

## 3/8" TC-X100/101 Series

The TC-X 100/101 pumps are specially designed for extremely low speed fluid transfer, frequent start/stop and dead head type applications with a choice of multi-port options.



Maximum Flow Rate: 6.1 GPM (23 L/Min)  
 Maximum Discharge Head: 230 ft (70 m)  
 Available in: Stainless Steel, Aluminum, Pure Polypropylene,  
 Glass Fiber Reinforced Polypropylene (PPG)  
 Spool valve type: Legacy Valve  
 Certification: CE, ATEX, FDA (SUS models)

| SPECIFICATIONS                         |                             |           |                          |                   |
|--|-----------------------------|-----------|--------------------------|-------------------|
| Model                                  | TC-X 100 Non-Metallic Pumps |           | TC-X 101 Metallic Pumps  |                   |
| Material Code*                         | P "X"                       | P "X" -PP | A "X"                    | S "X"             |
| Max Flow Rate                          | 4.8 GPM (18 LPM)            |           | 6.1 GPM (23 LPM)         |                   |
| Max Air Pressure                       | 100 PSI (0.7 MPa)           |           | 100 PSI (0.7 MPa)        |                   |
| Max Air Consumption                    | 8.83 scfm (250 L/min)       |           | 10.6 scfm (300 L/min)    |                   |
| Supply Air Pressure Range <sup>1</sup> | 30-100 PSI (0.2-0.7 MPa)    |           | 30-100 PSI (0.2-0.7 MPa) |                   |
| Liquid Discharge Volume per cycle      | 1.7 oz (50 ml)              |           | 1.7 oz (50 ml)           |                   |
| Connection Suction x Discharge         | NPT 3/8"                    |           | NPT 3/8"                 |                   |
| Weight                                 | 6.6 lbs (3.0 kg)            |           | 7.7 lbs (3.5 kg)         | 11.5 lbs (5.2 kg) |

\* See Chart and Model Number nomenclature on back page for materials

Note 1: A supply air pressure of 30 PSI (0.2 MPa) or more is required to operate the pump. If the supply pressure is less than 30 PSI (0.2 MPa), the pump may not operate properly.

Pump Liquid Temperature Range: P "X", V "X" 32-140°F(0-60°C)

A "X", S "X" CR/NBR Diaphragm 32-158°F (0-70°C) TPO, PTFE Diaphragm 32-212°F (0-100°C) TPEE 32-176°F (0-80°C)

Ambient temperature: 32-158°F (0-70°C)

Slurry recommendation: 0.04: (1mm) or less

Viscosity Limit: ~500 cps (0.5 Pa-s) (Please contact your distributor for more details)

### PERFORMANCE CURVES

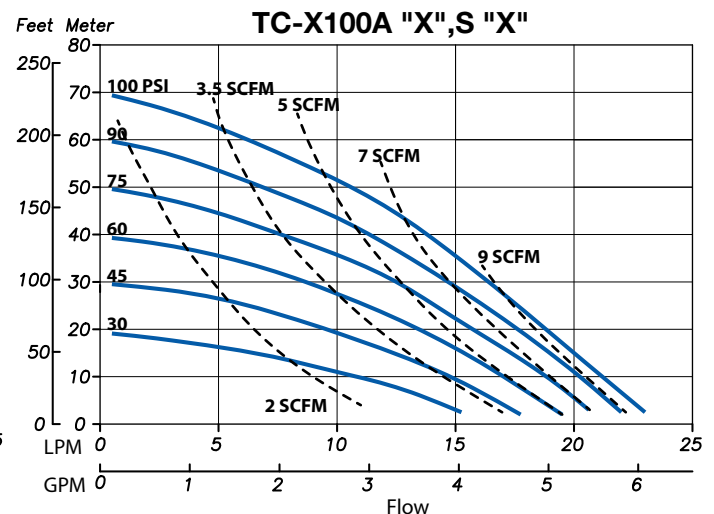
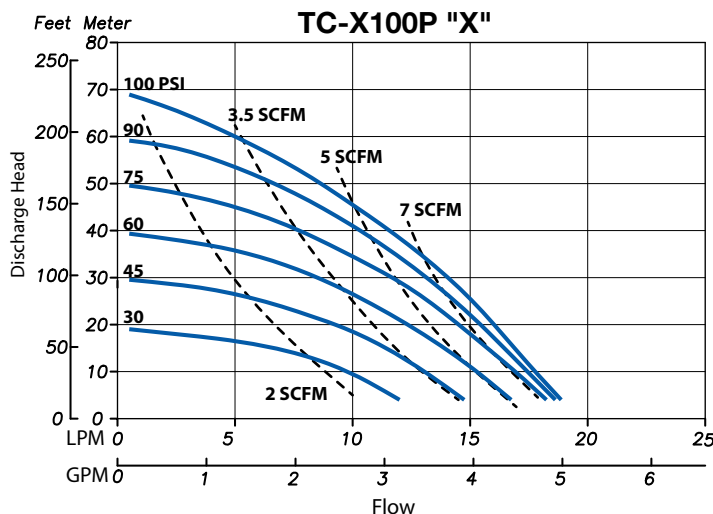
— Flow  
 - - - - Air

Conditions:

4" (10 cm) flooded suction.

Ambient temperature: 79°F (26°C)

Liquid temperature: 73-77°F (23-25°C)



## 3/8" TC-X100/101 Series

| WET END MATERIALS |                   |             |                   |               |                        |             |
|-------------------|-------------------|-------------|-------------------|---------------|------------------------|-------------|
| Code              | Pump wetted parts | Diaphragm   | Ball Valve/O-Ring | Valve Seat    | Outer Diaphragm Plate  | Center Body |
| AC                | AL Alloy          | Neoprene™   | Neoprene™/PTFE    | AL            | AL                     | AL          |
| AN                |                   | BUNA        | BUNA/PTFE         |               |                        |             |
| AT                |                   | PTFE        | PTFE              |               |                        |             |
| AH                |                   | Hytrel™     | BUNA/PTFE         |               |                        |             |
| AS                |                   | Santoprene® | EPDM/PTFE         |               |                        |             |
| SC                | Cast SS           | Neoprene™   | Neoprene™/BUNA    | SS316         | SS316                  |             |
| SN                |                   | BUNA        | BUNA              |               |                        |             |
| ST                |                   | PTFE        | PTFE              |               |                        |             |
| SH                |                   | Hytrel™     | BUNA              |               |                        |             |
| SS                | Santoprene®       | EPDM        |                   |               |                        |             |
| PC                | PPG/Pure Poly     | Neoprene™   | Neoprene™/BUNA    | PPG/Pure Poly | PPG/Pure Poly (SS303*) |             |
| PN                |                   | BUNA        | BUNA              |               |                        |             |
| PT                |                   | PTFE        | PTFE              |               |                        |             |
| PH                |                   | Hytrel™     | BUNA              |               |                        |             |
| PS                |                   | Santoprene® | EPDM              |               |                        |             |

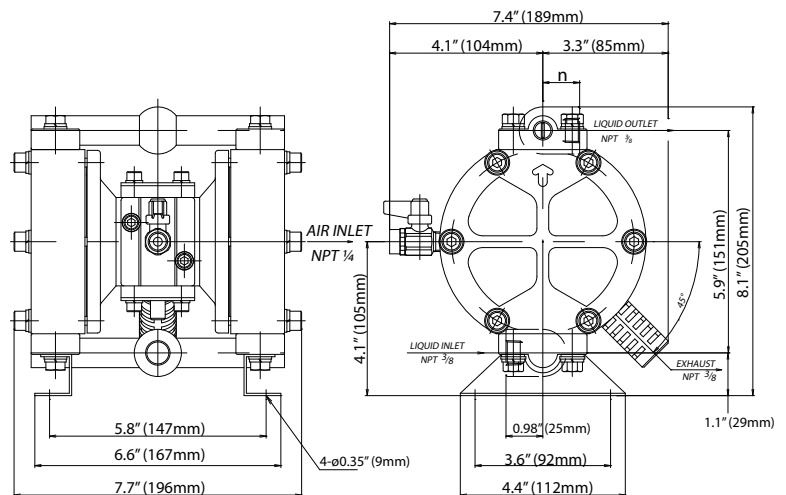
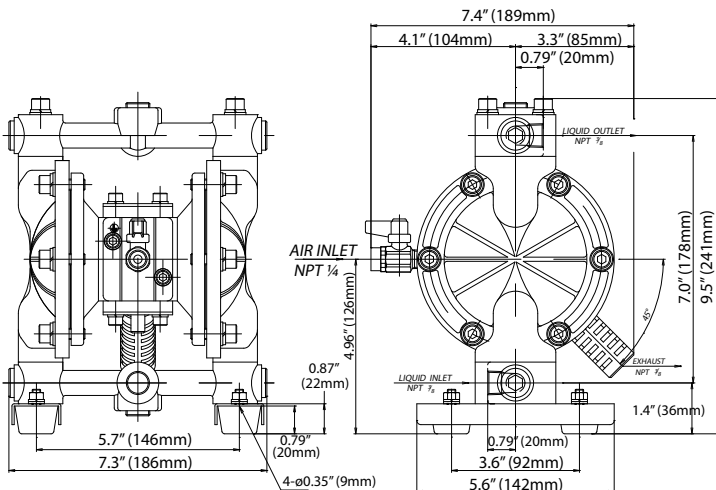
AL Alloy Aluminum Alloy (ADC12)  
 AL Aluminum (A5056)  
 Neoprene™ Chloroprene Rubber (CR)  
 BUNA Nitrile Rubber (NBR)  
 Cast SS Cast Stainless Steel (SCS14)  
 \*SS303 Stainless Steel (Insert material)  
 SS316 Stainless Steel Grade 316  
 PPG Glass Fiber Reinforced Polypropylene  
 PTFE Polytetrafluoroethylene (Teflon®)  
 PVDF Polyvinylidene Fluoride (Kynar®)  
 Hytrel™ Thermoplastic Polyester Elastomer (TPEE)  
 Santoprene® Thermoplastic PolyOlefin (TPO)  
 Pure Poly Pure Polypropylene (PP)  
 EPDM Nordel

\*SS316 Multi-port Plug Material (metal pumps)

### DIMENSIONS

TC-X100A, S (max dimensions shown)

TC-X100P, P-PP (max dimensions shown)



### MODEL NUMBER NOMENCLATURE

**TC-X 100 P T - PP - NPT**

**Series**  
TC-X

**Pump Connection Size**  
100 (3/8" x 3/8")  
101 (3/8" x 3/8")

**Pump Body Material (wetted)**  
P: PPG  
A: Aluminum (ADC12)  
S: Cast Stainless Steel (SCS14)

**Diaphragm Material**  
T: PTFE  
H: Hytrel (TPEE)  
C: Neoprene (CR)  
N: BUNA (NBR)  
S: Santoprene (TPO)  
E: Nordel (EPDM)

**Connection Type**  
NPT: Threaded

**Optional Wetted Material**  
PP: Pure Poly