

DP Series Specifications

DP-10 Port Dimensions (6 GPM Max.)

Intake & discharge connection:

Polypropylene (PPG)	3/8" Female NPT
Aluminum (ADC-12)	3/8" Female NPT
Stainless Steel (316)	3/8" Female NPT

DP-15 Port Dimensions (7.4 GPM Max.)

Intake & discharge connection:

Polypropylene (PPG)	1/2" Female NPT
Groundable Acetal	1/2" Female NPT

Air Inlet / Exhaust

Air inlet (incl. ball valve):	1/4" Female NPT
Air exhaust (incl. silencer):	3/8" 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)
PTFE	212°F (100°C)
Hytrell® (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 and Groundable Acetal 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

DP-10: 0.020 gallons (76 cc)

DP-15: 0.025 gallons (93 cc)

Maximum Cycles Per Minute

All diaphragms: 300

Maximum Size Solid

1/32" (1 mm)

Maximum Dry Suction Lift

All diaphragms: 10-feet

Air Motor

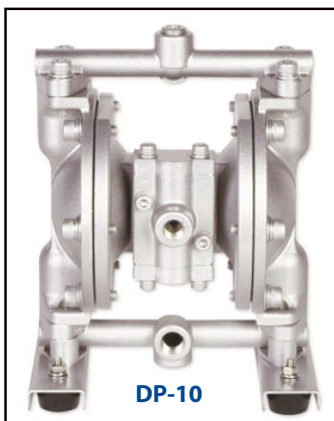
Aluminum Air Motor–Standard

Optional coating: PTFE grey coated (XP)

Optional Split Manifold—contact Yamada

Notes: Hytrell® fitted pumps include Buna N wetted o-rings.

Santoprene® fitted pumps include EPDM wetted o-rings.



DP-10

Aluminum

Dimensions: 7.32"Lx5.59"Wx9.49"H

Net Wt.: 7.7 lbs.

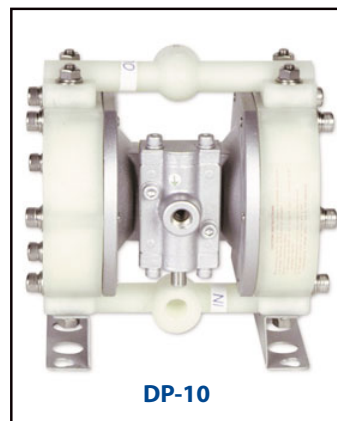
Shipping Wt.: 9.7 lbs.

Stainless Steel

Dimensions: 7.31"Lx5.59"Wx9.37"H

Net Wt.: 11.5 lbs.

Shipping Wt.: 13.3 lbs.



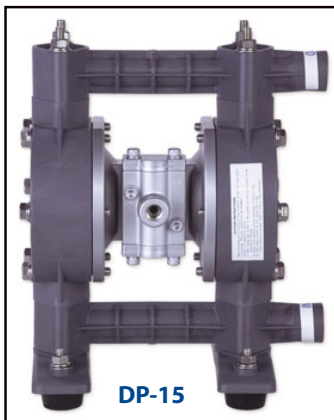
DP-10

Polypropylene

Dimensions: 7.72" Lx4.41"Wx7.72" H

Net Wt.: 6.6 lbs.

Shipping Wt.: 8.4 lbs.



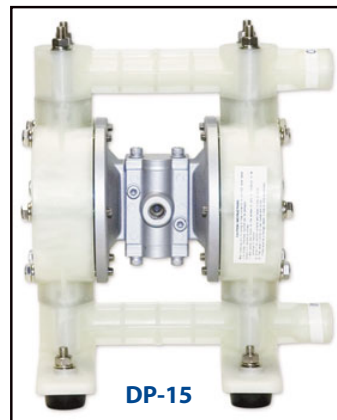
DP-15

Groundable Acetal

Dimensions: 9.63"Lx7.09"Wx11.69" H

Net Wt.: 7 lbs.

Shipping Wt.: 9.7 lbs.



DP-15

Polypropylene

Dimensions: 9.63"Lx7.09"Wx11.69" H

Net Wt.: 7 lbs.

Shipping Wt.: 9.7 lbs.

Model Number Nomenclature

Series: DP-10 pump or DP-15 pump	DP-1x	x	x	x
Valve Type: B = Ball F = Flat*				
Body Material: P = Polypropylene D = Groundable Acetal A = Aluminum S = Stainless Steel				
				Diaphragm Material: C = Neoprene (CR) N = Buna N (NBR) S = Santoprene® (TPO) T = PTFE V = Viton® (FPM) H = Hytrell® (TPE)

* Flat valves available for DP-15 pumps only.

Yamada
Form: DP-10/15 Series Data Sheet-020526

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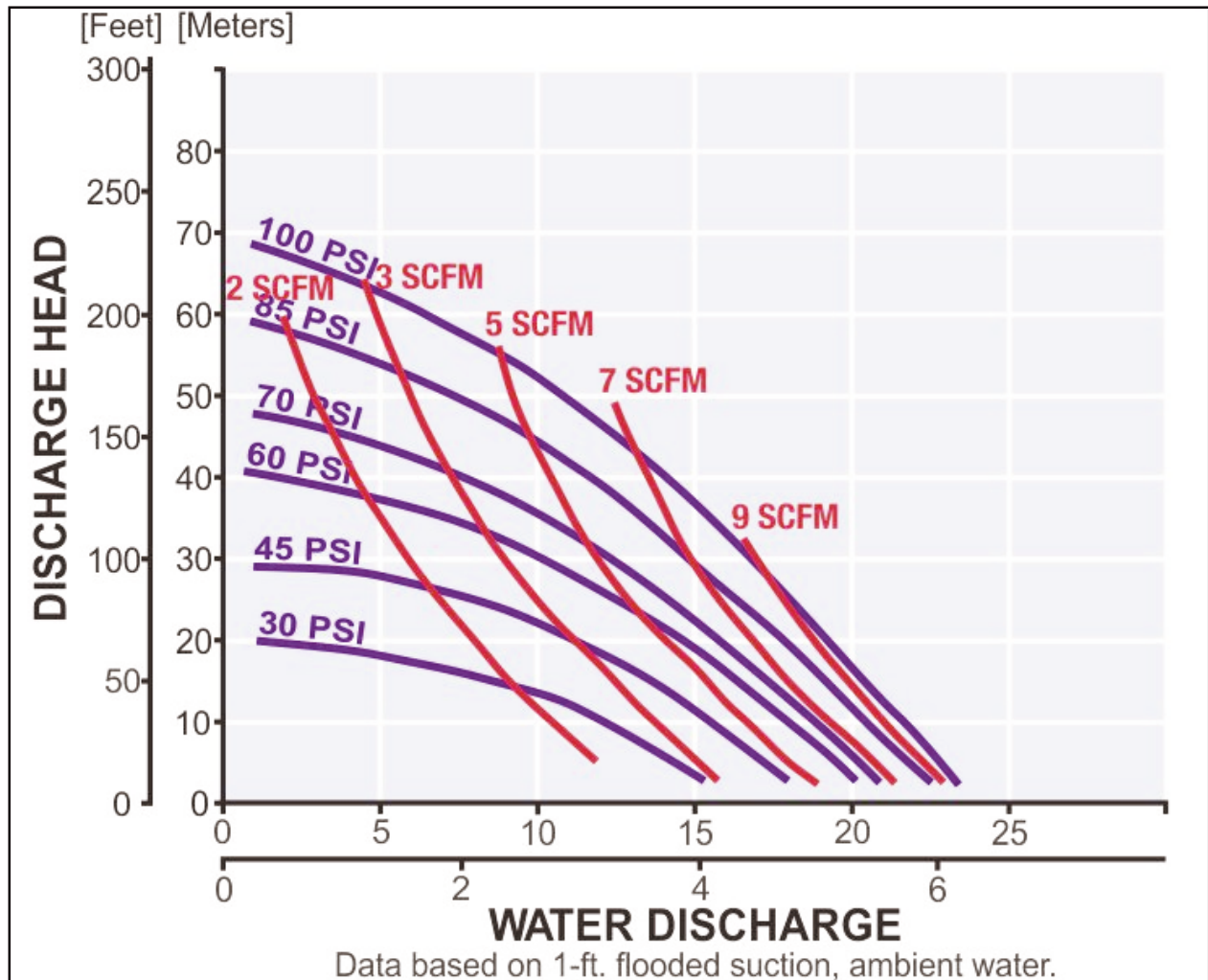


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DP-10 Performance Curve

All Diaphragm Materials



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

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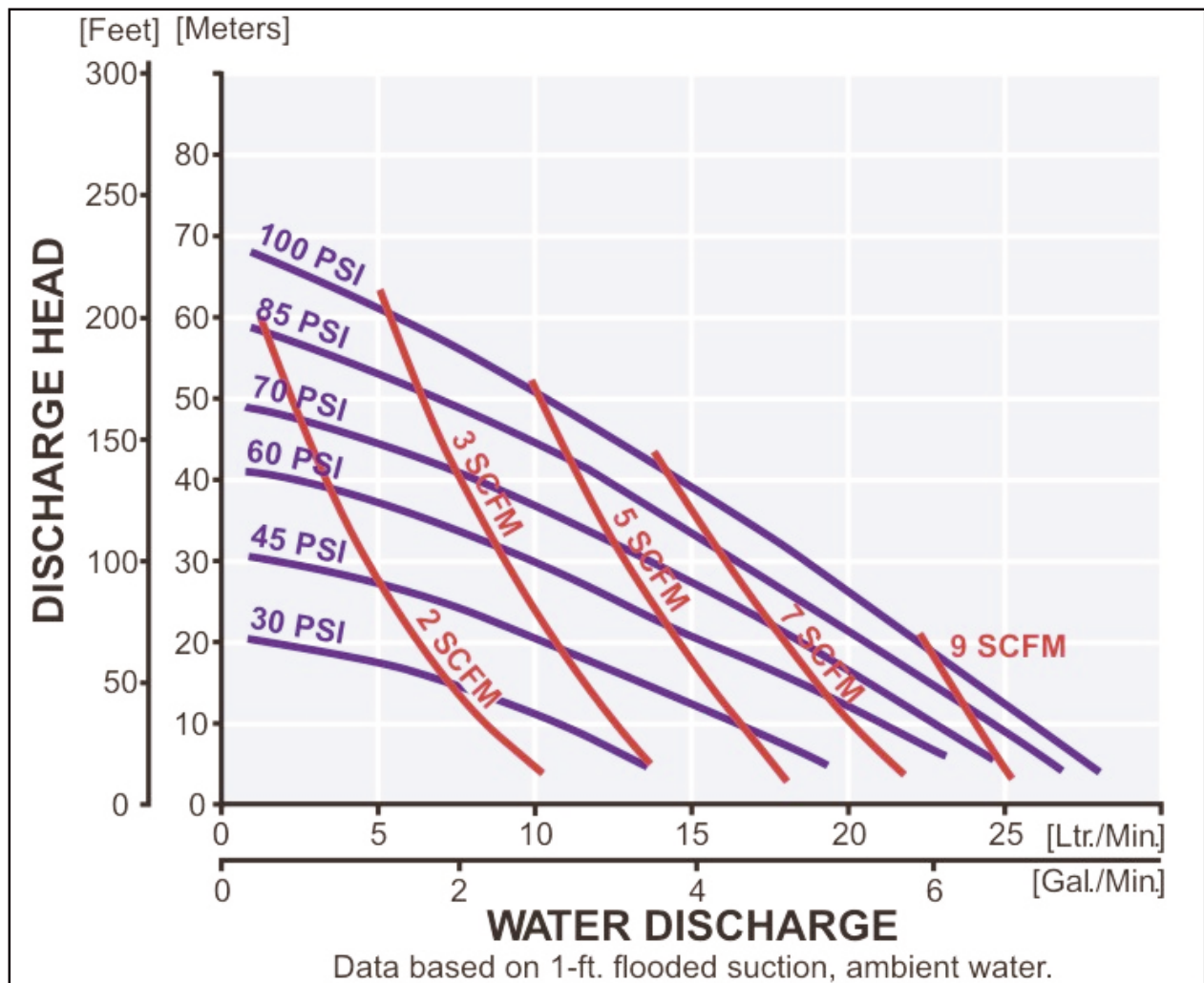
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DP-15 Performance Curve

All Diaphragm Materials



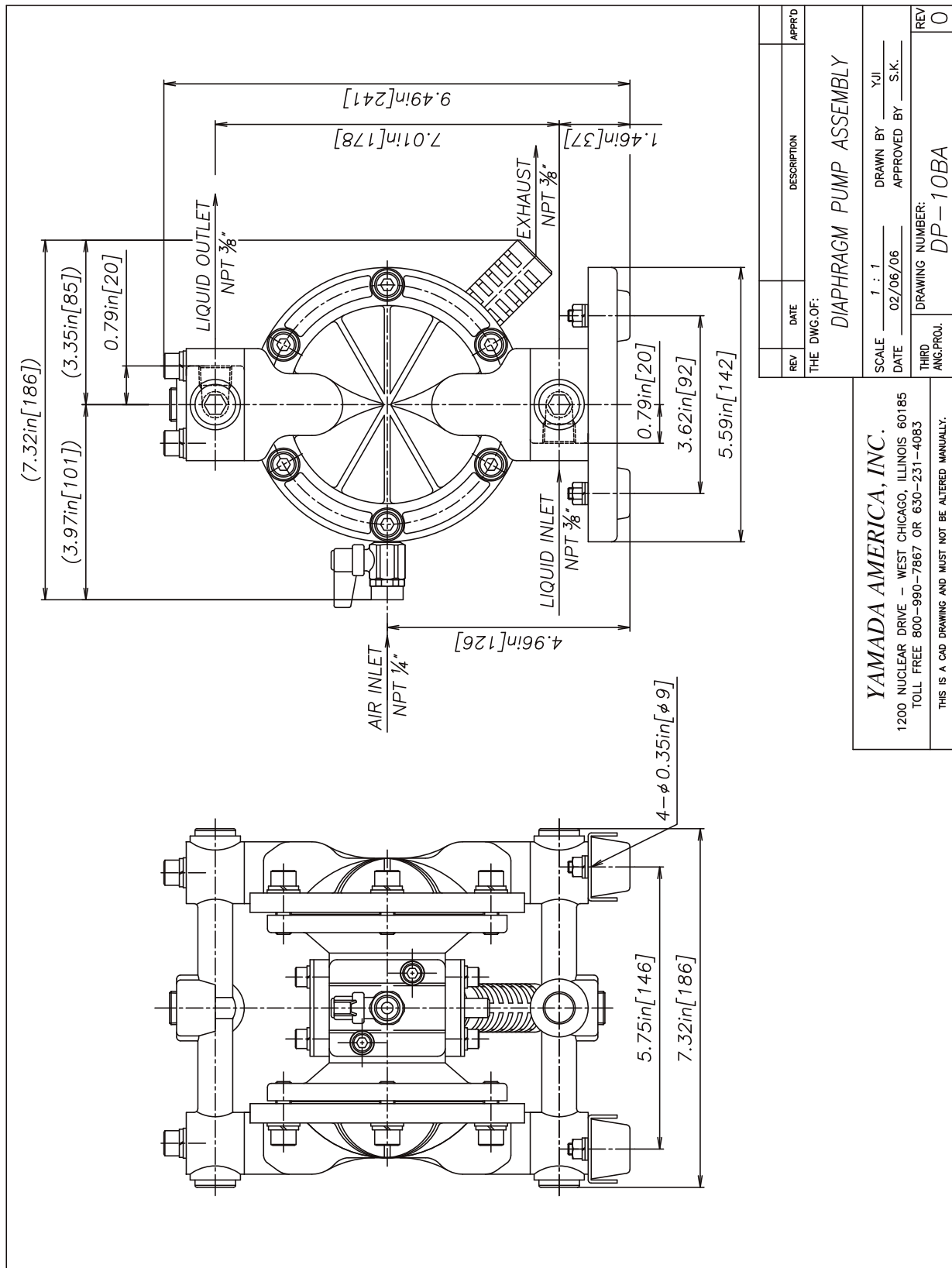
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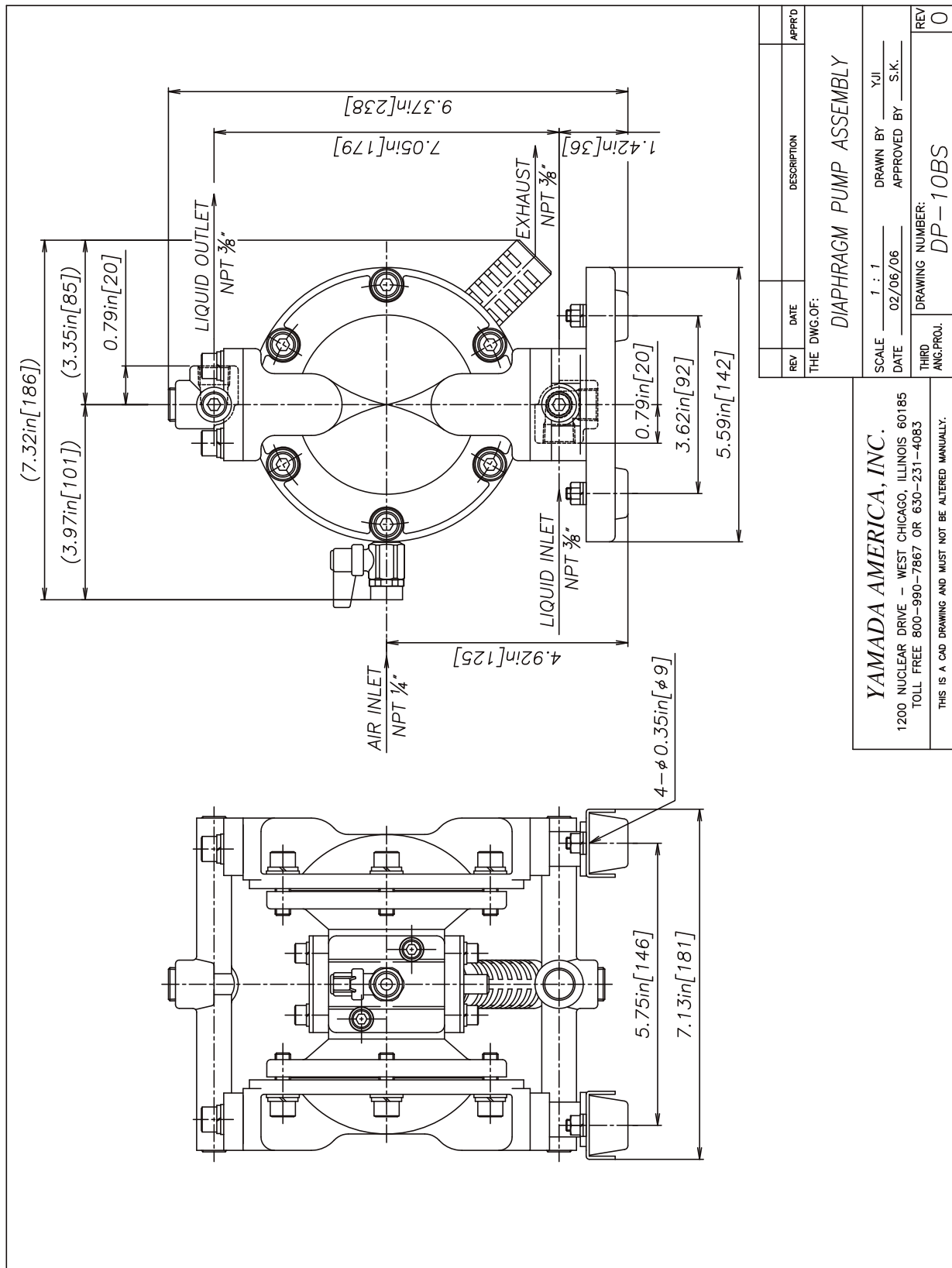


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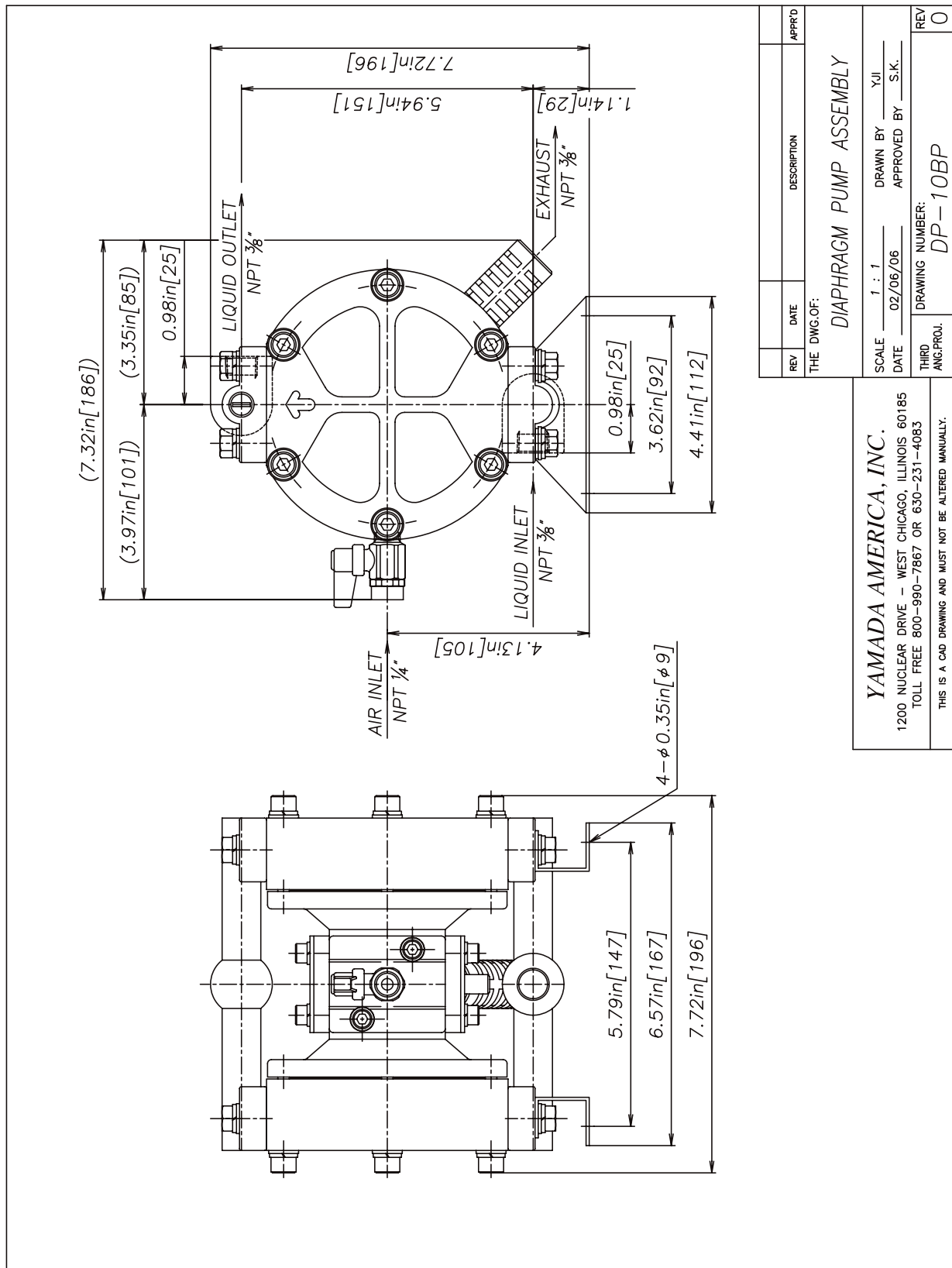


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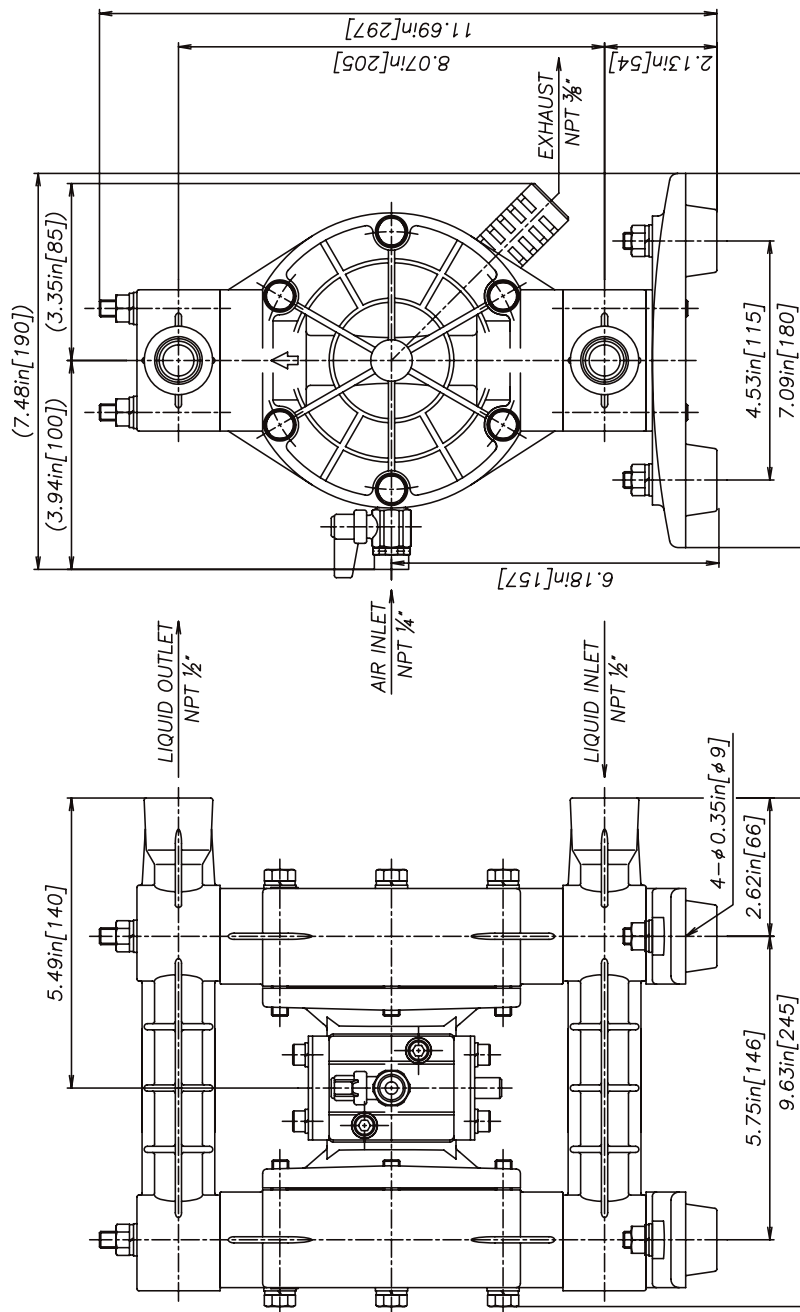


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REV	DATE	DESCRIPTION	APPR'D
THE DWG. OF:			
DIAPHRAGM PUMP ASSEMBLY			
SCALE 1 : 1			
DRAWN BY YJI			
DATE 02/10/06			
APPROVED BY S.K.			
DRAWING NUMBER:			
DP-15F/B PLASTIC			
REV	ANG/PROJ.		
0			

YAMADA AMERICA, INC.

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

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