

Air-Operated Double Diaphragm Pumps



1/2" TC-X151 Series

A pump specially designed for reliable start/stop and running against dead head & high pressure type applications.

Maximum Flow Rate: 14.3 GPM (54 L/Min)

Maximum Discharge Head: 230 ft (70 m)

Available in: Stainless Steel, PVDF, Polyoxymethylene (Acetal®), Aluminum,
Glass Fiber Reinforced Polypropylene

Shuttle valve type: C-Spring Valve, Flat Valve

Certification: CE, ATEX (select models), FDA (SS models)



SPECIFICATIONS					
Material Code*	A"X"	S"X"	P"X"	V"X"	DT
Max Flow Rate	14.3 GPM (54 LPM)		13.2 GPM (50 LPM)		
Max Air Pressure	100 PSI (0.7 MPa)				
Max Air Consumption	15.9 scfm (450 L/min)		14.1 scfm (400 L/min)		
Supply Air Pressure Range ¹	30-100 PSI (0.2 - 0.7 MPa)				
Liquid Discharge Volume per cycle	2.4 oz (70 mL)				
Connection Suction x Discharge	NPT 1/2"				
Weight	9.04 lbs (4.1 kg)	13.9 lbs (6.3 kg)	7.7 lbs (3.5 kg)	9.48 lbs (4.3 kg)	7.7 lbs (3.5 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: A"X", S"X" 32-158°F (0-70°C) CR, NBR Diaphragm 32-158°F (0-70°C) TPEE Diaphragm 32-176°F (0-80°C) TPO, PTFE Diaphragm 32-212°F (0-100°C)
P"X", V"X" 32-140°F(0-60°C)

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

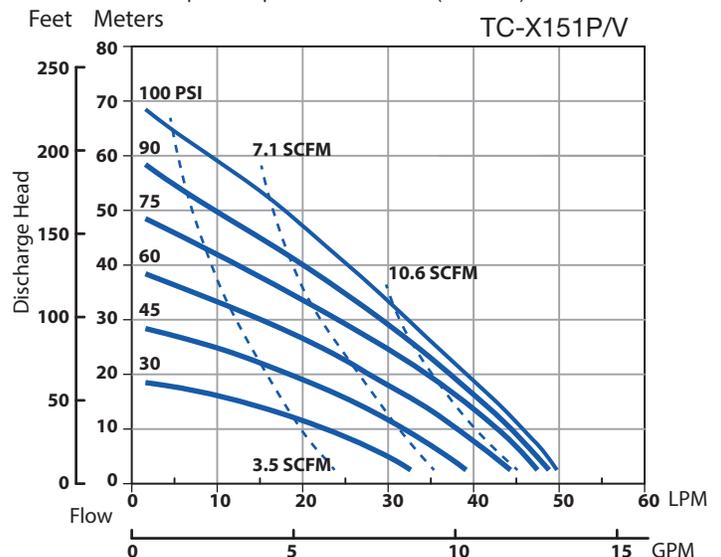
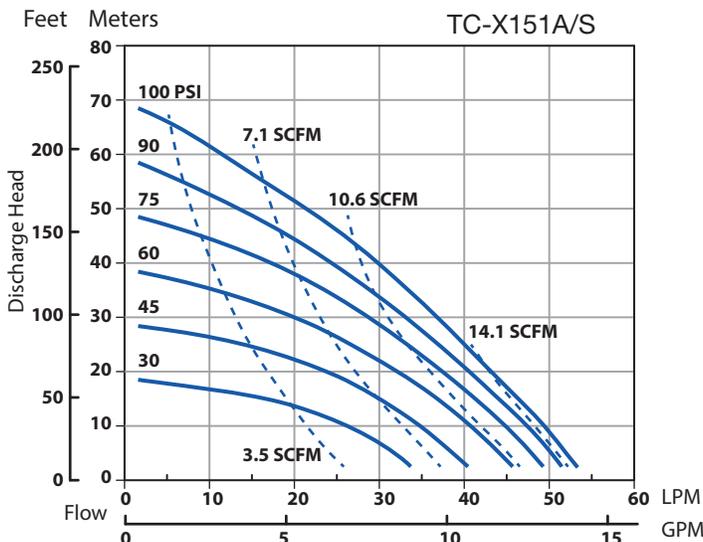
Slurry Recommendation: A"X", S"X" Particle Size: 1mm or less P"X", V"X" Flat valve type pumps are not available for use in slurry liquid

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

PERFORMANCE CURVES

— Flow
- - - - Air

Conditions:
4" flooded suction.
Ambient temperature: 72°F (22°C)
Liquid temperature: 63-68°F (17-20°C)



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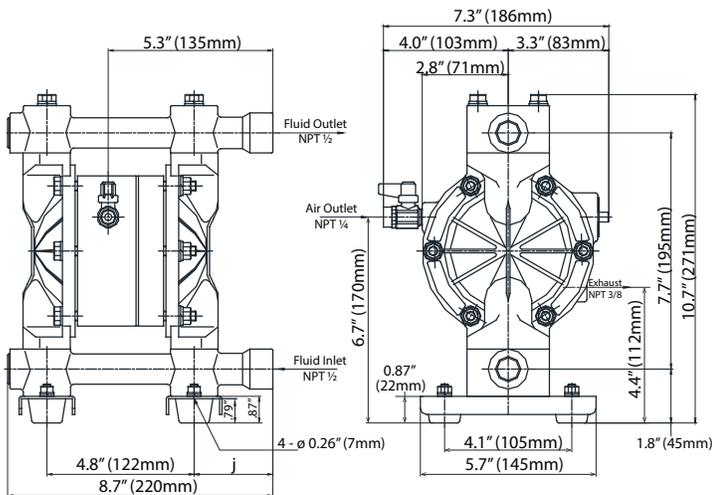
WET END MATERIALS

Code	Pump wetted parts	Diaphragm	Ball Valve/O-Ring	Flat Valve	Valve Seat	Valve Stopper	Center Disk
AC	ADC12	CR	CR/NBR	----	A5056	----	A5056
AN		NBR	NBR				
AT		PTFE	PTFE				
AH		TPEE	TPEE/NBR				
AS		TPO	TPO/EPDM				
SC	SCS14	CR	CR/NBR	----	SS316	----	SS316
SN		NBR	NBR				
ST		PTFE	PTFE				
SH		TPEE	TPEE/NBR				
SH		TPO	TPO/EPDM				
PC	PPG	CR	----	PTFE	NBR	PPG	PPG (SS303*)
PN		NBR					
PT		PTFE					
PH		TPEE					
PS	TPO			EPDM			
VT	PVDF	PTFE	----		PVDF	PVDF	PVDF (SS303*)
VS		TPO					
DT	POM	PTFE	----		POM	POM	POM (SS303*)

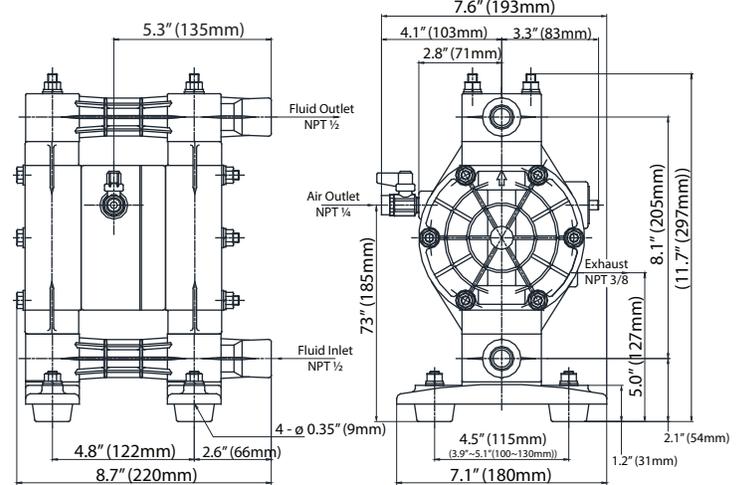
ADC12 Aluminum Alloy
A5056 Aluminum
CR Chloroprene Rubber (Neoprene™)
NBR Nitrile Rubber (Buna®)
SCS14 Cast Stainless Steel
*SS303 Stainless Steel (Insert material)
SS316 Stainless Steel Grade 316
PPG Glass Fiber Reinforced Polypropylene
PTFE Polytetrafluoroethylene (Teflon®)
PVDF Polyvinylidene Fluoride (Kynar®)
TPEE Thermoplastic Polyester Elastomer (Hytrel™)
TPO Thermoplastic PolyOlefin (Santoprene®)
POM Polyoxymethylene (Acetal®)

DIMENSIONS in inches (mm)

TC-X151A/S (max dimensions shown)



TC-X151P/V/DT



MODEL NUMBER NOMENCLATURE

