

YTS®

Air Operated Double Diaphragm Pumps

1" D250 Metallic

1" Metallic Diaphragm Pump Data Sheet

Max Flow Rate: 220 L/min.(Rubber)

Max Discharge Pressure: 0.7 MPa.

Max Slurry Size: 6.5 mm.

Max Suction Lift: PTFE Dry: 1.5m Rubber Dry: 4.5m. Wet (Primed): 8.0m. Liquid Connection Size: 1".

Liquid Connection Configuration: Female Threaded Multi-ports.

Pump Wetted Material Options: Aluminium, Stainless Steel.

Air Motor Material: PPG (Optional CFPP & Aluminium).

Diaphragm Options: PTFE, CR, NBR, TPEE, TPO, EPDM, FKM, One-piece PTFE Check

Valve Configuration: High Flow Ball Type Check Valves.

Air Motor Model: Looped C® Spring Air Spool.

Exhaust Configuration: External Plastic Exhaust Silencer (x1).

Base & Footprint: Heavy Duty Steel Legs & Fully Adjustable Footprint .



D250S

1" SUS AODD Pump
220 L/min Max



250 Metallic Pump Specifications

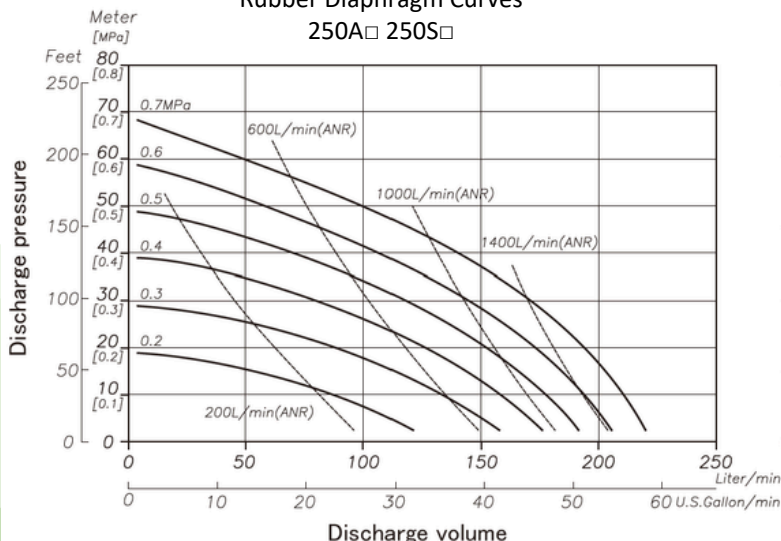
Pump Model	A S	AT·AW ST·SW
Max Flow Rate	220 L/min [58.1 GPM]	190 L/min [50.2 GPM]
Max Solids Size	6.5 mm	
Max Discharge Pressure	0.7 MPa [100 psi]	
Supply Air Pressure Range	0.2 – 0.7 MPa [30 - 100 psi]	
Max Suction Lift	PTFE Dry: 1.5 meters. Rubber Dry: 4.5 meters. Wet (Primed): 8.0 meters.	
Max Air Consumption	1800 L/min (ANR) [63.5 SCFM]	1600 L/min (ANR) [56.5 SCFM]
Max Discharge Vol Per Cycle	800 mL	650 mL
Ambient Temp Range	0 – 70°C [32 – 158°F]	
Liquid Temp Range	0–70°C [32–158°F] (-A Models; NBR/CR 0–70°C TPEE/EPDM 0–80°C* FKM/TPO/PTFE/One-piece PTFE 0–100°C)*	
Inlet & Outlet Connections	1" Female Threaded Multi Ports	

*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.

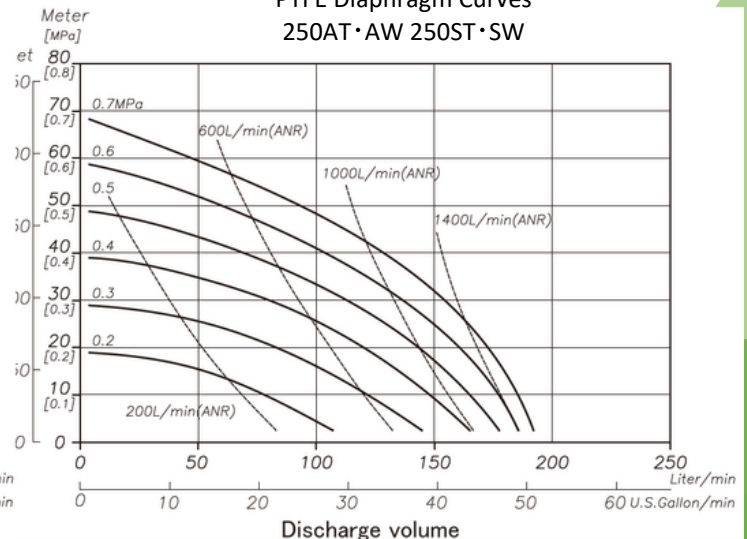
Note: Factors affecting a pumps stated liquid flow rate, suction lift & solids handling capabilities include but are not limited to; pump size, diaphragm, ball valve & ball seat, type & materials of construction, air inlet pressure & air flow capability, liquid viscosity, specific gravity, slurry content,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

Rubber Diaphragm Curves
250A□ 250S□



PTFE Diaphragm Curves
250AT·AW 250ST·SW



2"> Wetted Materials Of Construction

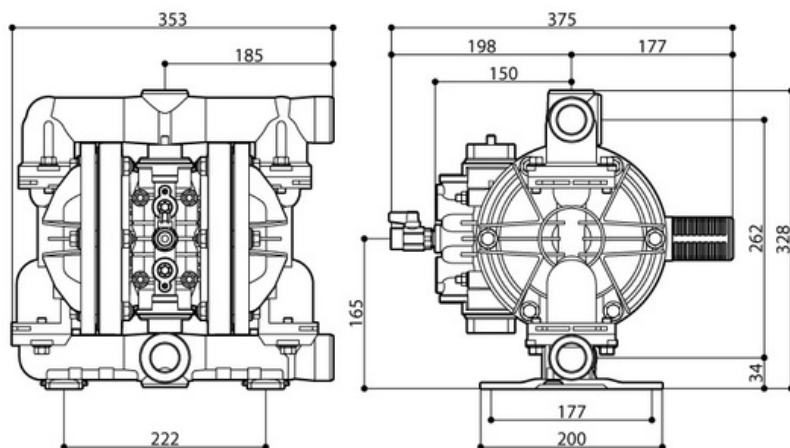
MODEL	250AC □ 250AC □ -A	250AN □ 250AN □ -A	250AE □ 250AE □ -A	250AV □ 250AV □ -A	250AT □ 250AT □ -A	250AH □ 250AH □ -A	250AS □ 250AS □ -A	250AW □ 250AW □ -A	250SC □ 250SC □ -A	250SN □ 250SN □ -A	250SE □ 250SE □ -A	250SV □ 250SV □ -A	250ST □ 250ST □ -A	250SH □ 250SH □ -A	250SS □ 250SS □ -A	250SW □ 250SW □ -A
Pump Wetted Parts	ADC12 • AC4C								SCS14							
Diaphragm	CR	NBR	EPDM	FKM	PTFE	TPEE	TPO	PTFE • EPDM	CR	NBR	EPDM	FKM	PTFE	TPEE	TPO	PTFE • EPDM
Valve Stopper	SCS14								SCS14							
Ball Valve	CR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE	CR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE
Valve Seat	CR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE	CR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE
Center Disk	SUS316				A5056	SUS316		-	SUS316							-
Weight	250A □□ : 11.0 kg [24.3 lbs]								250S □□ : 19.5 kg [43.0 lbs]							
	250A □□ -A : 12.5 kg [27.6 lbs]								250S □□ -A : 21.0 kg [46.3 lbs]							

MODEL	250FC □ 250FC □ -A	250FN □ 250FN □ -A	250FE □ 250FE □ -A	250FV □ 250FV □ -A	250FT □ 250FT □ -A	250FH □ 250FH □ -A	250FS □ 250FS □ -A	250FW □ 250FW □ -A
Pump Wetted Parts	S45C							
Diaphragm	CR	NBR	EPDM	FKM	PTFE	TPEE	TPO	PTFE • EPDM
Valve Stopper	SCS14							
Ball Valve	CR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE
Valve Seat	CR	NBR	EPDM	FKM	PTFE	NBR	EPDM	PTFE
Center Disk	SUS316							-
Weight	250F □ □ : 19.5 kg [43.0 lbs]							
	250F □ □ -A : 20.0 kg [44.1 lbs]							

Dimensional Drawings

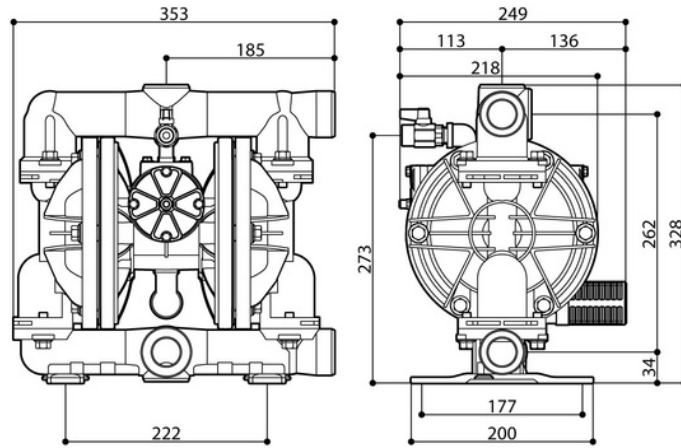
250A □ • S □

Plastic Air Motor Models

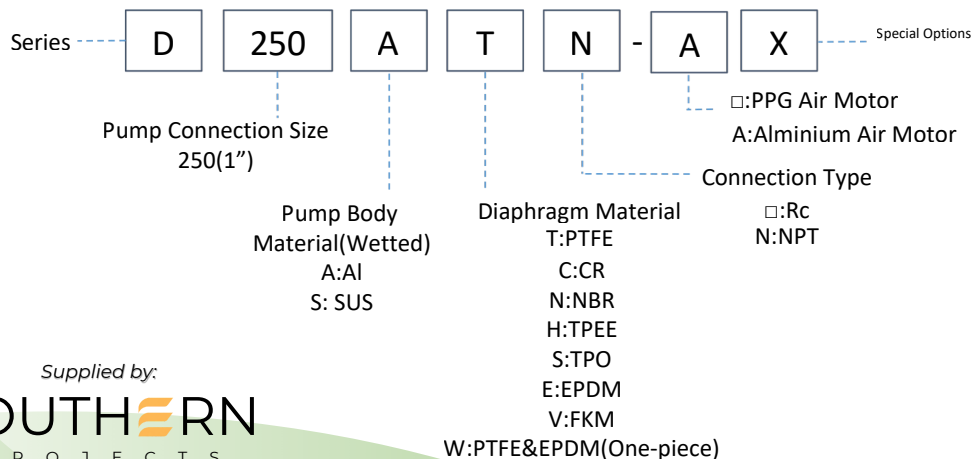


250A □ -A • S □

Metallic Air Motor Models



Nomenclature



D250A □
1" Aluminium Pump