

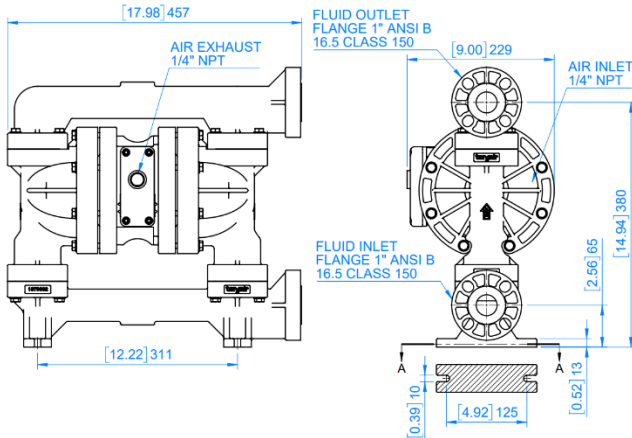


TECHNICAL DATA

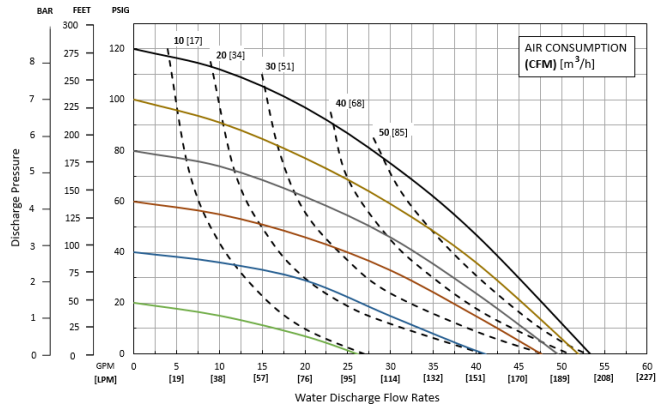
RELEASED: 13/09/2024
REVISED:
REV: 00

Teryair 1" Diaphragm Pump TeryChem Polypropylene

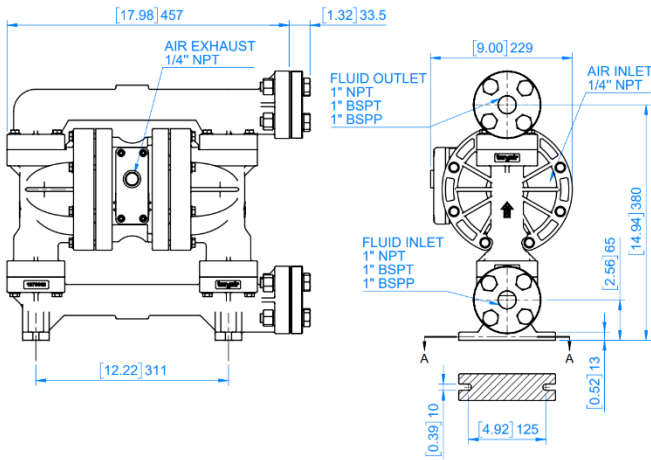
DIMENSIONAL DATA – ANSI FLANGED



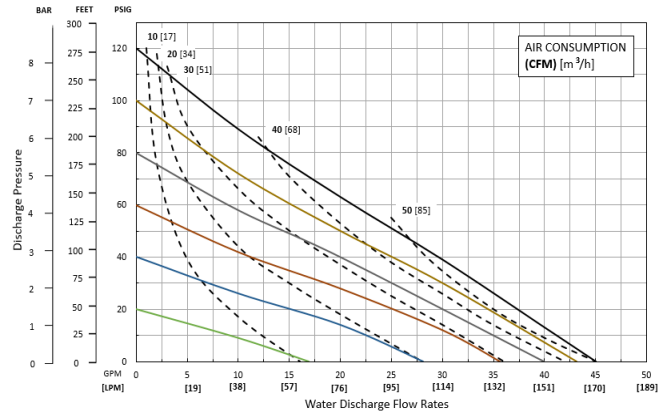
PERFORMANCE GRAPH SANTOPRENE



DIMENSIONAL DATA – NPT/BSPT/BSPP



PERFORMANCE GRAPH PTFE



NOTE: Dimensions are shown in [inch] mm

WEIGHTS & FINISH

Pump Type	Weight	Finish
Polypropylene Construction	22 lbs (10 kgs)	RAL 5003 / Pantone 541, Blue
Polypropylene Construction , Thread Flanged	25.5 lbs (11.6 kgs)	RAL 5003 / Pantone 541, Blue

MATERIAL OF CONSTRUCTION

PARTS	MOC
Wetted Parts	Polypropylene, Polypropylene (30% Glass Filled)
Diaphragms/ Balls	Santoprene PTFE
Seals	Viton Encapsulated PTFE
Ball Seats	Polypropylene
Air Valve Body	Polypropylene (30% Glass Filled)
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 (0.7 – 8.0 bar)
Maximum Material Inlet Pressure	10 psig (0.7 bar)
Fluid Outlet Pressure Range	10-120 psig (0.7 – 8.0 bar)
Maximum Flow Rate (Santoprene)	55.0 g.p.m. (209 lpm)
Maximum Flow Rate (PTFE)	43.7 g.p.m. (165 lpm)
Displacement / Cycle @ 100 psig	0.082 gal. (0.31 lit)
Maximum Particle Size	3/16" dia. (4.76 mm)
Wet Suction (Santoprene)	28.5 ft (8.6 mtr)
Wet Suction (PTFE)	29.5 ft (8.9 mtr)
Dry Suction (Santoprene)	10.8 ft (3.4 mtr)
Dry Suction (PTFE)	7.5 ft (2.28 mtr)

MAXIMUM TEMPERATURE LIMITS

(Diaphragm/Ball/Seat Material)

Santoprene	-40° to 350° F (-40° to 177° C)
PTFE	40° to 225° F (4° to 107° C)
Polypropylene	32° to 175° F (0° to 79° C)

PUMP NOMENCLATURE

Position	1	2	3	4	5	6	7	8	9	10	11
Example	TC	15	A	B	X	G	E	X	A	X	X
Example: TC25-PSX-GEX-XXX											
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	
TC - Chemical	15 - 1/2"	P - Polypropylene	S – Santoprene	S - Santoprene	G - BSPT	C – Centre Ported Vertical, See foot note	P – Pulse Dampener	X - None	X - None	S – Speed Controller	
			F – Flanged ANSI/DIN								
	25 - 1"		O – One Piece PTFE	R - NPT	E – End Ported						
	40 - 1-1/2" 50 - 2"		T - PTFE	P – BSPP		T - Trolley Mounted X - None	C – Cycle Counter D – Diaphragm Monitoring X - None				

MODEL NUMBERS

TC25-PSX-FEX-XXX	TC25-PTS-FEX-XXX
TC25-PSX-REX-XXX	TC25-PTS-REX-XXX
TC25-PSX-GEX-XXX	TC25-PTS-GEX-XXX
TC25-PSX-PEX-XXX	TC25-PTS-PEX-XXX