

D1 HF Series Datasheet

SPRING-RETURN DIAPHRAGM PUMP WITH ASSISTED VACUUM SYSTEM

General Information

Mytho's D1 mechanical diaphragm pump series features a wide product range including the patented AVSTM - Automatic Vacuum System. AVSTM, which equips some D1 models, was created with the intention of improving the working conditions of the membrane as well as increasing and optimising pump performance.

The device makes the system self-calibrating which may be required when pump or ambient temperature rises. It is also valuable during membrane replacement as it affords improvements to volumetric efficiency (up to 55%), behaviour priming and suction head height (at constant preload) as well as reduced flow rate loss to vary the height of aspiration (maximum value found 2% per metre of the water column in the diaphragm version).

Furthermore, the cam mechanism has been refined to reduce noise and mechanical stress, even for 3.9 strokes/second (232 strokes per minute) models.



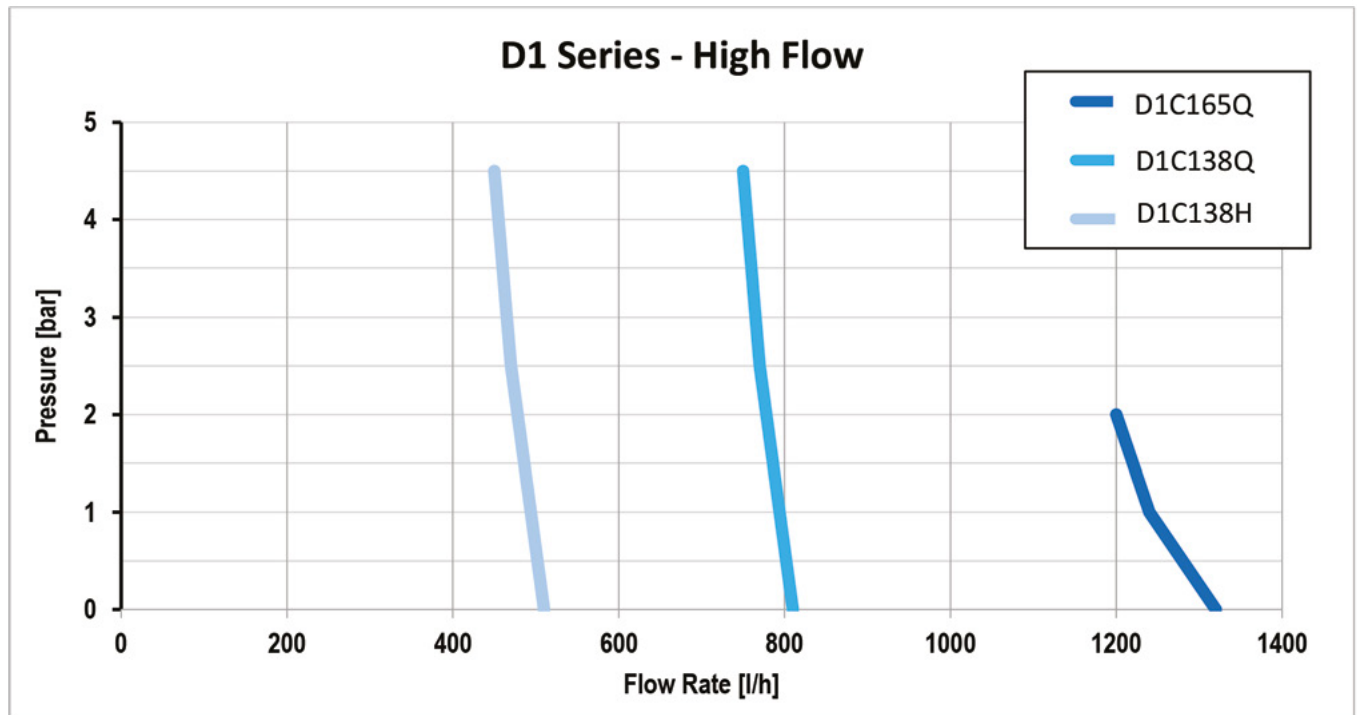
Features

- Flow rates: 450 - 1200 l/h
- Max. backpressure: up to 4,5 bar
- Max. backpressure: up to 16 bar
- Motor:
 - 0.55 kW - 3 ph (IP55)
 - 0.75 kW - 3 ph (IP55)
- Stroke rate: 156 - 232 strokes/minute
- Stroke length: 6 mm
- Diaphragm diameter: 138 - 165 mm
- Pump head:
 - SS316L
 - PP
 - PVC
 - PVDF
- Maximum dosing temperature:
 - SS 316 L 40°C
 - PP 40°C
 - PVC 40°C
 - PVDF 40°C
- For use in ambient temperatures between -5°C and +40°C

Applications

- Wastewater treatment
- Dairy
- CIP
- Fish farming
- Cooling towers
- Reverse osmosis
- Galvanic industry
- Irrigation

D1 HF Series performance curves



D1 Series hydraulic information

Model	Diameter [mm]	Stroke length [mm]	Frequency [stroke/1']	Flow rate [l/h]	Max pressure [bar]	Connections	Motor [kW/pole]	Weight [kg]	
								SS316L	Other
D1C138H*W200A	138	6	156	450	4.5	BSPF 1"	0.55/2 (W2)	18.5	12.5
D1C138Q*W200A			232	750				18.5	12.5
D1C165Q*W200A	165		232	1,200	2			22.0	13.5

D1 HF Series key code

Model								
D1								
	Stroke length							
	C	6 mm						
		Diaphragm diameter [Ømm]						
		165	165 mm					
		Reducer ratio		Stroke/min [2 poles motor]				
		H	18:1	156				
		Q	12:1	232				
			Liquid end	Pump head	Diaphragm	Valve	Seat	O-ring
			AA	SS316L		SS36L	SS36L	FPM
			PV	PVC		Ceramic	PTFE	FPM
			PP	PP		Ceramic	PTFE	FPM
			FF	PVDF		Ceramic	PVDF	FPM
			PA	PP	PTFE	SS36L	SS36L	FPM
			AE	S.S.316		SS36L	SS36L	EPDM
			PD	PP		Ceramic	PTFE	EPDM
			PE	PVC		Ceramic	PTFE	EPDM
			FE	PVDF		Ceramic	PVDF	EPDM
			Motor power		kW	Size	Power supply	
			S0	Without motor				
			W2	0,55		M71-B14	3PH 230/400V 50/60 Hz - TFC	
			Y2	0,75		M71-B14	1PH 230V - 50Hz	
			Stroke length regulation					
			0	Manual			[0-100% of stroke length]	
			L	Electric Actuator			[4-20mA input/output]	
			Customisation					
			0					
			Optional					
			A	Standard				
			2	S0 (without motor) + adapter Kit				
D1	C	165	Q	PP	W2	0	0	A