

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:

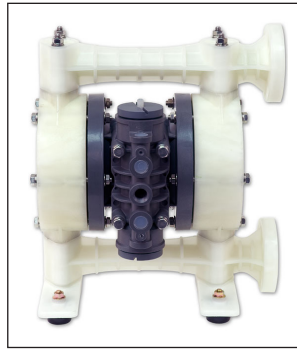
Aluminum

- 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:

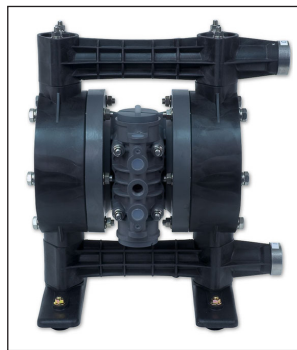
14.41"L x 9.84"W x 17.38"H

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:

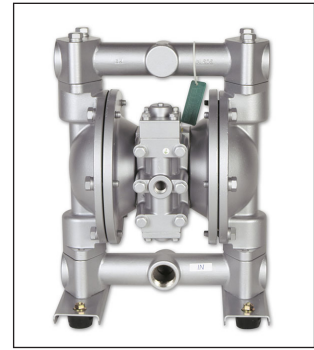
14.33"L x 9.84"W x 17.32"H

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.

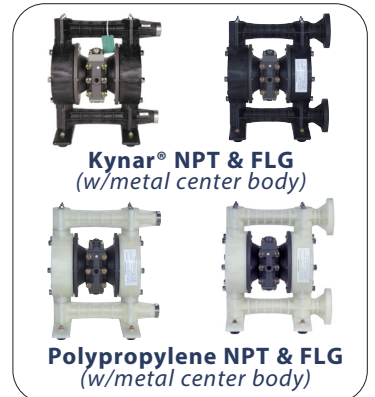
Cast Iron (NPT)

Dimensions:

11.27"L x 8.27"W x 14.44"H

Net Wt.: 43 lbs.

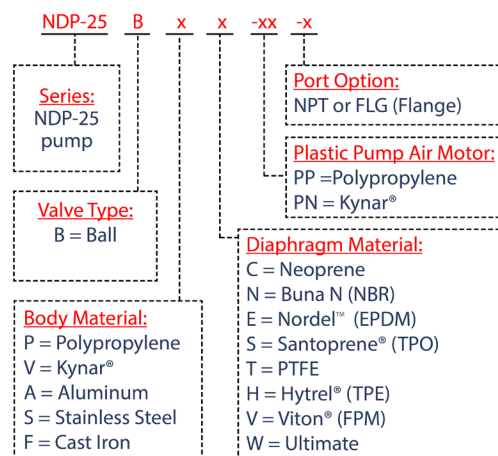
Shipping Wt.: 46 lbs.



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

Polypropylene NPT & FLG
(w/metal center body)

Model Number Nomenclature



Notes:

Santoprene fitted pumps include EPDM wetted o-rings.

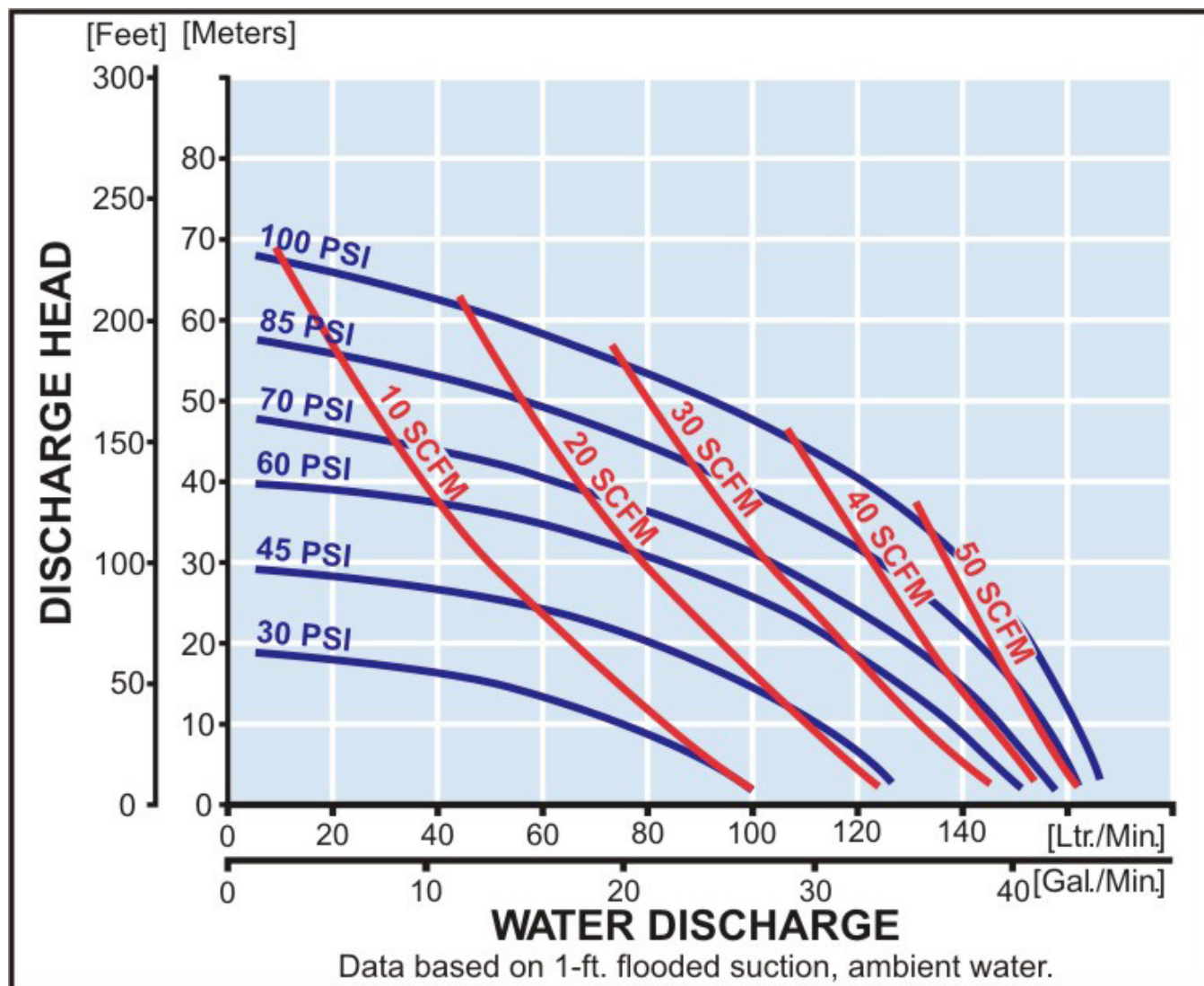
Kynar pumps fitted with Santoprene, Hytrel or PTFE include PTFE check balls & o-rings.

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

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

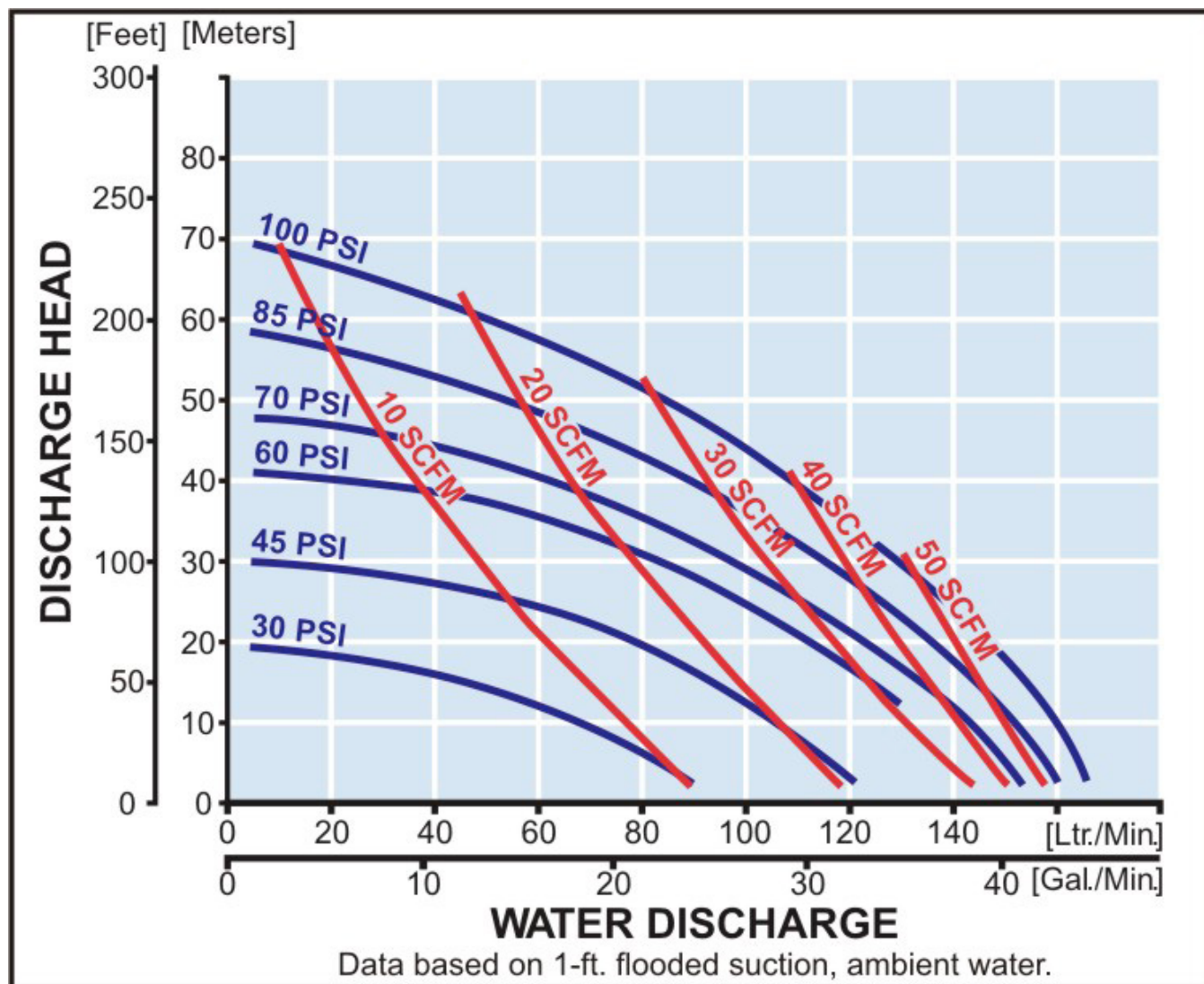
NDP-25 Performance Curve - Rubber

Rubber Diaphragm Performance Curve



NDP-25 Performance Curve - PTFE

PTFE Diaphragm Performance Curve



The Proof's in the Pump.

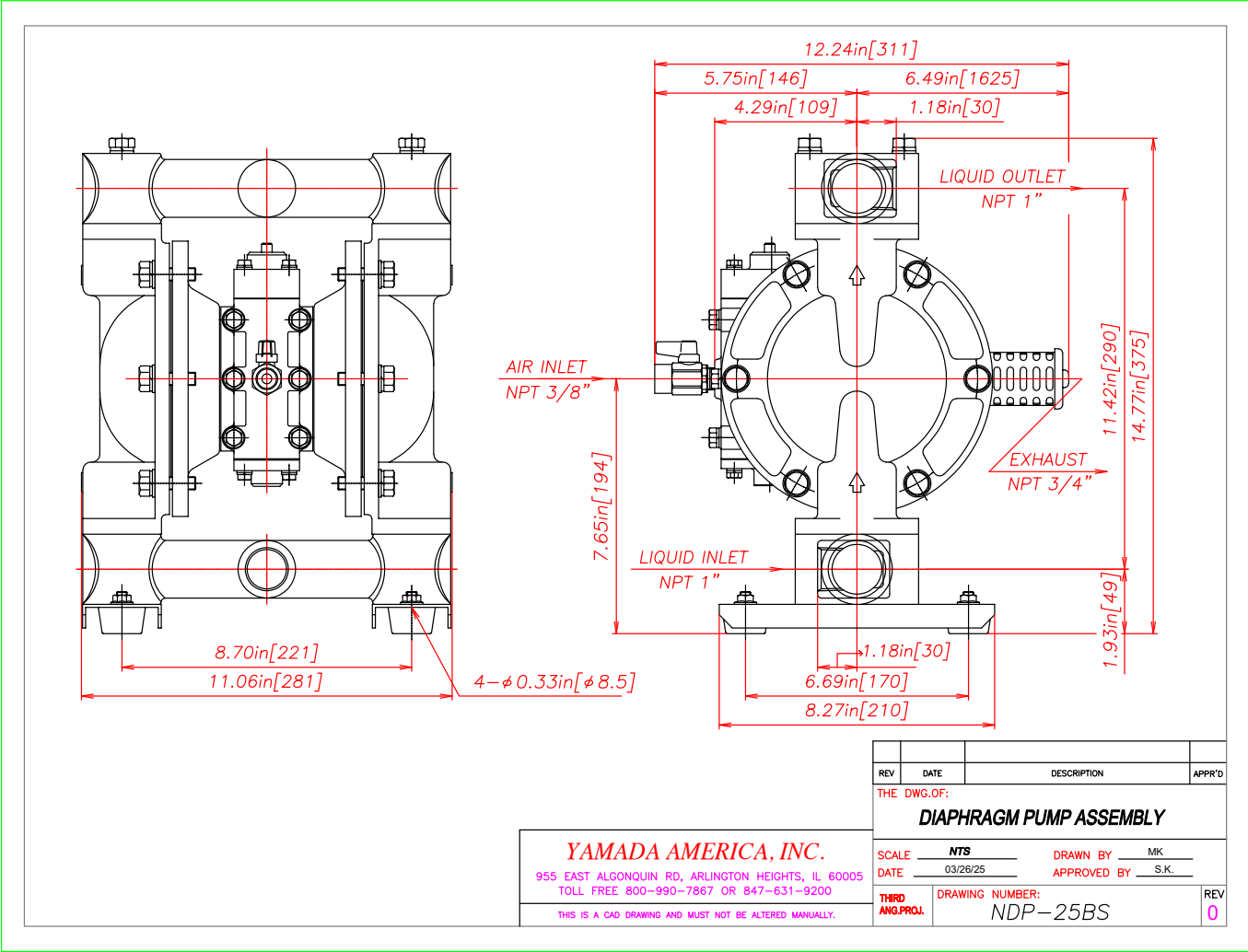


REV	DATE	DESCRIPTION			APPR'D
THE DWG.QF:					
DIAPHRAGM PUMP ASSEMBLY					
SCALE	<u>NTS</u>		DRAWN BY		<u>Y.JI</u>
DATE	<u>03/25/25</u>		APPROVED BY		<u>S.K.</u>
THIRD ANG.PROJ.		DRAWING NUMBER: NDP-25BA			REV 0

Yamada America, Inc. 955 E. Algonquin Rd., Arlington Heights, IL 60005
USA Toll-Free: 800-990-7867 | Phone: 847-631-9200 | Fax: 847-631-9273
Email: sales@yamadapump.com | Web: yamadapump.com

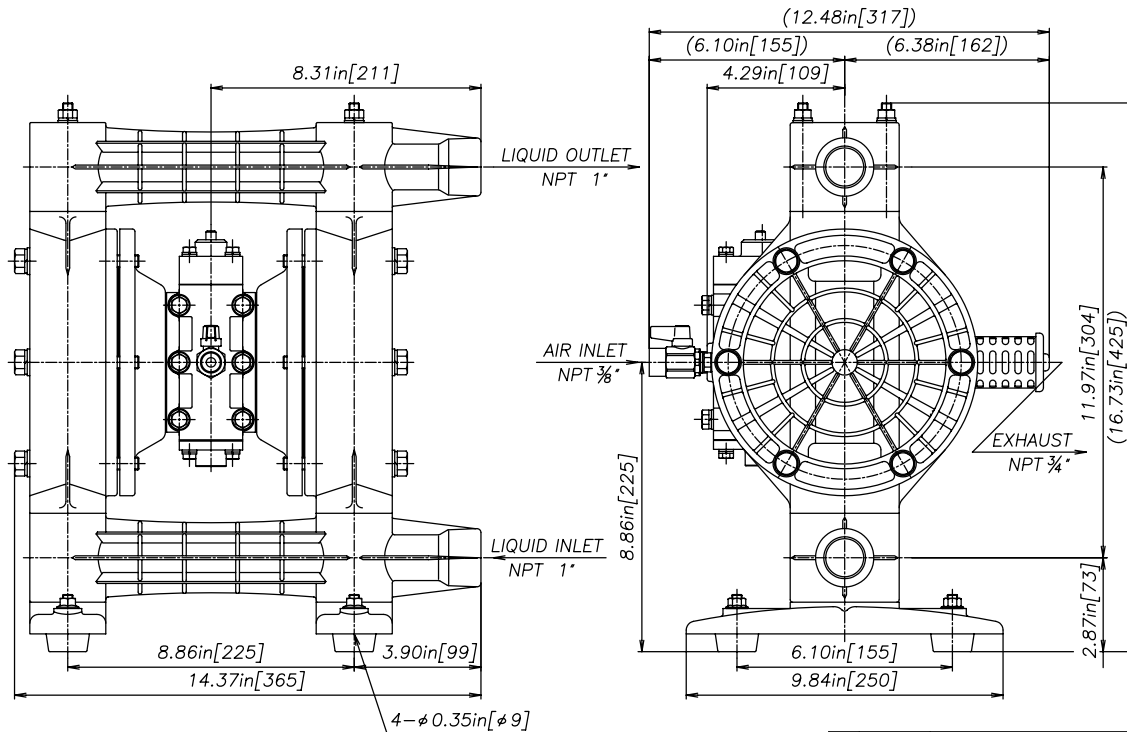
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NDP-25 Stainless Steel CAD



NDP-25 Polypropylene (NPT) CAD

with Metal Center Body



YAMADA AMERICA, INC.

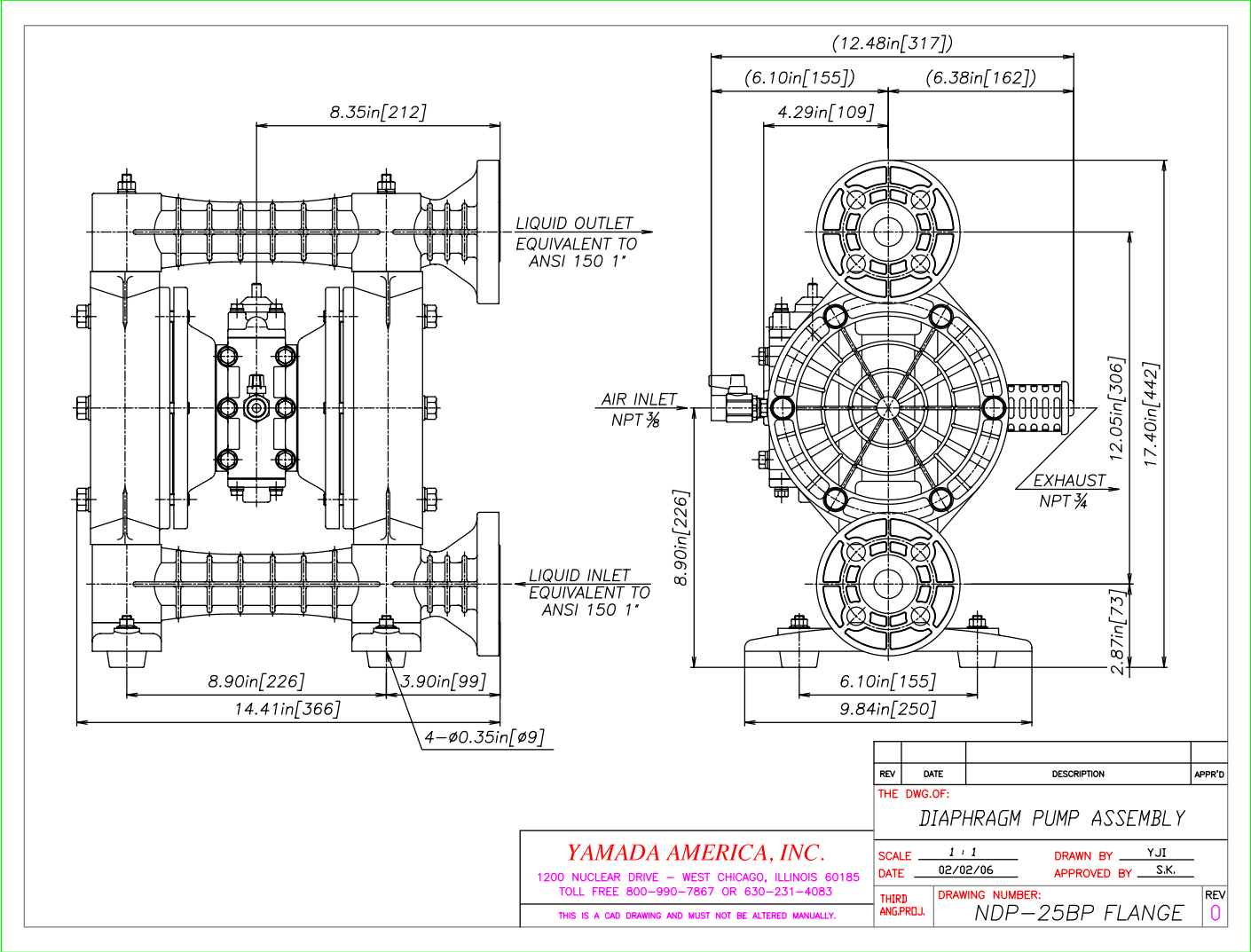
1200 NUCLEAR DRIVE - WEST CHICAGO, ILLINOIS 60185
TOLL FREE 800-990-7867 OR 630-231-4083

THIS IS A CAD DRAWING AND MUST NOT BE ALTERED MANUALLY.

REV	DATE	DESCRIPTION	APPR'D
THE DWG. OF:			
DIAPHRAGM PUMP ASSEMBLY			
SCALE 1 : 1		DRAWN BY YJI	
DATE 02/02/06		APPROVED BY S.K.	
THIRD ANG. PROJ.		DRAWING NUMBER: NDP-25BV NPT	
			REV 0

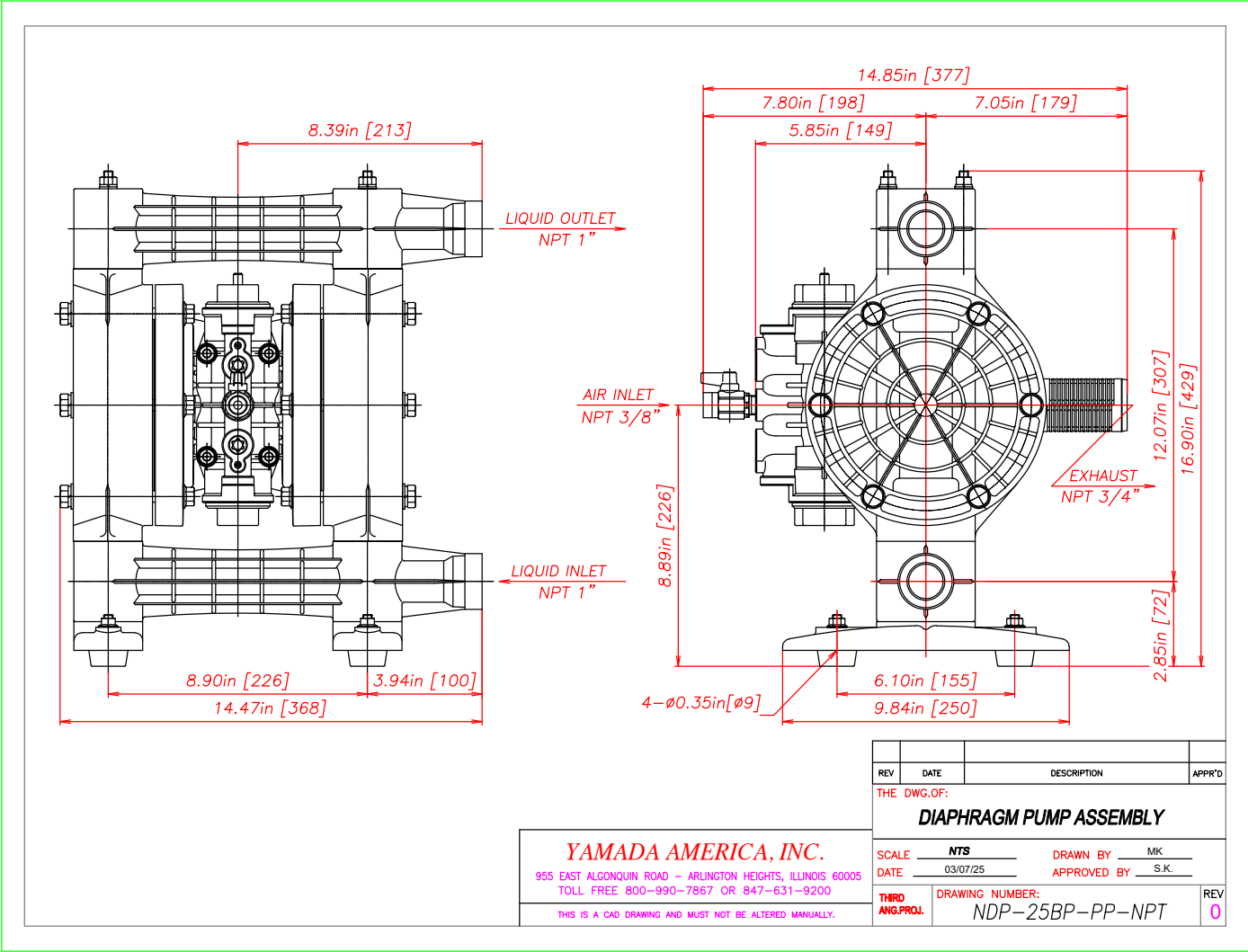
NDP-25 Polypropylene (FLG) CAD

with Metal Center Body



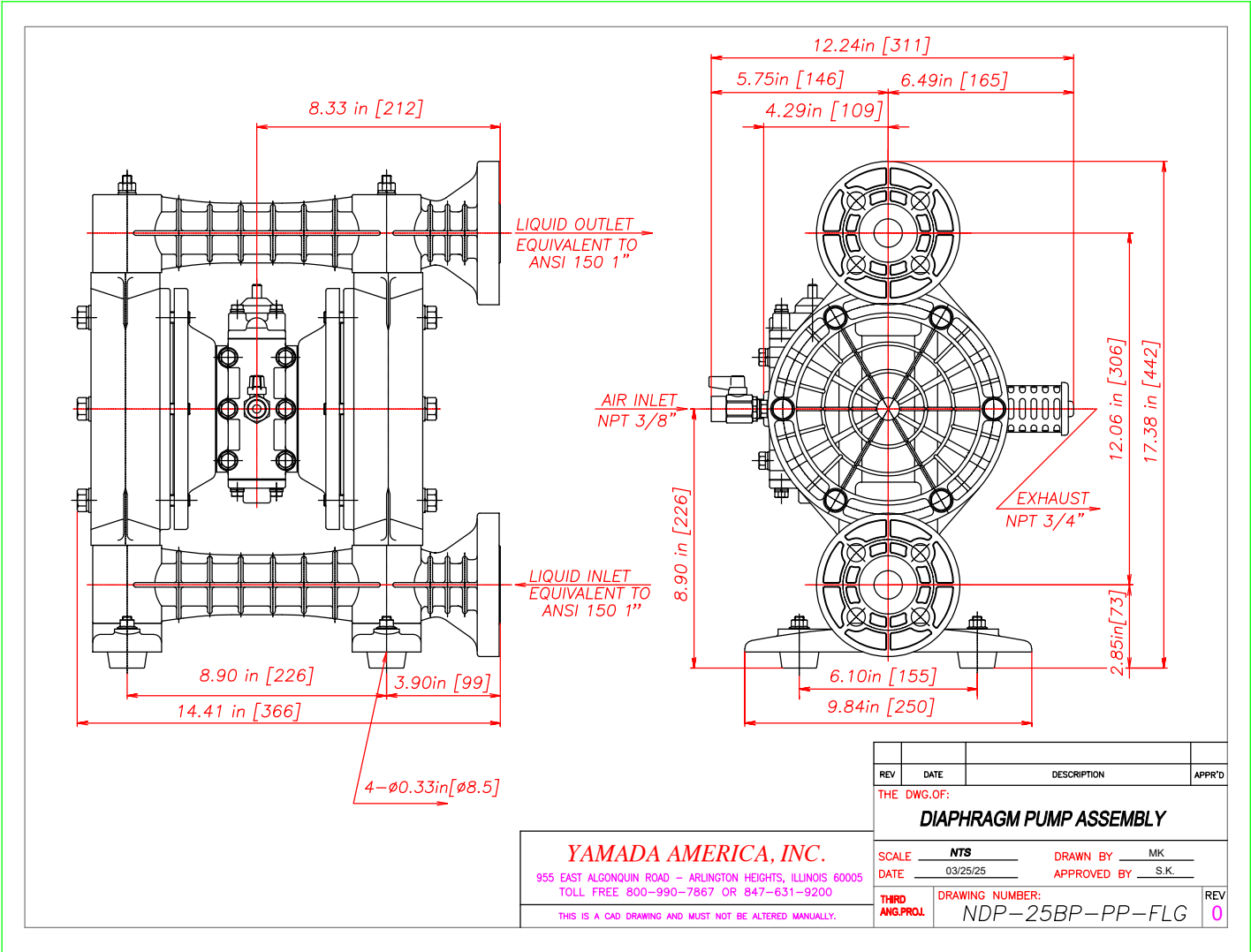
NDP-25 Polypropylene - PP (NPT) CAD

with Non-Metallic Center Body



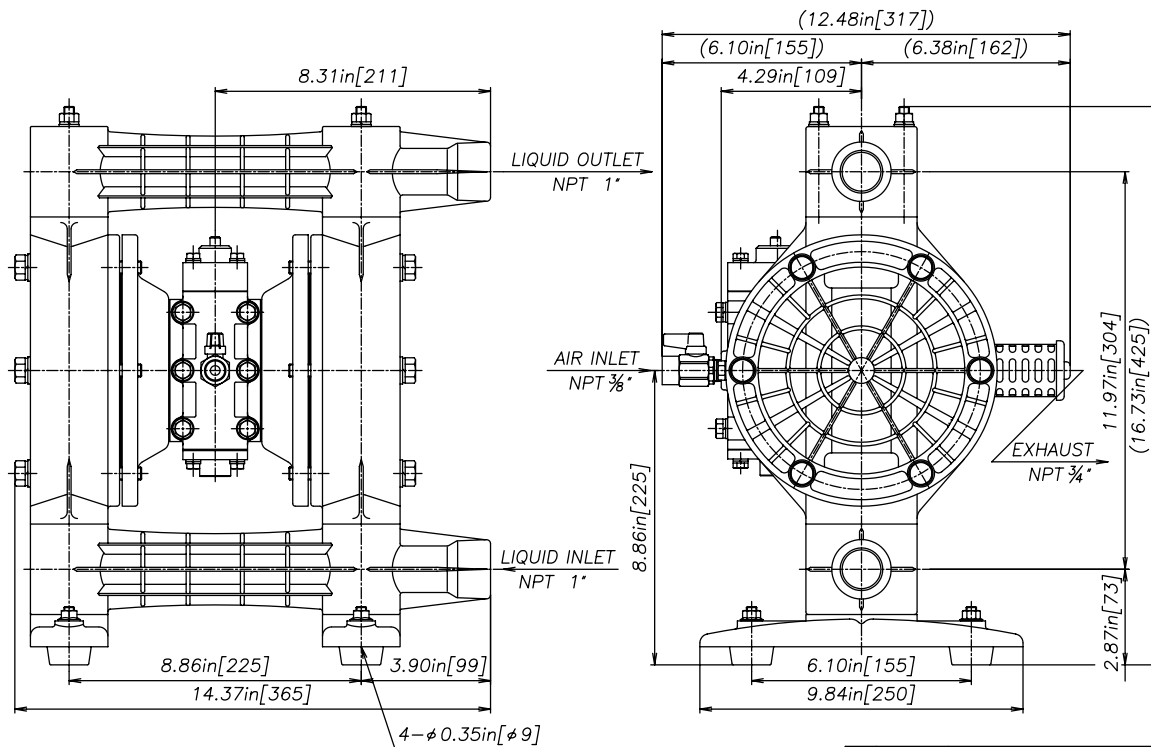
NDP-25 Polypropylene - PP (FLG) CAD

with Non-Metallic Center Body



NDP-25 Kynar (NPT) CAD

with Metal Center Body



YAMADA AMERICA, INC.

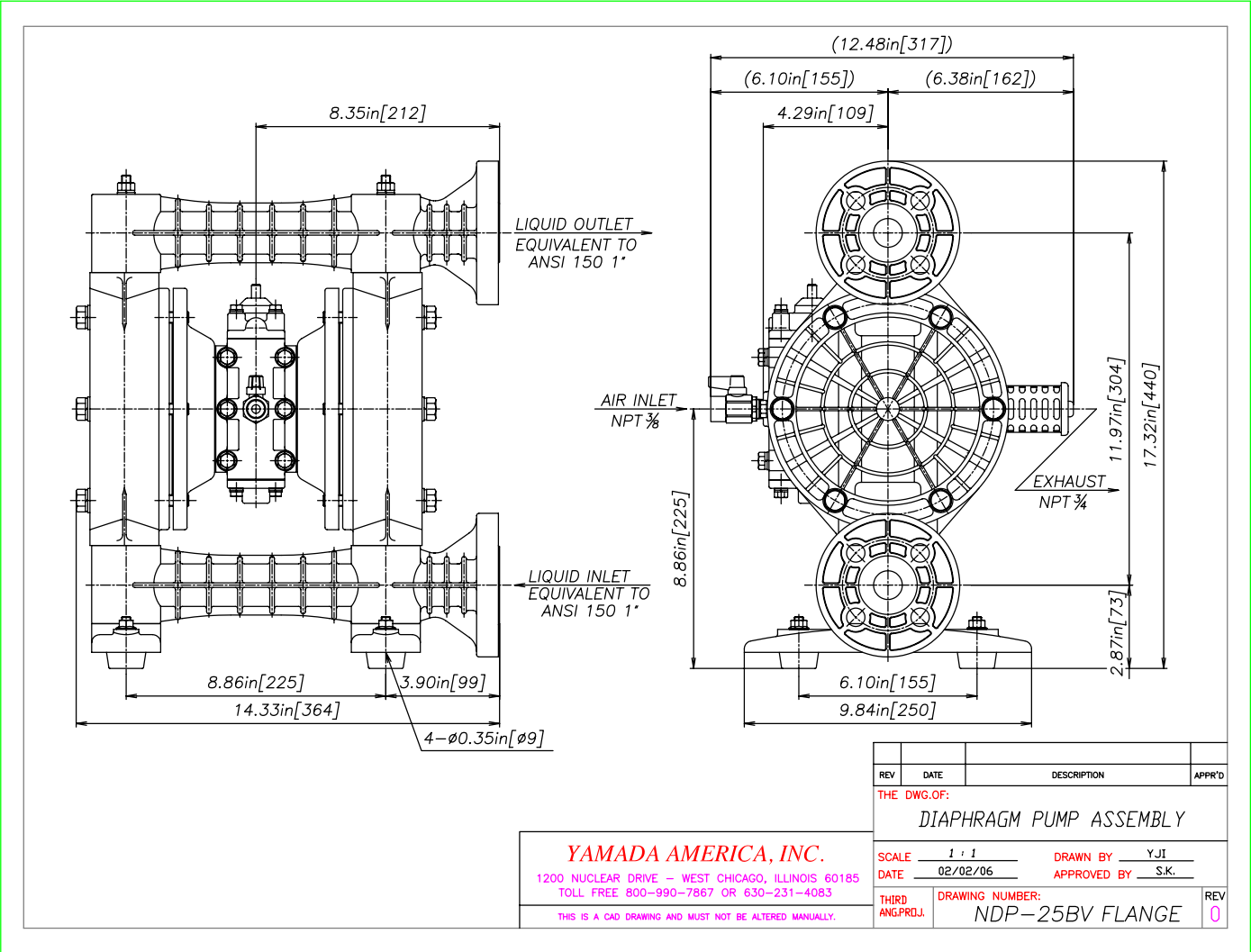
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REV	DATE	DESCRIPTION	APPR'D
THE DWG. OF:			
DIAPHRAGM PUMP ASSEMBLY			
SCALE	1 : 1	DRAWN BY	YJI
DATE	02/02/06	APPROVED BY	S.K.
THIRD ANG. PROJ.	DRAWING NUMBER:		REV
	NDP-25BV NPT		0

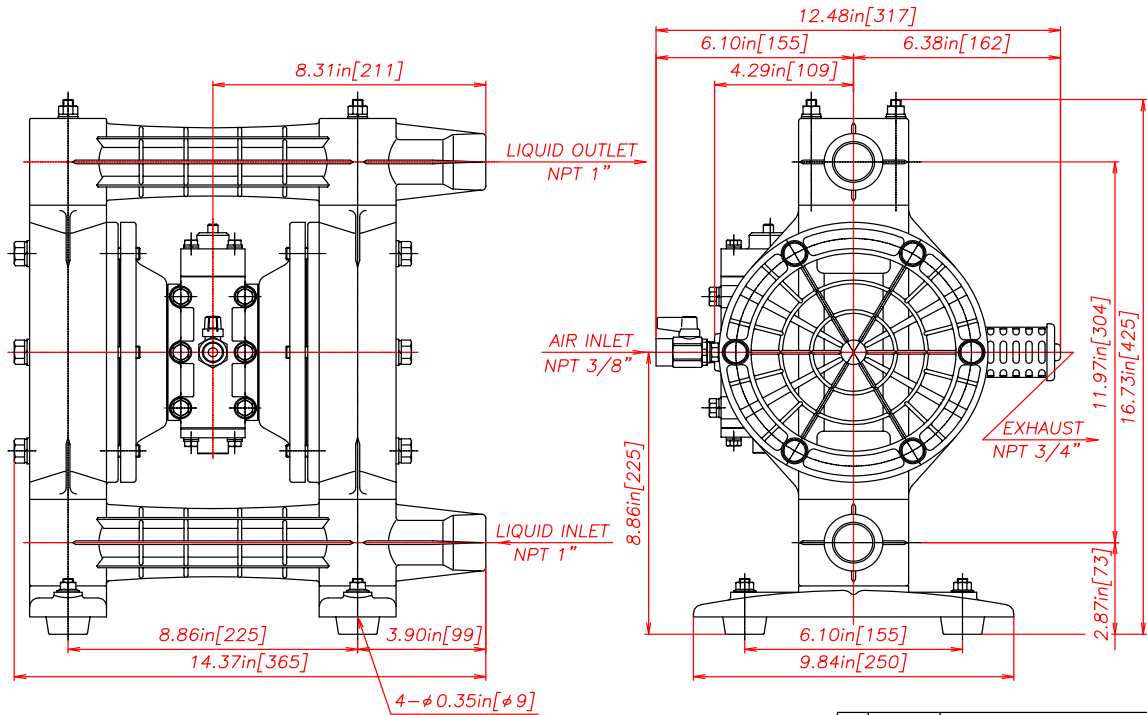
NDP-25 Kynar (FLG) CAD

with Metal Center Body



NDP-25 Kynar - PN (NPT) CAD

with Non-Metallic Center Body



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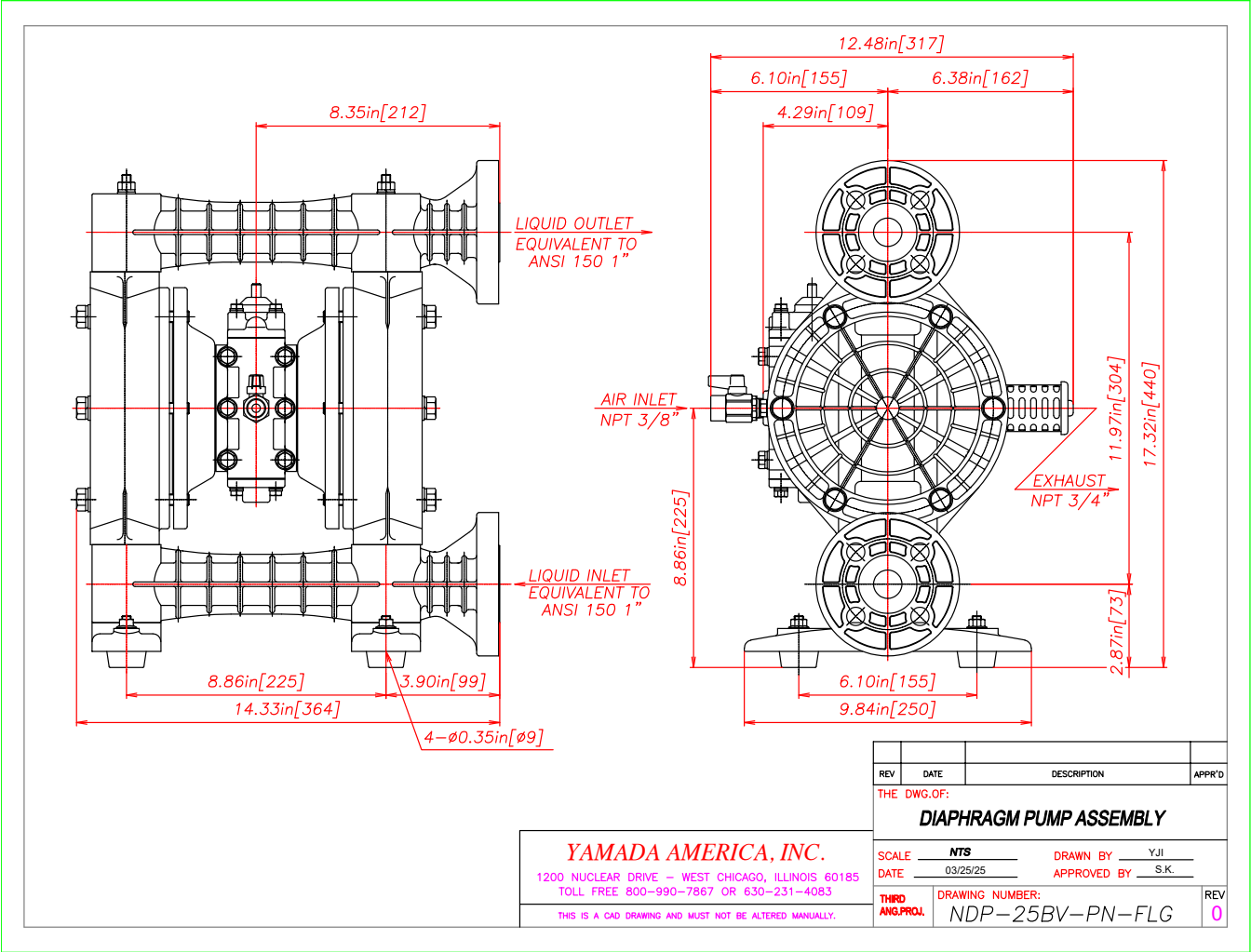
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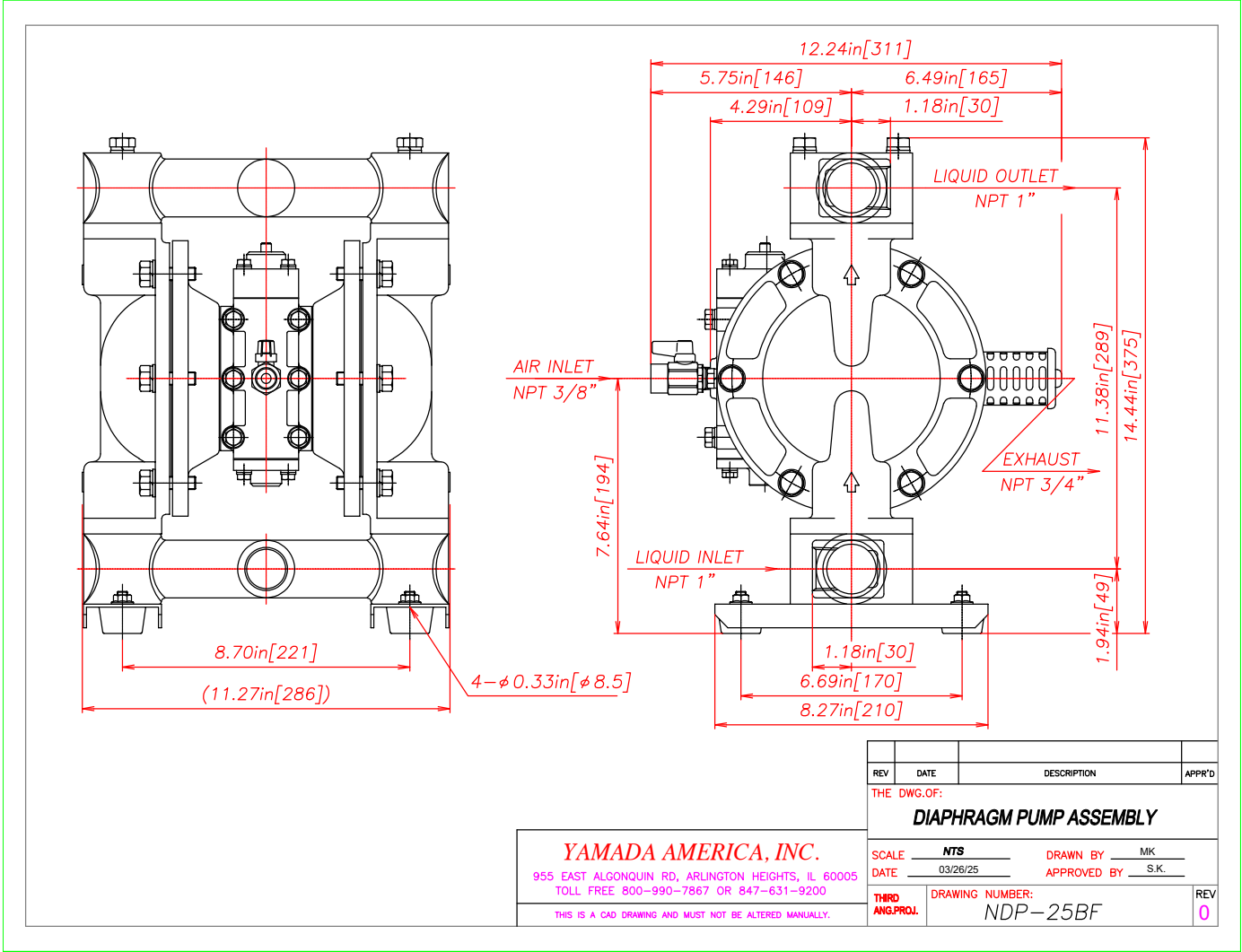
REV	DATE	DESCRIPTION	APPR'D
THE DWG. OF:			
DIAPHRAGM PUMP ASSEMBLY			
SCALE	NTS	DRAWN BY	YJI
DATE	03/25/25	APPROVED BY	S.K.
THIRD ANG. PROJ.	DRAWING NUMBER:	NDP-25BV-PN	
		REV	0

NDP-25 Kynar - PN (FLG) CAD

with Non-Metallic Center Body



NDP-25 Cast Iron CAD



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