Air Operated Double Diaphragm Pumps

IWAKI AIR EUROPE

TC-X151

½” Diaphragm Pump Data Sheet

LoopedC

Max. Flow Rate: 54 l/min (Metallic / Ball Valve Models)
Liquid Connections: ½” Female Side-ports
Max. Slurry Size: 1.0 mm (Ball Valve Models)
Max. Suction Lift: Dry Flat Valve: 2.0 m Ball Valve: 1.5 m Wet (Primed): 8.0 m
Max. Discharge Pressure: 0.7 MPa
Check Valve Configuration: Flat Valves & Ball Valve Models
Pump Wetted Material Options: Al, SUS, GFRPP, POM, PVDF
Diaphragm Options: PTFE, CR, EPDM, NBR, TPEE, TPO
Air Motor Material: PPS Plastic
Description: Original Model ½” AODD Pumps available in a wide range of materials, C-Spring Air Spool, PPS (Ryton) Air Motor, Side Port Threaded Connections

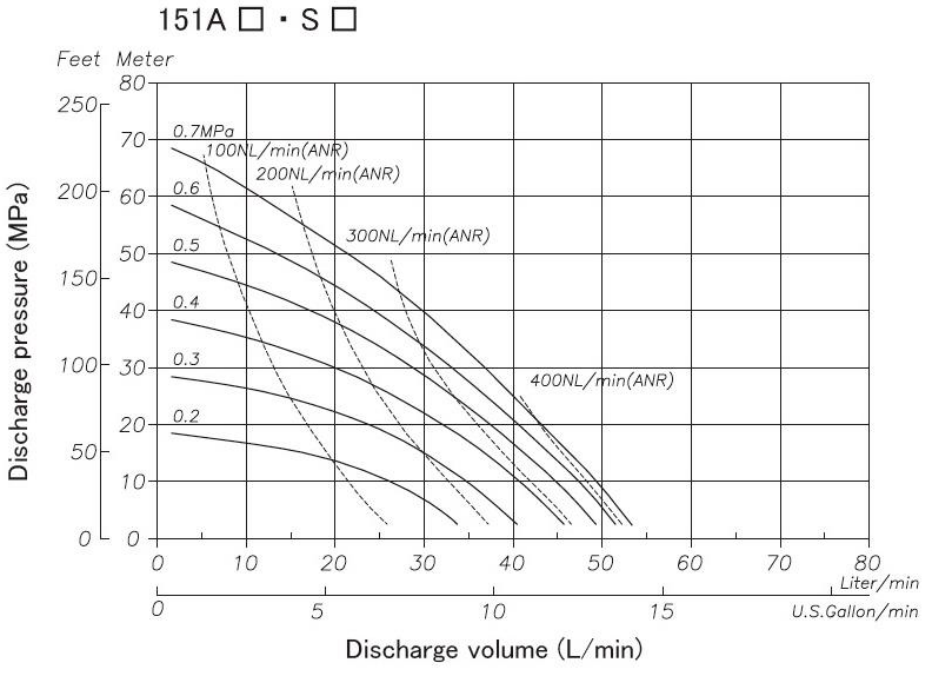
TC-X151G□
½” GFRPP Pump

151 Pump Specifications		
Pump Model / Material	**A□ S□**	**G□ V□ D□**
Max. Flow Rate	54 l/min [14.3 GPM]	50 l/min [13.2 GPM] *(Flat Valve Version)*
Max. Solids Size	1.0 mm or less	0 mm *(Flat Valve Version)*
Max. Discharge Pressure	0.7 MPa [100 psi]	
Max. Suction Lift	Flat Valve Dry: 2.0 m Ball Valve Dry: 1.5 m Wet (Primed): 8.0 m	
Supply Air Pressure Range	0.2 - 0.7 MPa [30 - 100 psi]	
Max. Air Consumption	450 l/min (ANR) [15.9 SCFM]	400 l/min (ANR) [14.1 SCFM]
Max. Discharge Vol. Per Cycle	70 ml	
Ambient Temp. Range	0 - 70°C [32 - 158°F]	
Liquid Temp. Range	NBR/CR 0-70°C TPEE/EDPM 0-80°C FKM/TPO/PTFE 0-100°C	0 - 60°C [32 - 140°F]
Connections: Manifold / Air	½” Rc Female Threaded Side-Ports / ¼” Air Ball valve	

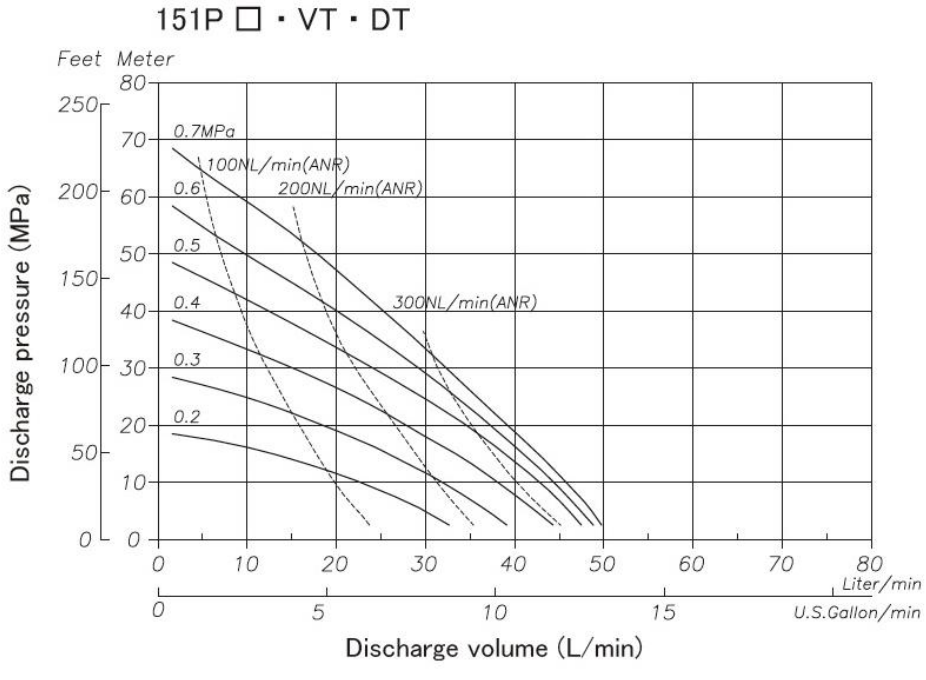
Note. *Factors affecting a pumps stated liquid flow rate, suction lift & solids handling capabilities include, but are not limited to; pump size, diaphragm, ball valve & ball seat, type & materials of construction, air inlet pressure & air flow capability, liquid viscosity, specific gravity, slurry content, 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

Metallic Pump Curves



Plastic Pump Curves (Flat Check Valves)



For more information about TC-X Pumps please contact: sales@iwaki.de
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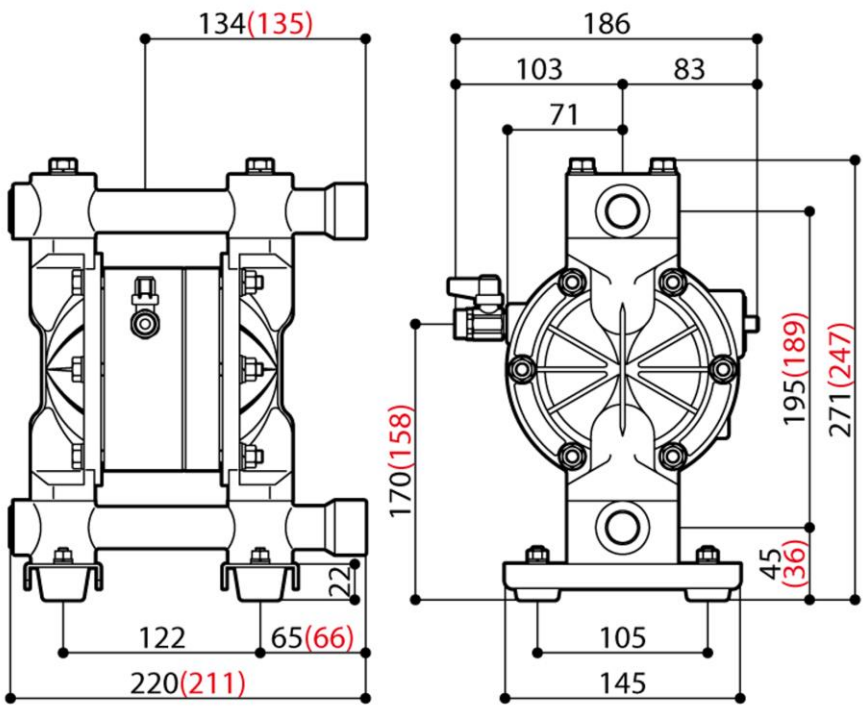
Wetted Materials Of Construction

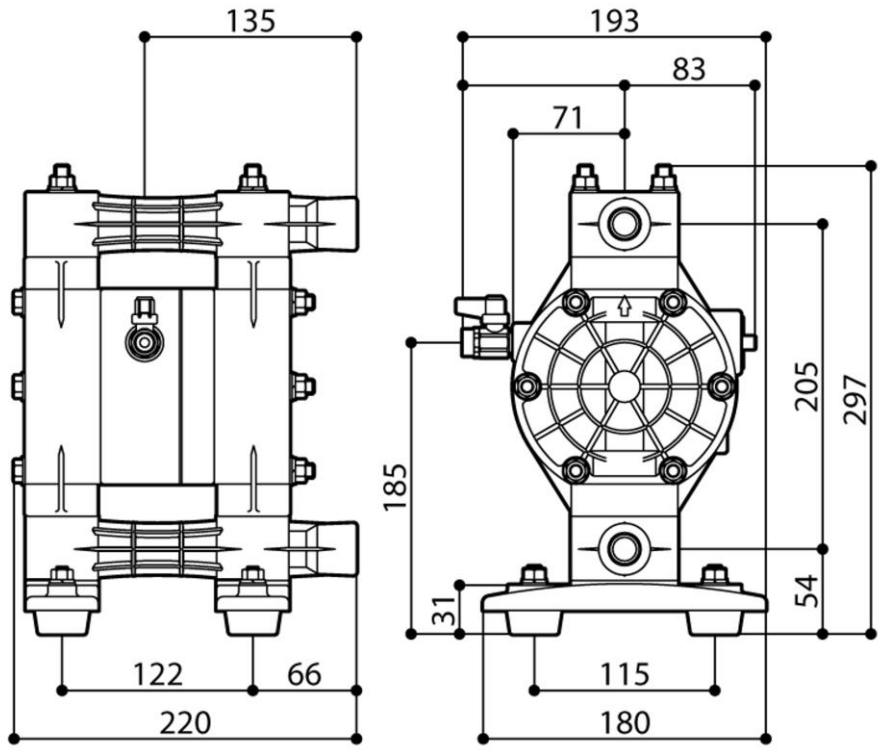
MODEL	151AC 151ACN	151AN 151ANN	151AE 151AEN	151AT 151ATN	151AH 151AHN	151AS 151ASN	151SC 151SCN	151SN 151SNN	151SE 151SEN	151ST 151STN	151SH 151SHN	151SS 151SSN	151GC 151GCN	151GN 151GNN	151GE 151GEN	151GT 151GTN	151GH 151GHN	151GS 151GSN	151VT 151VTN	151DT 151DTN
Pump Wetted Parts	ADC12						SCS14						PPG						PVDF	POM
Diaphragm	CR	NBR	EPDM	PTFE	TPEE	TPO	CR	NBR	EPDM	PTFE	TPEE	TPO	CR	NBR	EPDM	PTFE	TPEE	TPO	PTFE	PTFE
Valve Stopper	PA						SCS14						PPG						PVDF	POM
Flat Valve													PTFE						PTFE	PTFE
Ball Valve	CR	NBR	EPDM	PTFE	NBR	EPDM	CR	NBR	EPDM	PTFE	NBR	EPDM	CR	NBR	EPDM	PTFE	NBR	EPDM		
Valve Seat	A5056						SUS316						PPG						PVDF	POM
Center Disk	A5056						SUS316						PPG						PVDF	POM
Weight	4.1 kg (9.1 lbs)						6.3 kg (13.9 lbs)						3.5 kg (7.8 lbs)						4.3 kg (9.5 lbs)	3.5 kg (7.8 lbs)

Dimensional Drawings

151A□・S□



151G□・VT・DT



Nomenclature

Series — TC-X | 151 | G | T | N | - | X — Special Options

- Pump Connection Size: 151 (½")
- Pump Body Material (Wetted): A: Al; S: SUS; G: GFRPP; V: CFPVDF; D: Delrin/POM
- Diaphragm Material: T: PTFE; C: CR; E: EPDM; N: NBR; H: TPEE; S: TPO
- Connection Type: □: Rc; N: NPT

TC-X151ST
½" SUS AODD Pump.

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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091