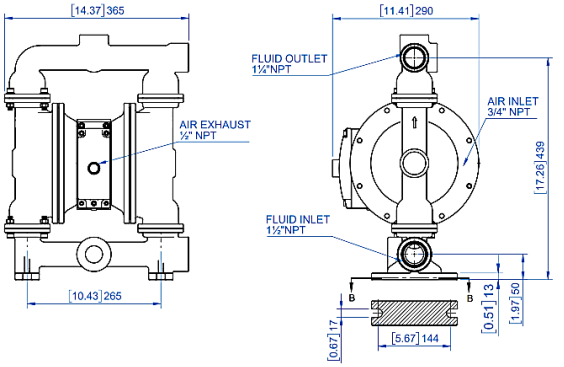
TECHNICAL DATA

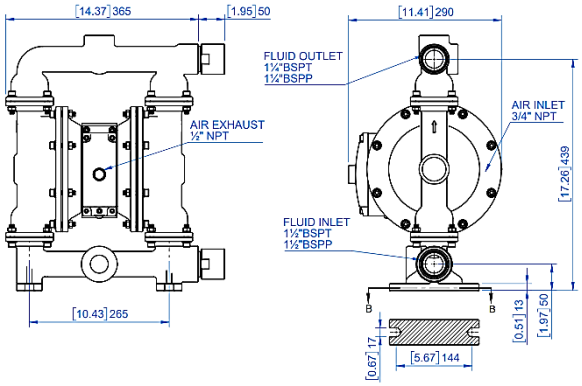
RELEASED: 14/09/2024
REVISED:
REV: 00

Teryair 1½'' Diaphragm Pump TeryPro Aluminium & Stainless Steel

DIMENSIONAL DATA - NPT

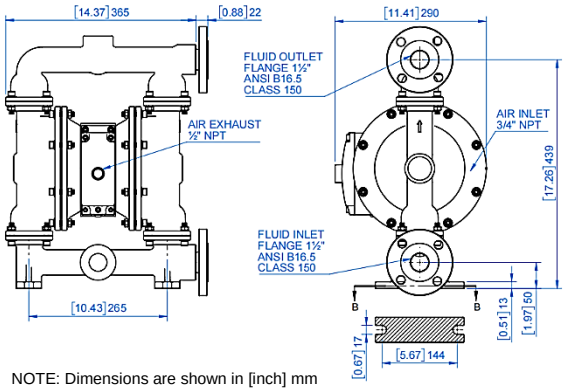


DIMENSIONAL DATA – BSPT/BSPP



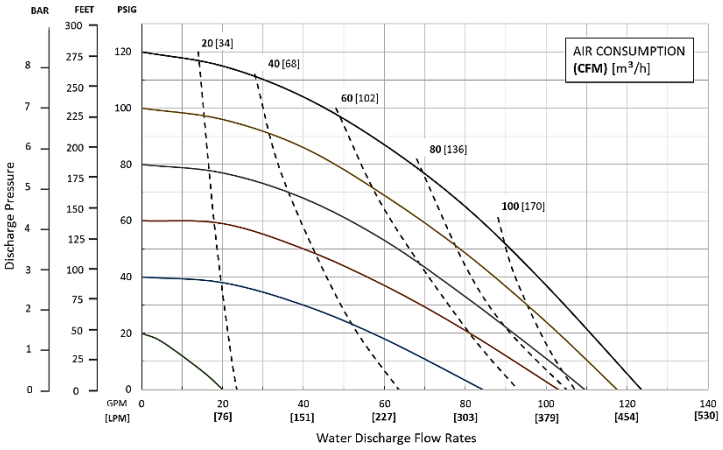
NOTE: Only for Aluminium models. SS models have BSPP/BSPT Threads inbuilt.

DIMENSIONAL DATA – FLANGED

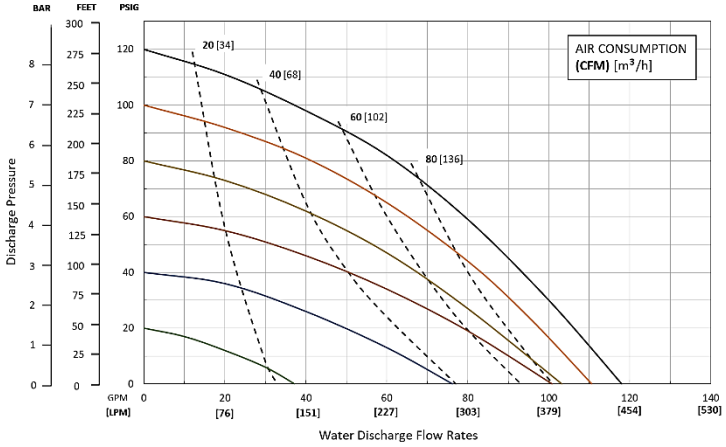


NOTE: Dimensions are shown in [inch] mm

PERFORMANCE GRAPH SANTOPRENE / BUNA N



PERFORMANCE GRAPH PTFE



WEIGHTS & FINISH

Pump Type	Weight	Finish
Aluminium Construction	57 lbs (26 kgs)	RAL 1004, Yellow
Stainless Steel Construction	111 lbs (50 kgs)	Natural
Aluminium Construction, Flanged	59.6 lbs (27 kgs)	RAL 1004, Yellow
Stainless Steel Construction, Flanged	116.7 lbs (52.9 kgs)	Natural

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MATERIAL OF CONSTRUCTION

PARTS	MOC	
	Aluminium Series	**Stainless Steel Series**
Wetted Parts	Aluminium (LM6/ LM4)	Stainless Steel (CF8M)
Diaphragms/ Balls	Buna N PTFE Santoprene PTFE-FDA	
Seals	PTFE	
Ball Seats	Buna N Santoprene Stainless Steel (316L)	
Air Valve Body	Aluminium (AA6061/ 6063)	Stainless Steel (CF8M)
Piston	Polyacetal	
Fasteners	Stainless Steel (304)	
O Rings & Seal Rings	Carbon Filled PTFE Buna N	

PERFORMANCE DATA

Ratio	1:1
Air Inlet Pressure Range	10-120 psig (0.69 – 8.0 bar)
Maximum Material Inlet Pressure	10 psig (0.69 bar)
Fluid Outlet Pressure Range	10-120 psig (0.69 – 8.0 bar)
Maximum Flow Rate (Buna N /Santo)	123.5 g.p.m. (466 lpm)
Maximum Flow Rate (PTFE)	118 g.p.m. (446 lpm)
Displacement / Cycle @ 100 psig	0.26 gal. (1.00 lit)
Maximum Particle Size	1/4" dia. (6.4 mm)
Wet Suction (Buna N /Santo)	27.8 ft (8.5 mtr)
Wet Suction (PTFE)	27.8 ft (8.5 mtr)
Dry Suction (Buna N /Santo)	17.2 ft (5.0 mtr)
Dry Suction (PTFE)	16.1 ft (4.4 mtr)

MAXIMUM TEMPERATURE LIMITS

(Diaphragm/Ball/Seat Material)

Buna N	10° to 180° F (-12 to 82° C)
Santoprene	-40° to 350° F (-40° to 177° C)
PTFE	40° to 225° F (4° to 107° C)
PTFE-FDA	40° to 225° F (4° to 107° C)

PUMP NOMENCLATURE

Position	1	2	3	4	5	6	7	8	9	10	11
Example	TP	40	A	B	X	G	E	X	A	X	X

Example: TP40-ABX-REX-AXX

Position 1 Range	Position 2 Size	Position 3 Body	Position 4 Diaphragm/Valve	Position 5 Back up	Position 6 Port	Position 7 Port Position	Position 8 Speciality Code	Position 9 Safety Code	Position 10 Sanitary Code	Position 11 Speciality Code
TP - Industrial	15 - 1/2"	A - Aluminium	B - Buna N		G - BSPT	C - Centre Ported, End	P - Pulse Dampener	A - ATEX/ IECEX	F - FDA / EN1935	S - Speed Controller
	25 - 1"	S - Stainless Steel	T - PTFE	S - Santoprene	C - TriClamp BS 4825-3	Port Plugged	R - Remote Solenoid Driven		X - None	C - Cycle Counter
	40 - 1-1/2"		S - Santoprene	X - None	F - Flanged ANSI/DIN	E - End Ported Only	T - Trolley Mounted			D - Diaphragm Monitoring
	50 - 2"				R - NPT		X - None			X - None
					P - BSPP					O - See foot note

MODEL NUMBERS

Aluminium Pump		Stainless Steel Pump	
TP40-ABX-REX-AXX	TP40-ABX-RCX-AXX	TP40-SBX-REX-AXX	TP40-SBX-RCX-AXX
TP40-ABX-GEX-AXX	TP40-ABX-GCX-AXX	TP40-SBX-GEX-AXX	TP40-SBX-GCX-AXX
TP40-ABX-PEX-AXX	TP40-ABX-PCX-AXX	TP40-SBX-PEX-AXX	TP40-SBX-PCX-AXX
TP40-ABX-FEX-AXX	TP40-ASX-RCX-AXX	TP40-SBX-FEX-AXX	TP40-SSX-RCX-AXX
TP40-ASX-REX-AXX	TP40-ASX-GCX-AXX	TP40-SSX-REX-AXX	TP40-SSX-GCX-AXX
TP40-ASX-GEX-AXX	TP40-ASX-PCX-AXX	TP40-SSX-GEX-AXX	TP40-SSX-PCX-AXX
TP40-ASX-PEX-AXX	TP40-ATS-RCX-AXX	TP40-SSX-PEX-AXX	TP40-STS-RCX-AXX
TP40-ASX-FEX-AXX	TP40-ATS-GCX-AXX	TP40-SSX-FEX-AXX	TP40-STS-GCX-AXX
TP40-ATS-REX-AXX	TP40-ATS-PCX-AXX	TP40-STS-REX-AXX	TP40-STS-PCX-AXX
TP40-ATS-GEX-AXX		TP40-STS-GEX-AXX	
TP40-ATS-PEX-AXX		TP40-STS-PEX-AXX	
TP40-ATS-FEX-AXX		TP40-STS-FEX-AXX	

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