Air-Operated
Double Diaphragm Pumps

IWAKI AIR

1/2” TC-X152 Series

The TC-X152 pump is designed to offer high flow rates, excellent chemical resistance, improved leak prevention and increased reliability. The TC-X152 series offer exceptional flow rates, low air consumption and solids handling. Featuring new Looped C® Air Motor Technology.

Maximum Flow Rate: 17.2 GPM (65 L/Min)
Maximum Discharge Head: 230 ft (70 m)
Available in: Stainless Steel, Aluminum, Pure Polypropylene, Conductive Polypropylene and PVDF (Kynar®), Glass-Fiber Reinforced Polypropylene
Spool Valve Type: Looped C-Spring Valve
Check Valves: Flat Valves & Ball options
Certification: CE, ATEX (select models)

SPECIFICATIONS

Material Code*	A"X"	S"X"	P"X" C"X"	V"X"
Max Flow Rate	17.2 GPM (65 LPM)		16.4 GPM (62 LPM)	
Max Air Pressure	100 PSI (0.7 MPa)			
Max Air Consumption	24.7 scfm (700 L/min)			
Supply Air Pressure Range [1]	30-100 PSI (0.2-0.7 MPa)			
Liquid Discharge Volume per cycle	2.9 oz (85 mL)			
Connection Suction x Discharge	NPT 1/2”			
Weight	9.0 lbs (4.1 kg)	14.8 lbs (6.7 kg)	6.8 lbs (3.1 kg)	9.3 lbs (4.2 kg)

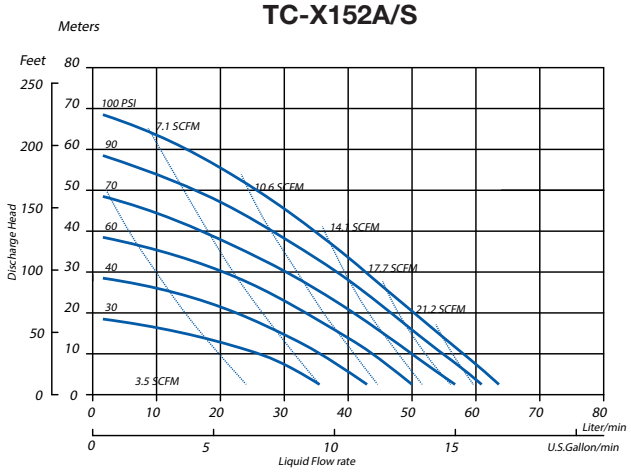
* See Chart and Model Number nomenclature on back page for materials
Note 1: A supply air pressure of 30 PSI (0.2 MPa) or more is required to operate the pump. If the supply pressure is less than 30 PSI (0.2 MPa), the pump may not operate properly.
Pump Liquid Temperature Range: P"X", C"X", G"X" 32-180°F(0~82°C) A"X", S"X" V"X" CR, NBR 32-180°F (0-82°C) PEE,FKM* 32-212°F (0-100°C)*
TPO, PTFE 32-212°F (0~100°C) * 248F (120C) option available, consult factory.
Ambient Temperature Range: 32-158°F (0-70°C)
Slurry Recommendation: A"X", S"X" 0.04" (1mm) or less G"X", P"X", C"X", V"X", Not recommended for use in slurry liquid
Viscosity Limit: ~500 cps (0.5 Pa·s) (For applications requiring higher viscosity, please consult your distributor)
Max. Suction Lift: Flat Valve Dry: 6.5' (2 meters) Ball Valve Dry: 5' (1.5 meters) Wet (Primed): 26.2' (8 meters)

PERFORMANCE CURVES

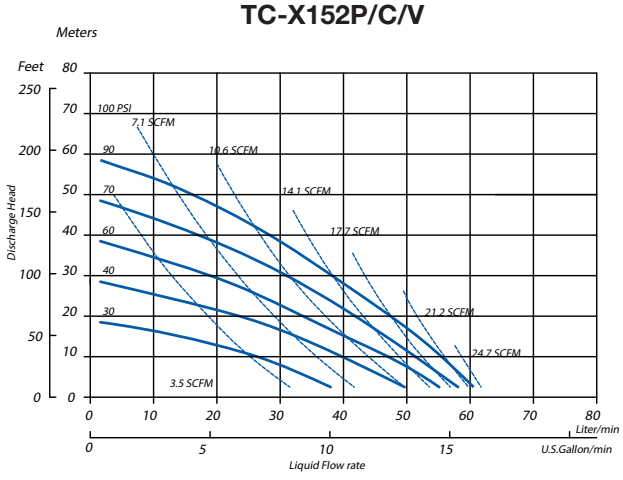
Flow
Air

Conditions:
4”(10 cm) flooded suction.
Ambient temperature: 64°F (18°C)
Liquid temperature: 63-68°F (17-20°C)

TC-X152A/S



TC-X152P/C/V



WET END MATERIALS

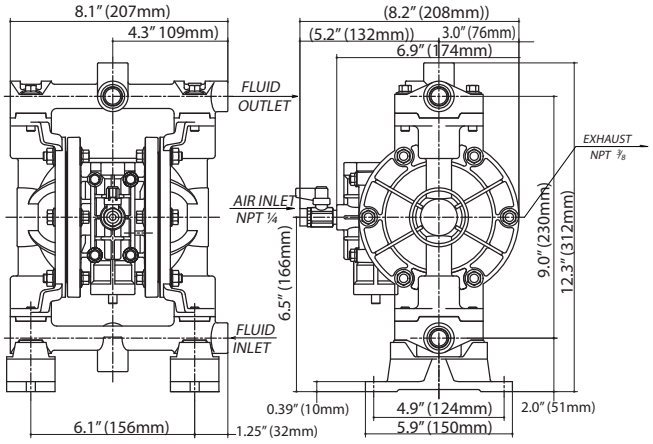
Code	Pump Wetted Parts	Diaphragm	Flat Valve	Valve Seat	Outer Diaphragm Plate	Center Body
AC	AL Alloy	Neoprene™	Neoprene™	AL	AL	GFRPP
AN		BUNA	BUNA			
AT		PTFE	PTFE			
AW		PTFE/EPDM backup (one-piece)	PTFE			
AH		Hytrel™	BUNA			
AS		Santoprene®	EPDM			
AE		EPDM	EPDM			
SC	Cast SS	Neoprene™	Neoprene™	SS316	SS316	
SN		BUNA	BUNA			
ST		PTFE	PTFE			
SW		PTFE/EPDM backup (one-piece)	PTFE			
SH		Hytrel™	BUNA			
SS		Santoprene®	EPDM			
SE		EPDM	EPDM			
GC	Pure Poly	Neoprene™	PTFE	Pure Poly	Pure Poly (SS303*)	
GN		BUNA				
GT		PTFE				
GW		PTFE/EPDM backup (one-piece)				
GH		Hytrel™				
GS		Santoprene®				
GE		EPDM				
VT	PVDF	PTFE	PTFE	PVDF	PVDF (SS303*)	
VW		PTFE/EPDM backup (one-piece)				
VS		Santoprene®				
VE		EPDM				
CC	Conductive Poly	Neoprene™	PTFE	Conductive Poly	Conductive Poly (SS303*)	Conductive Poly
CN		BUNA				
CT		PTFE				
CW		PTFE/EPDM backup (one-piece)				
CH		Hytrel™				
CS		Santoprene®				

AL Alloy	Aluminum Alloy (ADC12)
AL	Aluminum (A5056)
Neoprene™	Chloroprene Rubber (CR)
BUNA	Nitrile Rubber (NBR)
Cast SS	Cast Stainless Steel (SCS14)
EPDM	Ethylene Propylene Diene Monomer (Nordel™)
*SS303	Stainless Steel (Insert material)
SS316	Stainless Steel Grade 316*
GFRPP	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)
Conductive Poly	Conductive Polypropylene (PC)

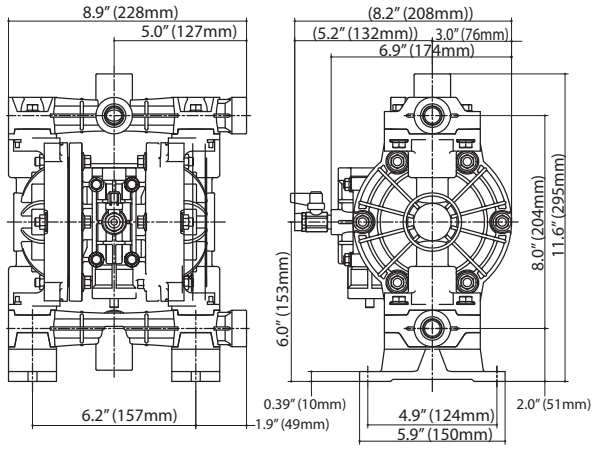
* SS316 Multi-port Plug Material (metal pumps)

DIMENSIONS

TC-X152A, S



TC-X152P, C, V



MODEL NUMBER NOMENCLATURE

Series
TC-X

TC-X 152 P T - N - X

Other Options

Pump Connection Size
152 (1/2" x 1/2")

Connection Type
N: NPT

Pump Body Material (wetted)
P: Pure Polypropylene
V: PVDF
C: Conductive Polypropylene
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)
W: PTFE/EPDM backup (one piece)

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