SALES & ENGINEERING DATA

66605X-XXX
1/2” NON-METALLIC DIAPHRAGM PUMP

DIMENSIONAL DATA

CONSTRUCTION

Model Series: 66605X-XX
Pump Type: Non-Metallic, Air Operated, Double Diaphragm
Ratio: 1:1
Material Inlet / Outlet (female): 1/2 - 14 N.P.T.F. - 1
Air Inlet (female): 1/4 - 18 N.P.T.F. - 1
Air Exhaust: Internal
Weight: Polypropylene 6.2 lbs (3.3 kgs)
Groundable Acetal 8.8 lbs (4.0 kgs)
Kynar PVDF 7.2 lbs (4.0 kgs)
Maximum Pressure: -60˚ to 280˚F (-51˚ to 138˚C)
Maximum Temperature Limits: E.P.R. -60˚ to 280˚F (-51˚ to 138˚C)
Fluid Section Service Kit is 637141
Fluid Section Service Kit is 637140-XX

PERFORMANCE

Air Inlet Pressure Range: 20 - 100 p.s.i. (1.4 - 6.9 bar)
Maximum Material Inlet Pressure: 10 p.s.i. (0.69 bar)
Fluid Pressure Range: 20 - 100 p.s.i. (1.4 - 6.9 bar)
Max Flow Rate (flushed inlet) ball check: 13 g.p.m. (49.2 l.p.m.)
Max Flow Rate (flushed inlet) duckbill: 10 g.p.m. (37.9 l.p.m.)
Max Particle Size: ball check 0.040 gal. (1.5 lit.)
Max Particle Size: duckbill 0.032 gal. (1.2 lit.)
Maximum Temperature Limits (diaphragm / ball / seal material)
E.P.R. -60˚ to 280˚F (-51˚ to 138˚C)
Groundable Acetal 10˚ to 180˚F (-12˚ to 82˚C)
Hytrel -20˚ to 150˚F (-29˚ to 66˚C)
Kynar PVDF 10˚ to 200˚F (-12˚ to 93˚C)
Neoprene 0˚ to 200˚F (-18˚ to 93˚C)
Nitrile 10˚ to 180˚F (-12˚ to 82˚C)
Polyurethane 35˚ to 150˚F (2˚ to 66˚C)
Polypropylene 35˚ to 275˚F (2˚ to 79˚C)
Polysulfide 10˚ to 200˚F (-12˚ to 66˚C)
Santoprene 0˚ to 200˚F (-12˚ to 66˚C)
PTFE 0˚ to 225˚F (40˚ to 107˚C)
Viton 0˚ to 350˚F (40˚ to 177˚C)
Displacement / Cycle @ 100 p.s.i.
ball check 0.040 gal. (0.15 lit.)
duckbill 0.032 gal. (0.12 lit.)
Noise Level @ 100 p.s.i.: 71.1 db(A)

ACCESSORIES:
66073-1 Air Line Connection Kit
93092 Exhaust Cover*
93107 Gasket*
93110 Muffler*

* External muffler for piped exhaust applications.

NOTES:
- Tested with 66972 muffler installed.
- The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (LAeq) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP 55.1 using four microphone locations.
- 666056-XXX models are constructed of a groundable acetal. The material's conductivity allows it to be connected to a suitable ground.

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PERFORMANCE CURVES

66605X-XXX 1/2” NON-METALLIC DIAPHRAGM PUMP

Performance based on water at ambient temperature.

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