

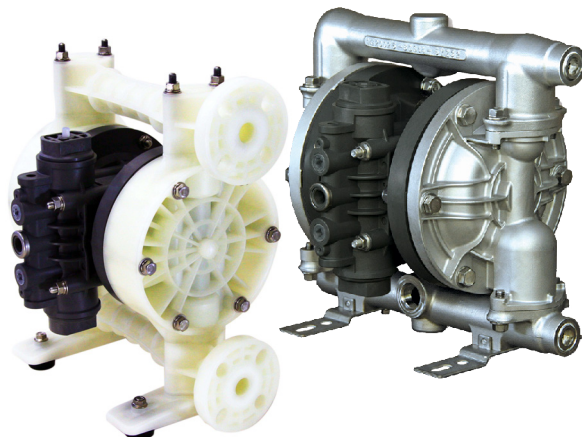
# Air-Operated Double Diaphragm Pumps



## 3/4" TC-X200 Series

The TC-X200 Series pumps offer excellent flow rates and an upgraded heavy duty body design. The pumps can operate with variable air pressures and are suited for both start/stop and fully continuous duty pumping applications. Featuring the new Looped C® Air Motor technology. Both Flange and Threaded connections available.

Maximum Flow Rate: 55.5 GPM (210 L/Min)  
Maximum Discharge Head: 230 ft (70 m)  
Available in: GFRPP, PVDF (Kynar®), Aluminum, Stainless Steel  
Spool valve type: Looped C® Spring Valve  
Check Valves: Ball type  
Certification: CE



### SPECIFICATIONS

| Material Code*                         | G "X"                                              | V "X"            | GT/GW                  | VT/VW            |
|----------------------------------------|----------------------------------------------------|------------------|------------------------|------------------|
| Max Flow Rate                          | 34.3 GPM (130 LPM)                                 |                  | 29.1 GPM (110 LPM)     |                  |
| Max Air Pressure                       | 100 PSI (0.7 MPa)                                  |                  |                        |                  |
| Max Air Consumption                    | 45.9 scfm (1300 L/min)                             |                  | 42.3 scfm (1200 L/min) |                  |
| Supply Air Pressure Range <sup>1</sup> | 30-100 PSI (0.2 - 0.7 MPa)                         |                  |                        |                  |
| Liquid Discharge Volume per cycle      | 12 oz (350 mL)                                     |                  | 8 oz (240 mL)          |                  |
| Suction x Discharge                    | NPT ¾" / ¾" ANSI flange 150 lb / JIS Flange 10k40A |                  |                        |                  |
| Weight                                 | 15.4 lbs (7.0kg)                                   | 19.8 lbs (9.0kg) | 15.4 lbs (7.0kg)       | 19.8 lbs (9.0kg) |

\* 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.

Pump Liquid Temperature Range: Standard PPG Air motor 0-82°C. Aluminum air motor (except G"x" models): CR/NBR Diaphragm 32-180°F (0-82°C), FKM/TPEE Diaphragm 32-248°F (0-120°C) EPDM/TPO/PTFE 32-212°F (0-100°C)

Slurry Recommendation: 0.08" (2 mm) or less

Viscosity Limit: Suction lift ~3000 cps (3 Pa-s) Force in ~8000 cps (8 Pa-s) (Please contact your distributor for more details)

Suction Lift: Plastic Models - PTFE Dry: 5' (1.5 meters); Rubber Dry: 10' (3 meters); Wet (Primed): 26.2' (8 meters)

### SPECIFICATIONS

| Material Code*                         | A "X"                      | S "X"              | AT/AW              | ST/SW              |
|----------------------------------------|----------------------------|--------------------|--------------------|--------------------|
| Max Flow Rate                          | 55.5 GPM (210 LPM)         |                    | 50.2 GPM (190 LPM) |                    |
| Max Air Pressure                       | 100 PSI (0.7 MPa)          |                    |                    |                    |
| Max Air Consumption                    | 56.5 scfm (1600 L/min)     |                    |                    |                    |
| Supply Air Pressure Range <sup>1</sup> | 30-100 PSI (0.2 - 0.7 MPa) |                    |                    |                    |
| Liquid Discharge Volume per cycle      | 27 oz (800 mL)             |                    | 22 oz (650 mL)     |                    |
| Suction x Discharge                    | NPT ¾"                     |                    |                    |                    |
| Weight                                 | 23.1 lbs (10.5kg)          | 44.1 lbs (20.0 kg) | 23.1 lbs (10.5kg)  | 44.1 lbs (20.0 kg) |
| Weight (MT)                            | 25.4 lbs (11.5 kg)         | 46.3 lbs (21.0 kg) | 25.4 lbs (11.5 kg) | 46.3 lbs (21.0 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.

Pump Liquid Temperature Range: Standard PPG Air motor 0-82°C. Aluminum air motor: CR/NBR Diaphragm 32-180°F (0-82°C), FKM/TPEE Diaphragm 32-248°F (0-120°C) EPDM/TPO/PTFE 32-212°F (0-100°C)

Slurry Recommendation: 0.25" (6.5 mm) or less

Viscosity Limit: Suction lift ~3000 cps (3 Pa-s) Force in ~8000 cps (8 Pa-s) (For applications requiring higher viscosity, please consult your distributor)

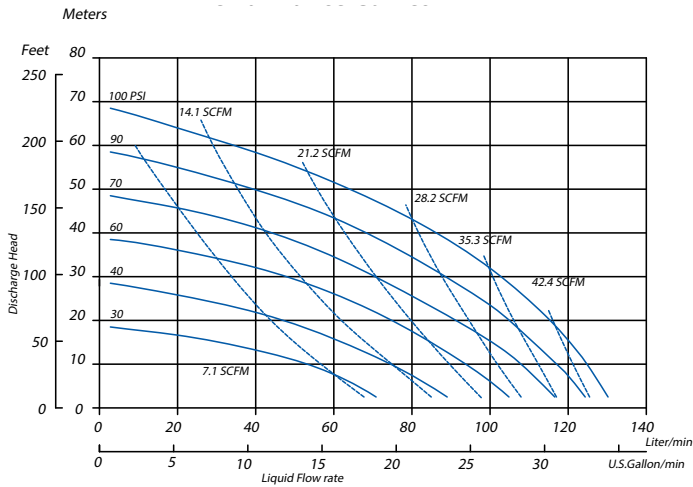
Suction Lift: Metallic Models - PTFE Dry: 5' (1.5 meters); Rubber Dry: 14.7' (4.5 meters); Wet (Primed): 26.2' (8 meters)

## PERFORMANCE CURVES

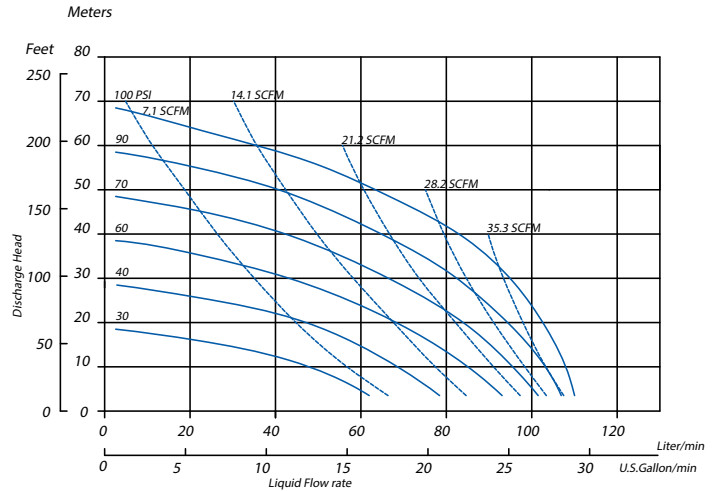
— Flow  
 - - - Air

Conditions:  
 4" (10 cm) flooded suction.  
 Ambient temperature: 68-77°F (20-25°C)  
 Liquid temperature: 68-77°F (20-25°C)

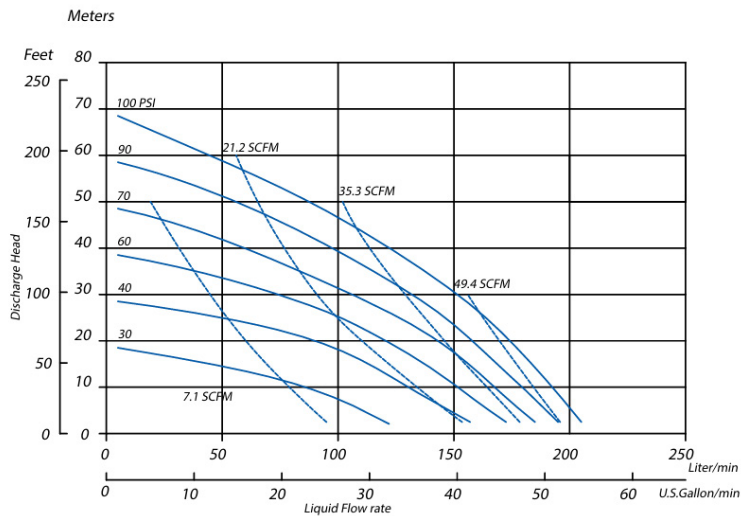
**TC-X200G"X"/V"X"** (except T & W)



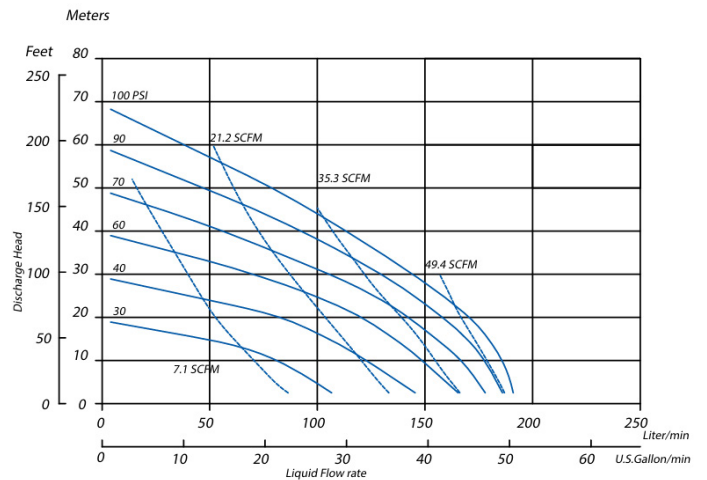
**TC-X200GT/GW/VT/VW**



**TC-X200A"X"/S"X"** (except T & W)



**TC-X200AT/AW/ST/SW**

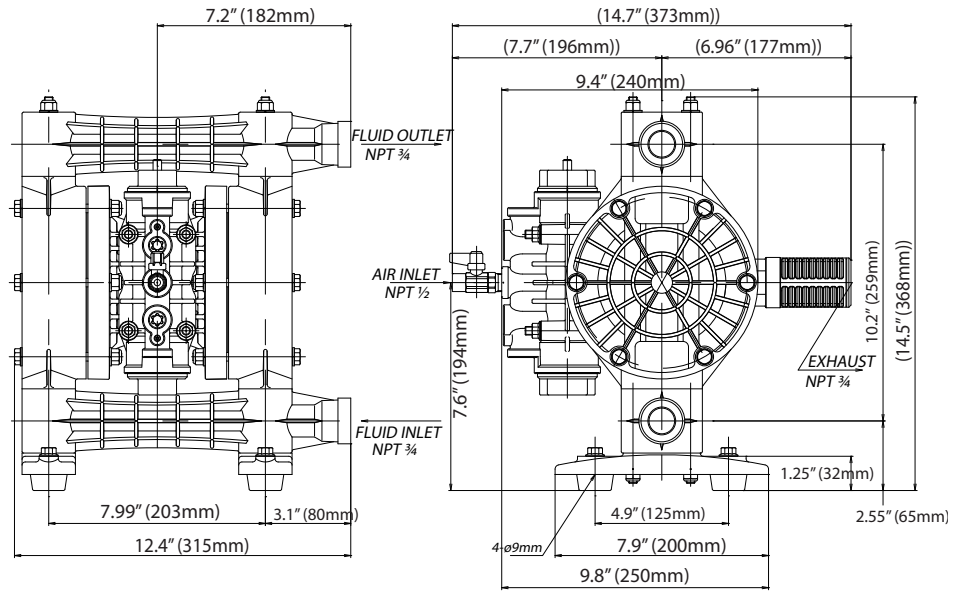


— Flow  
 - - - Air

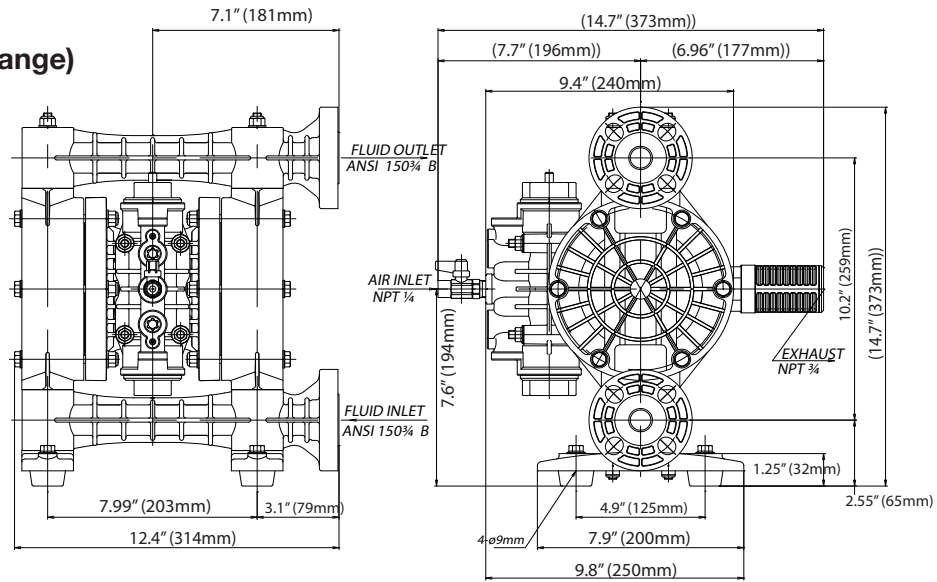
Conditions:  
 4" (10 cm) flooded suction.  
 Ambient temperature: 68-77°F (20-25°C)  
 Liquid temperature: 68-77°F (20-25°C)

## DIMENSIONS

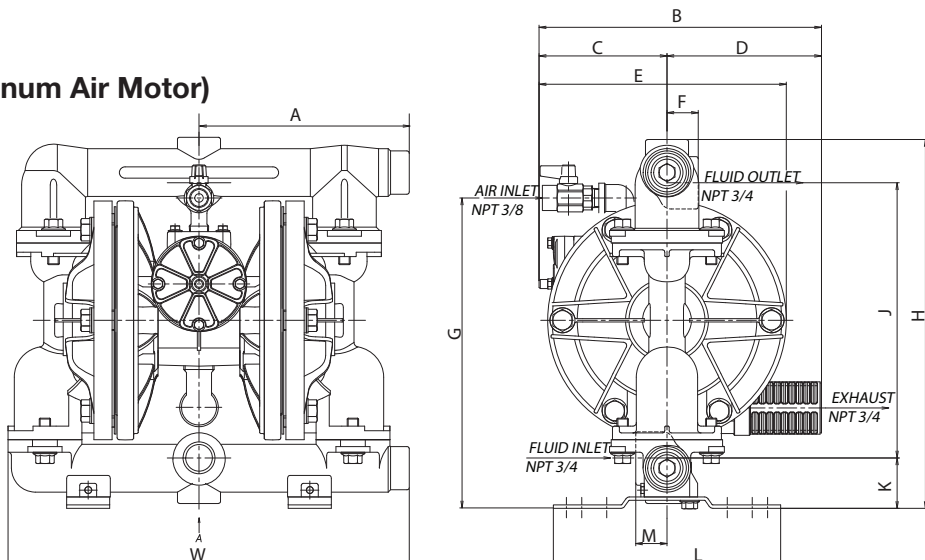
### TC-X200G/V (NPT)



### TC-X200G/V (ANSI Flange)



### TC-X203A/S (Aluminum Air Motor)



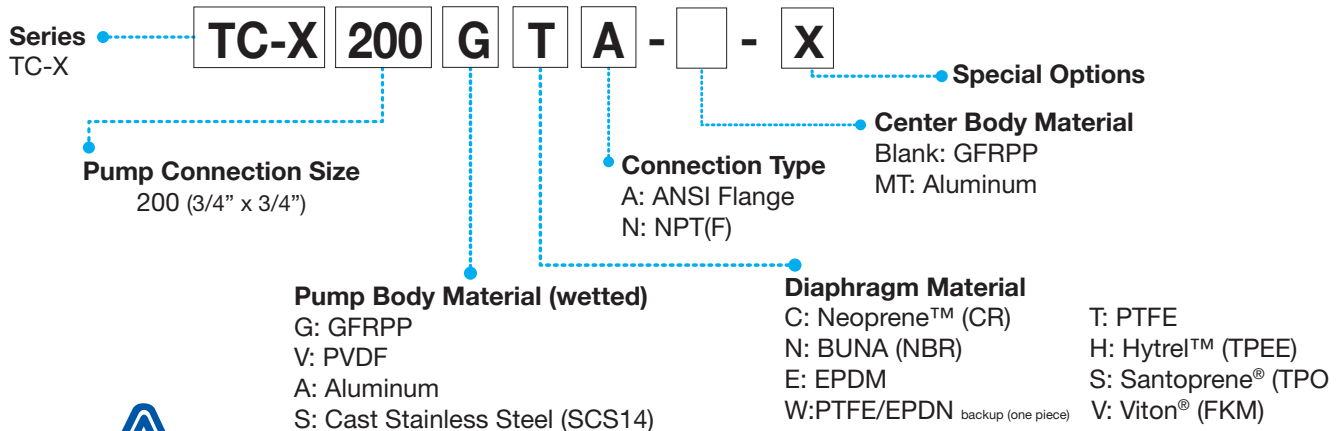
| MODEL      | A            | B            | C            | D            | E            | F           | G             | H             | J         | K           | L            | M           | W             |
|------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|---------------|-----------|-------------|--------------|-------------|---------------|
| 203S (-MT) | 7.3<br>(185) | 9.8<br>(249) | 4.4<br>(113) | 5.4<br>(136) | 8.6<br>(218) | 1.1<br>(28) | 10.7<br>(273) | 12.8<br>(324) | 9.5 (242) | 1.7<br>(44) | 7.9<br>(200) | 1.1<br>(28) | 13.9<br>(353) |
| 203A (-MT) |              |              |              |              |              |             |               |               | 9.6 (244) |             |              |             |               |

## WET END MATERIALS

| Code | Pump Wetted Parts | Diaphragm                     | Ball Valve / Valve Seat | Valve Stopper | Outer Diaphragm Plate | Center Body     |                 |
|------|-------------------|-------------------------------|-------------------------|---------------|-----------------------|-----------------|-----------------|
| GC   | GFRPP             | Neoprene™                     | Neoprene™/BUNA          | AL            | GFRPP (SCS13*)        | GFRPP           |                 |
| GN   |                   | BUNA                          | BUNA                    |               |                       |                 |                 |
| GE   |                   | EPDM                          | EPDM                    |               |                       |                 |                 |
| GV   |                   | Viton®                        | Viton®                  |               |                       |                 |                 |
| GT   |                   | PTFE                          | PTFE                    |               |                       |                 |                 |
| GW   |                   | PTFE/ EPDM backup (one piece) | PTFE                    |               |                       |                 |                 |
| GH   |                   | Hytrel™                       | Hytrel™ /BUNA           |               |                       |                 |                 |
| GS   |                   | Santoprene®                   | Santoprene®/EPDM        |               |                       |                 |                 |
| VE   | PVDF              | EPDM                          | EPDM                    | PVDF          | PVDF (SCS13*)         | PPG<br>or<br>AL |                 |
| VV   |                   | Viton®                        | Viton®                  |               |                       |                 |                 |
| VT   |                   | PTFE                          | PTFE                    |               |                       |                 |                 |
| VW   |                   | PTFE/ EPDM backup (one piece) | PTFE                    |               |                       |                 |                 |
| VH   |                   | Hytrel™                       | Hytrel™ /BUNA           |               |                       |                 |                 |
| VS   |                   | Santoprene®                   | Santoprene®/EPDM        |               |                       |                 |                 |
| AC   | AL                | Neoprene™                     | Neoprene™/BUNA          | AL            | AL                    |                 | PPG<br>or<br>AL |
| AN   |                   | BUNA                          | BUNA                    |               |                       |                 |                 |
| AE   |                   | EPDM                          | EPDM                    |               |                       |                 |                 |
| AV   |                   | Viton®                        | Viton®                  |               |                       |                 |                 |
| AT   |                   | PTFE                          | PTFE                    |               |                       |                 |                 |
| AW   |                   | PTFE/ EPDM backup (one piece) | PTFE                    |               |                       |                 |                 |
| AH   |                   | Hytrel™                       | Hytrel™/BUNA            |               |                       |                 |                 |
| AS   |                   | Santoprene®                   | Santoprene®/EPDM        |               |                       |                 |                 |
| SC   | Cast SS           | Neoprene™                     | Neoprene™/BUNA          | SS 316        | SS 316                | PPG<br>or<br>AL |                 |
| SN   |                   | BUNA                          | BUNA                    |               |                       |                 |                 |
| SE   |                   | EPDM                          | EPDM                    |               |                       |                 |                 |
| SV   |                   | Viton®                        | Viton®                  |               |                       |                 |                 |
| ST   |                   | PTFE                          | PTFE                    |               |                       |                 |                 |
| SW   |                   | PTFE/ EPDM backup (one piece) | PTFE                    |               |                       |                 |                 |
| SH   |                   | Hytrel™                       | Hytrel™/BUNA            |               |                       |                 |                 |
| SS   |                   | Santoprene®                   | Santoprene®/EPDM        |               |                       |                 |                 |

Neoprene™ Chloroprene Rubber (CR)  
 BUNA Nitrile Rubber (NBR)  
 EPDM Ethylene propylene diene monomer (Norden™)  
 Viton® Fluoroelastomer (FKM)  
 PTFE Polytetrafluoroethylene (Teflon®)  
 Hytrel™ Thermoplastic Polyester Elastomer (TPEE)  
 Santoprene® Thermoplastic Polyolefin (TPO)  
 GFRPP Glass Fiber Reinforced Polypropylene  
 PVDF Polyvinylidene Fluoride (Kynar®)  
 AL Aluminum  
 SCS13 Cast Stainless Steel Grade\*  
 SS316 Stainless Steel  
 \* SCS13 and SCS16 Insert material

## MODEL NUMBER NOMENCLATURE



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