

P600 Pump Series

Capacities to 2634.0 LPH - Rated to 70 Bar

Electronic Precision Metering

- Designed to handle a wide range of fluids from clear water to thick slurries
- Electronic flow control increases accuracy and reliability
- Multiple diaphragm design provides linear, virtually pulse-less flow
- Smaller footprint saves valuable space
- One pump covers a wide range of flows and pressures - reducing inventory requirements with fast, simple field conversion
- Duplexing option doubles capacity and equipment savings
- Hydraulically-actuated, balanced diaphragms provide superior performance across entire pressure range
- Rugged construction with a variety of affordable choices for liquid end, diaphragm and check valve materials



Hydra-Cell Metering Solutions meet or exceed API 675 performance standards for Steady-State Accuracy ($\pm 1\%$), Linearity ($\pm 3\%$), and Repeatability ($\pm 3\%$).

Performance*

LPH Maximum Flow at Designated Pressure

LPH All Pumps		LPH Metallic Pump Heads Only		Pump RPM	Gear Ratio	Motor RPM
7 Bar	17 Bar	35 Bar	70 Bar			
68.14	68.04	66.92	63.09	14.5	100:1	1450
85.53	84.90	83.47	79.20	18.13	80:1	
113.9	113.0	111.0	106.0	24.17	60:1	
136.7	135.4	133.0	127.4	29	50:1	
170.8	169.0	166.1	159.6	36.25	40:1	
227.6	225.1	221.1	213.2	48.33	30:1	
273.0	270.0	265.2	256.1	58	25:1	
341.2	337.4	331.3	320.5	72.5	20:1	
454.9	449.6	441.4	427.7	96.67	15:1	
682.2	674.0	661.7	642.2	145	10:1	
909.5	898.4	882.0	856.7	193.33	7.5:1	
1364.1	1347.3	1322.6	1285.7	290	5:1	

* Capacity data is shown for pumps with elastomeric diaphragms. Consult factory for performance characteristics of pumps with PTFE diaphragms.

Required Motor kW

0.37	0.55	0.75	1.1
1.5	2.2	3.7	

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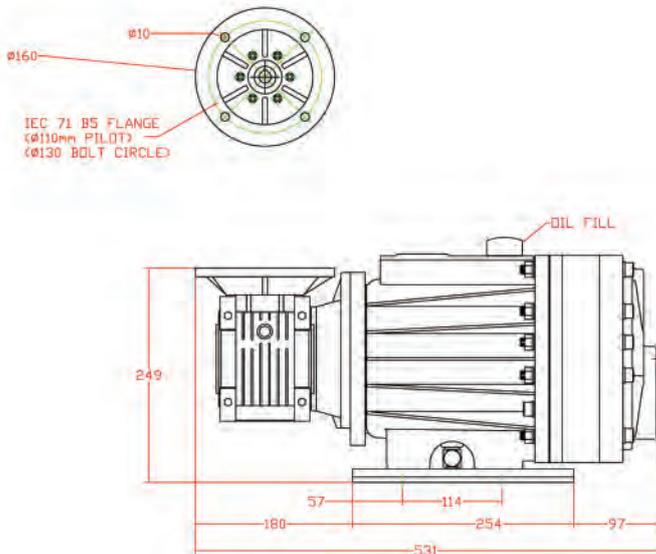
Pump Data

Diaphragms per Liquid End	3
Flow Control	Electronic variable speed drive
Maximum Discharge Pressure	
Metallic Head:	70 bar (1000 PSI)
Non-Metallic Head:	Polypropylene- 17 bar (250 PSI) Kynar- 24 bar (350 PSI)
Maximum Suction Pressure	17 bar (250 PSI)
Maximum Temperature	
Metallic Head:	121 °C (250 °F)*
Non-Metallic Head:	60 °C (140 °F)
Suction Port	1-1/2 inch BSPT
Discharge Port	1 inch BSPT
Weight (less motor)	
Metallic Head:	64 kg (141 lbs)
Non-Metallic Head:	48 kg (106 lbs)
Dimensions (less motor)**	
Metallic Head:	533 mm W x 272 mm D x 285 mm H (21.0" W x 10.7" D x 11.2" H)
Non-Metallic Head:	554 mm W x 272 mm D x 285 mm H (21.8" W x 10.7" D x 11.2" H)

*Consult factory for correct component selection for fluid temperatures above 71 °C (160 °F).

** For 71 B5 motor frame only. Consult factory for other motor frame sizes.

Representative Dimensional Drawings (in mm)



Hydra-Cell Metering Solutions pump systems are available with back pressure and relief valves, calibration cylinders, pulsation dampeners, manifolds and flanges, suction accumulators, custom controllers, strainers, a variety of actuating oils, witnessed and non-witnessed testing, drawing packages, and OEM paint and nameplate customization.

For information on the complete line of Hydra-Cell Metering Solutions pumps, contact us today.

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Pump Ordering Information

A complete pump order number contains 13 digits based on the specified pump materials listed below. Contact your Hydra-Cell sales representative for accompanying motor drive options.

1	2	3	4	5	6	7	8	9	10	11	12	13
P	6	0	0									

Pump Model Size (Digits 1-4)

P600 For all P600 Pumps

Pump Version (Digit 5)

M BSPT Ports
A ATEX Zone I (BSPT Ports)

Pump Head Material (Digit 6)

C Cast Iron
M Kynar®
P Polypropylene
S 316 Stainless Steel
T Hastelloy®C

Diaphragm & O-ring Material (Digit 7)

E EPDM
G Viton®-XT
J PTFE
P Neoprene
T Buna-N-XS

Check Valve Material (Digits 8-9)

(Valve Spring / Valve & Seat)

SS 316 SST / 316 SST
TT Hastelloy®C / Hastelloy®C
SC 316 SST / Ceramic
TC Hastelloy®C / Ceramic

Gearbox Ratio (Digits 10-12)

A00	100:l	(71 B5 Motor Frame)
A80	80:l	(71 B5 Motor Frame)
B80	80:l	(80 B5 Motor Frame)
A60	60:l	(71 B5 Motor Frame)
B60	60:l	(80 B5 Motor Frame)
A50	50:l	(71 B5 Motor Frame)
B50	50:l	(80 B5 Motor Frame)
A40	40:l	(71 B5 Motor Frame)
B40	40:l	(80 B5 Motor Frame)
A30	30:l	(71 B5 Motor Frame)
B30	30:l	(80 B5 Motor Frame)
B25	25:l	(80 B5 Motor Frame)
C25	25:l	(90 B5 Motor Frame)
B20	20:l	(80 B5 Motor Frame)
C20	20:l	(90 B5 Motor Frame)
B15	15:l	(80 B5 Motor Frame)
C15	15:l	(90 B5 Motor Frame)
B10	10:l	(80 B5 Motor Frame)
C10	10:l	(90 B5 Motor Frame)
D10	10:l	(100/112 B14 Motor Frame)
B07	7.5:l	(80 B5 Motor Frame)
C07	7.5:l	(90 B5 Motor Frame)
D07	7.5:l	(100/112 B14 Motor Frame)
B05	5:l	(80 B5 Motor Frame)
C05	5:l	(90 B5 Motor Frame)
D05	5:l	(100 B5 Motor Frame)

Base Plate (Digit 13)

H Carbon Steel (Epoxy painted)



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