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REV: 01

# Technical Data

## Teryair 2'' Diaphragm Pump TeryPro Aluminium & Stainless Steel



All Aluminium Construction

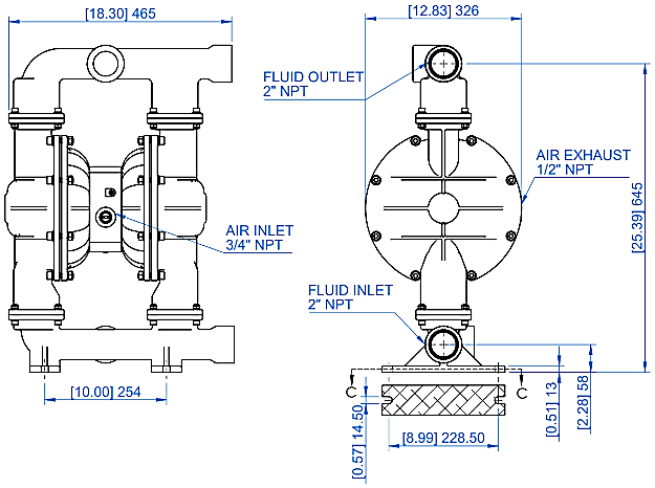


All Stainless Steel Construction

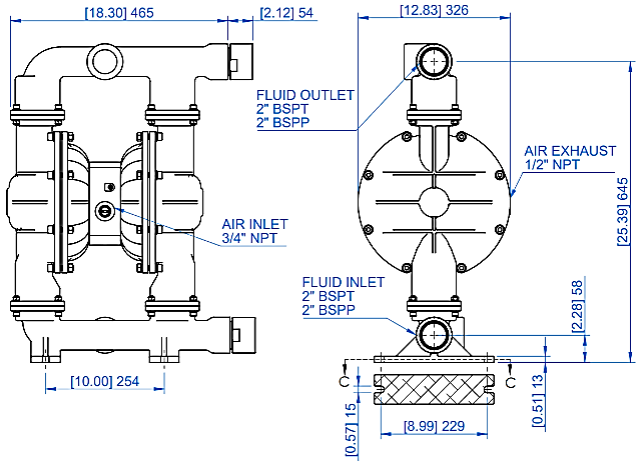


SS Wetted parts + Aluminium Shaft Housing & Aluminium Valve

### Dimensions Data - NPT - (Aluminium & SS)

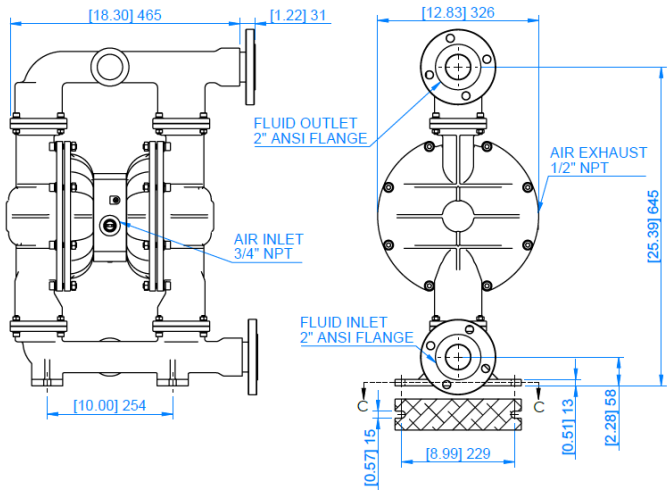



### Dimensions Data - BSPT/BSPP

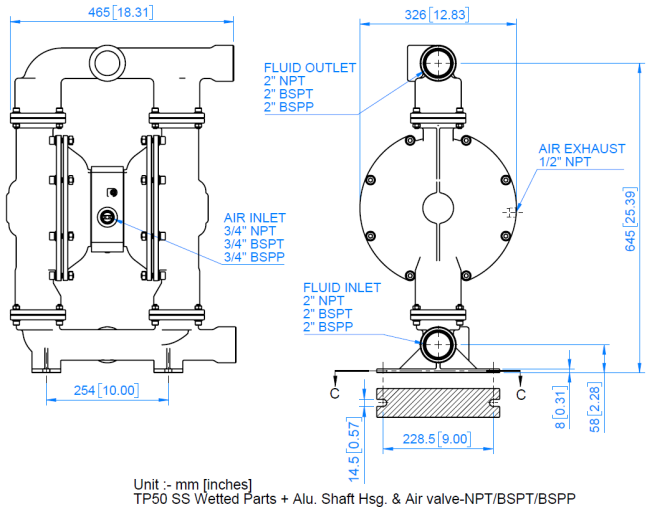



NOTE: Only for Aluminium models. SS models have BSPP/BSPT Threads inbuilt.

### Dimensions Data - Flanged




### Dimensions Data - Aluminium Shaft Housing



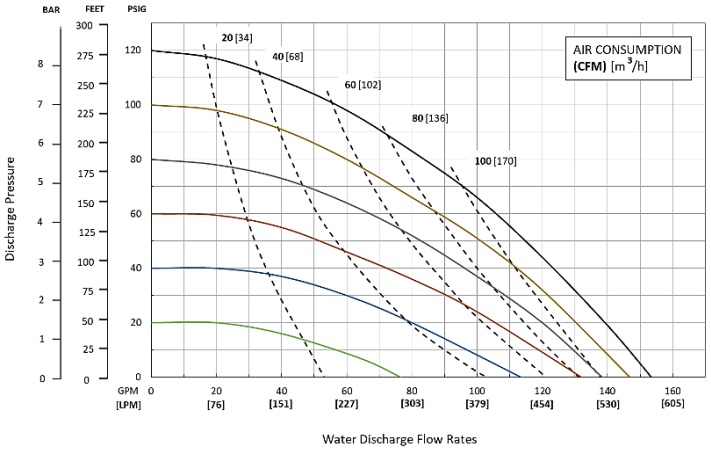

Unit :- mm [inches]
TP50 SS Wetted Parts + Alu. Shaft Hsg. & Air valve-NPT/BSPT/BSPP

NOTE: Dimensions are shown in [inch] mm

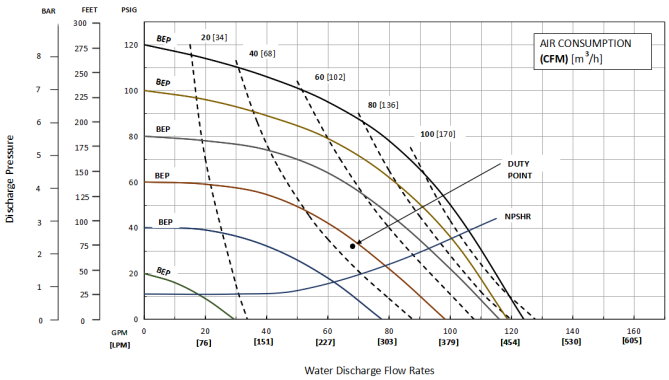
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## Performance Graph Santoprene / Buna N




## Performance Graph PTFE




## Weight & Finish

| Pump Type | Weight | Finish |
|---|---|---|
| All Aluminium Construction | 104 lbs (47 kgs) | RAL 1004, Yellow |
| All Stainless Steel Construction | 161 lbs (73 kgs) | Natural |
| Aluminium Construction, Flanged | 107.2 lbs (48.62 kgs) | RAL 1004, Yellow |
| SS Wetted parts + PP Shaft Housing & PP Valve | 107.2 lbs (48.62 kgs) | Natural + Shaft Housing Silver |

Note : 1) For Aluminum Flange Models, weight to be added by 1.65 lbs (0.75kg.)
2) For SS Flange Models, weight to be added by 4.9 lbs (2.2 kgs)

## Material Of Construction

| Parts | MOC | | |
|---|---|---|---|
| | All Aluminium | All Stainless Steel | Stainless Steel + Aluminium Shaft Housing |
| Wetted Parts | Aluminium (LM6/ LM4) | Stainless Steel (CF8M) | |
| Diaphragms/ Balls | Buna N<br>Neoprene<br>Viton<br>PTFE<br>Santoprene<br>PTFE-FDA | | |
| Ball Seats | Buna N<br>Neoprene<br>Viton<br>Santoprene<br>Stainless Steel (316L) | | |
| Shaft Housing | Aluminium | Stainless Steel | Stainless Steel + Aluminium Shaft Housing |
| Air Valve Body | Aluminium (AA6061/ 6063) | Stainless Steel (CF8M) | Aluminium |
| Piston | Polyacetal | | |
| Fasteners | Stainless Steel (304) | | |
| O Rings & Seal Rings | Carbon Filled PTFE Buna N | | |

## Performance

| | |
|---|---|
| **Ratio** | 1:1 |
| **Air Inlet Pressure Range** | 10-120 psig (0.69 – 8.0 bar) |
| **Fluid Outlet Pressure Range** | 10-120 psig (0.69 – 8.0 bar) |
| **Maximum Flow Rate** (Buna N/Santo) | 153 g.p.m. (579 lpm) |
| **Maximum Flow Rate** (PTFE) | 124 g.p.m. (467 lpm) |
| **Displacement / Cycle @ 100 psig** | 0.716 gal. (2.7 lit) |
| **Maximum Particle Size** | 1/4" dia. (6.4 mm) |
| **Wet Suction** (Buna N/Santo) | 28.58 ft (8.7 mtr) |
| **Wet Suction** (PTFE) | 28.2 ft (8.6 mtr) |
| **Dry Suction** (Buna N/Santo) | 23.3 ft (7.1 mtr) |
| **Dry Suction** | 22.3 ft (6.8 mtr) |

## Maximum Temperature Limits

(Diaphragm/Ball/Seat Material)

| | |
|---|---|
| **Buna N** | 10° to 180° F (-12° to 82° C) |
| **Santoprene** | -40° to 230° F (-40° to +110°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 | 25 | A | B | X | G | E | X | A | X | X |
| 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"<br>25 - 1"<br>40 - 1-1/2"<br>50 - 2" | A - All Aluminium<br>S - All Stainless Steel<br>U - Aluminium Wetted Parts + PP Shaft Housing & PP Air Valve Assly.<br>O - SS Wetted Parts + PP Shaft Housing & PP Air Valve Assly.<br>E - SS Wetted Parts + Aluminium Shaft Housing & Aluminium. Air Valve Assly. | B - Buna (Nitrile)<br>T - PTFE<br>S - Santoprene<br>V - Viton<br>N - Neoprene | S - Santoprene<br>X - None | G - BSPT<br>C - TriClamp BS 4825-3<br>F - Flanged ANSI/DIN<br>R - NPT<br>P - BSPP | C - Centre Ported, End Port Plugged<br>E - End Ported Only | P - Pulse Dampener<br>R - Remmote Solenoid Driven<br>T - Trolley Mounted<br>X - None | A - ATEX / IECEX<br>X - None | F - FDA / EN1935/2004<br>X - None | S - Speed Controller<br>C - Cycle Counter<br>B - SS Ball & SS Ball Seat<br>D - Diaphragm Monitoring<br>X - None |



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