

AquFlow®

Series 3000



Hydraulically Actuated Diaphragm Metering Pump (formerly HydroFlo)

Features:

- Design Capacities of 15.9 to 964 GPH
- Discharge Pressures to 675 PSIG
- Metering Accuracy of $\pm 1\%$
- 10:1 Turndown via Stroke Length
- Internal Hydraulic Relief Valve
- Modular Design With Multiple Options
- Specifically Matched Accessories



Series 3000 Performance Table

AquFlow Model Number	Capacity GPH (LPH)	Pressure PSIG (bars)	Speed (SPM)	Plunger Diameter	Connection (NPT)
CNIT 0829-0X018	15.9 (60.2)	700 (48)	29	1"	1/2"
CNIT 0858-0X018	31.9 (120.7)		58		
CNIT 0888-0X018	48.4 (183.2)		88		
CNIT 0812-0X018	54.4 (205.9)		117		
CNIT 0814-0X018	77.1 (291.8)		140		
CNIT 1029-0X018	25.0 (94.6)	405 (28)	29	1-1/4"	1/2"
CNIT 1058-0X018	50.0 (189.3)		58		
CNIT 1088-0X018	75.7 (286.5)		88		
CNIT 1012-0X018	100 (378.5)		117		
CNIT 1014-0X018	120 (454.2)		140		
CNIT 1229-0X018	35.9 (135.9)	265 (18)	29	1-1/2"	1/2"
CNIT 1258-0X018	71.8 (271.8)		58		
CNIT 1288-0X018	109 (412.6)		88		
CNIT 1212-0X018	145 (548.9)		117		
CNIT 1214-0X01A	173 (654.9)		140		
CNIT 1429-0X018	48.9 (185.1)	180 (12)	29	1-3/4"	1/2"
CNIT 1458-0X018	97.8 (370.2)		58		
CNIT 1488-0X018	148 (560.2)		88		
CNIT 1412-0X01A	197 (745.7)		117		
CNIT 1414-0X01A	236 (893.4)		140		
CNIT 1629-0X018	63.9 (241.9)	130 (9)	29	2"	1/2"
CNIT 1658-0X018	128 (484.5)		58		
CNIT 1688-0X01A	194 (724.4)		88		
CNIT 1612-0X01B	258 (976.6)		117		
CNIT 1614-0X01B	308 (1,165.9)		140		
CNIT 1829-0X018	80.8 (305.9)	95 (6)	29	2-1/4"	1/2"
CNIT 1858-0X018	161 (609.5)		58		
CNIT 1888-0X01A	245 (927.4)		88		
CNIT 1812-0X01B	326 (1,234.0)		117		
CNIT 1814-0X01C	390 (1,476.3)		140		
CNIT 2029-0X018	100 (378.5)	75 (5)	29	2-1/2"	1-1/2"
CNIT 2058-0X01A	200 (757.1)		58		
CNIT 2088-0X01B	300 (1,135.6)		88		
CNIT 2012-0X01C	400 (1,514.2)		117		
CNIT 2014-0X01C	482 (1,824.6)		140		

"X" denotes a required material code selection. X=4 for 316 SS, 5 for CA20, 6 for Hast. C, 8 for PVC and A for PVDF. Capacity at 60 Hz and 100 psi.

The AquFlow Series 3000 is a rugged, compact, hydraulically actuated diaphragm metering pump. The pump is available in simplex or duplex configuration, with independent capacity adjustment for each pumphead.

All drive parts are fully enclosed and operate in an oil bath which minimizes friction and wear while providing protection from harsh environments. A self-compensating hydraulic system assures diaphragm position and eliminates the need for troublesome vacuum breakers and refill valve.

The easy to read micrometer knob enables convenient capacity adjustment between 0-100% while the pump is operating or stopped. In addition to manual control, the pump can be supplied with optional automatic capacity control, making it possible for the pump to control the flow rate in proportion to various process signals. A simple, externally adjustable, internal hydraulic relief valve protects the pump and the process from pump induced overpressure situations.

AquFlow®

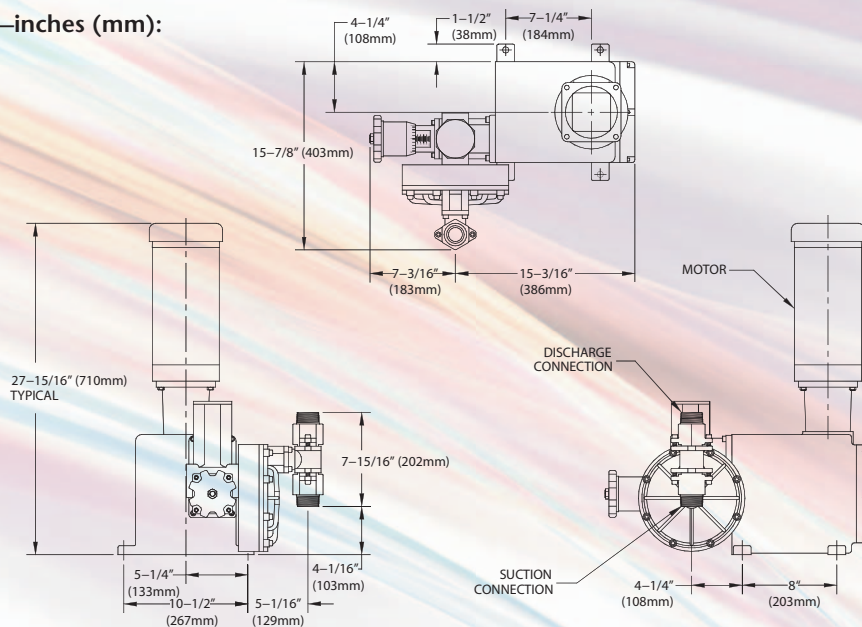
Series 3000

Hydraulically Actuated Diaphragm Metering Pump

Custom Features	Accessories	Motor (Drive) Options
Alternate Diaphragm Materials Automatic Capacity Control Double Diaphragm Liquid Ends Diaphragm Status Indication Liquid End Jacketing Low NPSHa Liquid Ends Remote Liquid Ends Tubular Diaphragm Liquid Ends - for Slurries	Calibration Columns Pulsation Dampeners HydroDrive™ Variable Speed Drives Back Pressure Valves Safety Relief Valves Injection Assemblies HydroMix™ Agitators HydroTank® Liquid Handling Package	AC - 115 / 230 / 460 Volts, 50 / 60 Hertz, Single or 3 Phase, TEFC, TENV or Explosion Proof DC - 12 / 24 / 90 / 180 Volts, TEFC, TENV or Explosion Proof

Component	Material Options				
Pumphead	316 SS	Alloy 20	Hastelloy® C	PVC	PVDF
Check Valve Body	316 SS	Alloy 20	Hastelloy® C	PVC	PVDF
Check Valve Seat	316 SS	Alloy 20	Hastelloy® C	PVC	PVDF
Check Valve Element	316 SS	Alloy 20	Hastelloy® C	Ceramic	Ceramic
Diaphragm	PTFE	PTFE	PTFE	PTFE	PTFE
Contour Plate	316 SS	Alloy 20	Hastelloy® C	PVC	PVDF
O-Rings	FKM	FKM	FKM	FKM	FKM
Oil Reservoir Cap	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Drive Housing	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

Dimensions—inches (mm):



Contact AquFlow / PumPortal for Air Operated Diaphragm, Solenoid, Sanitary and Pharmaceutical pump lines.



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