

Exceed your metering pump expectations ...for less!

From clear water to thick slurry applications, seal-less Hydra-Cell® Metering Pumps are an extraordinary alternative metering solution:

- Electronic flow control achieves higher accuracy
- Smaller footprint saves valuable space
- Multiple diaphragm liquid end provides "pulse-free" linear flow
- One pump covers extremely wide range of flows and pressures, dramatically reducing inventory requirements with simple, fast field conversion capability
- Duplexing option doubles capacity and equipment savings
- Simple mechanical design reduces spares and maintenance costs
- Hydraulically-actuated, balanced diaphragms provide superior performance across entire pressure range
- Rugged, industrial construction increases reliability
- Affordable choices for liquid end, diaphragm and check valve materials

Performance Characteristics*

| | |
|------------------------------|---------------|
| Steady State Accuracy | ±1% or better |
| Linearity | ±3% or better |
| Repeatability | ±3% or better |

*Meets or exceeds API 675 performance standards.



The tradition continues...

Hydra-Cell® Pumps are renowned for their simplicity and versatility – excelling in wide-ranging and challenging fluid flow applications for nearly four decades. As the platform for our complete line of Hydra-Cell Metering Solutions pumps, they dramatically out-perform ordinary metering pumps with more features and lower costs of ownership.

The bottom line:

Switching to the most revolutionizing concept for metered flow on the market doesn't mean compromising performance for cost; it means increasing your bottom line through technology. With Hydra-Cell Metering Solutions, you just get more for less!

Performance* – GPH Maximum Flow at Designated Pressure

| GPH All Pumps | | GPH Metallic Pump Heads Only | | Pump RPM | Gear Ratio | Motor RPM |
|---------------|---------|------------------------------|----------|----------|------------|-----------|
| 100 PSI | 250 PSI | 500 PSI | 1000 PSI | | | |
| 1.70 | 1.60 | 1.40 | 0.90 | 18 | 100:1 | 1800 |
| 2.25 | 2.10 | 1.90 | 1.35 | 22.5 | 80:1 | |
| 3.00 | 2.80 | 2.60 | 2.00 | 30 | 60:1 | |
| 3.60 | 3.40 | 3.15 | 2.50 | 36 | 50:1 | |
| 4.75 | 4.45 | 4.15 | 3.40 | 45 | 40:1 | |
| 6.45 | 6.15 | 5.75 | 4.85 | 60 | 30:1 | |
| 7.60 | 7.30 | 6.90 | 6.00 | 72 | 25:1 | |
| 9.70 | 9.40 | 8.95 | 8.00 | 90 | 20:1 | |
| 13.00 | 12.70 | 12.25 | 11.30 | 120 | 15:1 | |
| 20.00 | 19.65 | 19.10 | 18.00 | 180 | 10:1 | |
| 26.50 | 26.10 | 25.50 | 24.00 | 240 | 7.5:1 | |
| 40.00 | 39.60 | 39.00 | 37.00 | 360 | 5:1 | |
| 53.80 | 53.40 | 52.80 | 50.20 | 480 | 7.5:1 | |
| 80.80 | 80.10 | 79.20 | 75.50 | 720 | 5:1 | |

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

Required Motor HP

| | | | |
|-----|-----|-----|---|
| 1/4 | 1/2 | 3/4 | 1 |
|-----|-----|-----|---|

Pump Data

| | |
|-----------------------------------|---|
| Diaphragms per Liquid End | 3 |
| Flow Control | Electronic variable speed drive |
| Maximum Discharge Pressure | |
| Metallic Head: | 1000 PSI (70 bar) |
| Non-Metallic Head: | Polypropylene- 250 PSI (17 bar) Kynar- 350 PSI (24 bar) |
| Maximum Suction Pressure | |
| | 250 PSI (17 bar) |
| Maximum Temperature | |
| Metallic Head: | 250°F (121°C)* |
| Non-Metallic Head: | 140°F (60°C) |
| Suction Port | 1/2 inch NPT or BSPT |
| Discharge Port | 3/8 inch NPT or BSPT |
| Weight (less motor) | |
| Metallic Head: | 39 lbs (17.7 kg) |
| Non-Metallic Head: | 30 lbs (13.6 kg) |
| Dimensions (less motor) | |
| Metallic Head: | 15.56" W x 12.23" D x 8.06" H (395 mm W x 311 mm D x 205 mm H) |
| Non-Metallic Head: | 15.56" W x 12.61" D x 8.06" H (395 mm W x 320 mm D x 205 mm H) |

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

P200 Series Pumps are just one part of a complete Hydra-Cell Metering Solution.

Contact your Hydra-Cell Sales Representative or visit our website at www.hydra-cell.com/metering for complete information on all of our metering solution products...



Motors, Motor Adapters, VFDs



Pressure Relief and Back Pressure Valves



Calibration Cylinders



Pulsation Dampeners

P200 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 and drive options.

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|
| 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

Pump Version (Digit 5)

N NPT Ports
M BSPT Ports

Pump Head Material (Digit 6)

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)

100 100:1 (56C Motor Frame)
080 80:1 (56C Motor Frame)
060 60:1 (56C Motor Frame)
050 50:1 (56C Motor Frame)
040 40:1 (56C Motor Frame)
030 30:1 (56C Motor Frame)
025 25:1 (56C Motor Frame)
020 20:1 (56C Motor Frame)
015 15:1 (56C Motor Frame)
010 10:1 (56C Motor Frame)
007 7.5:1 (56C Motor Frame)
005 5:1 (56C Motor Frame)

Base Plate (Digit 13)

C Carbon Steel (Epoxy painted)
S Stainless Steel

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