



# DIAPHRAGM PUMPS



Quality material  
Rich product variety  
High stock capacity

This catalog is about diaphragm pumps designed to meet industrial needs. Focusing on the technical details of diaphragm pumps, it extensively covers their advantages, applications, purposes, and liquid transfer capabilities.

It is used for various purposes in many fields of industry. Diaphragm air pumps provide great convenience to the user. They are commonly used in the transfer and circulation of various chemicals, adhesives, solvents, paints, and inks. Air pumps operate without electricity. Thus, they have a safe ex-proof feature against ignition and explosion. Nitrile Rubber (Buna-N) diaphragms are suitable for water-based fluids, while PTFE (Teflon®) diaphragms are suitable for solvent-based fluids in the usage process.

They easily pump high-viscosity liquids.

They can suction from depths of up to 5 meters without using a valve.

They can operate dry (although the diaphragm life is shortened) and do not require a sealing element.

There is no requirement for air intake.

They operate with air and have an ex-proof (explosion-proof) feature.

They do not compromise the chemical properties of sensitive liquids.

Depending on the pump size, they allow solid particles ranging from 1.6 mm to 9.5 mm to pass through.

Maintenance can be quickly performed within the operation.

When a bolted connection system is applied in the body construction, they can be used at higher pressures and have a sealing feature.

With options of plastic, aluminum, stainless steel, and cast iron materials, they enable the transfer of fluids with different properties.

Pumps made from 316 SS stainless steel material, with both internal and external surfaces subjected to precision processing, ensure hygienic conditions in the food, dairy, pharmaceutical, and cosmetic industries.





# Industries

# Applications and fluids

Aerospace  
 Automotive  
 Ceramic  
 Chemical Processing  
 Machine Builders – Formulation  
 Mining and Construction  
 Oil / Gas Petrochemical  
 Paint and Coatings  
 Pharmaceutical and Cosmetics  
 Print Shop and Ink Manufacture  
 Marine  
 Food and Beverage  
 General Industrial  
 Pulp and Paper  
 Plating and Finishing  
 Water/Waste-water Treatment  
 Power Generation  
 Steel

Tank and Truck Loading/Unloading  
 Printing Flexo/Offset  
 Batching/Dosing  
 Hazardous Duty  
 Dispensing  
 Dewatering  
 Fluid transfer  
 Formulation  
 Lubrication  
 Packaging  
 Filter Press  
 Finishing  
 Sumps  
 Cleaning  
 Circulating  
 Coating  
 Filling

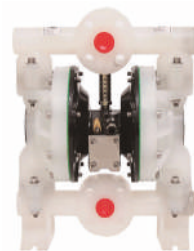
Ink  
 Paint  
 Acids and Caustics  
 Solvents  
 Glucose  
 Alcohol  
 Ceramic Slurry  
 Oil  
 Glue  
 Gasoline  
 Waste Water  
 Detergent

## Material Service Guideline

Material	Max. Temperature	Chemical Resistance	Abrasion Resistance	Diaphragms Flex Life
Acetal	82 °C	3	3	-
Aluminium	-	1	3	-
Buna N (Nitrile)	82° C	2	2	3
Cast Iron	-	3	4	-
Geolast (Nitrile based)	82° C	2	2	3
Hastelloy	-	5	-	-
Hytrel	66° C	2	4	4
Kynar (PVDF)	93° C	5	2	-
Neoprene	93° C	2	2	3
Polypropylene	66° C	4	2	-
Polyurethane	66° C	1	4	4
Santoprene	107° C	4	4	5
Stainless Steel 300	-	4	4	-
Stainless Steel 400	-	3	5	-
PTFE	107° C	5	2	4
Viton	177° C	4	2	1

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IngersollRand

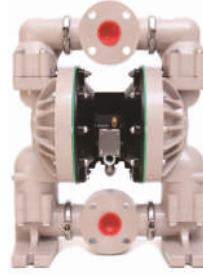
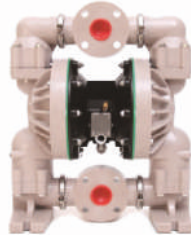
TF  
Series



	1/4"	1/2"	1/2"	1"	1"
Max Flow LPM	20 l/min	54 l/min	49 l/min	177 l/min	200 l/min
Max Discharge Pressure Bar	8.6 bar (125 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)
Fluid Inlet	1/4" NPT	1/2" NPT	1/2" NPT	1" Flange	1" Flange
	1/4" BSP	1/2" BSP	1/2" BSP		
Fluid Outlet	1/4" NPT	1/2" NPT	1/2" NPT	1" Flange	1" Flange
	1/4" BSP	1/2" BSP	1/2" BSP		
Materials of Construction	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
				PVDF	PVDF
Pump Weight Kg	2.5 kg	3.3 kg	3.3 kg	10 kg	10 kg
Max Solids mm	1.6 mm	2.4 mm	2.4 mm	3.2 mm	3.2 mm
Best Selling Models	TFPD01P-HPS-PAA TFPD01P-HPS-PTT	TFPD05P-BPS-PAA TFPD05P-BPS-PTT	TF66605J-0D2 TF66605J-3EB TF66605J-344 TF666053-344	TF6661A3-344 TF6661A3-3EB TF6661AF-344 TF6661AF-3EB	TFPD10P-FPS-PAA TFPD10P-FPS-PTT



TF  
Series



	1-1/2"	1-1/2"	2"	2"	3"
Max Flow LPM	465 l/min	378 l/min	696 l/min	549 l/min	1050 l/min
Max Discharge Pressure Bar	8.3 bar (120 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)
Fluid Inlet	1-1/2" Flange	1-1/2" Flange	2" Flange	2" Flange	3" Flange
Fluid Outlet	1-1/2" Flange	1-1/2" Flange	2" Flange	2" Flange	3" Flange
Materials of Construction	Polypropylene	Polypropylene PVDF	Polypropylene	Polypropylene PVDF	Polypropylene
Pump Weight Kg	20 kg	29 kg / 43 kg	40 kg	29 kg / 43 kg	80 kg
Max Solids mm	6.4 mm	6.4 mm	6.4 mm	6.4 mm	9.5 mm
Best Selling Models	TFPD15P-FPS-PAA TFPD15P-FPS-PTT	TF6661T3-344 TF6661T3-3EB	TFPD20P-FPS-PAA TFPD20P-FPS-PTT	TF6662A3-344 TF6662A3-3EB	TFPD30P-FPS-PAA TFPD30P-FPS-PTT

## Product Description

**Ratio:** 1:1

**Maximum flow:** 20 Lpm

**Displacement per cycle:** 0.072 liters

**Air inlet:** NPT 1/4

**Liquid inlet/outlet:** 1/4" Npt

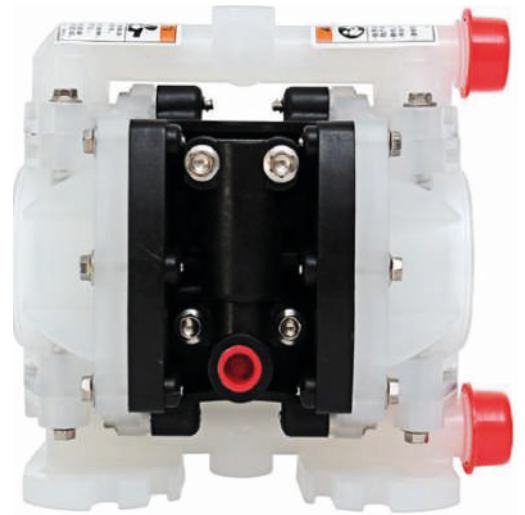
**Maximum working pressure:** 8.6 bar

**Suitable diameter of the largest suspended solids that can pass:** 1.6 mm

**Weight:** 1.5 kg

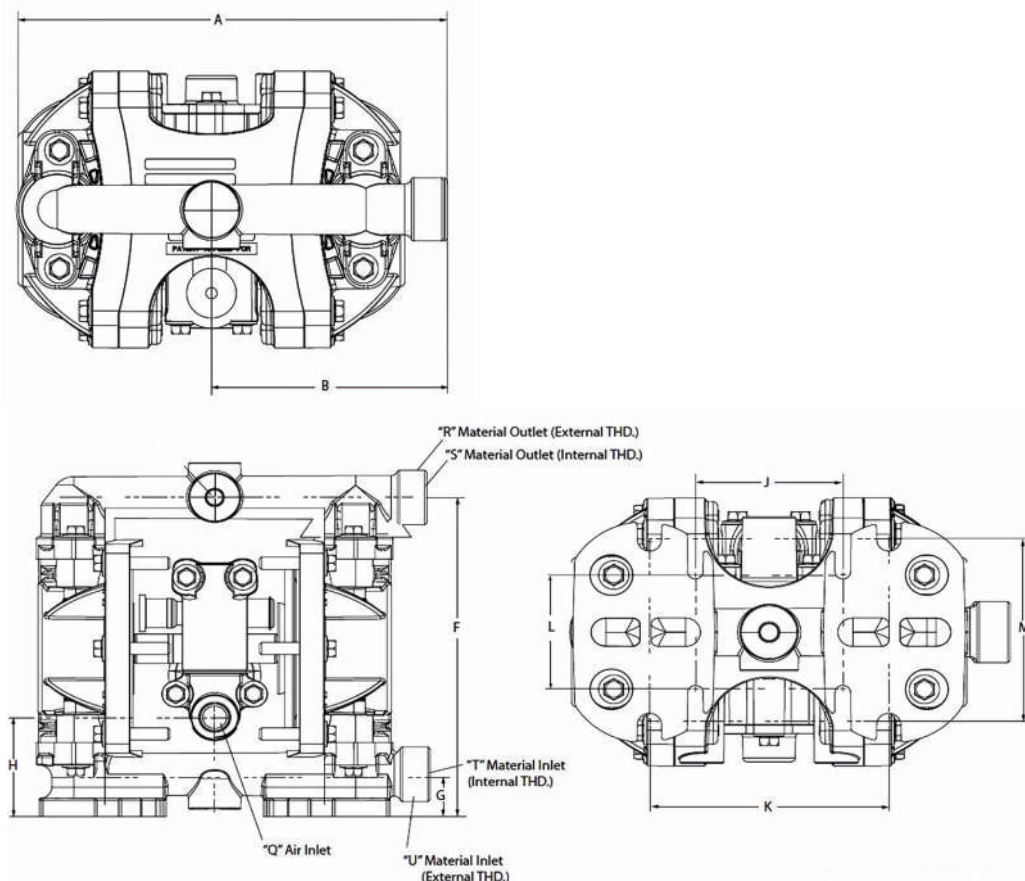
**Maximum dry suction height:** 5 m

**Noise level:** 70PSI 60 cycles/min 63db (A)



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Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD01	P Polypropylene E Groundable polypropylene	H 1/4" NPT BSP hybrid	P Polypropylene D Groundable Acetal	S Stainless Steel	P Polypropylene D Acetal	A Santoprene® G Nitrile T PTFE	A Santoprene® G Nitrile T PTFE



## Product Description

**Ratio:** 1:1

**Maximum flow:** 54 Lpm

**Displacement per cycle:** 0.15 liters

**Air inlet:** NPT 1/4

**Liquid inlet/outlet:** 1/2" Bsp/Npt

**Maximum working pressure:** 6.9 bar

**Suitable diameter of the largest suspended solids that can pass:** 2.4mm

**Weight:** 3 kg

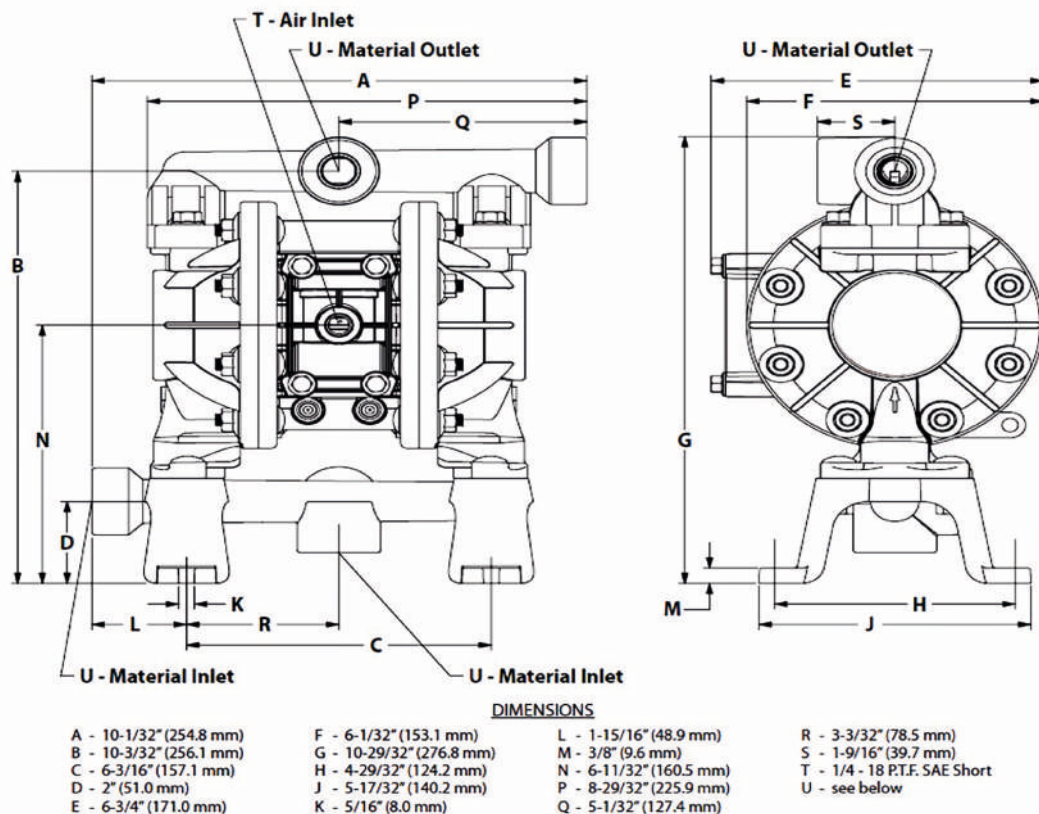
**Maximum dry suction height:** 2.40 m

**Noise level:** 70PSI 60 cycles/min 75db (A)



EQUIVALENT TO ARO®  
IngersollRand

Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD05	P Polypropylene	A 1/2" NPTF B 1/2" BSP	P Polypropylene D Groundable Acetal K PVDF	S Stainless Steel	P Polypropylene D Acetal K PVDF S Stainless Steel	A Santoprene® C Hytrel® G Nitrile S Stainless Steel T PTFE U Polyurethane V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene U Polyurethane V Viton®





## Product Description

**Ratio:** 1:1

**Maximum flow:** 49 Lpm

**Displacement per cycle:** 0.15 liters

**Air inlet:** NPT 1/4

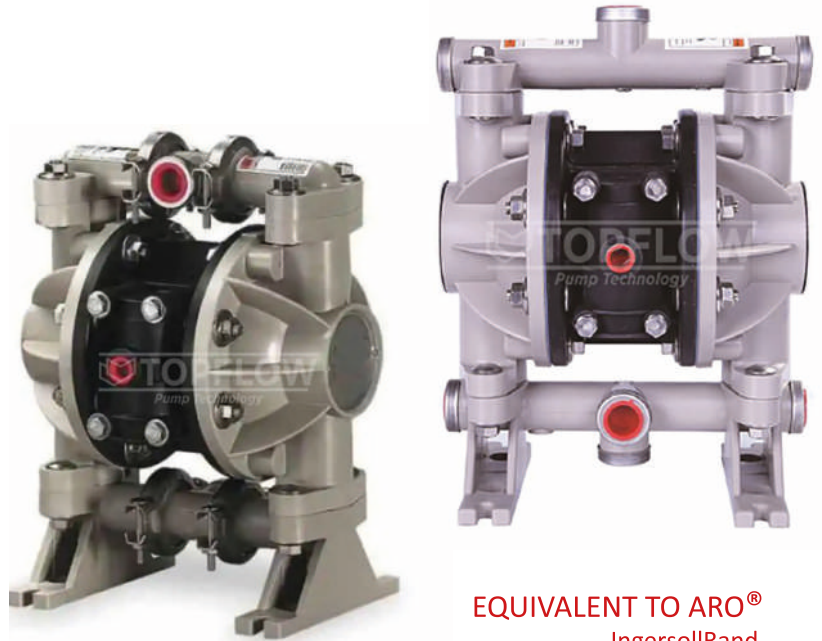
**Liquid inlet/outlet:** 1/2" Bsp/Npt

**Maximum working pressure:** 6.9 bar

**Suitable diameter of the largest suspended solids that can pass:** 2.4mm

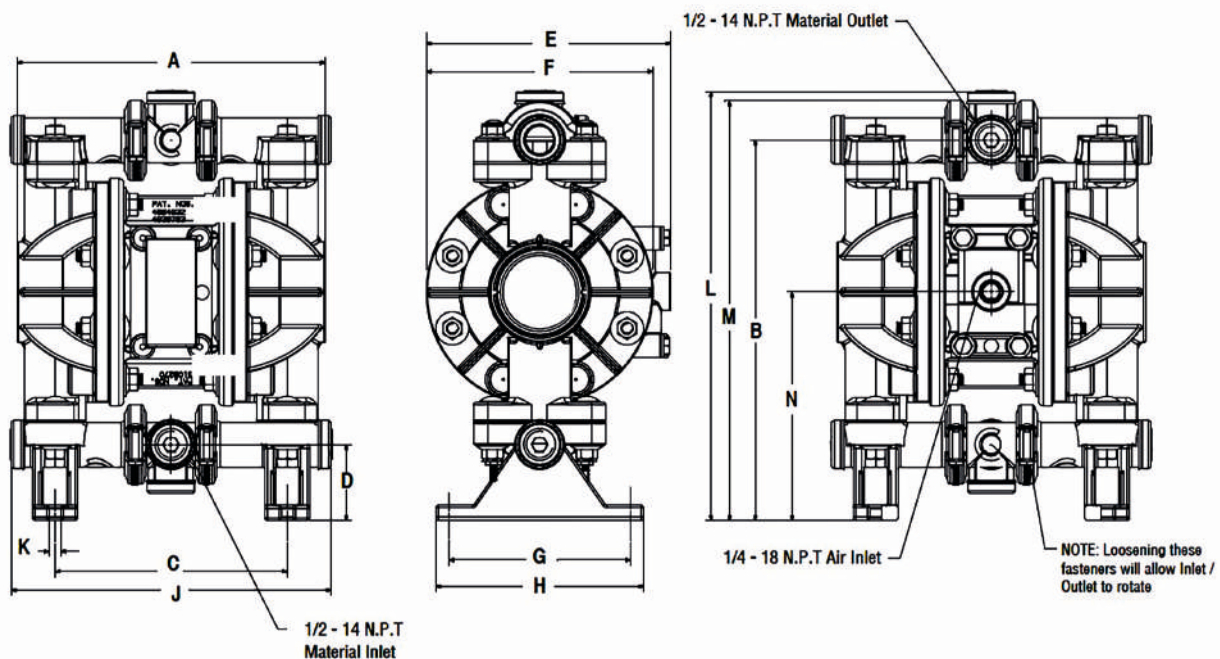
**Weight:** 3.3 kg

**Noise level:** 70 PSI 60 Cycles/Min 71.1 db(A)



**EQUIVALENT TO ARO®  
IngersollRand**

Type	Center Body Material / Fluid Connection	Fluid Cap & Manifold Material / Hardware	Seat Material	Ball Material	Diaphragm	Version
TF66605	3 Polypropylene 6 Groundable Acetal J Polypropylene H Groundable Acetal	0 Aluminium /Steel 1 Stainless Steel/ Steel 2 Cast Iron/ Steel B Stainless Steel/ Stainless Steel	0 - (Duck Bill) 2 Stainless Steel 3 Polypropylene 4 Kynar PVDF 6 Acetal	1 Neoprene 2 Nitrile 3 Viton 4-PTFE Teflon 6 Acetal 8 Polyurethane A Stainless Steel E Santoprene	1 Neoprene 2 Nitrile 3 Viton 4 PTFE/ Santoprene 9 Hytrel B Santoprene	C



### DIMENSIONS

A - 8.155" (207.1 mm)	E - 6.467" (164 mm)	J - 8.445" (215 mm)
B - 10.051" (255 mm)	F - 6.000" (152 mm)	K - 0.312" (8 mm)
C - 6.135" (155.8 mm)	G - 4.812" (122.2 mm)	L - 11.331" (288 mm)
D - 2.005" (51 mm)	H - 5.500" (140 mm)	M - 11.084" (282 mm)
		N - 6.040" (153 mm)

## Product Description

**Ratio:** 1:1

**Maximum flow:** 178 Lpm

**Displacement per cycle:** 0.64 liters

**Air inlet:** 1/4"

**Liquid inlet/outlet:** 1" Flange

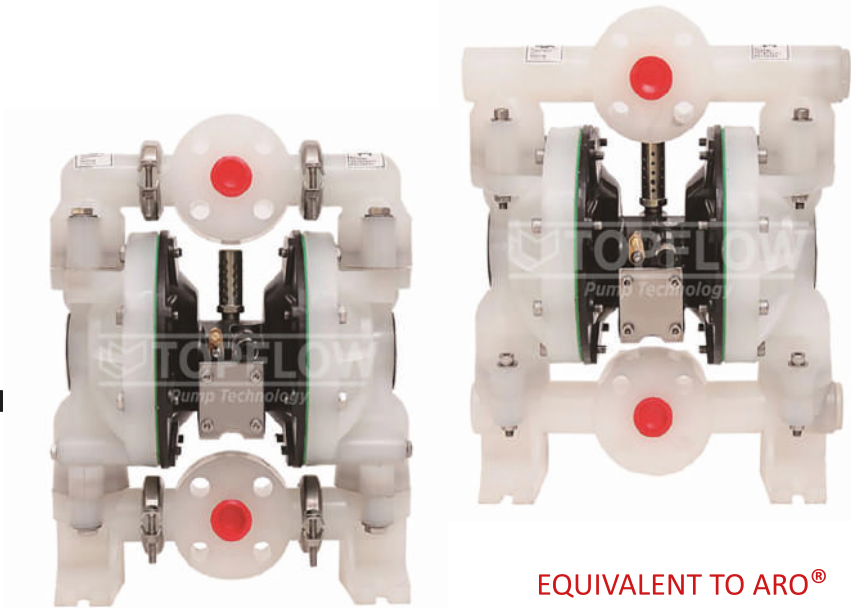
**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 3.2 mm

**Weight:** 10/13 kg

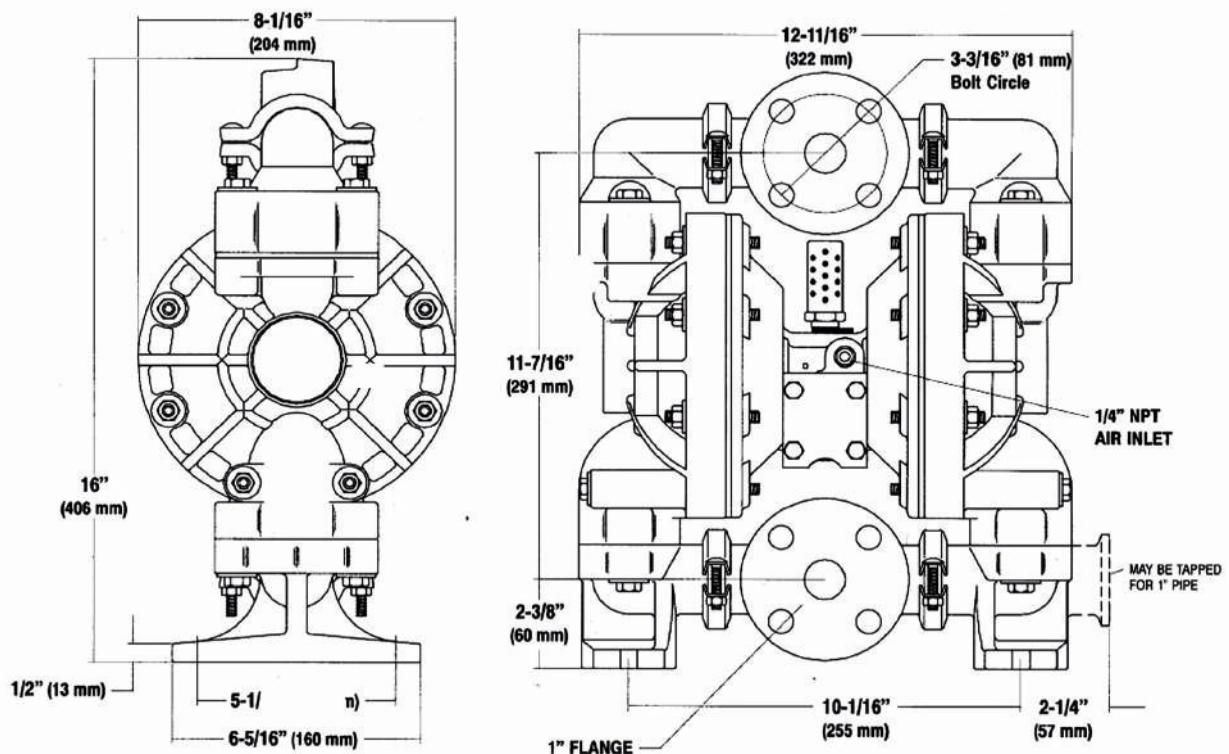
**Maximum dry suction height:** 4.5 m

**Noise level:** 70PSI 60 cycles/min 65db (A)



**EQUIVALENT TO ARO®**  
 IngersollRand

Type	Center Body Material / Fluid Connection	Fluid Cap & Manifold Material / Hardware	Seat Material	Ball Material	Diaphragm	Version	
TF6661	A Aluminium	3 Polypropylene, flange (3-piece manifold) ANSI/DIN F Polypropylene, flange one piece manifold ANSI/DIN 4 Kynar PVDF	3 Polypropylene 4 Kynar PVDF	4-PTFE Teflon E Santoprene	4 PTFE/ Santoprene B Santoprene	C	



## Product Description

**Ratio:** 1:1

**Maximum flow:** 200 Lpm

**Displacement per cycle:** 0.86 liters

**Air inlet:** NPT 1/4

**Liquid inlet/outlet:** 1" Flange/Bsp/Npt

**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 3.2mm

**Weight:** 10 kg

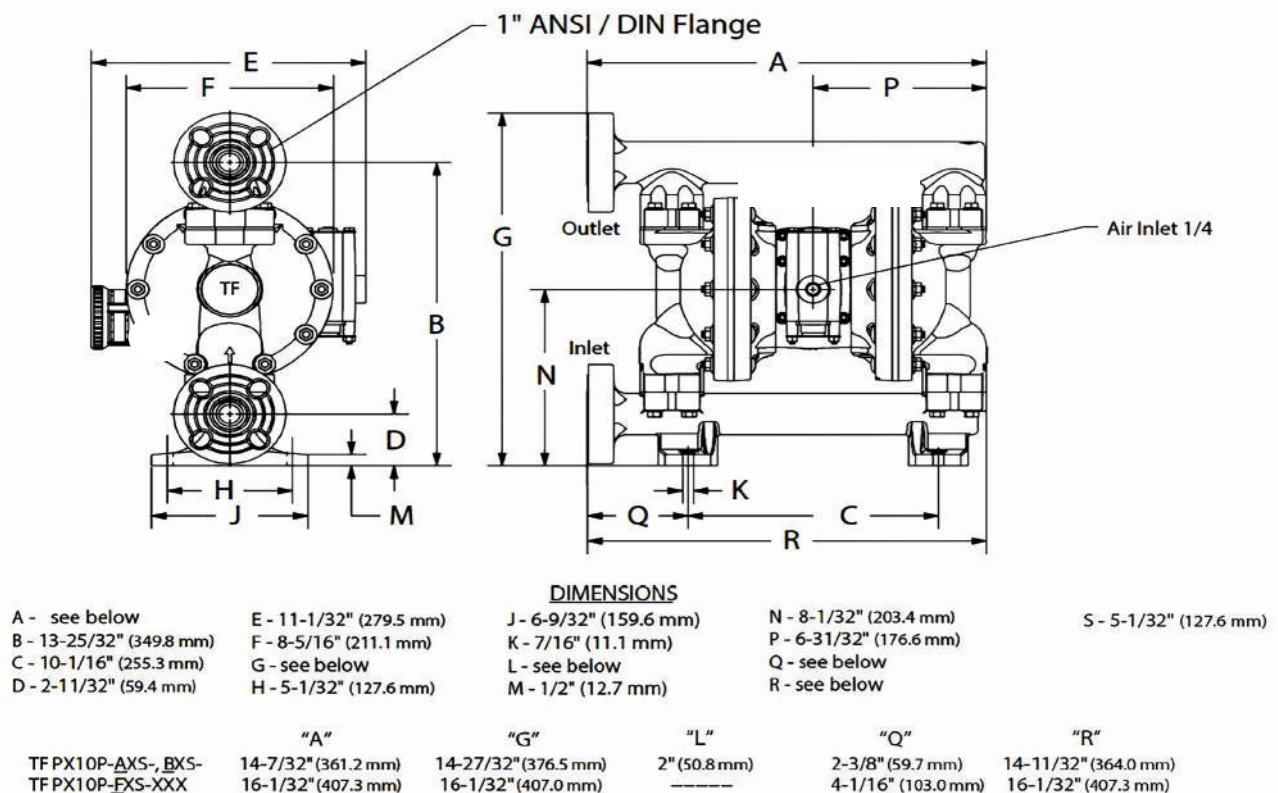
**Maximum dry suction height:** 5.7 m

**Noise level:** 70PSI 60 cycles/min 80db (A)



**EQUIVALENT TO ARO®**  
IngersollRand

Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD10	P Polypropylene	A 1" NPTF B 1" BSP F 1" flange (side)	P Polypropylene K PVDF	S Stainless Steel	P Polypropylene K PVDF S Stainless Steel	A Santoprene® C Hytrel® G Nitrile T PTFE V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene V Viton®





## Product Description

**Ratio:** 1:1

**Maximum flow:** 465 Lpm

**Displacement per cycle:** 2.3 liters

**Air inlet:** NPT 1/2

**Liquid inlet/outlet:** 1 1/2" Flange

**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 6.4mm

**Weight:** 19/29 kg

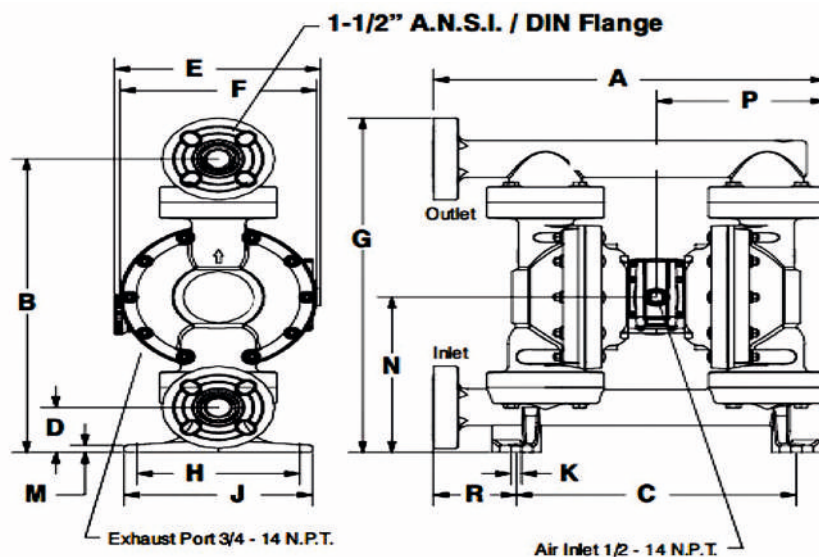
**Maximum dry suction height:** 4.2m

**Noise level:** 70PSI 60 cycles/min 82db (A)



**EQUIVALENT TO ARO®**  
IngersollRand

Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD15	P Polypropylene	F 1" flange (side)	P Polypropylene K PVDF	S Stainless Steel	P Polypropylene K PVDF S Stainless Steel	A Santoprene® C Hytrel® G Nitrile T PTFE V Viton® S 316 stainless steel	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene V Viton®



### DIMENSIONS

A - see below	E - 11" (279.5 mm)	J - 10-1/32" (254.8 mm)	N - 11-3/8" (288.4 mm)
B - 21-15/32" (545.3 mm)	F - 10-1/2" (266.3 mm)	K - 9/16" (14.3 mm)	P - 9-1/32" (229.5 mm)
C - 14-15/16" (379.4 mm)	G - see below	L - see below	Q - see below
D - 3-9/32" (83.3 mm)	H - 8-11/16" (220.7 mm)	M - 17/32" (13.0 mm)	R - see below

TFPX15P-EXS-XXX	"A" 20-15/16" (531.6 mm)	"G" 24-15/32" (621.5 mm)	"L" ----	"Q" ----	"R" 4-7/16" (112.4 mm)
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## Product Description

**Ratio:** 1:1

**Maximum flow:** 378 Lpm

**Displacement per cycle:** 2.5 liters

**Air inlet:** 1/2" BSP-NPT

**Liquid inlet/outlet:** 1-1/2" BSP-NPT

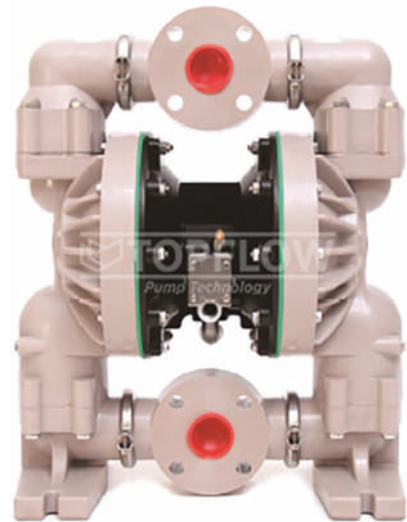
**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 6.4 mm

**Weight:** 28-40 kg

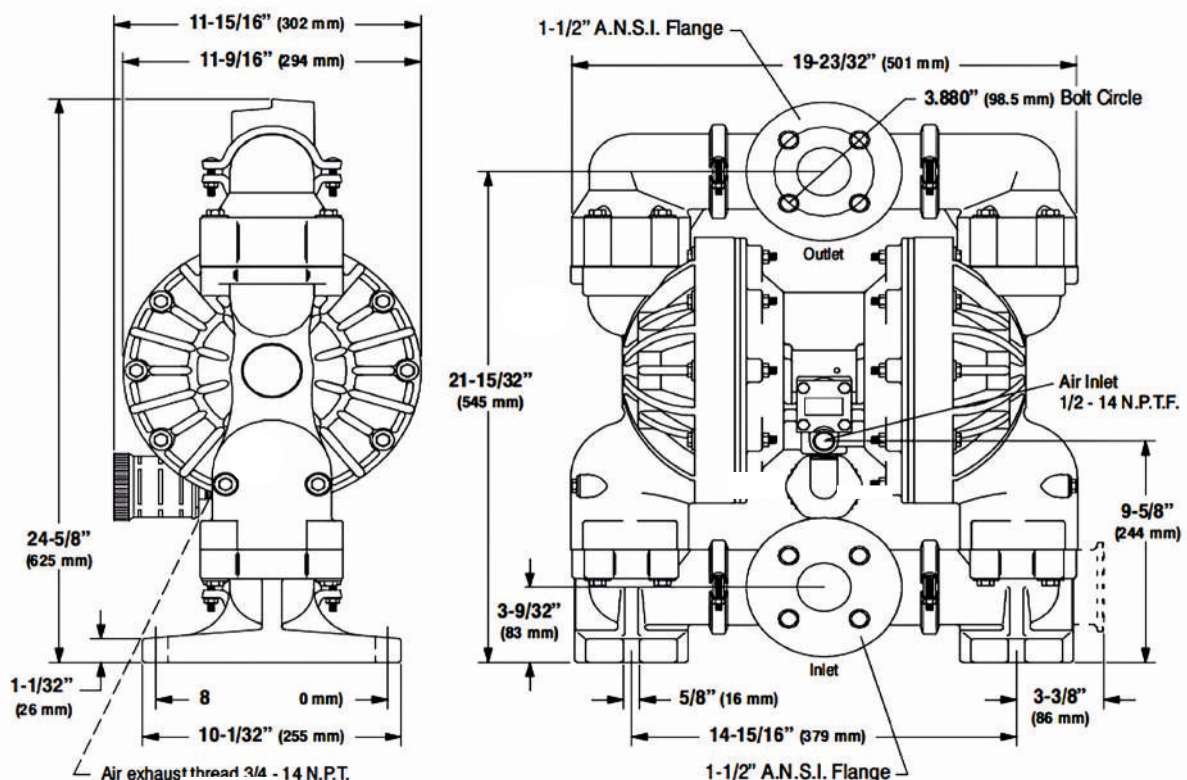
**Maximum dry suction height:** 5 m (Wet 7m)

**Noise level:** 70PSI 60 cycles/min 77db (A)



**EQUIVALENT TO ARO®  
IngersollRand**

Type	Center Body Material / Fluid Connection	Fluid Cap & Manifold Material / Hardware	Seat Material	Ball Material	Diaphragm	Version	
TF6661	T Aluminium	3 Polypropylene, flange (3-piece manifold) ANSI/DIN F Polypropylene, flange one piece manifold ANSI/DIN 4 Kynar PVDF	3 Polypropylene 4 Kynar PVDF	4-PTFE Teflon E Santoprene	4 PTFE/ Santoprene B Santoprene	C	



## Product Description

**Ratio:** 1:1

**Maximum flow:** 548 Lpm

**Displacement per cycle:** 2.5 liters

**Air inlet:** 1/2" BSP

**Liquid inlet/outlet:** 2" Flange

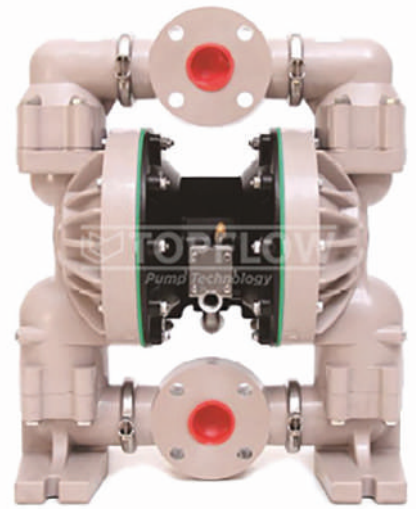
**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 6.4 mm

**Weight:** 30 kg

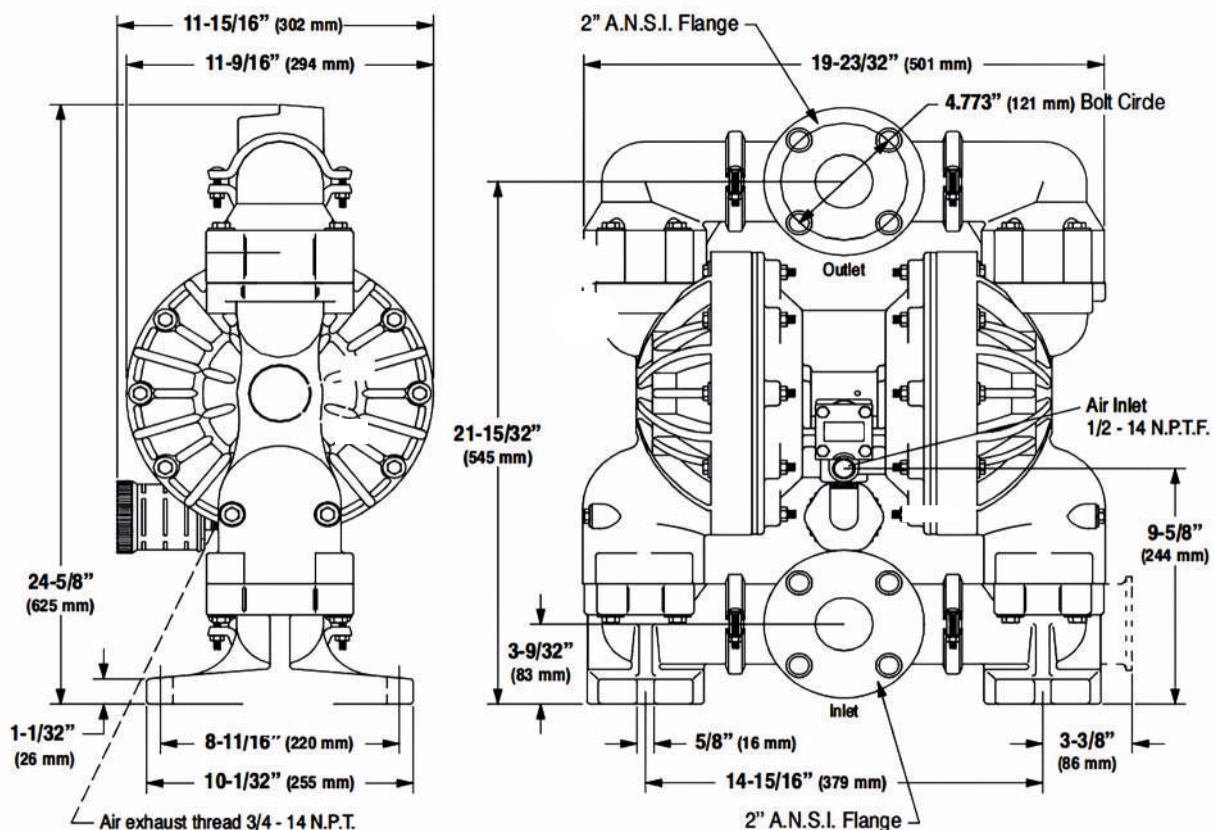
**Maximum dry suction height:** 5 m (Wet 7m)

**Noise level:** 70PSI 60 cycles/min 77db (A)



**EQUIVALENT TO ARO®**  
IngersollRand

Type	Center Body Material / Fluid Connection	Fluid Cap & Manifold Material / Hardware	Seat Material	Ball Material	Diaphragm	Version	
TF6662	A Aluminium	3 Polypropylene, flange (3-piece manifold) ANSI/DIN F Polypropylene, flange one piece manifold ANSI/DIN 4 Kynar PVDF	3 Polypropylene 4 Kynar PVDF	4-PTFE Teflon E Santoprene	4 PTFE/ Santoprene B Santoprene	C	





## Product Description

**Ratio:** 1:1

**Maximum flow:** 696 Lpm

**Displacement per cycle:** 5.3 liters

**Air inlet:** NPT3/4

**Liquid inlet/outlet:** 2" Flange

**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 6.4mm

**Weight:** 39 kg

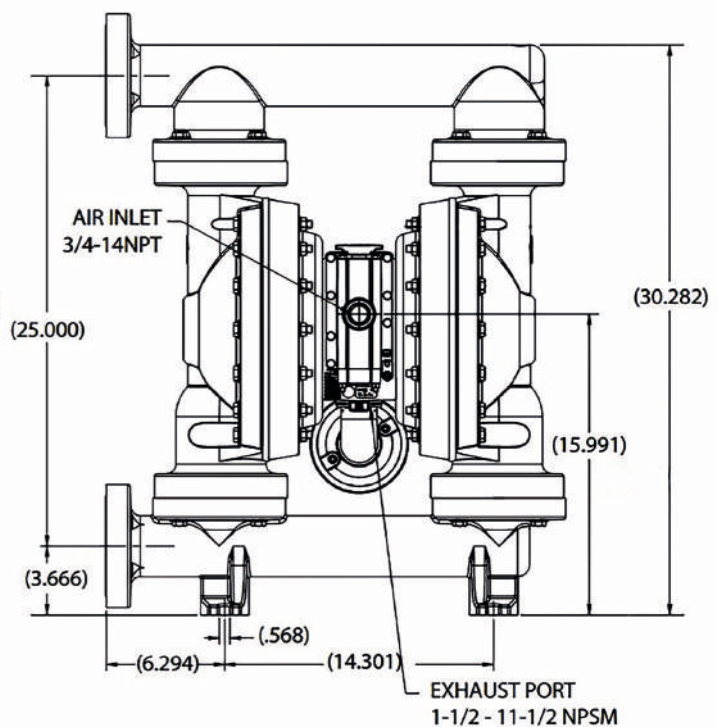
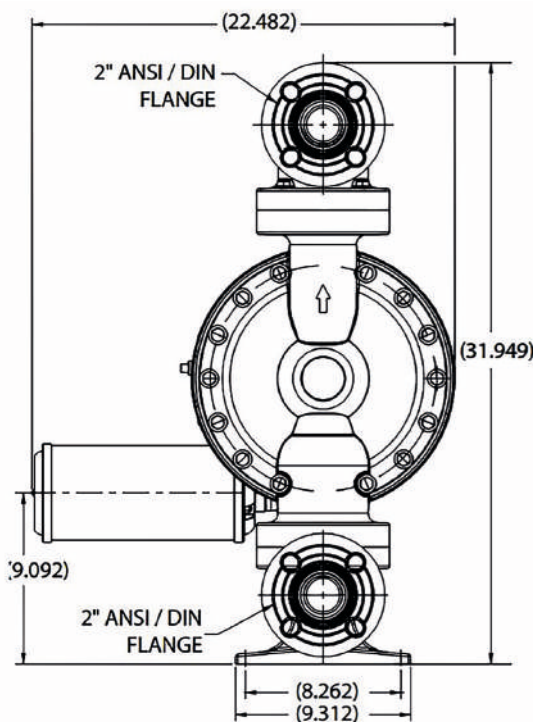
**Maximum dry suction height:** 4.2m

**Noise level:** 70PSI 60 cycles/min 85db (A)

**EQUIVALENT TO ARO®  
IngersollRand**



Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD20	P Polypropylene	F 2" flange (side)	P Polypropylene K PVDF	S Stainless Steel	P Polypropylene K PVDF	A Santoprene® C Hytrel® G Nitrile T PTFE V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene V Viton®



## Product Description

**Ratio:** 1:1

**Maximum flow:** 1070 Lpm

**Displacement per cycle:** 10.5 liters

**Air inlet:** NPT3/4

**Liquid inlet/outlet:** 3" Flange

**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 9.5 mm

**Weight:** 77 kg

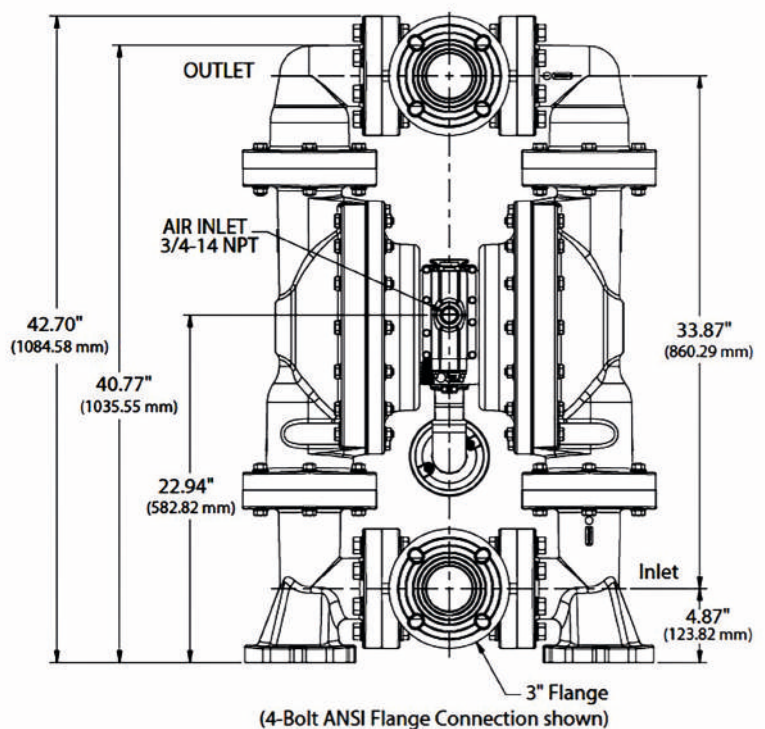
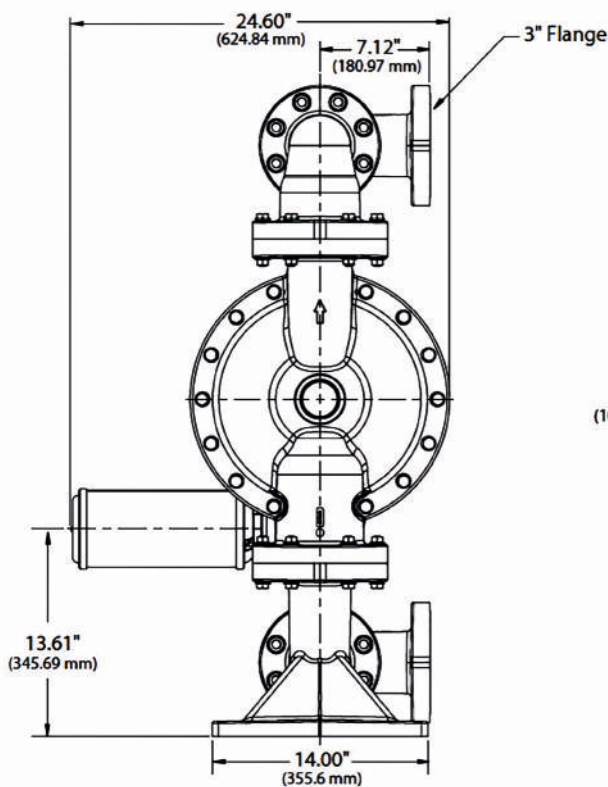
**Maximum dry suction height:** 6 m

**Noise level:** 70PSI 60 cycles/min 85db (A)

EQUIVALENT TO ARO®  
IngersollRand

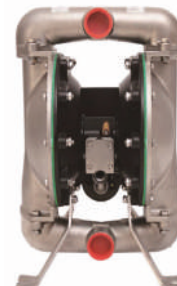


Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD30	P Polypropylene	F 3" flange 4b D 3" flange 8b	P Polypropylene K PVDF	S Stainless Steel	P Polypropylene K PVDF	A Santoprene® C Hytrel® G Nitrile T PTFE V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene V Viton®



EQUIVALENT TO ARO®  
IngersollRand

TF  
Series



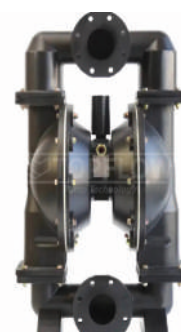
	1/2"	1"	1"	1-1/2"	1-1/2"
Max Flow LPM	45 l/min	197 l/min	133 l/min	465 l/min	340 l/min
Max Discharge Pressure Bar	6.9 bar (100 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)
Fluid Inlet	1/2" NPT	1" NPT	1" NPT	1-1/2" NPT	1-1/2" NPT
	1/2" BSP	1" BSP	1" BSP	1-1/2" BSP	1-1/2" BSP
Fluid Outlet	1/2" NPT	1" NPT	1" NPT	1-1/2" NPT	1-1/2" NPT
	1/2" BSP	1" BSP	1" BSP	1-1/2" BSP	1-1/2" BSP
Materials of Construction	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
	Stainless Steel	Stainless Steel Cast Iron	Stainless Steel	Stainless Steel	Stainless Steel
Pump Weight Kg	4 kg / 9 kg	11 kg / 19 kg	9 kg / 17 kg	18 kg / 28 kg	25 kg / 40 kg
Max Solids mm	2.4 mm	3.3 mm	6 mm	6.4 mm	6.4 mm
Best Selling Models	TFPD05P-BSS-STT TFPD05R-BAS-STT-B	TFPD10A-BAP-AAA TFPD10A-BAP-FTT TFPD10A-BSS-STT	TF666120-344-C TF66612B-244-C	TFPD15A-BAP-AAA TFPD15A-BAP-FTT	TF666170-144-C TF666170-1EB-C



## Metallic diaphragm pumps – Selection chart

EQUIVALENT TO ARO®  
IngersollRand

TF  
Series



2"

2"

3"

3"

4"

Max Flow LPM

651 l/min

651 l/min

1040 l/min

897 l/min

1300 l/min

Max Discharge  
Pressure Bar

8.3 bar  
(120 psi)

8.3 bar  
(120 psi)

8.3 bar  
(120 psi)

8.3 bar  
(120 psi)

8.3 bar  
(120 psi)

Fluid Inlet

2" Bsp/Npt

2" Bsp/Npt

3" Bsp/Npt  
Flange

3" Bsp/Npt

4" Flange

Fluid Outlet

2" Bsp/Npt

2" Bsp/Npt

3" Bsp/Npt  
Flange

3" Bsp/Npt

4" Flange

Materials  
of  
Construction

Aluminium  
Stainless Steel  
Cast Iron

Aluminium  
Stainless Steel

Aluminium  
Stainless Steel  
Cast Iron

Aluminium  
Stainless Steel

Aluminium

Pump Weight  
Kg

41 kg / 75 kg

30 kg / 60 kg

60 kg / 110 kg

50 kg / 100 kg

100 kg

Max Solids  
mm

6.4 mm

6.4 mm

9.5 mm

9.5 mm

15 mm

Best  
Selling  
Models

TFPD20A-BAP-AAA  
TFPD20A-BAP-FTT  
TFPD20A-BCP-AAA

TF666270-144-C  
TF666270-3EB-C

TFPD30A-BAP-AAA  
TFPD30A-BAP-FTT

TF666320-144-C  
TF666320-1EB-C

TF666400-144-C  
TF666400-1EB-C

## Product Description

**Ratio:** 1:1

**Maximum flow:** 45 Lpm

**Displacement per cycle:** 0.15 liters

**Air inlet:** NPT 1/4

**Liquid inlet/outlet:** 1/2" Bsp/Npt

**Maximum working pressure:** 6.9 bar

**Suitable diameter of the largest suspended solids that can pass:** 2.4mm

**Weight:** 4 kg

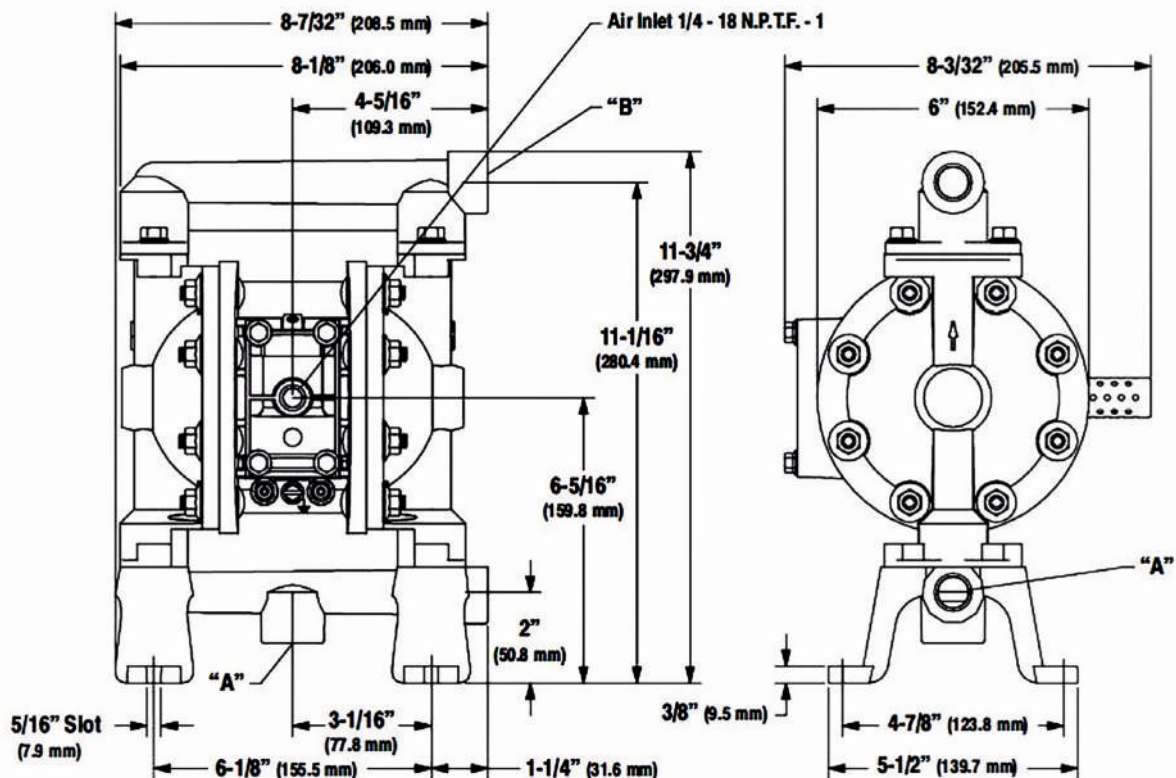
**Maximum dry suction height:** 3 m

**Noise level:** 70PSI 60 cycles/min 71db (A)

**EQUIVALENT TO ARO®  
IngersollRand**



Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm	
TFPD05	P Polypropylene	A 1/2 NPT B 1/2 BSP	A Aluminium	S Stainless Steel	F Aluminium P Polypropylene S 316 Stainless steel	A Santoprene® C Hytrel® G Nitrile S Stainless steel T PTFE U Polyurethane V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene® U Polyurethane V Viton®	B



## Product Description

**Ratio:** 1:1

**Maximum flow:** 45 Lpm

**Displacement per cycle:** 0.15 liters

**Air inlet:** NPT 1/4

**Liquid inlet/outlet:** 1/2" Bsp/Npt

**Maximum working pressure:** 6.9 bar

**Suitable diameter of the largest suspended solids that can pass:** 2.4mm

**Weight:** 9 kg

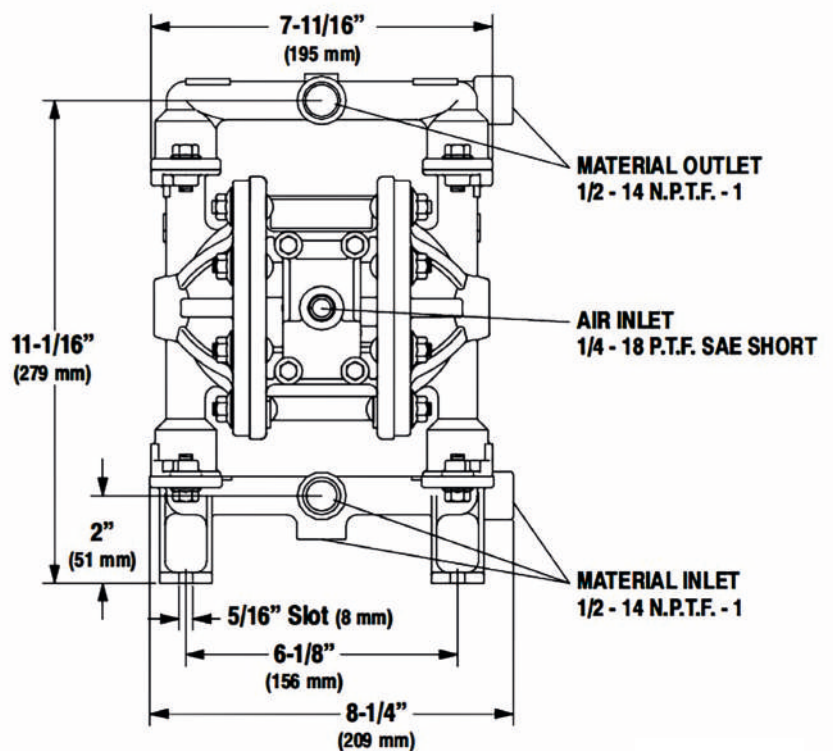
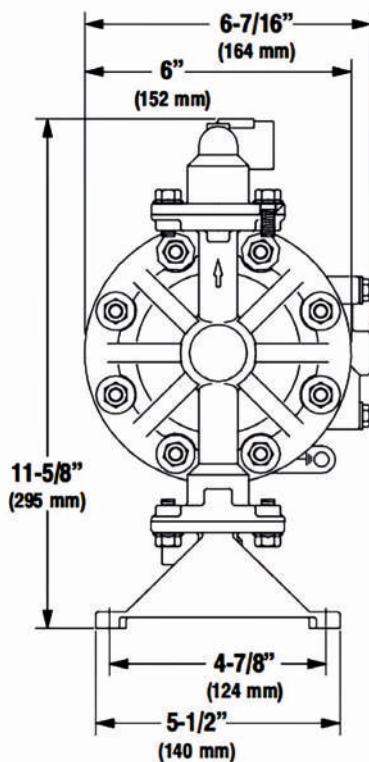
**Maximum dry suction height:** 3 m

**Noise level:** 70PSI 60 cycles/min 71db (A)

EQUIVALENT TO ARO®  
IngersollRand



Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD05	R Polypropylene	A 1/2 NPT B 1/2 BSP	S Stainless steel	S Stainless Steel	P Polypropylene S 316 Stainless steel	A Santoprene® C Hytrel® G Nitrile S Stainless steel T PTFE U Polyurethane V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene® U Polyurethane V Viton®





## Product Description

**Ratio:** 1:1

**Maximum flow:** 197 Lpm

**Displacement per cycle:** 0.88 liters

**Air inlet:** NPT 1/4

**Liquid inlet/outlet:** 1" BSP/NPT

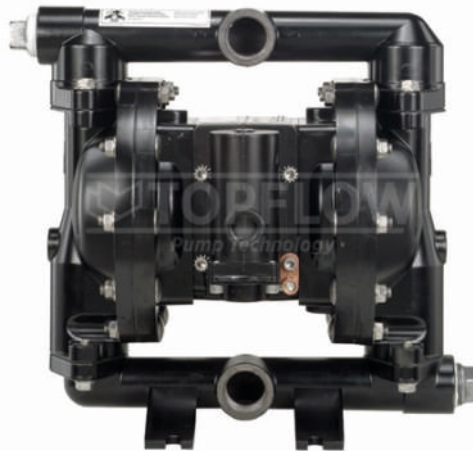
**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 3.3mm

**Weight:** 11/19 Kg

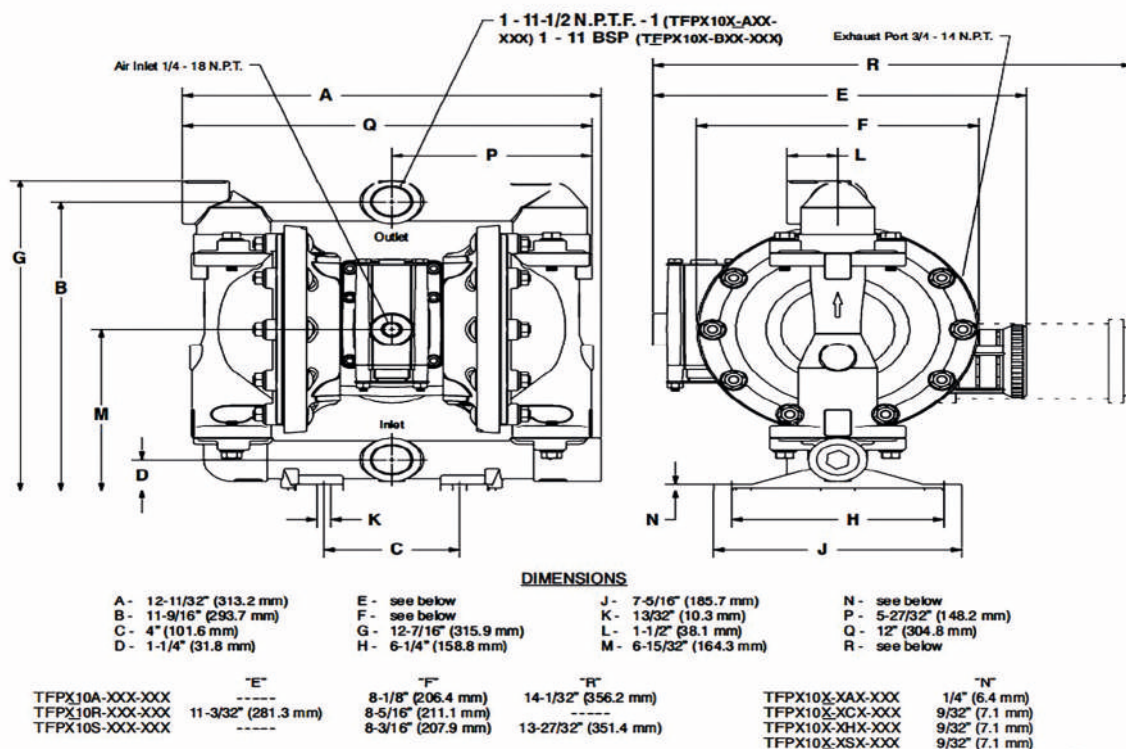
**Maximum dry suction height:** 5.7 m

**Noise level:** 70PSI 60 cycles/min 85db (A)



**EQUIVALENT TO ARO®  
IngersollRand**

Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD10	A Aluminium R Polypropylene S Stainless steel	A 1" NPT B 1" BSP	A Aluminium S Stainless steel C Cast iron	S Stainless Steel P Plated steel	A Santoprene® C Hytrel® F Aluminium S 316 Stainless steel G Nitrile	A Santoprene® C Hytrel® G Nitrile S 316 Stainless steel T PTFE V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene® V Viton®



## Product Description

**Ratio:** 1:1

**Maximum flow:** 133 L/Min

**Displacement per cycle:** 0.14 liters

**Air inlet:** 1/4" NPT

**Liquid inlet/outlet:** " BSP- NPT

**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 3.2 mm

**Weight:** 9 kg

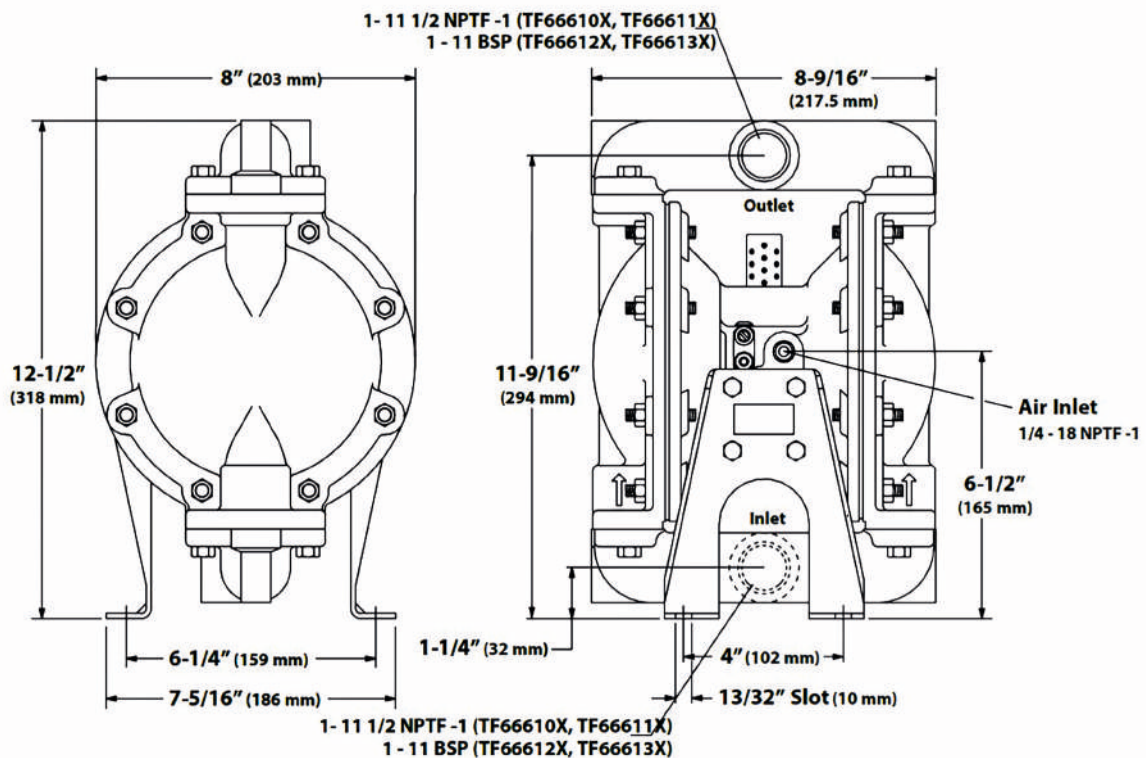
**Maximum dry suction height:** 6 m

**Noise level:** 70PSI 60 cycles/min 65db (A)



**EQUIVALENT TO ARO®**  
**IngersollRand**

Type	Center Body Material / Fluid Connection	Fluid Cap & Manifold Material / Hardware	Seat Material	Ball Material	Diaphragm	Version
TF6661	0 Aluminium N.P.T.F. 2 Aluminium BSP	0 Aluminium /Steel 1 Stainless Steel/ Steel B Stainless Steel/ Stainless Steel	1 Aluminium 2 Stainless Steel 3 Polypropylene 4 Kynar PVDF	1 Neoprene 2 Nitrile 3 Viton 4 PTFE Teflon 6 Acetal 8 Polyurethane A Stainless Steel C Hytrel E Santoprene	1 Neoprene 2 Nitrile 3 Viton 4 PTFE/ Santoprene 9 Hytrel B Santoprene	C



## Product Description

**Ratio:** 1:1

**Maximum flow:** 465 Lpm

**Displacement per cycle:** 2.3 liters

**Air inlet:** NPT 1/2

**Liquid inlet/outlet:** 1 1/2" BSP/NPT

**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspend solids that can pass:** 6.4mm

**Weight:** 18/28 kg

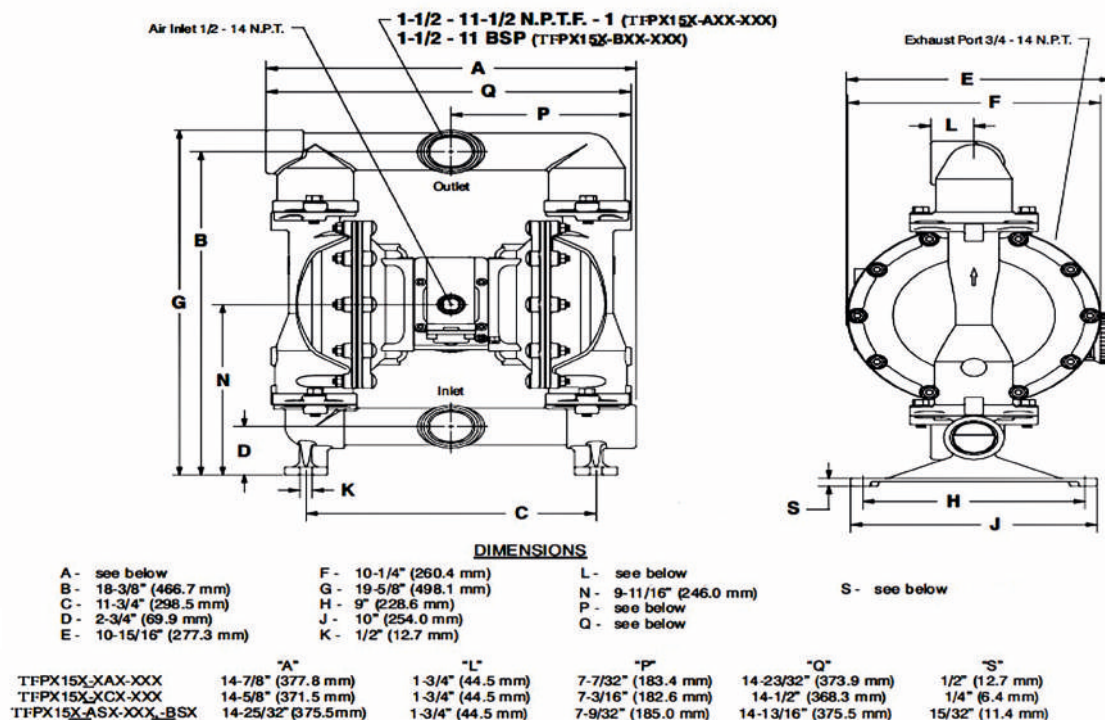
**Maximum dry suction height:** 4.2m

**Noise level:** 70PSI 60 cycles/min 85db (A)



**EQUIVALENT TO ARO®  
IngersollRand**

Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD15	A Aluminium R Polypropylene S Stainless steel	A 1-1/2" NPT B 1-1/2" BSP	A Aluminium S Stainless steel C Cast iron	S Stainless Steel P Plated steel	A Santoprene® C Hytrel® F Aluminium S 316 Stainless steel G Nitrile	A Santoprene® C Hytrel® G Nitrile S 316 Stainless steel T PTFE V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene® V Viton®





## Product Description

**Ratio:** 1:1

**Maximum flow:** 340 Lpm

**Displacement per cycle:** 2.42 liters

**Air inlet:** 1/2" BSP-NPT

**Liquid inlet/outlet:** 1-1/2" BSP-NPT

**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 6.4 mm

**Weight:** 25-40 kg

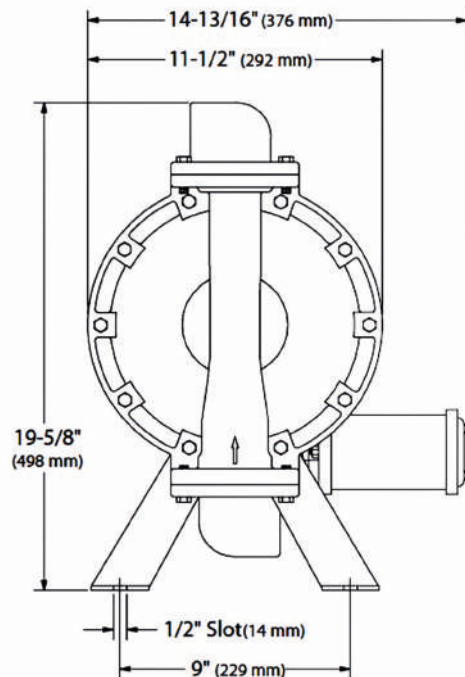
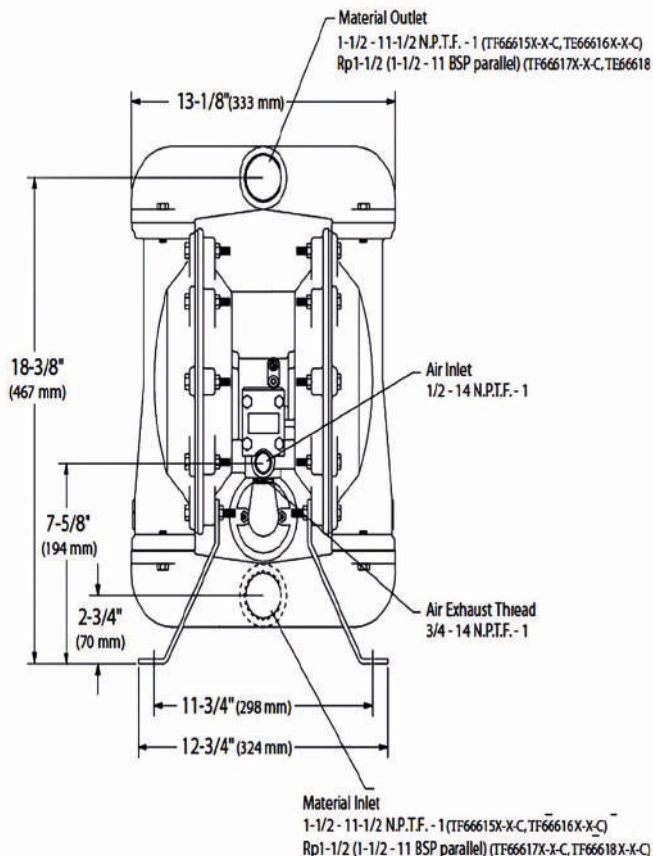
**Maximum dry suction height:** 5 m (Wet 7m)

**Noise level:** 70PSI 60 cycles/min 77db (A)



**EQUIVALENT TO ARO®**  
**IngersollRand**

Type	Center Body Material / Fluid Connection	Fluid Cap & Manifold Material / Hardware	Seat Material	Ball Material	Diaphragm	Version
TF6661	5 Aluminium N.P.T.F. 7 Aluminium BSP	0 Aluminium /Steel 1 Stainless Steel/ Steel 2 Cast Iron/ Steel B Stainless Steel/ Stainless Steel	1 Aluminium 2 Stainless Steel 3 Polypropylene 4 Kynar PVDF	1 Neoprene 2 Nitrile 3 Viton 4-PTFE Teflon A Stainless Steel E Santoprene	1 Neoprene 2 Nitrile 3 Viton 4 PTFE/ Santoprene 9 Hytrel B Santoprene	C



## Product Description

**Ratio:** 1:1

**Maximum flow:** 651 Lpm

**Displacement per cycle:** 5.3 liters

**Air inlet:** NPT3/4

**Liquid inlet/outlet:** 2" BSP/NPT

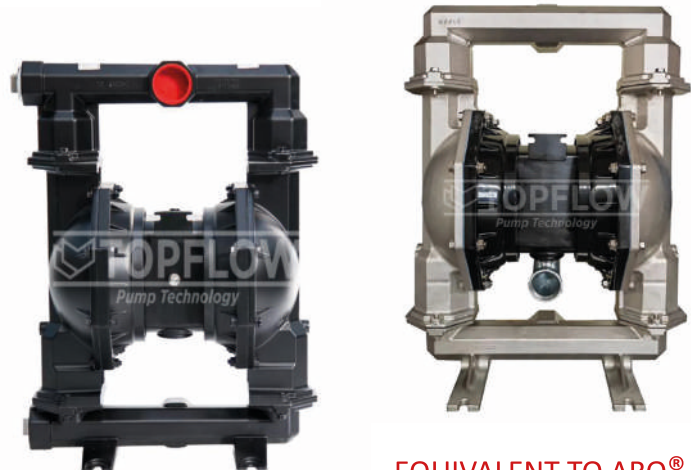
**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 6.4mm

**Weight:** 41/75 kg

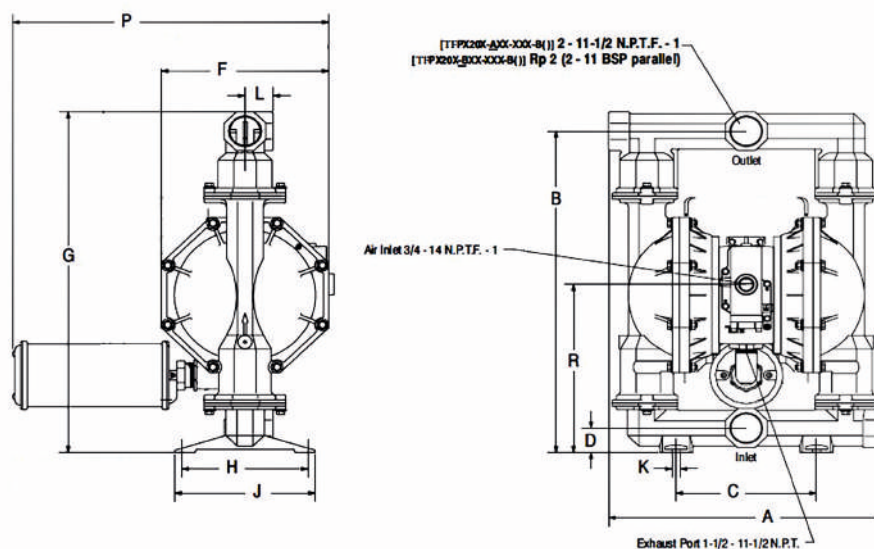
**Maximum dry suction height:** 4.2m

**Noise level:** 70PSI 60 cycles/min 85db (A)



**EQUIVALENT TO ARO®**  
IngersollRand

Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD20	A Aluminium S Stainless steel	A 2" NPT B 2" BSP	A Aluminium S Stainless steel C Cast iron	S Stainless Steel P Plated steel	A Santoprene® C Hytrel® F Aluminium K PVDF S 316 Stainless steel G Nitrile	A Santoprene® C Hytrel® G Nitrile S 316 Stainless steel T PTFE V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene® V Viton®



### DIMENSIONS

A - see below	E - 16-3/16" (411.2 mm)	J - 10-1/16" (255.6 mm)	R - see below
B - 24-3/4" (628.7 mm)	F - 12" (304.8 mm)	K - 9/16" (14.3 mm)	
C - 10-1/16" (255.6 mm)	G - 26-1/4" (666.8 mm)	L - see below	
D - see below	H - 9-1/16" (230.2 mm)	P - 21-5/8" (548 mm)	

TFPX20X-XAX-XXX-B()	"A" 19-3/4" (501.4 mm)	"D" 1-7/8" (47.6 mm)	"L" 2" (50.8 mm)	"R" 12-15/16" (328.6 mm)
TFPX20X-XCX-XXX-B()	19-3/4" (501.4 mm)	1-7/8" (47.6 mm)	2" (50.8 mm)	12-15/16" (328.6 mm)
TFPX20X-ASX-XXX-B(), -BSX	19-1/4" (488.7 mm)	2-1/2" (63.5 mm)	2-3/32" (53.0 mm)	13-9/16" (344.5 mm)

## Product Description

**Ratio:** 1:1

**Maximum flow:** 651 L/Min

**Displacement per cycle:** 5.3 liters

**Air inlet:** 3/4" Bsp-Npt

**Liquid inlet/outlet:** 2" Bsp-Npt

**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 6.4 mm

**Weight:** 30-60 kg

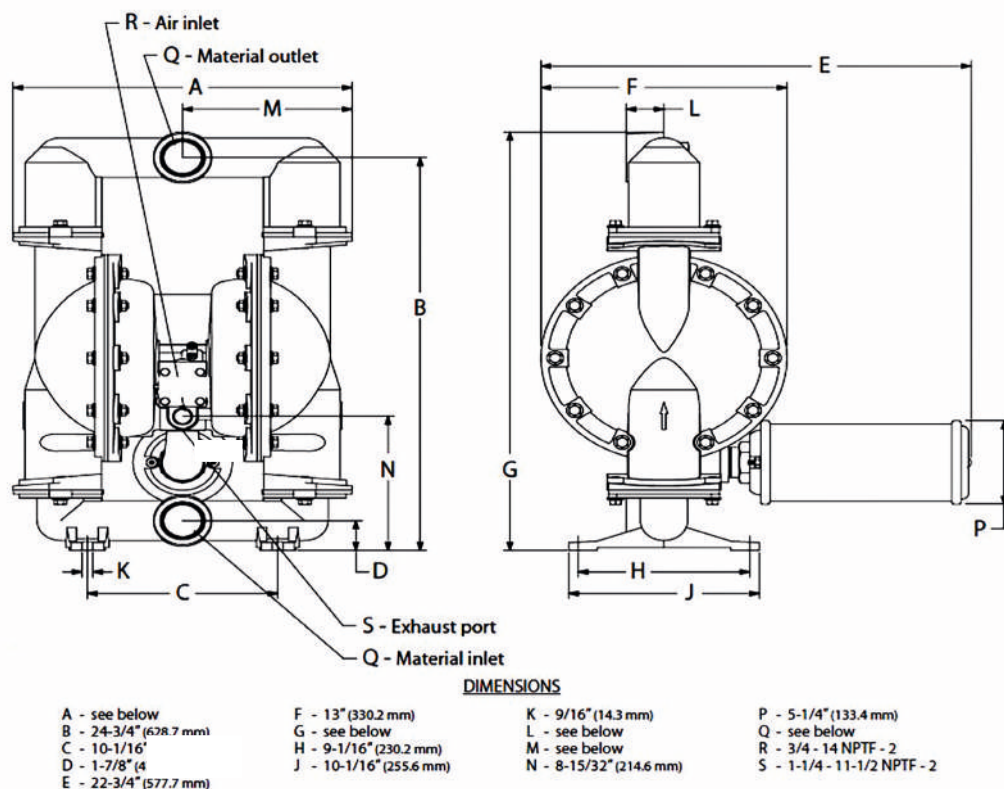
**Maximum dry suction height:** 5 m (Wet 7m)

**Noise level:** 70PSI 60 cycles/min 85db (A)



**EQUIVALENT TO ARO®**  
**IngersollRand**

Type	Center Body Material / Fluid Connection	Fluid Cap & Manifold Material / Hardware	Seat Material	Ball Material	Diaphragm	Version
TF6662	5 Aluminium N.P.T.F. 7 Aluminium BSP	0 Aluminium /Steel 1 Stainless Steel/ Steel B Stainless Steel/ Stainless Steel	1 Aluminium 2 Stainless Steel 3 Polypropylene 4 Kynar PVDF	1 Neoprene 2 Nitrile 3 Viton 4-PTFE Teflon A Stainless Steel E Santoprene	1 Neoprene 2 Nitrile 3 Viton 4 PTFE/ Santoprene 9 Hytrel B Santoprene	C





## Product Description

**Ratio:** 1:1

**Maximum flow:** 1040 Lpm

**Displacement per cycle:** 10.6 liters

**Air inlet:** NPT3/4

**Liquid inlet/outlet:** 3" BSP/NPT

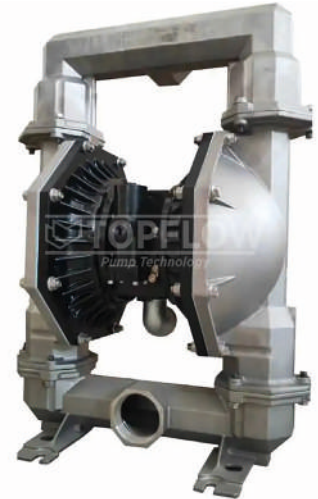
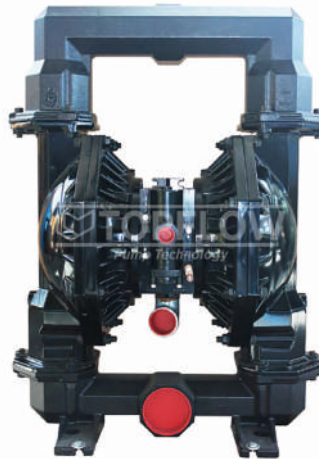
**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 9.5 mm

**Weight:** 60-110 kg

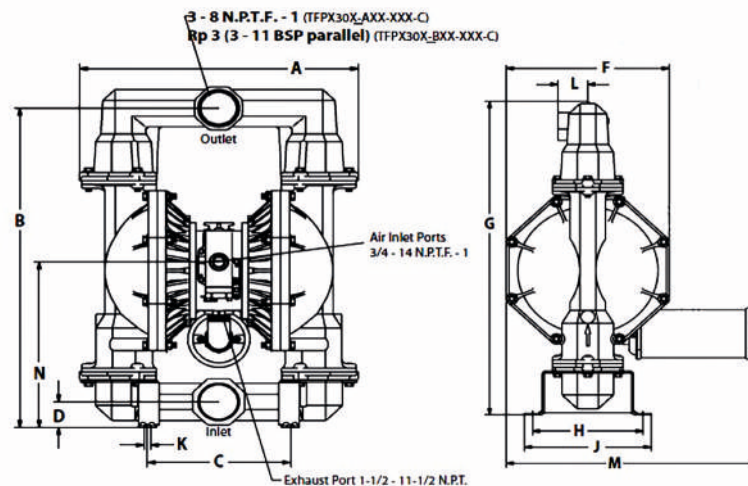
**Maximum dry suction height:** 4.2m

**Noise level:** 70PSI 60 cycles/min 85db (A)



**EQUIVALENT TO ARO®**  
IngersollRand

Model	Center Section	Fluid Connect	Wetted Parts	Hardware	Seat Material	Ball Material	Diaphragm
TFPD30	A Aluminium S Stainless steel	A 3" NPT B 3" BSP F 3" flange	A Aluminium S Stainless steel C Cast iron	S Stainless Steel P Plated steel	A Santoprene® C Hytrel® F Aluminium K PVDF S 316 Stainless steel G Nitrile	A Santoprene® C Hytrel® G Nitrile T PTFE V Viton®	A Santoprene® C Hytrel® G Nitrile T PTFE / Santoprene® V Viton®



### DIMENSIONS

A - see below  
30" (762.0 mm)  
B - 12-1/16" (306.4 mm)  
see below  
E - 17-11/16" (449.2 mm)

F - 15" (381.0 mm)  
G - see below  
H - 10-5/32" (258.0 mm)  
J - see below

K - 9/16" (14.3 mm)  
L - see below  
M - 23-3/32" (586.3 mm)  
N - see below

	"A"	"D"	"J"	"N"	"L"	"G"
TFPX30X-XAX-XXX-C	23-5/8" (600.1 mm)	2-3/8" (60.3 mm)	11" (279.4 mm)	15-1/2" (393.7 mm)	2-3/4" (69.9 mm)	32" (812.8 mm)
TFPX30X-XCX-XXX-C	23-5/8" (600.1 mm)	2-7/16" (61.9 mm)	11-11/16" (296.9 mm)	15-1/2" (393.7 mm)	2-3/4" (69.9 mm)	32" (812.8 mm)
TFPX30X-XSX-XXX-C	23-1/8" (587.4 mm)	2-3/4" (69.9 mm)	11-11/16" (296.9 mm)	16" (406.4 mm)	2-3/4" (69.9 mm)	32" (812.8 mm)

## Product Description

**Ratio:** 1:1

**Maximum flow:** 897 Lpm

**Displacement per cycle:** 10 liters

**Air inlet:** 3/4" BSP-NPT

**Liquid inlet/outlet:** 3" BSP-NPT

**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 9.5mm

**Weight:** 50/100kg

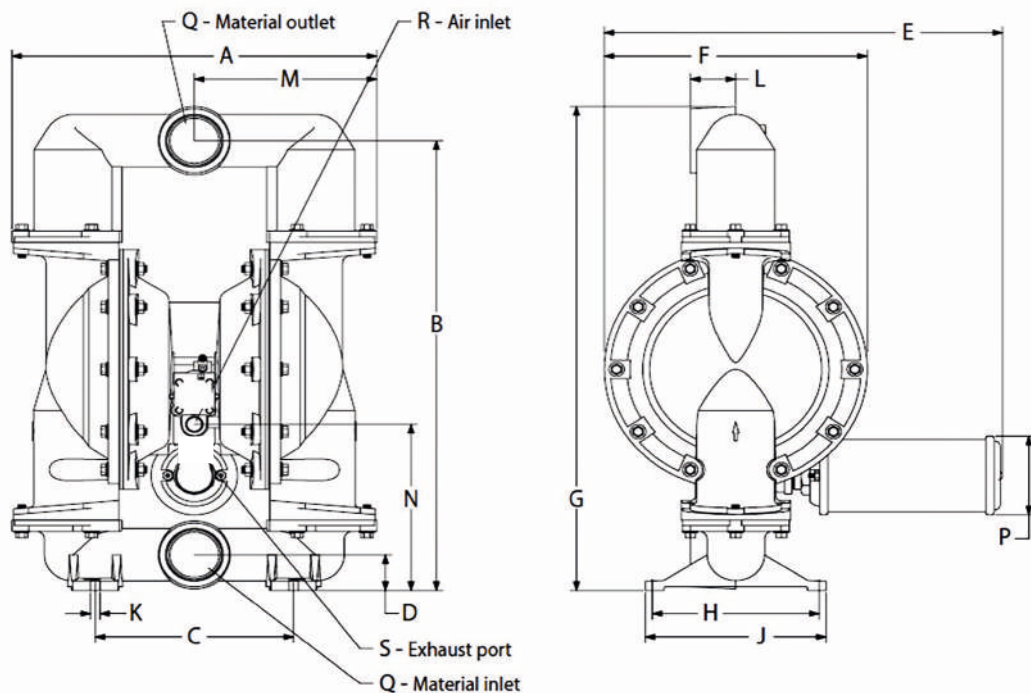
**Maximum dry suction height:** Dry 5 m (Wet 7m)

**Noise level:** 70PSI 60 cycles/min 86db (A)



**EQUIVALENT TO ARO®**  
**IngersollRand**

Type	Center Body Material / Fluid Connection	Fluid Cap & Manifold Material / Hardware	Seat Material	Ball Material	Diaphragm	Version	
TF6663	0 Aluminium N.P.T.F. 2 Aluminium BSP	0 Aluminium /Steel 1 Stainless Steel/ Steel B Stainless Steel/ Stainless Steel	1 Aluminium 2 Stainless Steel 3 Polypropylene 4 Kynar PVDF	1 Neoprene 2 Nitrile 3 Viton 4-PTFE Teflon A Stainless Steel E Santoprene	1 Neoprene 2 Nitrile 3 Viton 4 PTFE/ Santoprene 9 Hytrel B Santoprene	C	



**Figure 5**  
**DIMENSIONS**

A - 22-7/32" (563.9 mm)  
B - 30" (762.0 mm)  
C - 12-1/16" (306.4 mm)  
D - 2-3/8" (60.3 mm)  
E - 24-7/16" (620.7 mm)

F - 16" (406.4 mm)  
G - see below  
H - 10-5/32" (258.0 mm)  
J - 11" (279.4 mm)

K - 9/16" (14.3 mm)  
L - see below  
M - 11-1/8" (281.9 mm)  
N - 11-3/32" (281.4 mm)

P - 5-1/4" (133.4 mm)  
Q - see below  
R - 3/4 - 14 NPTF - 2  
S - 1-1/4 - 11-1/2 NPTF - 2

## Product Description

**Ratio:** 1:1

**Maximum flow:** 1300 Lpm

**Displacement per cycle:** 15.3 liters

**Air inlet:** 1" NPT

**Liquid inlet/outlet:** DN100

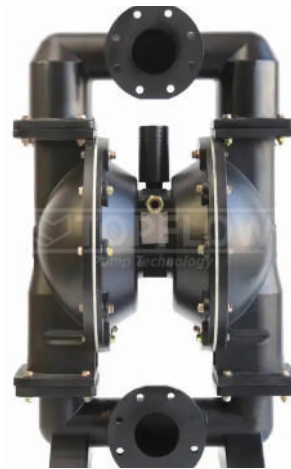
**Maximum working pressure:** 8.3bar

**Suitable diameter of the largest suspended solids that can pass:** 15 mm

**Weight:** 100 kg

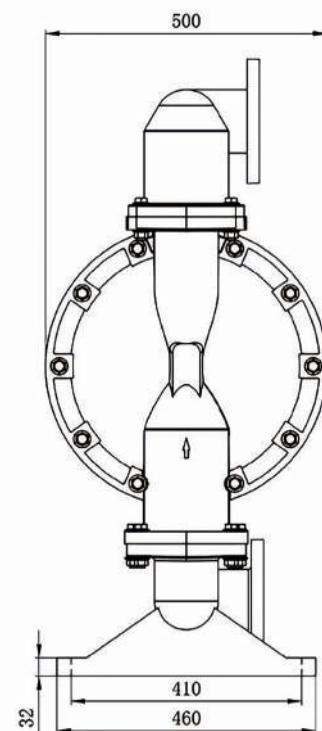
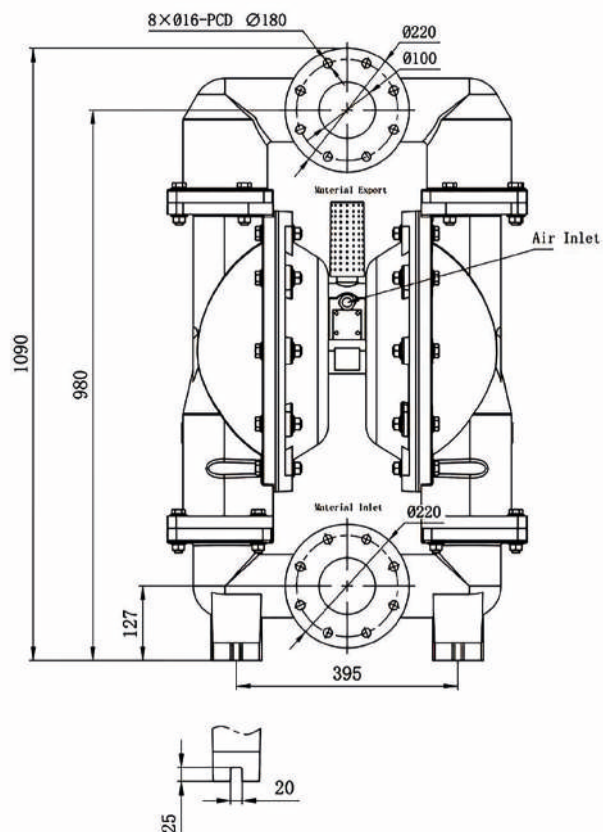
**Maximum dry suction height:** Dry 5 m/Wet 7m

**Noise level:** 70PSI 60 cycles/min 81db (A)



**EQUIVALENT TO ARO®**  
IngersollRand

Type	Center Body Material / Fluid Connection	Fluid Cap & Manifold Material / Hardware	Seat Material	Ball Material	Diaphragm	Version	
TF6664	0 Aluminium Flange	0 Aluminium /Steel	1 Aluminium	2 Nitrile 4 PTFE Teflon E Santoprene	2 Nitrile 4 PTFE/ Santoprene B Santoprene	C	





## Model & description

### TFTA 1"

For 1" pumps  
Maximum pressure 8.6 Bar  
Air inlet size 1/4"  
Liquid inlet size 1" NPT/BSPT



### TFTA 2"

For 1-1/2" and 2" pumps  
Maximum pressure 8.6 Bar  
Air inlet size 1/4"  
Liquid inlet size 2" NPT/BSPT

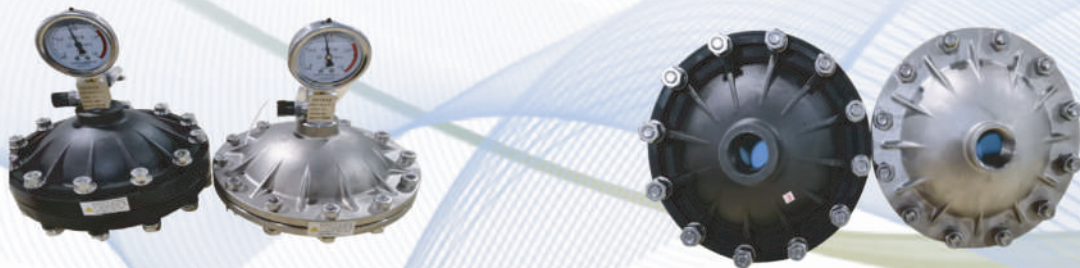


### TFTA 3"

For 3" pumps  
Maximum pressure 8.6 Bar  
Air inlet size 1/4"  
Liquid inlet size 3" NPT/BSPT



Type Damper	Size	Diaphragm Material	Design Level	Wet Material	Liquid Inlet/Outlet Thread	
TFTA	1" 2" 3"	TN PTFE / Neoprene N Neoprene S Santoprene	1 2	A Aluminium SS Stainless Steel	N NPT B BSP	



Type Damper	Size	Liquid Chamber Material	Diaphragm Material	Normal pressure	Chamber Capacity (liter)
TF	10 1"BSP	PP POLYPROPYLENE	PT PTFE	10 10 BAR	1 1 Lt.
TF	15 1-1/2"BSP	PP POLYPROPYLENE	PT PTFE	10 10 BAR	2 2 Lt.
TF	20 2"BSP	PP POLYPROPYLENE	PT PTFE	10 10 BAR	4 4 Lt.
TF	10 1"BSP	SS STAINLESS STEEL 304	PT PTFE	25 25 BAR	1 1 Lt.
TF	15 1-1/2"BSP	SS STAINLESS STEEL 304	PT PTFE	25 25 BAR	4 4 Lt.
TF	20 2"BSP	SS STAINLESS STEEL 304	PT PTFE	25 25 BAR	6 6 Lt.
TF	10 1"BSP	PVDF PVDF	PT PTFE	10 10 BAR	1 1 Lt.

The "shock blocker dampener" attached to the output of air-operated diaphragm pumps is typically used to reduce vibrations, regulate pressure fluctuations, and absorb shock effects in order to improve pump performance.

## Diaphragm Pumps Spare Parts

Diaphragm pumps play a critical role in the transfer of liquids in industrial applications, and one of the key factors influencing the performance of these pumps is the use of spare parts. The material, lifespan, features, durability, and quality of these spare parts are crucial.

The spare parts for pumps are manufactured from specially selected durable materials. Critical components such as diaphragms and valves are typically made from elastomeric materials, such as nitrile, neoprene, viton, santoprene, or PTFE, known for their high chemical resistance. These materials can adapt to various chemical environments and may be resistant to wear.

The lifespan of spare parts varies depending on factors such as material quality, production process, and pump usage conditions. Generally, high-quality spare parts tend to be long-lasting and have a tendency to require low maintenance.









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