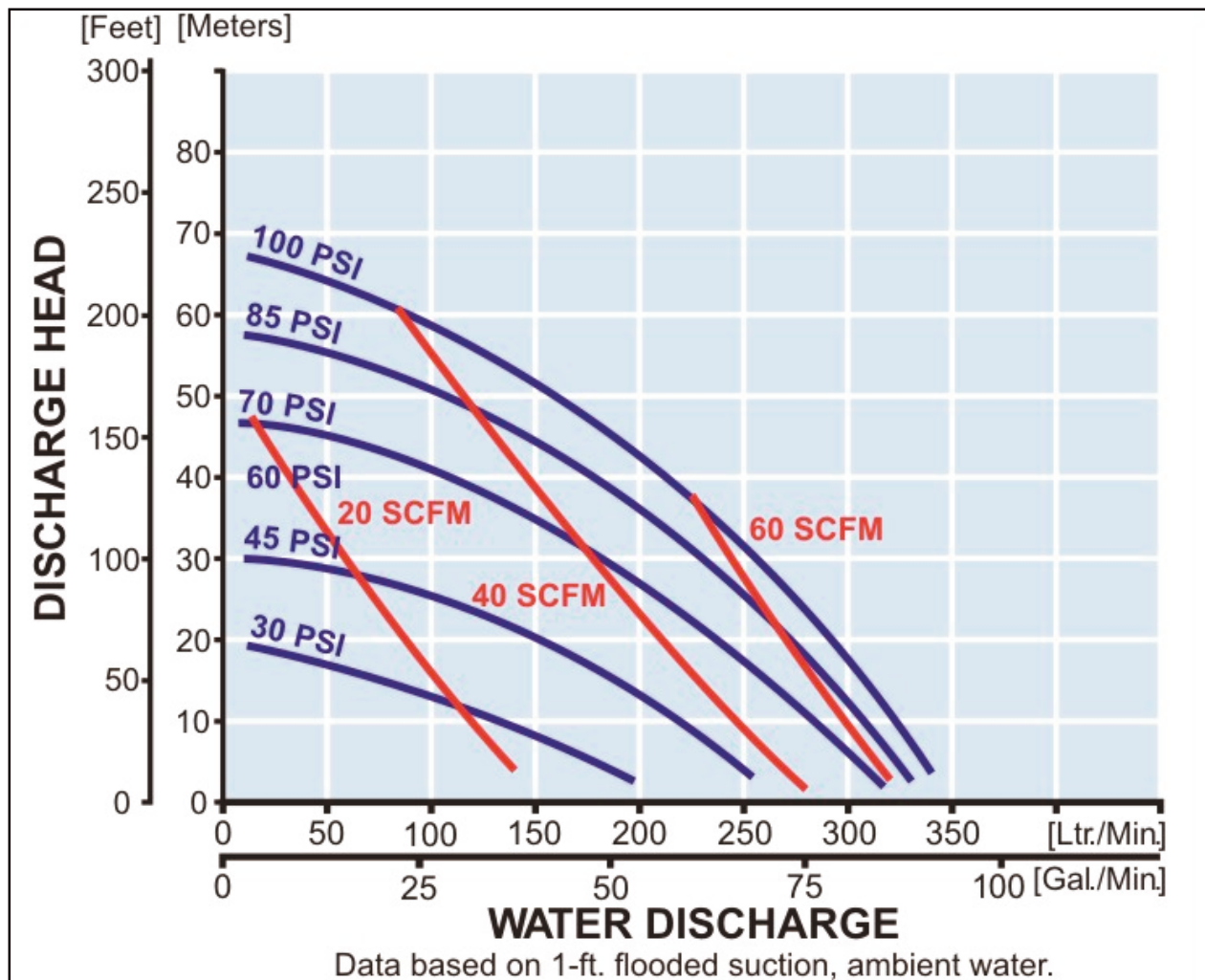
Rubber Diaphragm Performance Curve



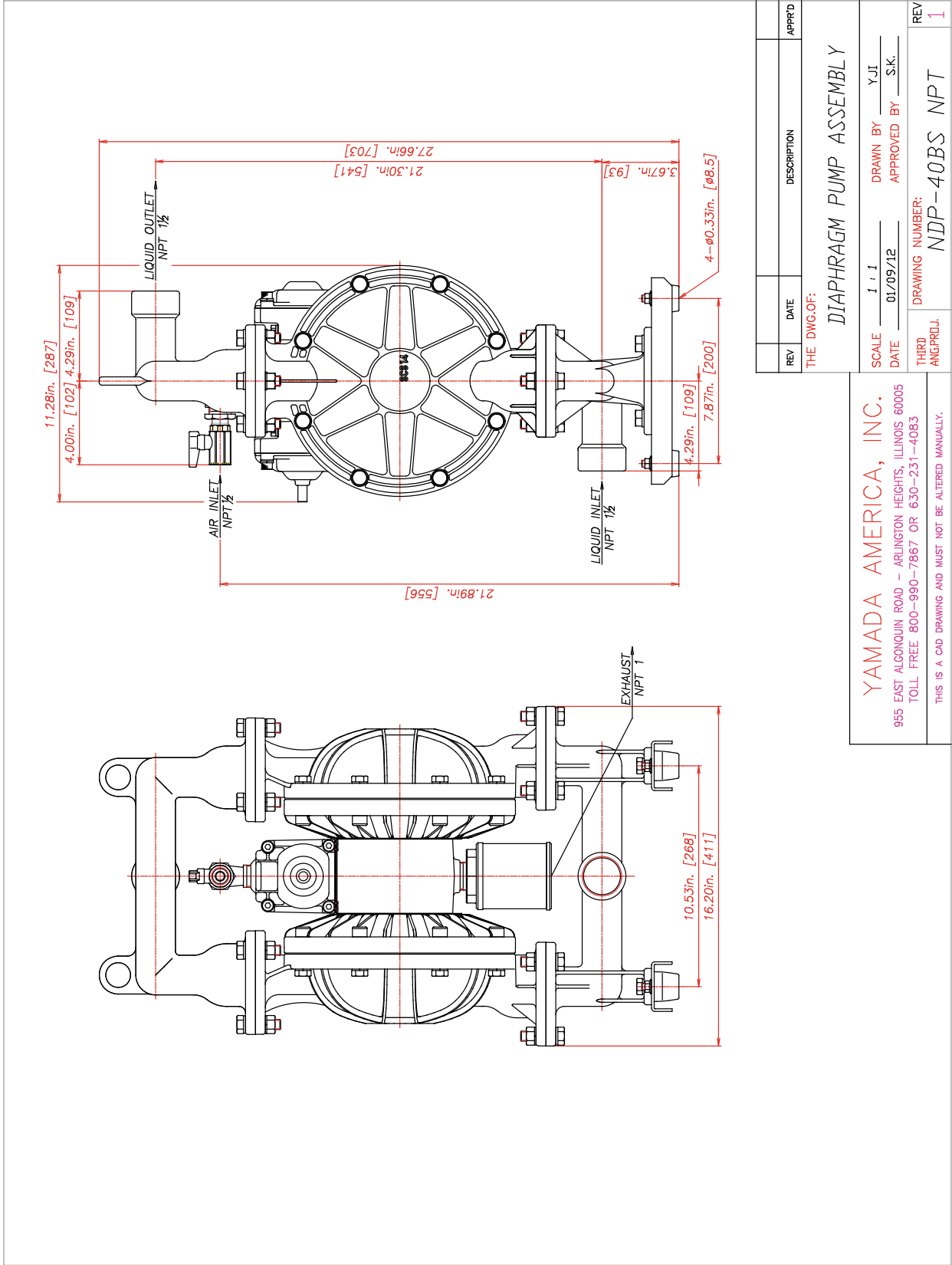
To calculate performance for Santoprene and Hytrel-fitted pumps, use Rubber Diaphragm Curve.

NDP-40 Performance Curve – PTFE

PTFE Diaphragm Performance Curve



To calculate performance for Santoprene and Hytrel-fitted pumps, use Rubber Diaphragm Curve.



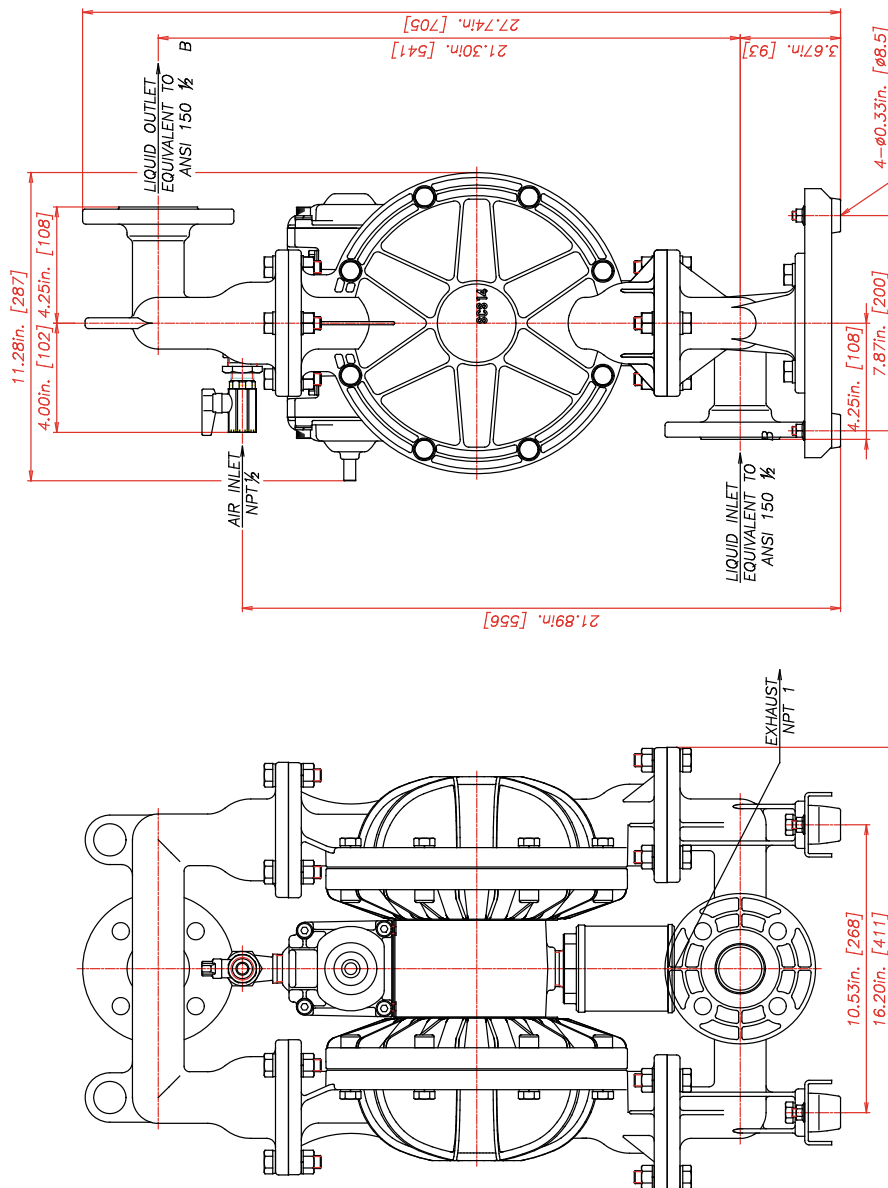
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SCALE	1 : 1	DRAWN BY	Y.JI
DATE	01/09/12	APPROVED BY	S.K.
THIRD ANGLE PROJ.	DRAWING NUMBER: NDP-40BS FLANGE		
REV	1		

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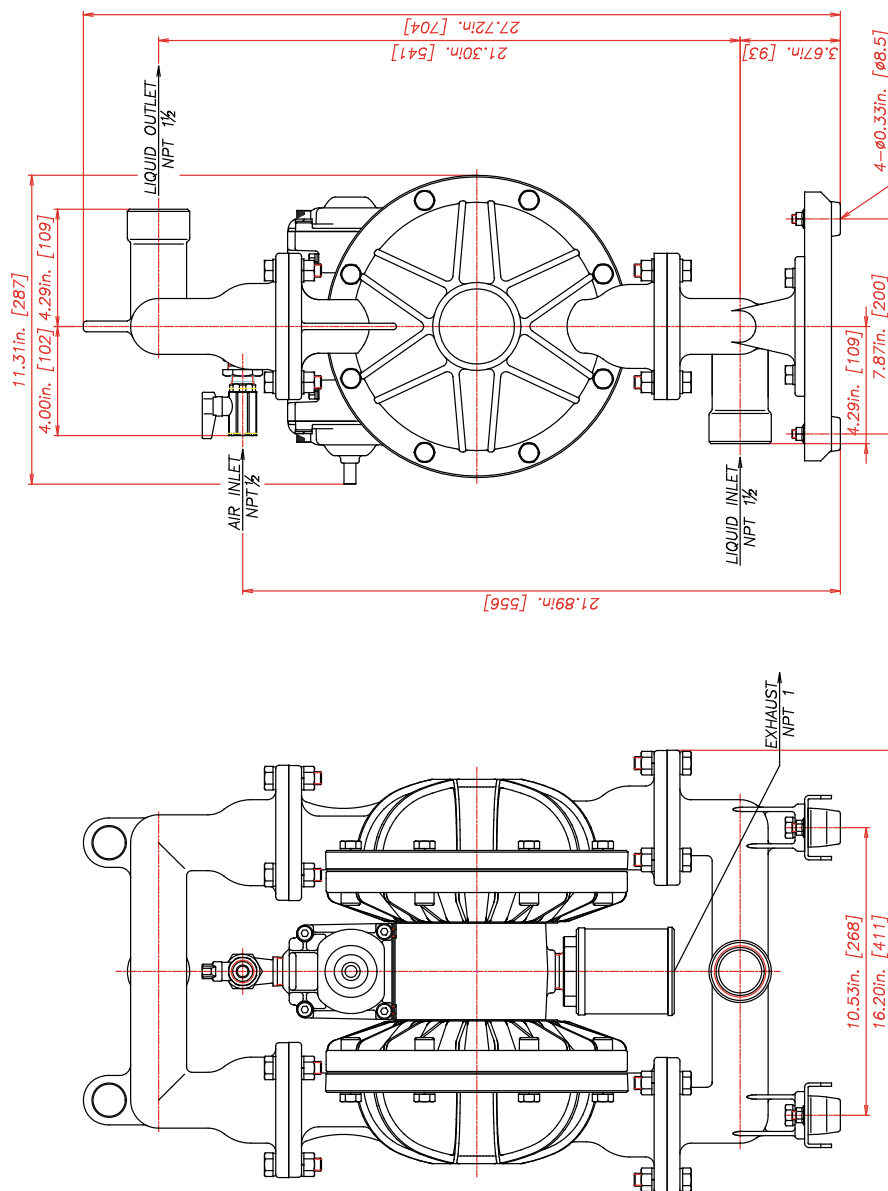
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SCALE	1 : 1	DRAWN BY	YJI
DATE	01/09/12	APPROVED BY	S.K.
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REV	1		

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