Air Operated Double Diaphragm Pumps

IWAKI AIR EUROPE

FDA

TC-X051ST-FDA

¼" Diaphragm Pump Data Sheet

LoopedC

Max. Flow Rate: 15 l/min
Liquid Connections: Ferrule 20A Tri-clamp
Max. Slurry Size: 0 mm (with Flat Valves)
Max. Suction Lift: Dry: 4.5 m Wet (Primed): 8.0 m
Max. Discharge Pressure: 0.7 MPa
Check Valve Configuration: Flat Valves PTFE (optional Ball Valves on Metallic Pumps)
Pump Wetted Material Options: Stainless Steel – SCS14 electro polished
Diaphragm Options: PTFE
Air Motor Material: PPG

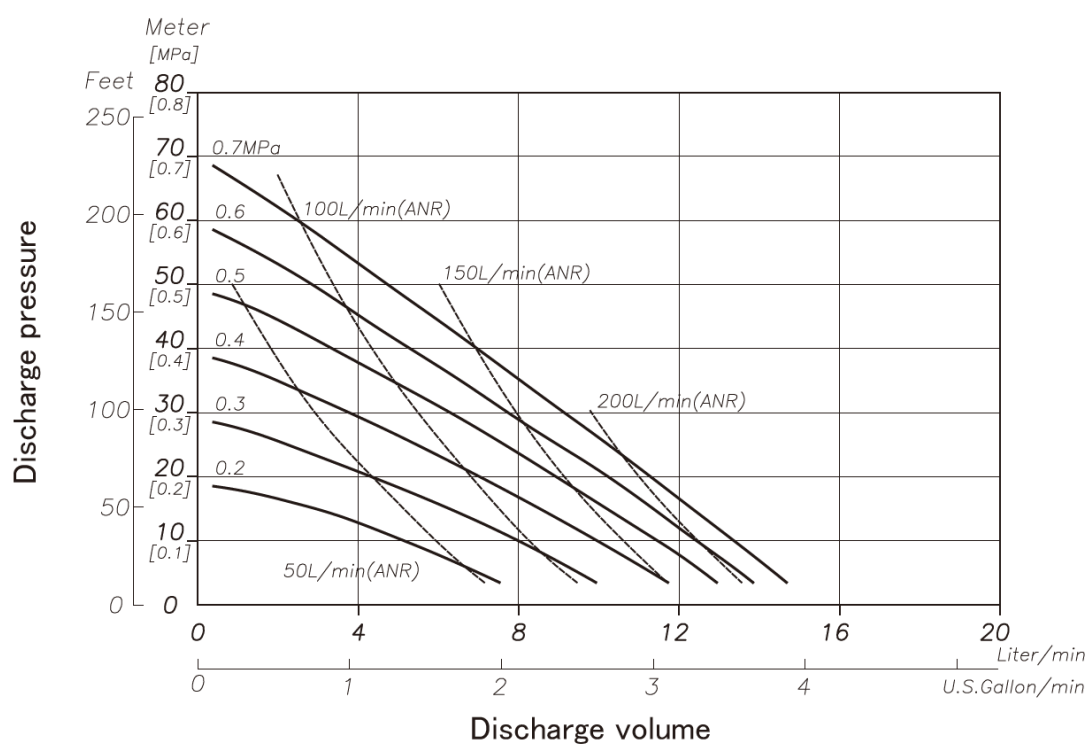
TC-X051ST-FDA
¼" PP Pump.

051ST-FDA SCS14 Electro-Polished Pump Specifications	
Pump Model / Material	**ST-FDA**
Max. Flow Rate	15 l/min [4.0 GPM]
Max. Solids Size	0 mm / 0.5 mm Ball Valve Version
Max. Discharge Pressure	0.7 MPa [100 PSI]
Max. Suction Lift	Dry: 4.5 m Wet (Primed): 8.0 m
Supply Air Pressure Range	0.2 - 0.7 MPa [30 - 100 PSI]
Max. Air Consumption	250 l/min (ANR) [8.83 SCFM]
Max. Discharge Volume Per Cycle	35 ml
Ambient Temperature Range	0 - 70°C [32 - 158°F]
Liquid Temperature Range	0 - 100°C [32 - 212°F] *
Connections: Manifolds / Air	Ferrule 20A (Tri-clamp) side 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



PPG Air Motor

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

Air Operated Double Diaphragm Pumps

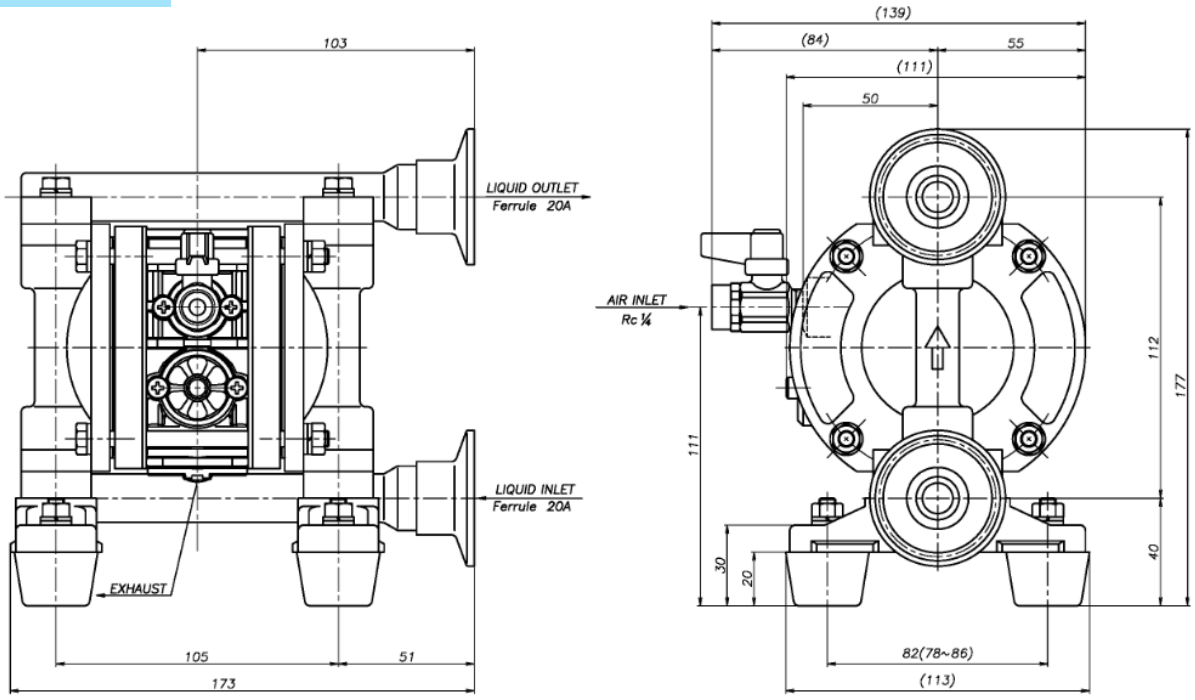
IWAKI AIR EUROPE

Wetted Materials Of Construction

MODEL	051ST-FDA
Pump Wetted Parts	SCS14 Electro-polished
Diaphragm	PTFE
Valve Stopper	SUS316 Electro-polished
Ball Valve	PTFE
Valve Seat	SUS316 Electro-polished
Center Disk	SUS316 Electro-polished
Weight	2.7 kg [5.95 lbs)]

Dimensional Drawings

051ST-FDA

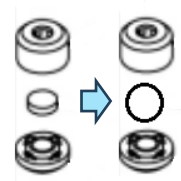


Pump Nomenclature

Series TC-X | 051 | S | T | FDA | X

- 051: Pump Connection Size 051 (¼")
- S: Pump Body Material (Wetted) S: SCS14 (SUS316) Electro-polished
- T: Diaphragm Material T: PTFE
- FDA: Connection Type: Ferrule 20A (Tri-clamp); Wetted materials: SCS14 Electro-polished; Wetted center disk: Capped type
- X: Special Options BV: Ball Valves

-BV



Standard Flat valves
Optional Ball valves "-BV"

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

CE LoopedC

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

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