

NDP-25 Specifications

Port Dimensions (46.2 GPM Max.)

Intake & discharge connection:

Polypropylene (PPG)	1" Female NPT
Aluminum (ADC-12)	1" Female NPT
Stainless Steel (316)	1" Female NPT
Cast Iron	1" Female NPT
Kynar®	1" Female NPT
Air inlet (incl. ball valve):	3/8" Female NPT
Air exhaust (incl. silencer):	3/4" Female NPT

ANSI Flange also available - consult Yamada

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/cm²)

Discharge Volume Per Cycle:

Rubber diaphragm: 0.22 gallons (833 cc)

PTFE diaphragm: 0.21 gallons (787 cc)

Maximum Cycles Per Minute: All diaphragms: 210

Maximum Size Solid: 1/8" (3 mm)

Maximum Dry Suction Lift:

Rubber fitted pump capability: 18'

Air Motor:

Aluminum

- standard on metal pumps
- optional on plastic pumps
- optional PTFE grey coating (XP)

Plastic

- standard on plastic PP/PN pumps
- optional on metal pumps

Optional: Split manifold - contact Yamada



Polypropylene-PP
w/non-metallic center body

ANSI Flange Dimensions:

14.41"L x 9.84"W x 17.38"H

NPT Dimensions:

14.47"L x 9.84"W x 16.90"H

Net Wt.: 29 lbs.

Shipping Wt.: 30 lbs.



Kynar®-PN

w/non-metallic center body

ANSI Flange Dimensions:

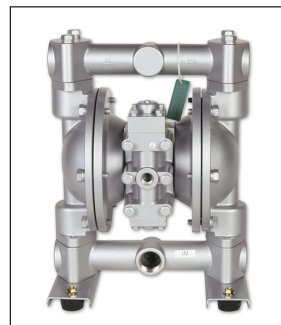
14.33"L x 9.84"W x 17.32"H

NPT Dimensions:

14.37"L x 9.84"W x 16.73"H

Net Wt.: 29.7 lbs.

Shipping Wt.: 33 lbs.



Aluminum

Dimensions:

11.30"L x 8.27"W x 15.04"H

Net Wt.: 27 lbs.

Shipping Wt.: 31 lbs.

Stainless Steel

Dimensions:

11.06"L x 8.27"W x 14.77"H

Net Wt.: 43 lbs.

Shipping Wt.: 46 lbs.

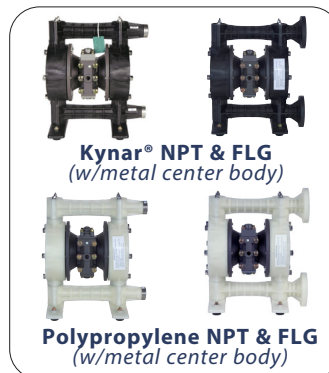
Cast Iron (NPT)

Dimensions:

11.27"L x 8.27"W x 14.44"H

Net Wt.: 43 lbs.

Shipping Wt.: 46 lbs.



Kynar® NPT & FLG
(w/metal center body)

Polypropylene NPT & FLG
(w/metal center body)

Model Number Nomenclature

NDP-25	B	x	x	-xx	-x
Series: NDP-25 pump	Valve Type: B = Ball			Port Option: NPT or FLG (Flange)	Plastic Pump Air Motor: PP = Polypropylene PN = Kynar®
Body Material: P = Polypropylene V = Kynar® A = Aluminum S = Stainless Steel F = Cast Iron				Diaphragm Material: C = Neoprene N = Buna N (NBR) E = Nordel™ (EPDM) S = Santoprene® (TPO) T = PTFE H = Hytrel™ (TPE) V = Viton® (FPM) W = Ultimate	

Notes:

Santoprene fitted pumps include EPDM wetted o-rings.

Kynar pumps fitted with Santoprene, Hytrel or PTFE include PTFE check balls & o-rings.

Kynar/EPDM fitted pumps include EPDM check balls & o-rings.

Viton fitted pumps include Viton check balls & o-rings.

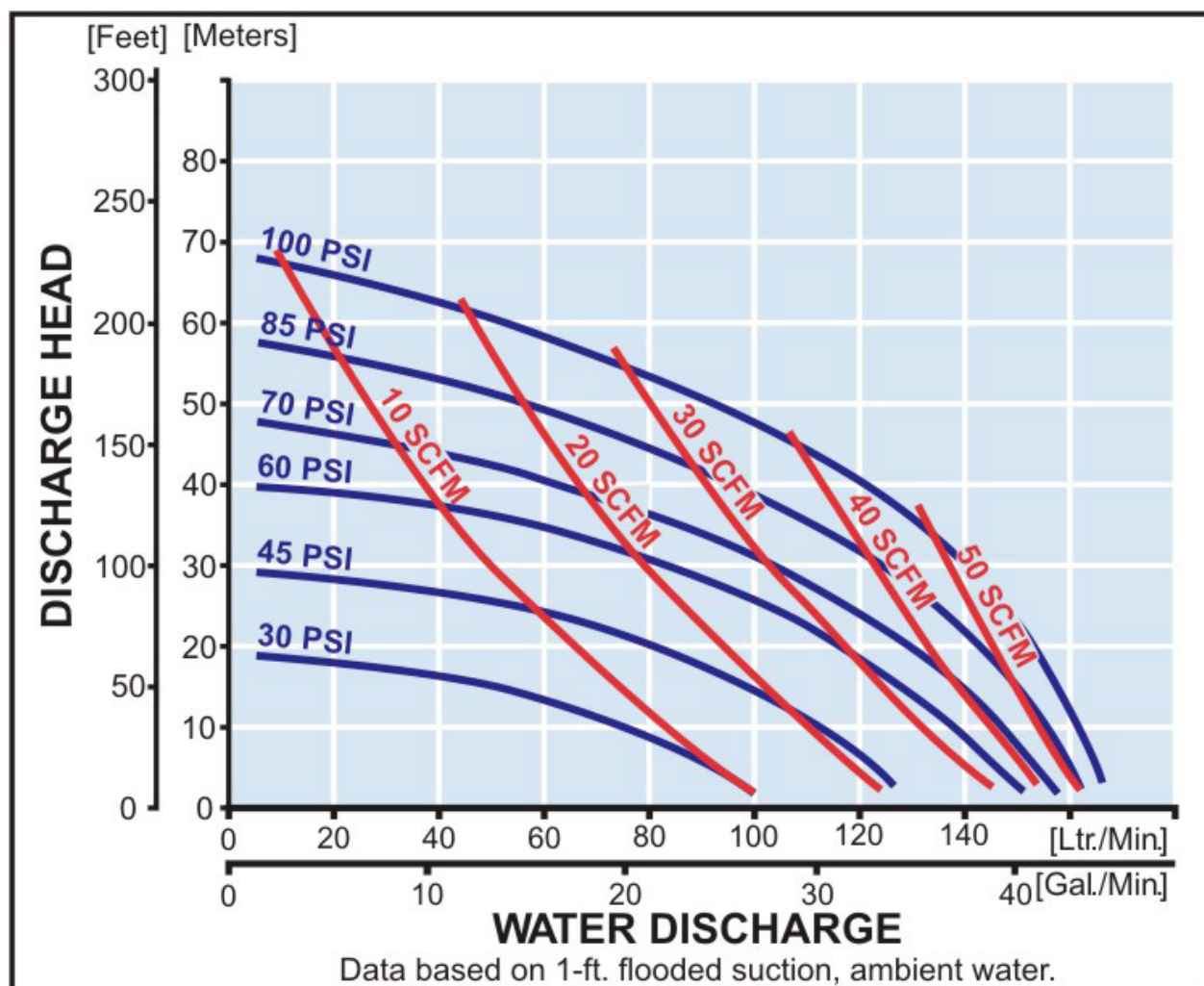


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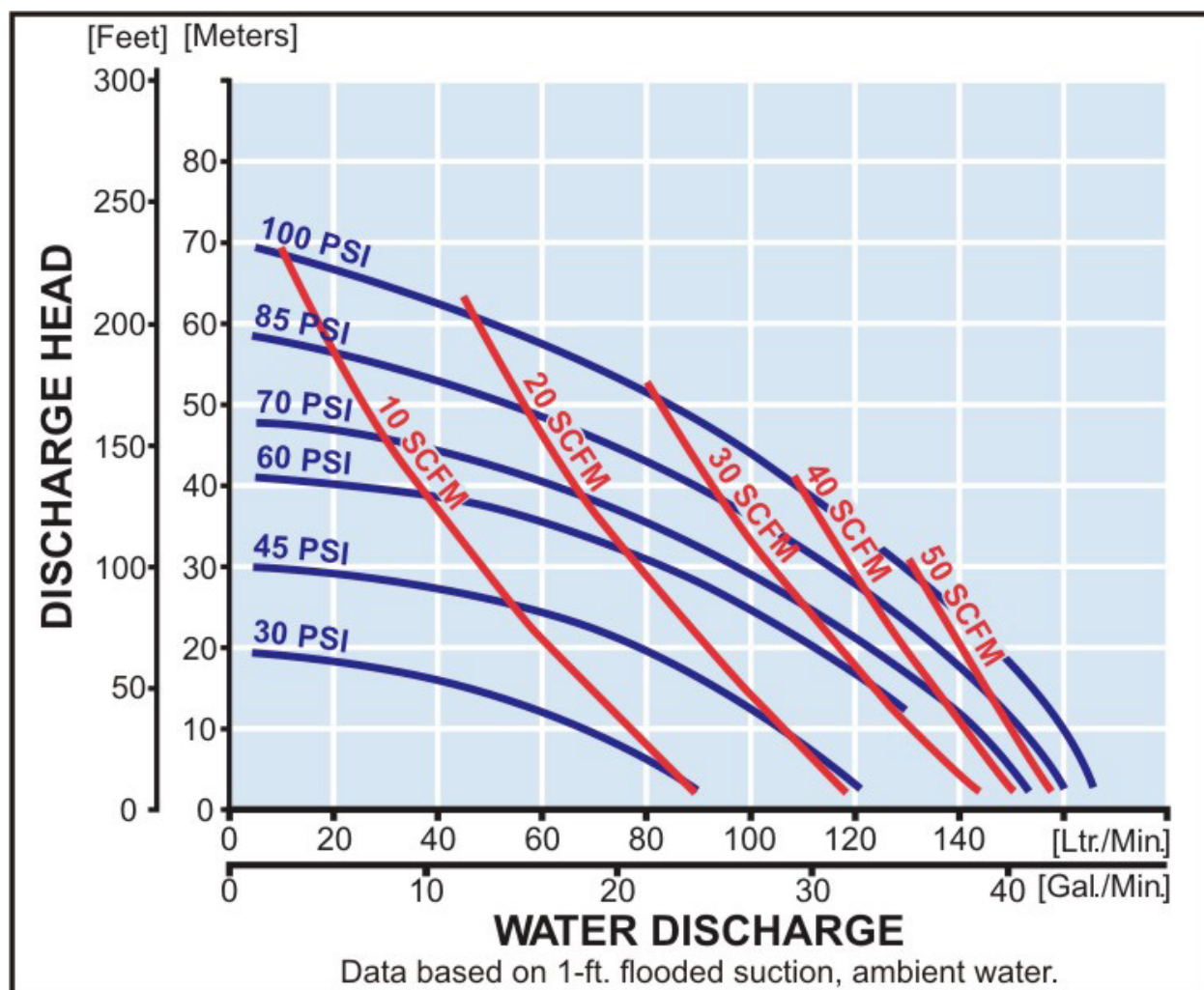
NDP-25 Performance Curve - Rubber

Rubber Diaphragm Performance Curve

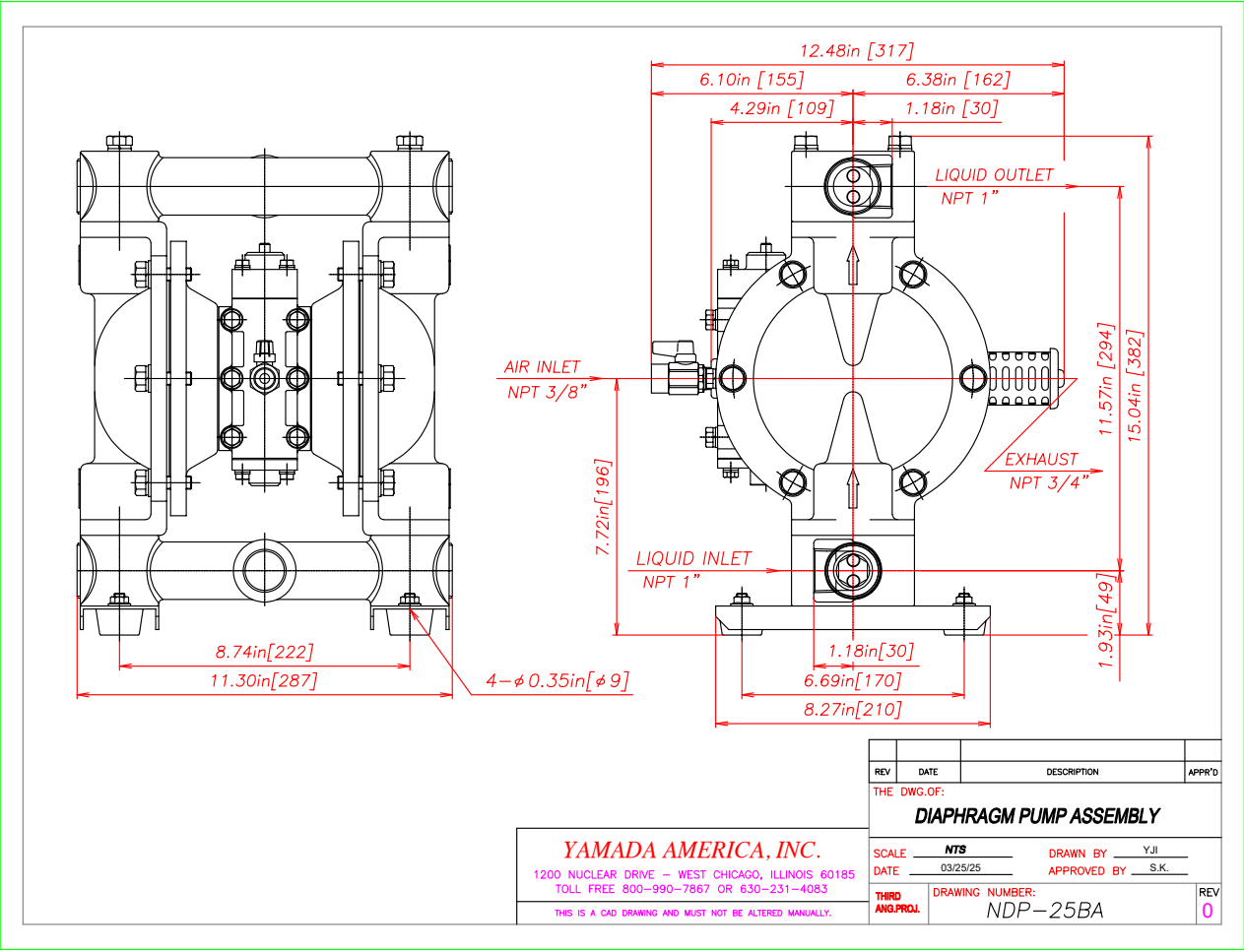


NDP-25 Performance Curve - PTFE

PTFE Diaphragm Performance Curve



NDP-25 Aluminum CAD



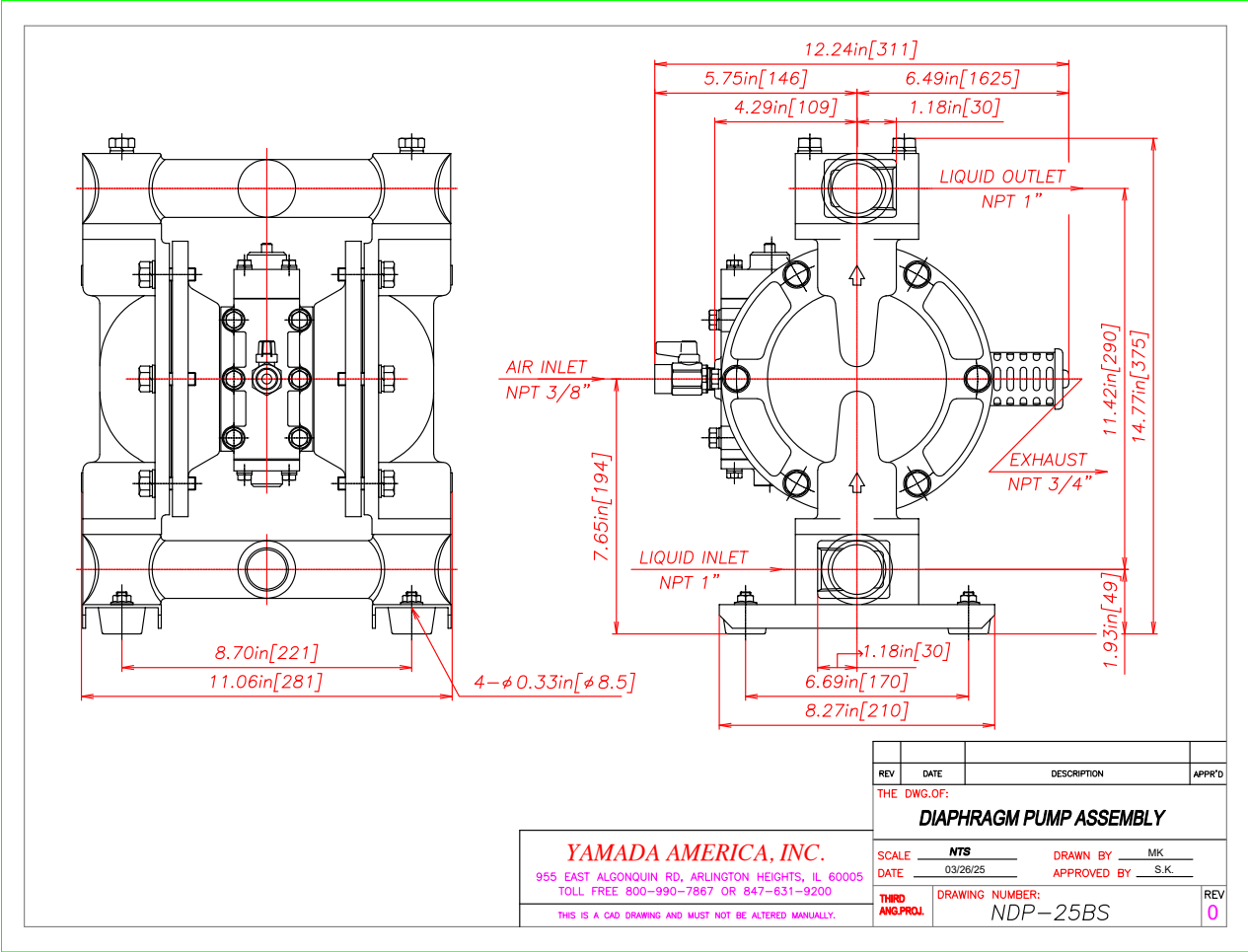
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NDP-25 Stainless Steel CAD



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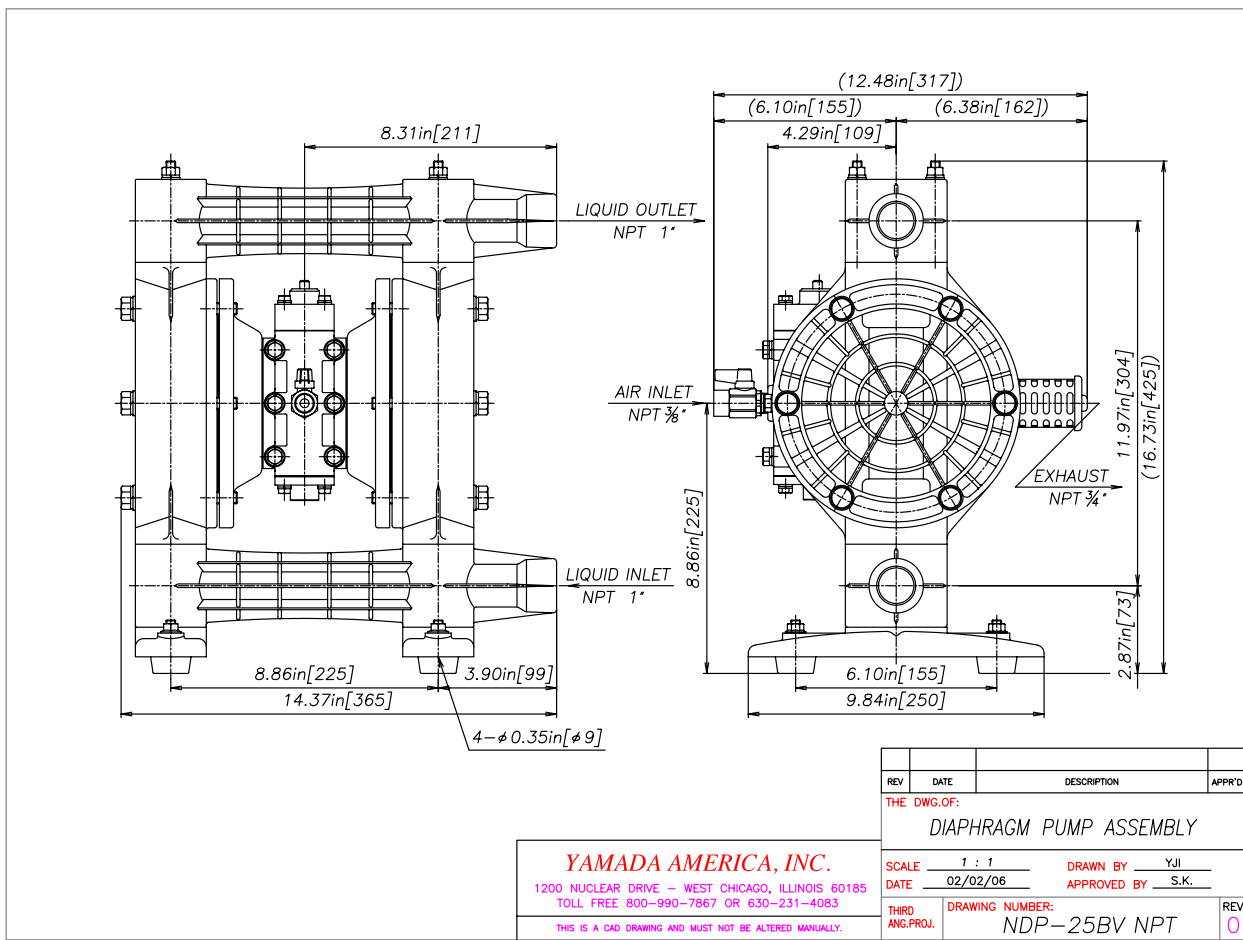
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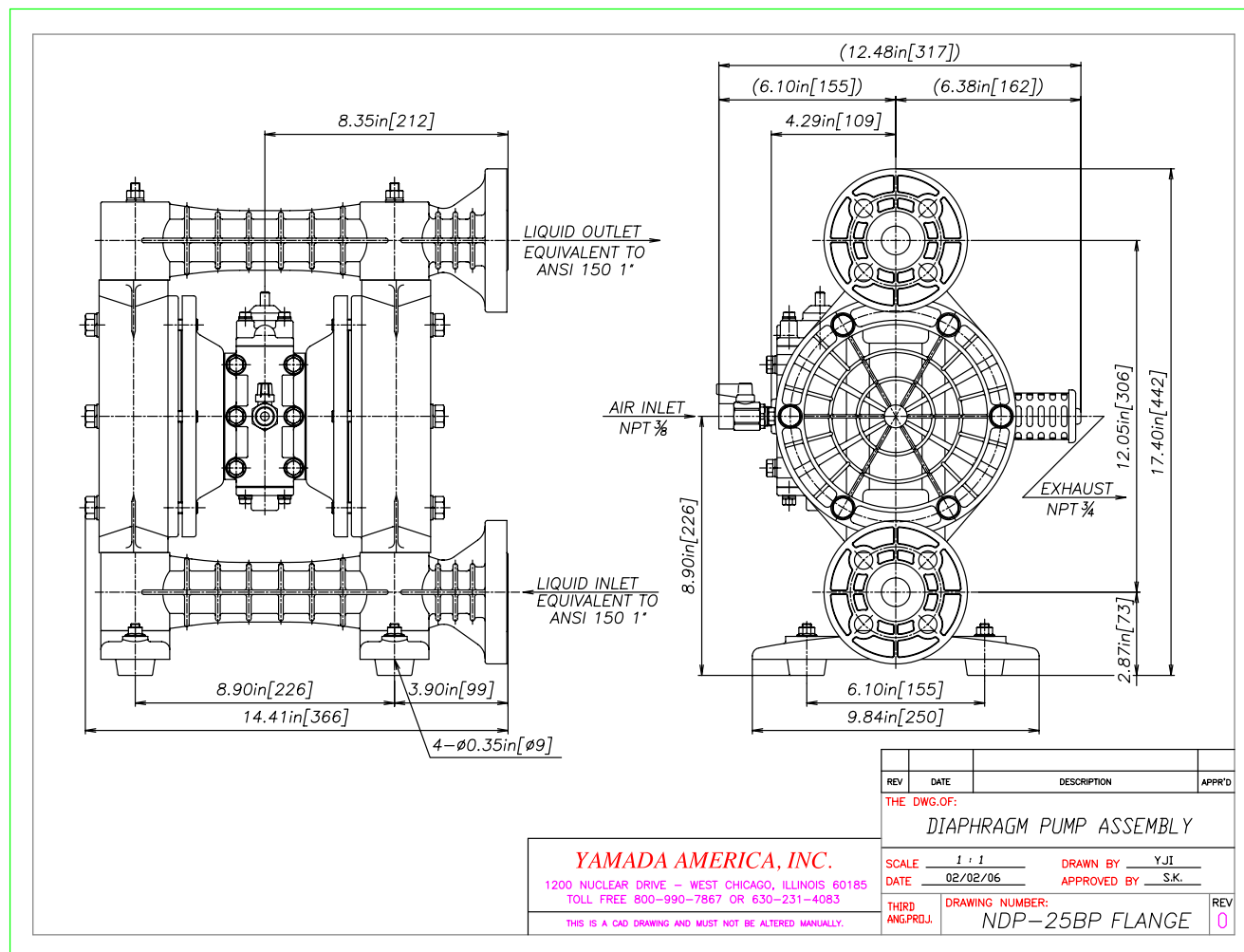
NDP-25 Polypropylene (NPT) CAD

with Metal Center Body



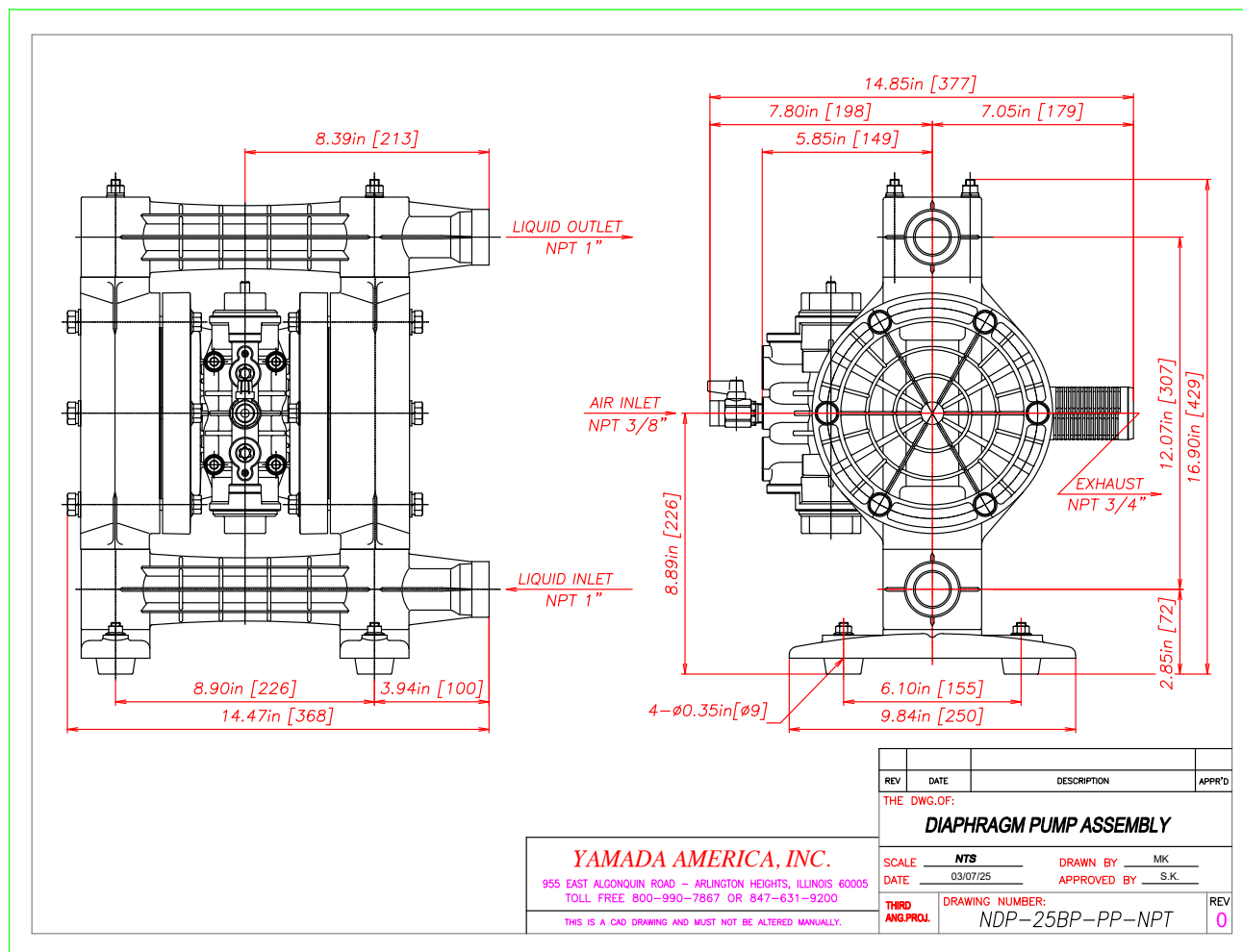
NDP-25 Polypropylene (FLG) CAD

with Metal Center Body



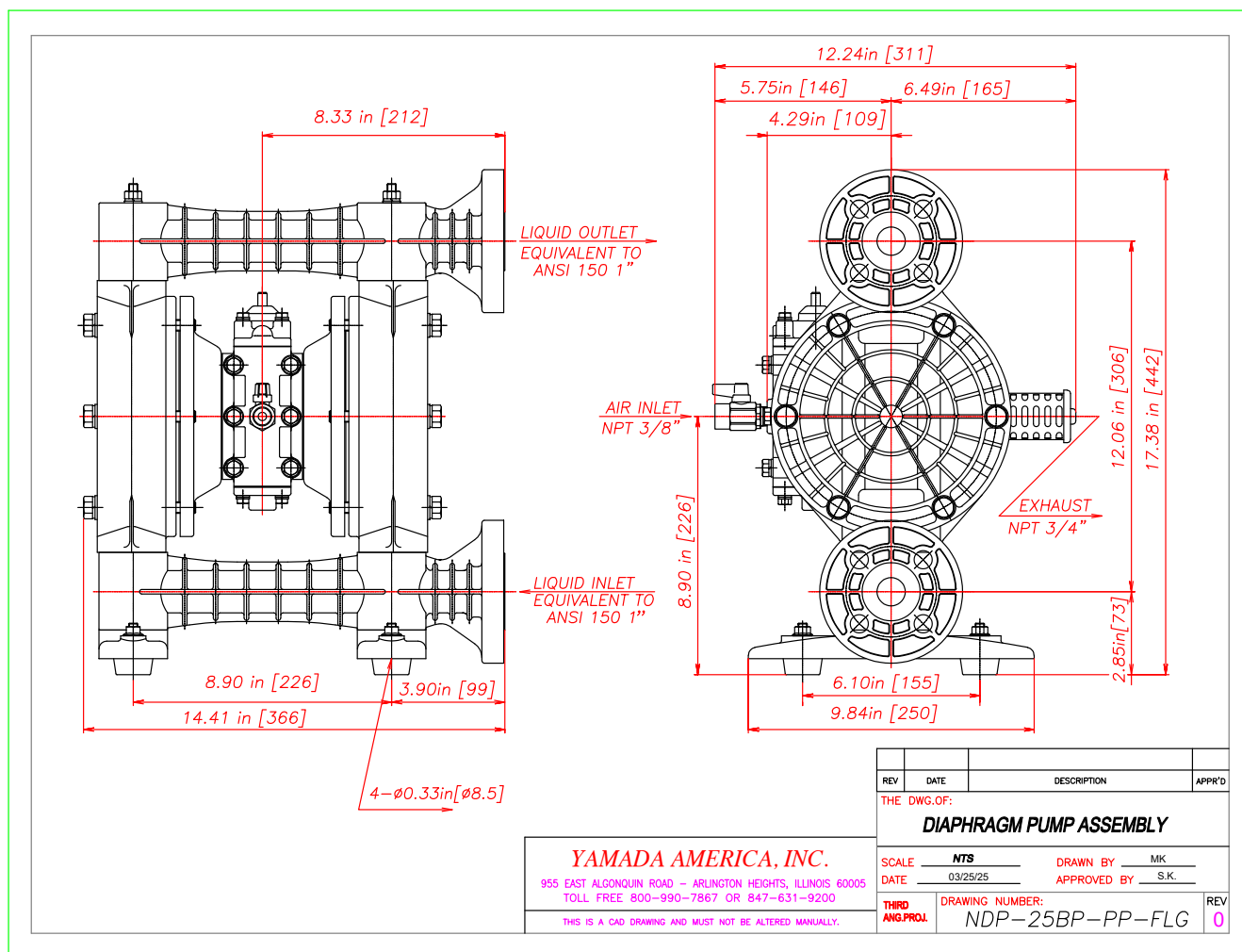
NDP-25 Polypropylene - PP (NPT) CAD

with Non-Metallic Center Body



NDP-25 Polypropylene - PP (FLG) CAD

with Non-Metallic Center Body

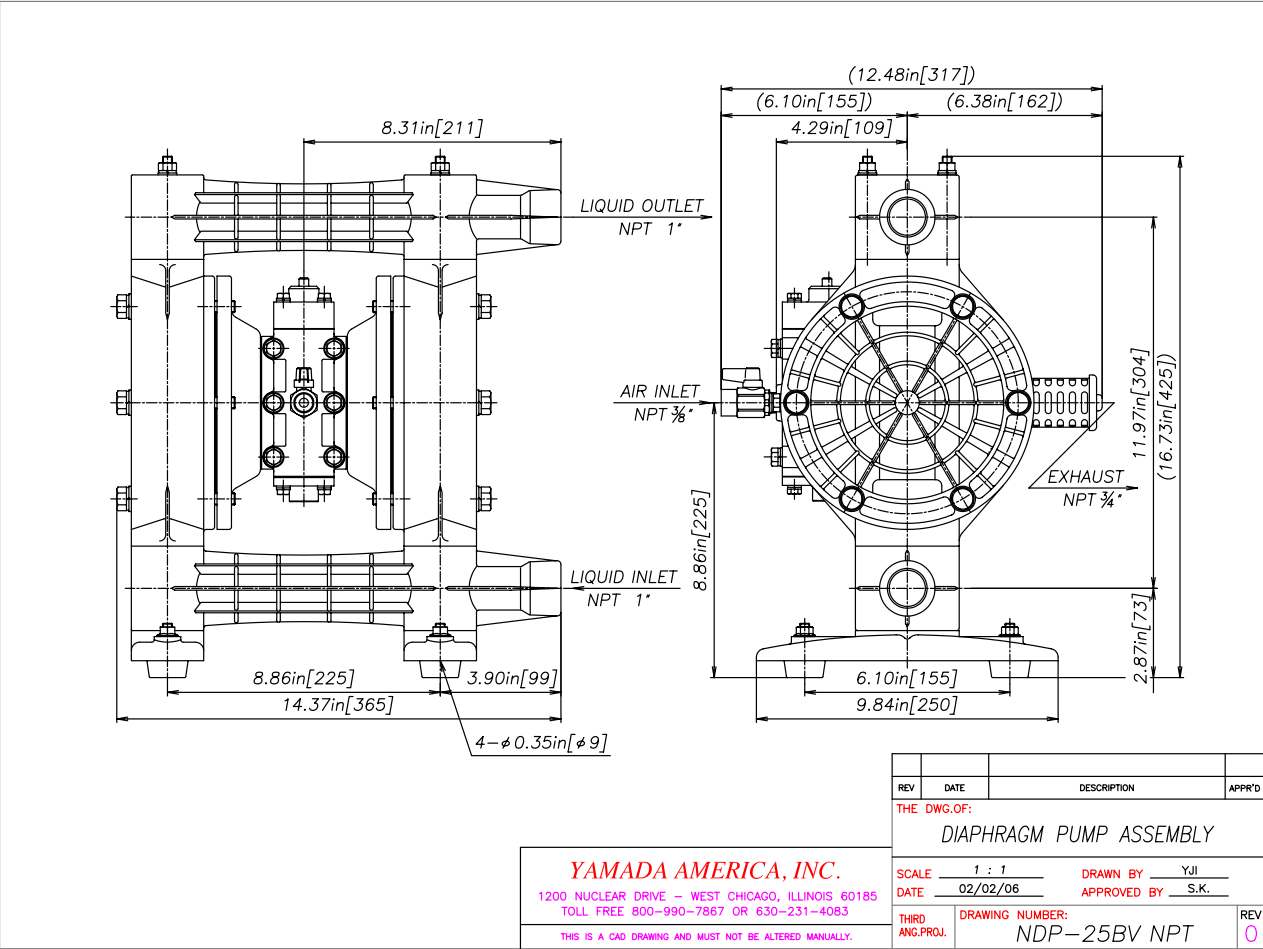


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NDP-25 Kynar (NPT) CAD

with Metal Center Body



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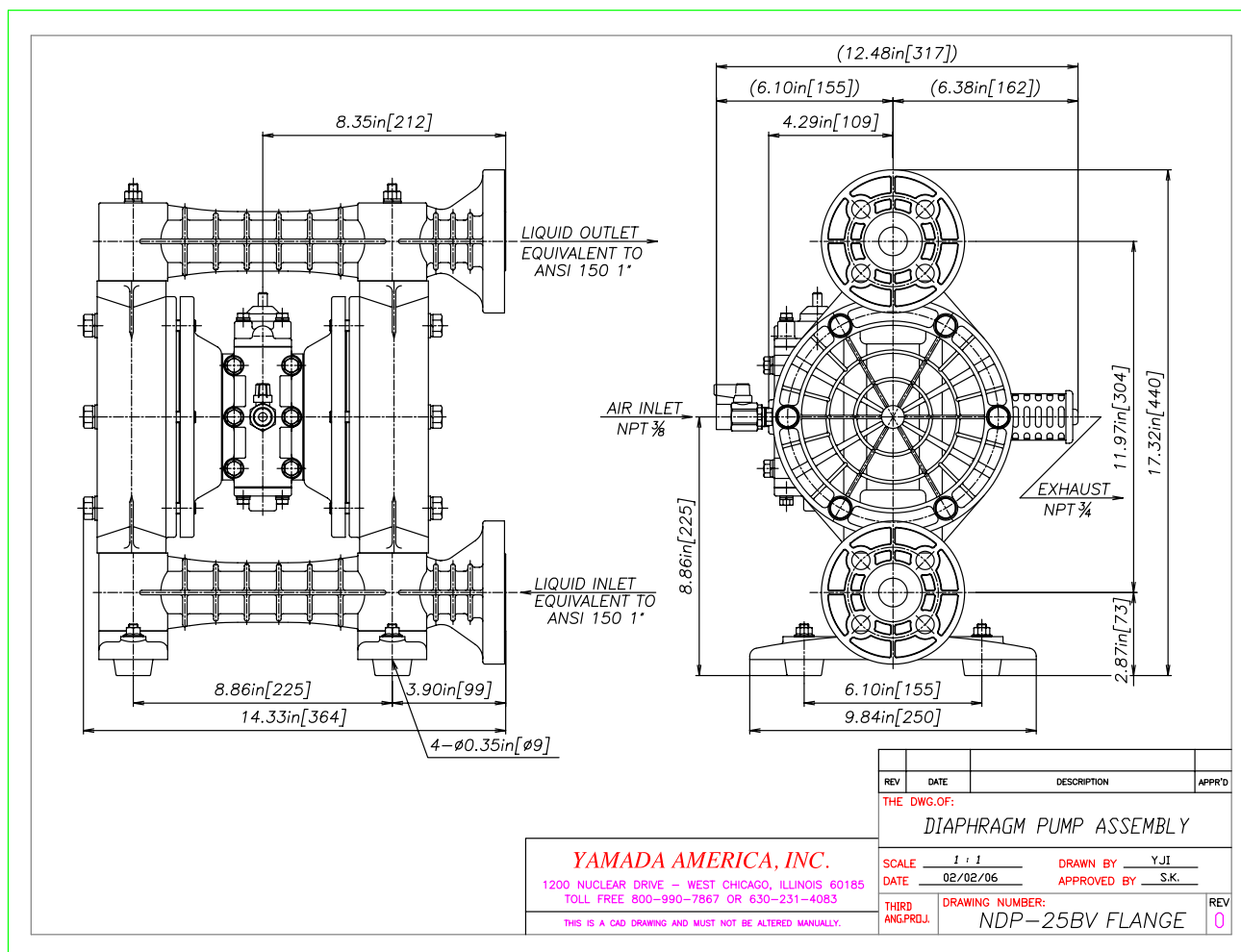
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NDP-25 Kynar (FLG) CAD

with Metal Center Body

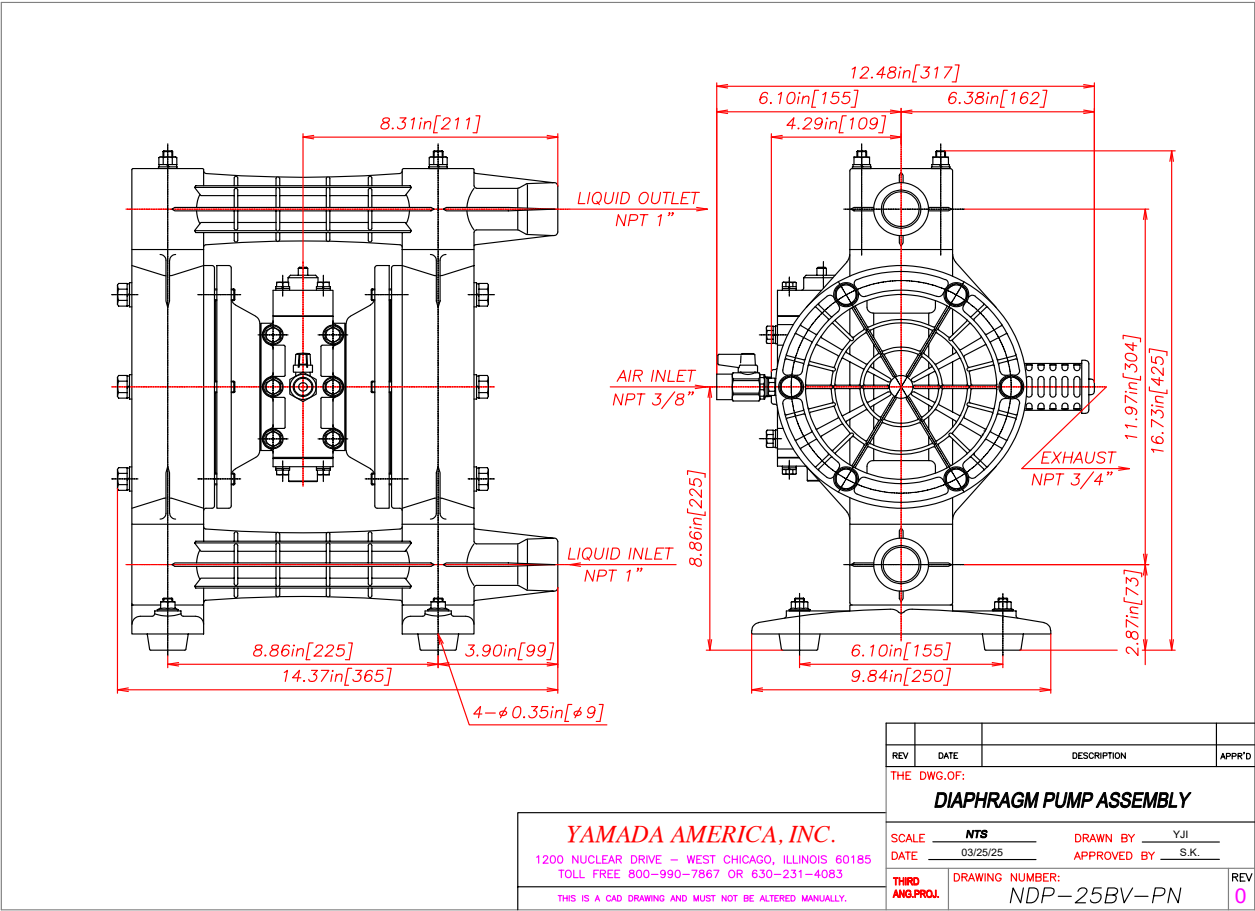


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NDP-25 Kynar - PN (NPT) CAD

with Non-Metallic Center Body



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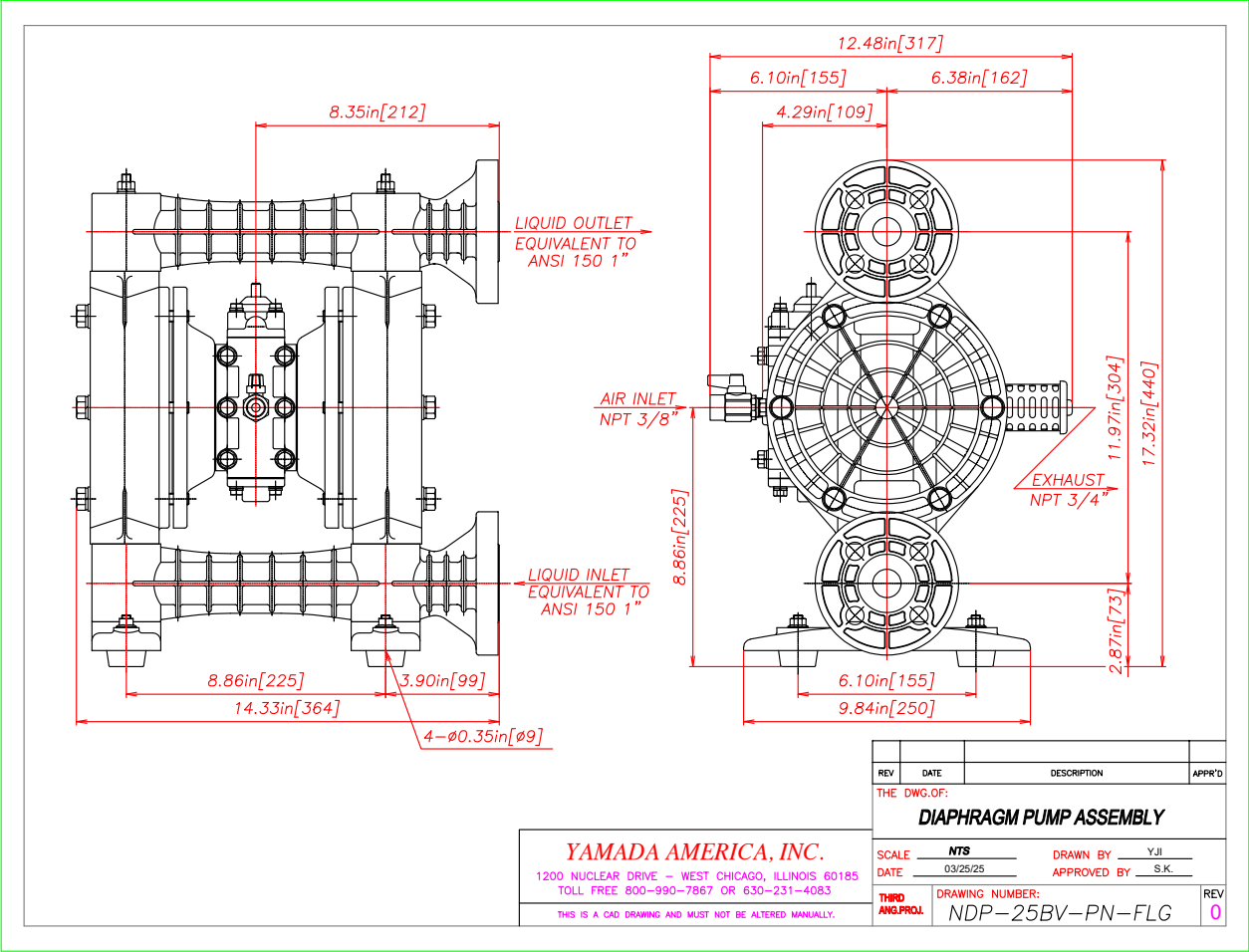
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NDP-25 Kynar - PN (FLG) CAD

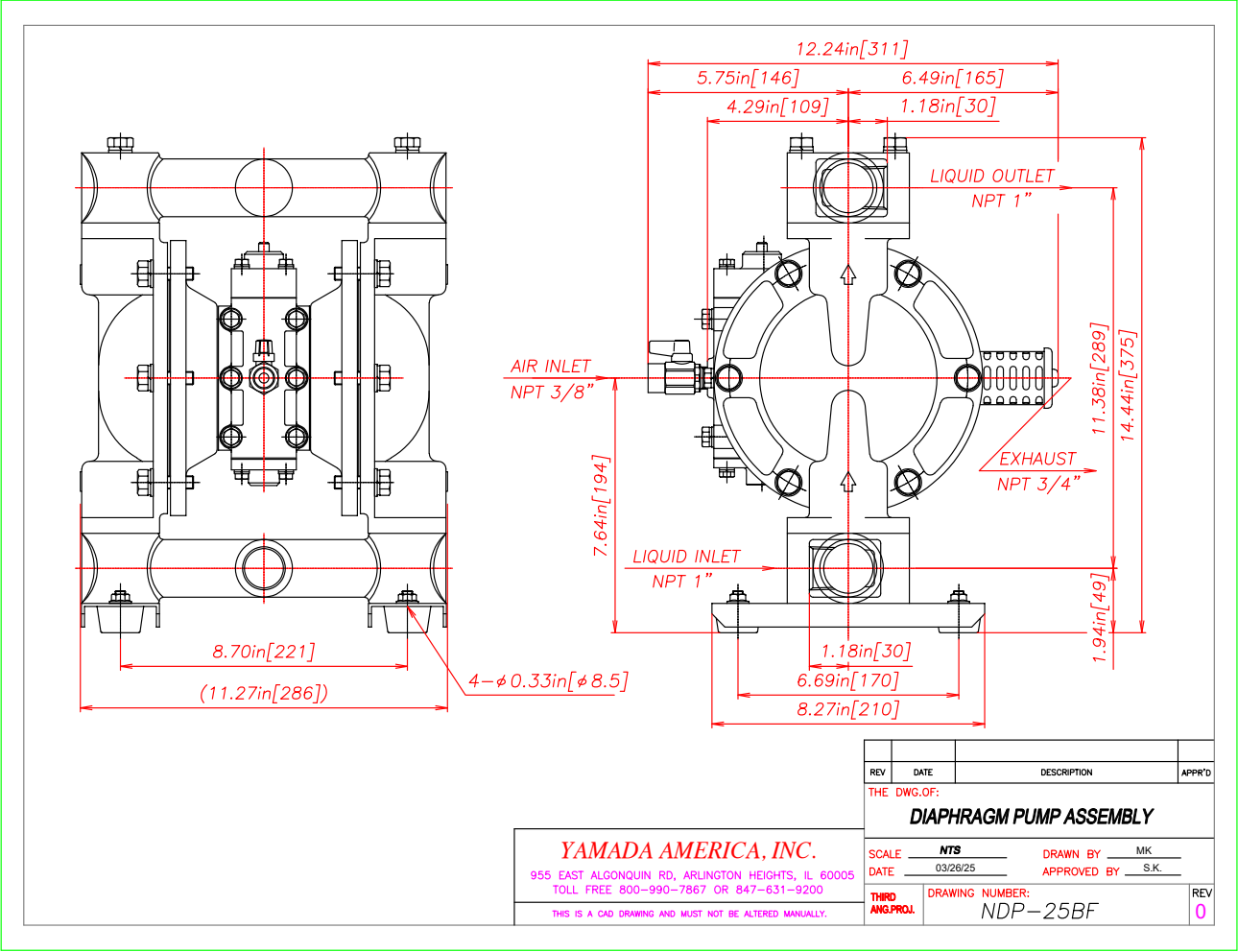
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NDP-25 Cast Iron CAD



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