Air Operated Double Diaphragm Pumps

TC-X101ST-FDA / SW-FDA

⅜” Metallic Diaphragm Pump FDA-compliant Data Sheet

Max. Flow Rate: 24 l/min
Liquid Connections: Ferrule 20A Tri-Clamp
Max. Slurry Size: 1.0 mm
Max. Suction Lift: Dry: 1.5 m Wet (Primed): 8.0 m
Max. Discharge Pressure: 0.7 MPa
Check Valve Configuration: Ball Valves
Pump Wetted Material Options: Stainless Steel –SCS14 electro polished
Diaphragm Options: PTFE-EPDM “W”, PTFE “T”
Air Motor Material: Aluminium PTFE coated



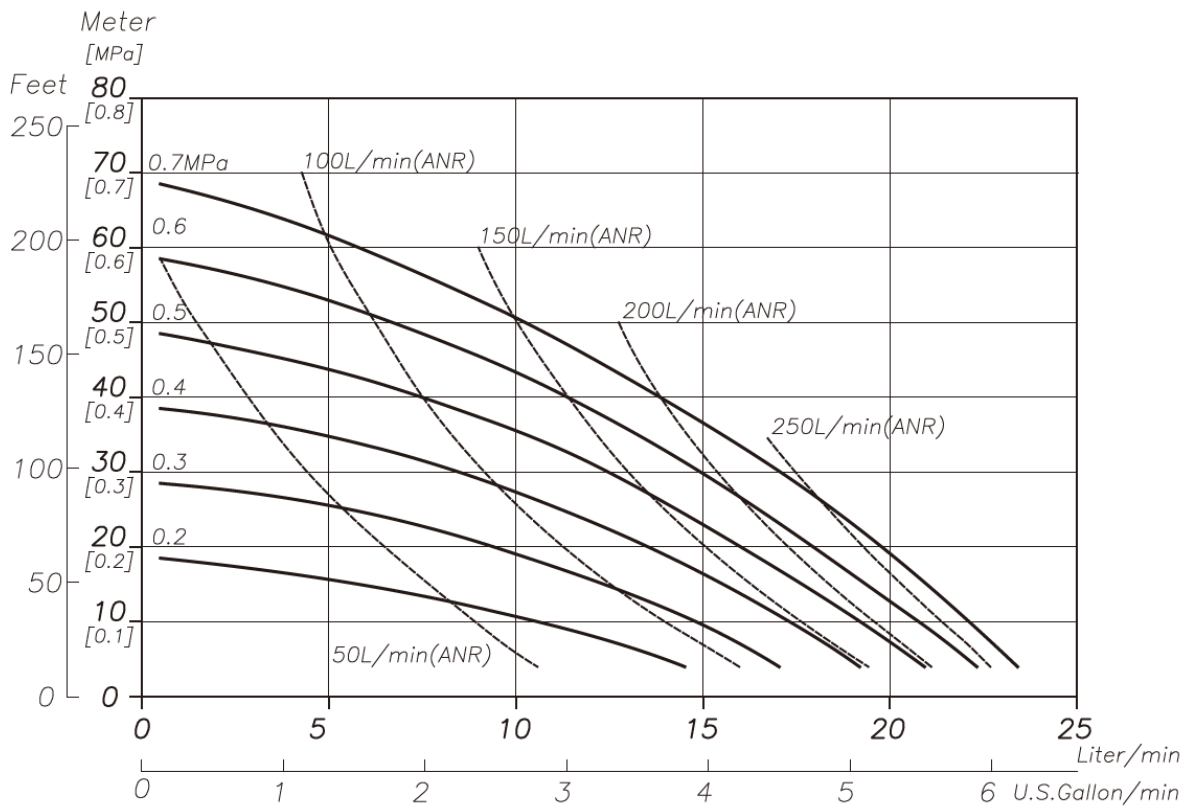
TC-X101S□-FDA
⅜” SUS Pump.

101S□-FDA SCS14 Electro-Polished Pump Specifications	
Pump Model / Material	**ST-FDA, SW-FDA**
Max. Flow Rate	24 l/min [6.3 Gallon/min]
Max. Solids Size	1.0 mm or less
Max. Discharge Pressure	0.7 MPa [100 PSI]
Max. Suction Lift	Dry: 1.5 m Wet (Primed): 8.0 m
Supply Air Pressure Range	0.2 - 0.7 MPa [30 - 100 PSI]
Max. Air Consumption	260 l/min (ANR) [9.18 SCFM]
Max. Discharge Volume Per Cycle	50 ml
Ambient Temperature Range	0 - 70°C [32 - 158°F]
Liquid Temperature Range	PTFE 0 - 100°C [32 - 212°F]
Connections: Manifolds / Air	Ferrule 20A (Tri-clamp) mid port / ¼” Rc Ball valve

*Operating in the condition a fluid temperature is at 70°C or above might cause an early degradation of performance and required to change the material of air motor seal parts. Please contact your nearest distributor for details.

Note. *Factors affecting a pumps stated liquid flow rate, suction lift & solids handling capabilities include, but are not limited to; pump size, diaphragm, ball valve & ball seat, type & materials of construction, air inlet pressure & air flow capability, liquid viscosity, specific gravity, slurry content, ambient & liquid temperature, liquid inlet & liquid outlet width, piping type, piping length & overall piping configuration. A minimum supply air pressure of 30 PSI (0.2 MPa) is required to operate the pump..*

Pump Performance Curves





PTFE coated ALU motor

For more information about TC-X Pumps please contact: sales@iwaki.de
WWW.IWAKI.DE

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Wetted Materials Of Construction

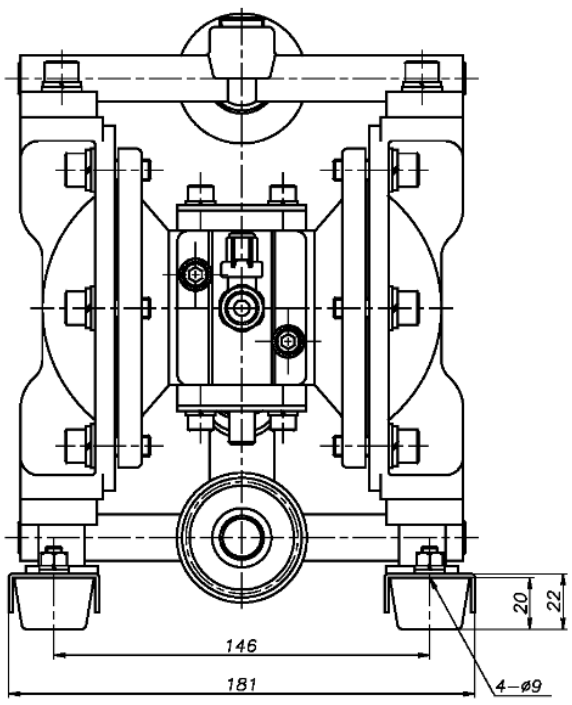
MODEL	101ST-FDA	101SW-FDA
Pump Wetted Parts	SCS14 Electro-polished	
Diaphragm	PTFE	PTFE-EPDM
Valve Stopper	SUS316 Electro-polished	
Ball Valve	PTFE	
Valve Seat	SUS316 Electro-polished	
Center Disk	SUS316 Electro-polished	
Weight	5.5 kg [12.13 lbs)]	

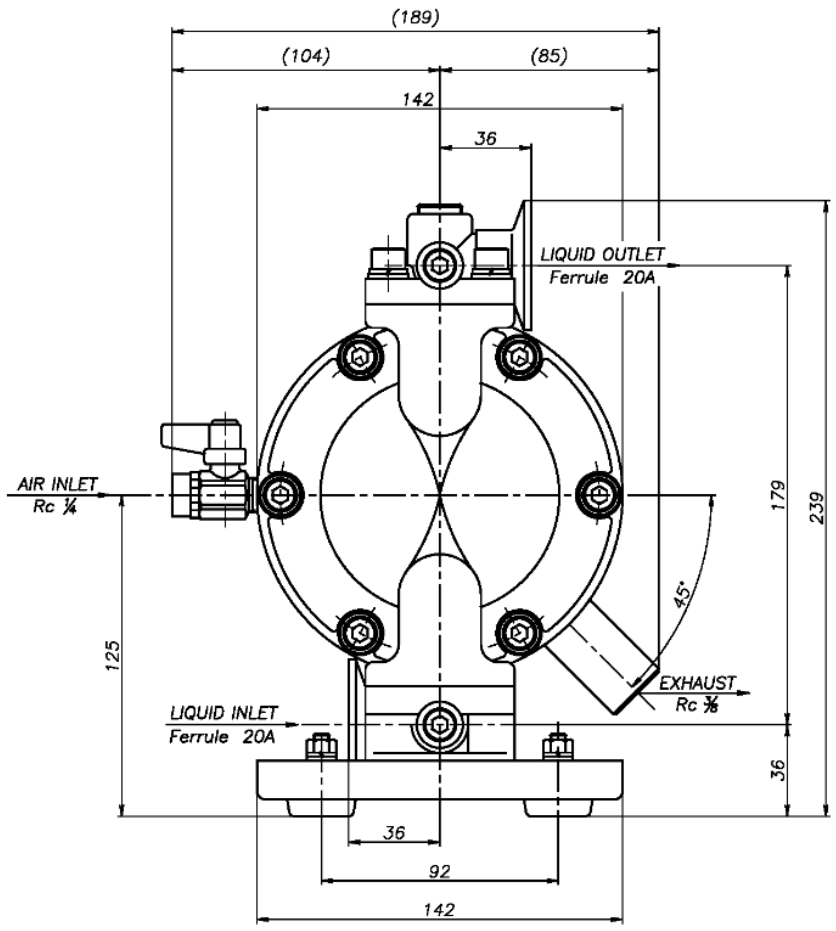


TC-X101SW-FDA:
W-Diaphragms
For easy cleaning
Long lifetime

Dimensional Drawings

101S☐-FDA







Ferrule Food connections (Tri-Clamp)

Nomenclature

Series: TC-X | 101 | S | W | - | FDA

- 101: Pump Connection Size
- S: Pump Body Material (Wetted) — S: SCS14 – (SUS316)
- W: Diaphragm Material — W: PTFE-EPDM; T : PTFE
- FDA: Connection Type: Ferrule 20A (Tri-clamp); Wetted material: SCS14 Electro-polished; Wetted center disk: Capped type (Only for ST); PTFE coated ALU motor

AODD Pump Capabilities

Self Priming	Variable Discharge Pressures	Inherently Safe Design
Run Dry	Transfer Liquid Slurries	Portable & Easy to Use
Run up to Dead Head	Transfer Large Sized Solids	Transfer Viscous Fluids
Variable Flow Rates	Handle Abrasives	Frequent Start Stop Operation
Shear Sensitivity	Transfer Chemicals	Powered by Compressed Air

II2G ExhIIBT5Gb「0°C<Ta<70°C」
II2D ExhIIIBT100°CDb「0°C<Ta<70°C」

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