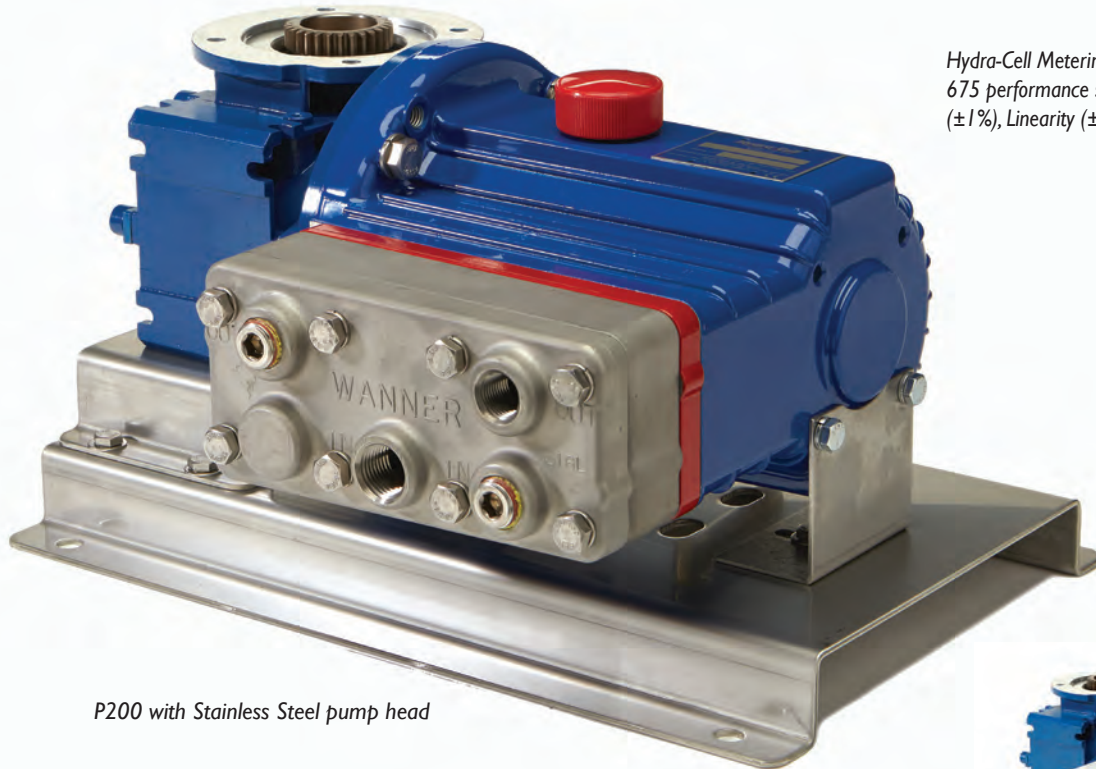


# Hydra·Cell<sup>®</sup>

## METERING SOLUTIONS™

### P200 Series

Maximum Flow Rate: 81.0 gph  
Maximum Pressure: 1000 psi (69 bar) for Metallic Pump Heads  
350 psi (24 bar) for Non-metallic Pump Heads



*P200 with Stainless Steel pump head*

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



*P200 with Polypropylene pump head*



*P200 with Brass pump head*

### Metering Pumps with “Pulse-Free” Linear Flow

- Handles a wide range of fluids from clear water to thick slurries
- Electronic flow control increases accuracy and reliability
- 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
- Seal-less design means no seals, cups, or packing to leak or replace
- A replenishment valve in every piston assembly ensures optimum actuating oil on every stroke for continuous accuracy

# P200 Series

## Performance Maximum Flow at Designated Pressure

All Pumps (gph)		Metallic Pump Heads Only (gph)		Pump rpm	Gear Ratio	Motor rpm
100 psi	250 psi	500 psi	1000 psi			
3.378	3.321	3.249	3.128	30	60:1	1800
4.059	3.994	3.911	3.776	36	50:1	
5.072	5.015	4.908	4.748	45	40:1	
6.758	6.686	6.555	6.353	60	30:1	
8.107	8.022	7.873	7.637	72	25:1	
10.130	10.027	9.849	9.563	90	20:1	
13.503	13.369	13.14	12.77	120	15:1	
20.248	20.052	19.73	19.19	180	10:1	
26.993	26.735	26.32	25.62	240	7.5:1	
40.483	40.101	39.49	38.46	360	5:1	
53.97	53.47	52.66	51.30	480	7.5:1	3600
80.95	80.20	79.01	76.98	720	5:1	

## Required Motor hp

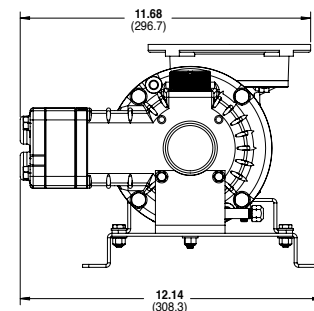
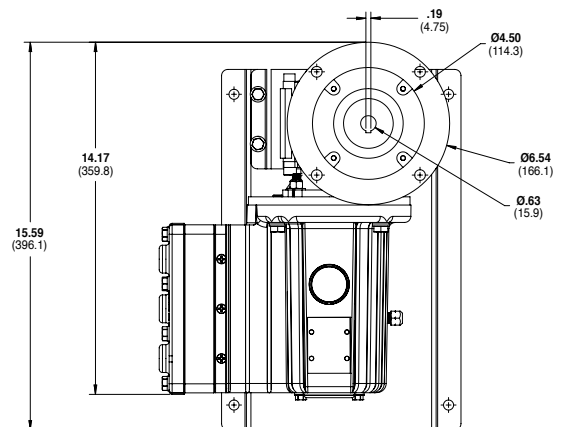
1/4	1/2	3/4	1
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## Pump Data

Diaphragms per Liquid End	3
Flow Control	Electronic variable speed drive
Maximum Discharge Pressure	
Metallic Heads:	1000 psi (69 bar)
Non-metallic Heads:	PVDF- 350 psi (24 bar)
	Polypropylene- 250 psi (17 bar)
Maximum Inlet Pressure	250 psi (17 bar)
Maximum Operating Temperature	
Metallic Heads:	250°F (121°C)*
Non-metallic Heads:	140°F (60°C)
Inlet Port	1/2 inch NPT or BSPT
Discharge Port	3/8 inch NPT or BSPT
Weight (less motor)	
Metallic Heads:	41.8 lbs (19.0 kg)
Non-metallic Heads:	32.8 lbs (14.9 kg)
Dimensions (less motor)	
Metallic Heads:	15.59" W x 11.68" D x 8.97" H (396.1 mm W x 296.7 mm D x 227.8 mm H)
Non-metallic Heads:	15.59" W x 12.06" D x 8.97" H (396.1 mm W x 306.3 mm D x 227.8 mm H)

\* Consult factory for correct component selection for temperatures from 160°F (71°C) to 250°F (121°C).

## Representative Drawings Inches (mm)



**Metallic Pump Heads**

# P200 Series

## How to Order

A complete pump order number contains 13 digits based on the specified pump materials listed below.

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

### Pump Model Size (Digits 1-4)

**P200** For all P200 Pumps (Non Kel-Cell)

### Pump Version (Digit 5)

**N** NPT Ports (NEMA motors only)  
**M** BSPT Ports (IEC motors only)

### Pump Head / Retainer Material (Digit 6)

**B** Brass / Hastelloy C  
**M** PVDF / PVDF  
**P** Polypropylene / Polypropylene  
**S** 316L Stainless Steel / Hastelloy C  
**T** Hastelloy C / Hastelloy C

### Diaphragm & O-ring Material / Oil (Digit 7)▲

**A** Aflas / PTFE O-rings (Synthetic oil)  
**M** Aflas / PTFE O-rings & FKM drive case elastomers (Mesamoll oil)  
**E** EPDM (EPDM-compatible oil)  
**X** FKM (Synthetic oil)  
**J** PTFE (Food-contact oil)  
**P** Neoprene (Synthetic oil)  
**T** Buna-N (Synthetic oil)

▲ See price list for different actuating oils available with these materials.

### Check Valve Material (Digits 8-9)

#### (Valve Spring / Valve Seat / Valve)

**SS** Elgiloy / 316L SST / Nitronic 50  
**TT** Hastelloy C / Hastelloy C / Hastelloy C  
**SC** Elgiloy / Ceramic / Ceramic  
**TC** Hastelloy C / Ceramic / Ceramic

### Gearbox Ratio (Digits 10-12) NEMA Motors

<b>060</b>	60:1	(56C Motor Frame)
<b>050</b>	50:1	(56C Motor Frame)
<b>040</b>	40:1	(56C Motor Frame)
<b>030</b>	30:1	(56C Motor Frame)
<b>025</b>	25:1	(56C Motor Frame)
<b>020</b>	20:1	(56C Motor Frame)
<b>015</b>	15:1	(56C Motor Frame)
<b>010</b>	10:1	(56C Motor Frame)
<b>007</b>	7.5:1	(56C Motor Frame)
<b>005</b>	5:1	(56C Motor Frame)

### Base Plate (Digit 13)

**C** Carbon Steel (Epoxy painted)  
**S** 316L Stainless Steel

## Accessories, Options & Services

Consult the Hydra-Cell Metering Solutions catalog for complete details about available accessories and options as well as special services.

- Manifolds and Flanges
- Multiplexing Capability
- Different Gearbox Ratios
- Oil Systems and Kits
- Actuating Oils
- Motors (Standard/Explosion-proof)
- Controllers
- Control Freak Touch-screen Metering Controller
- SmartDrive Motor-Controller
- Calibration Cylinders
- Back Pressure Valves
- Pressure Relief Valves
- Pulsation Dampeners
- Demonstration (Cutaway) Units
- Testing Services
- System Components, Priming Kits and Plugs
- Replacement Part Kits and Tool Kits
- Customization Services



Hydra-Cell Metering Solutions demonstration unit complete with the Control Freak™ touch-screen metering controller.

# Hydra·Cell<sup>®</sup>

## METERING SOLUTIONS™

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