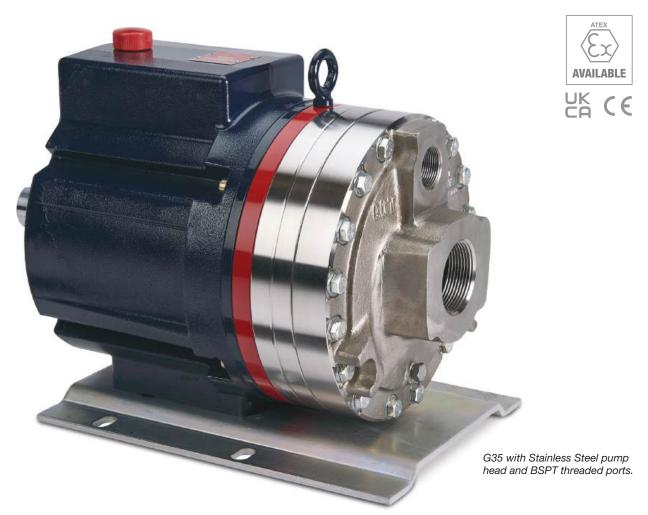
G35 PRO SERIES

Maximum Flow Rate: 138 l/min (36.5 USgpm)

Maximum Pressure: 83 bar (1200 psi) for Metallic Pump Heads 17 bar (250 psi) for Non-metallic Pump Heads

WANNER[™] HYDRA-CELL[®] PRO

SEAL-LESS PUMP TECHNOLOGIES



A higher standard of pump performance and energy efficiency.

- Integrates Wanner Hydra-Cell® Pro seal-less pump technologies for the highest levels of volumetric and energy efficiencies, up to 90% across the full rpm range.
- · Reliably handles a wide range of viscosities and shear sensitivities, corrosive liquids, abrasives, slurries and suspended solids.
- No mechanical dynamic seals, packing, or cups to leak, wear or replace - reduces maintenance, costs and downtime.
- Can run dry indefinitely without damage to the pump.

- Seal-less design API 674 pumps that also exceed API 675 standards for accuracy, linearity and repeatability.
- Pumped media is 100% contained prevents degradation, contamination and environmental risks.
- Patented ADPC (Advanced Diaphragm Position Control) and hydraulic oil management system protect diaphragms under closed or restricted inlet conditions.
- Reduced ownership costs acquisition, operation, service, maintenance, and energy use.



Capacities

| | | Max. Flow Capac | ities | Max. Inlet Pressure | | | | Max. Discharge Pressure | | | |
|-------|------------|-----------------|-----------|---------------------|-----------|--------------|---------|-------------------------|---------|-------------|--|
| | Max. Input | @83 bar (12009 | psi) Meta | llic Heads | I Non-Met | tallic Heads | Metalli | c Heads _I | Non-Met | allic Heads | |
| Model | rpm | l/min USgp | m bar | , psi | bar | psi | bar | psi | bar | psi | |
| G35-X | 1050 | 138 36.5 | 5 34 | 500 | 3.5 | 50 | 83 | 1200 | 17 | 250 | |
| G35-E | 1150 | 129 34.0 |) 34 | 500 | 3.5 | 50 | 83 | 1200 | 17 | 250 | |

Performance and specification ratings apply to G35 configurations unless specifically noted otherwise.

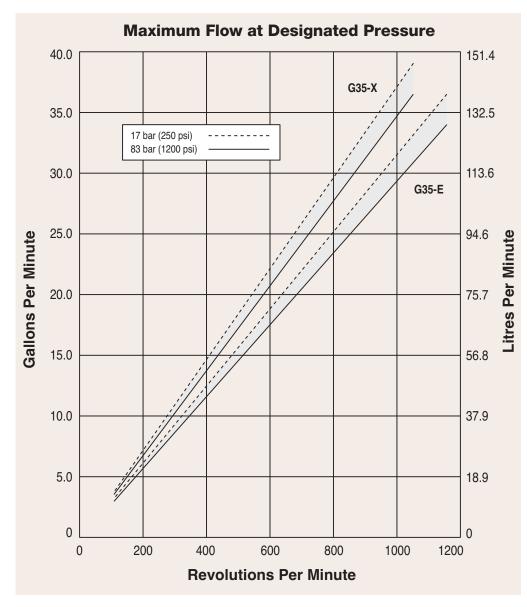
* Consult factory if operating above 83 bar (1200 psi).

Metering & Dosing

API 675 Performance Characteristics of Steady State Accuracy \pm 1%, Linearity \pm 3% and Repeatability \pm 3% can be achieved at speeds up to 960 rpm and pressures up to 69 bar (Metallic Head) and 24 bar (non-metallic pump heads)

Available to Meet API 674

Please contact Wanner International for further information.



Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.



• True positive displacement

pumping action achieves overall efficiency of >90%,

targeting improvements at

lower speeds and higher

pressures.

G35 Pro Series | Specifications

| Model | rpm | l/min | USgpm | | | | |
|--|--|---|-----------|--|--|--|--|
| G35-X | 960 | 126.00 | 33.30 | | | | |
| G35-E | 960 | 107.00 | 28.40 | | | | |
| low Capacities @ 83 | bar (1200 | psi) 8-pole Moto | r @ 50 Hz | | | | |
| Model | rpm | l/min | USgpm | | | | |
| G35-X | 730 | 95.90 | 25.30 | | | | |
| G35-E | 730 | 81.80 | 21.60 | | | | |
| Delivery @ 83 bar (120 | 00 psi) | | | | | | |
| Model | | litres/rev | gal/rev | | | | |
| G35-X | | 0.1314 | 0.0347 | | | | |
| G35-E | | 0.1120 | 0.0296 | | | | |
| laximum Discharge | Pressure | | | | | | |
| Metallic Heads: | 83 bar (1 | 83 bar (1200 psi) @ 1050 rpm max. (X cam) | | | | | |
| 83 bar (1200 psi) @ 1150 rpm max. (E car | | | | | | | |
| Non-metallic Heads: | 17 bar (2 | 50 psi) Polyprop | ylene | | | | |
| laximum Inlet Press | sure | | | | | | |
| Metallic Heads: | 34 bar (500 psi) | | | | | | |
| Non-metallic Heads: | 3.5 bar (50 psi) | | | | | | |
| Aaximum Operating | Temperatu | ır | | | | | |
| Metallic Heads: | 121°C (250°F) - Consult factory for correct component selection for temperatures from 71°C (160°F) to 121°C (250°F). | | | | | | |
| Non-metallic Heads: 49°C (120°F) Polypropylene | | | | | | | |
| Maximum Solids Size | e 800 micr | ons | | | | | |
| nlet Port | | | | | | | |
| Metallic Heads: | 2-1/2 inch BSPT | | | | | | |
| | 2-1/2 inch NPT | | | | | | |
| | 150lb or 600lb ANSI RF Flange | | | | | | |
| | 3 inch SAE | | | | | | |
| Non-metallic Heads: | 2-1/2 inch SAE J518 | | | | | | |

| 100 x rpm 63,000 | + | gpm x psi 1,460 | = electric motor hp |
|---------------------|---|--------------------|---------------------|
| 100 x rpm 84,428 | + | l/min x bar 511 | = electric motor kW |

Attention!

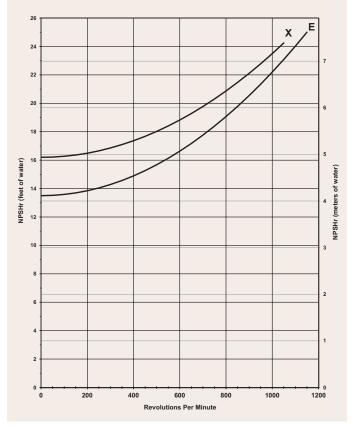
When using a variable frequency drive (VFD) controller, calculate the hp or kW at minimum and maximum pump speed to ensure the correct hp or kW motor is selected. Note that motor manufacturers typically de-rate the service factor to 1.0 when operating with a VFD.

Calculating Pulley Size

| motor pulley OD | = | pump pulley OD | | |
|-----------------|---|----------------|--|--|
| pump rpm | _ | motor rpm | | |

| Discharge Port | | | | | |
|---------------------|--------------------------------|--|--|--|--|
| Metallic Heads: | 1-1/4 inch BSPT | | | | |
| | 1-1/4 inch NPT | | | | |
| | 600lb or 1500lb ANSI RF Flange | | | | |
| | 1-1/4 inch SAE | | | | |
| Non-metallic Heads: | 1-1/2 inch SAE J518 | | | | |
| Shaft Diameter | 50.8 mm (2 inch) | | | | |
| Shaft Rotation | Reverse (bi-directional) | | | | |
| Bearings | Tapered roller bearings | | | | |
| Oil Capacity | 7.3 litres (7.75 US quarts) | | | | |
| Weight | | | | | |
| Metallic Heads: | 116.6 kg (257 lbs.) | | | | |
| Non-metallic Heads: | 87.6 kg (193 lbs.) | | | | |

Net Positive Suction Head (NPSHr)



Suction Lift

Each Hydra-Cell pump has different lift capability depending on model size, cam angle, speed, and fluid characteristics. To ensure that your specific lift characteristics are met, refer to the inlet calculations regarding friction, and acceleration head losses in your Hydra-Cell Product Manual. Compare those calculations to the NPSHr curves above.

Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.

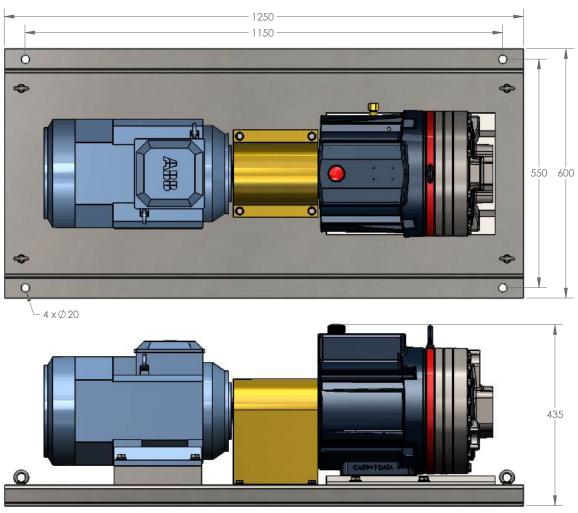


Baseplate Assembly Long-coupled for IEC 132 Motor Frame



Dimensions in mm

G35 - IEC 132



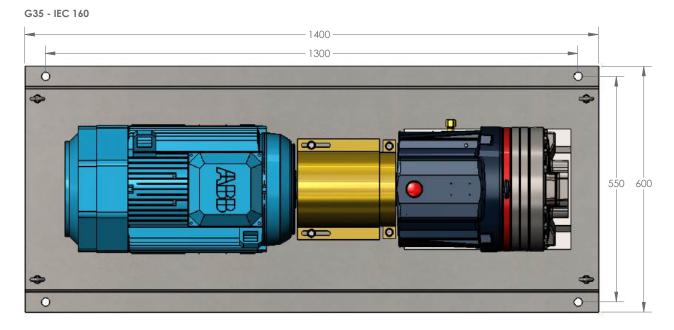
Unit Weight Approx - 261 Kg

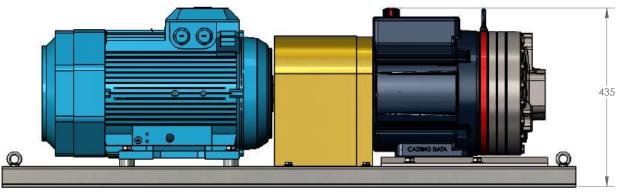


Baseplate Assembly Long-coupled for IEC 160 Motor Frame



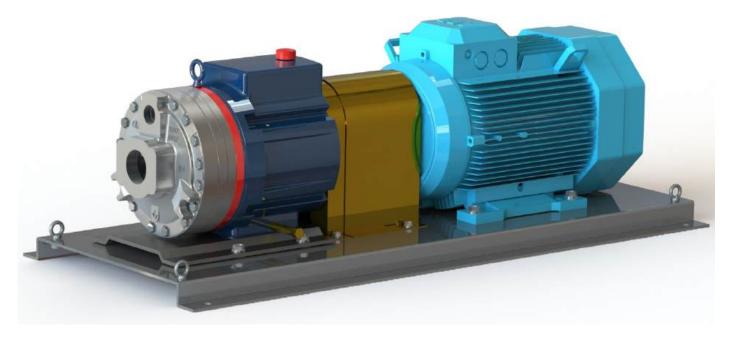
Dimensions in mm



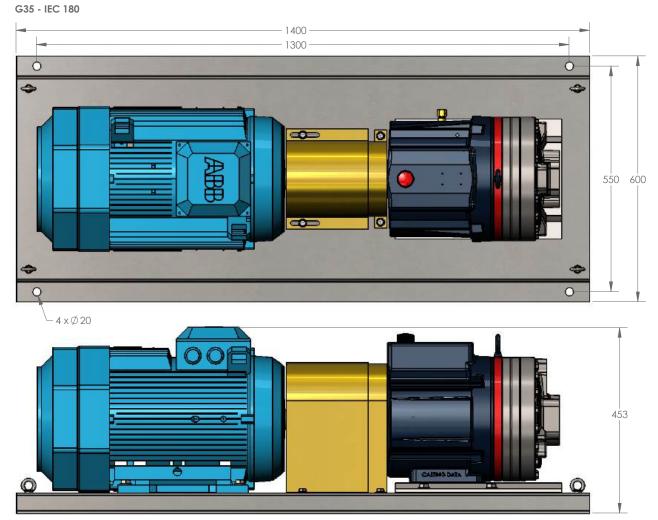


Unit Weight Approx - 358 Kg

Baseplate Assembly Long-coupled for IEC 180 Motor Frame



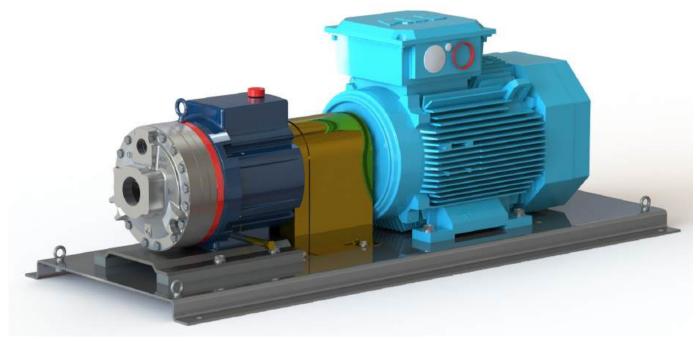
Dimensions in mm



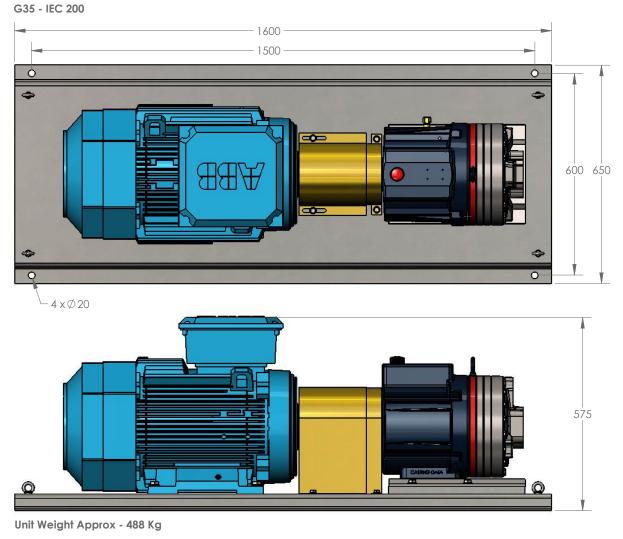
Unit Weight Approx - 393 Kg



Baseplate Assembly Long-coupled for IEC 200 Motor Frame

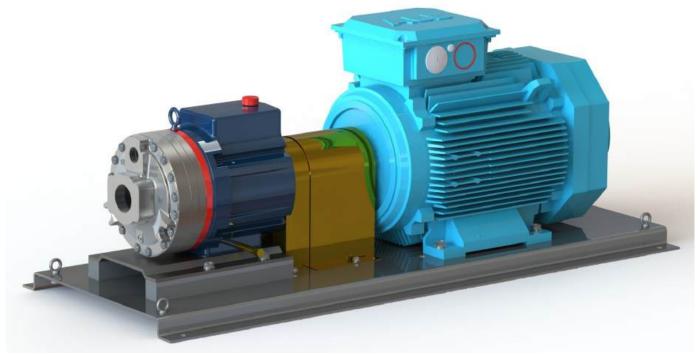


Dimensions in mm

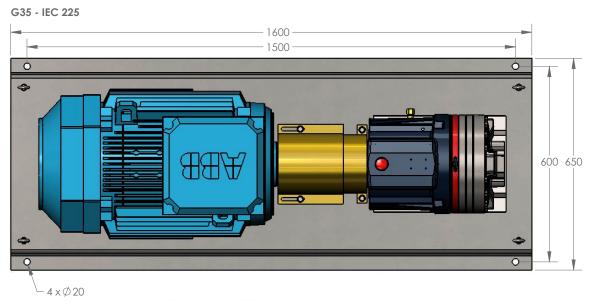


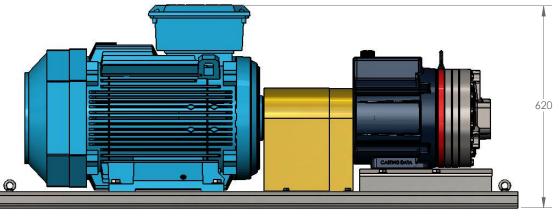


Baseplate Assembly Long-coupled for IEC 225 Motor Frame

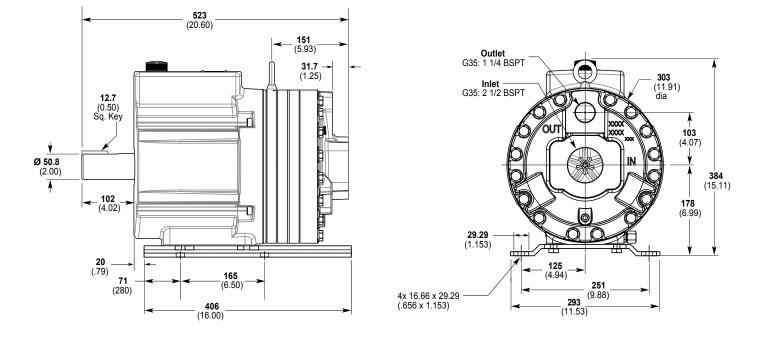


Dimensions in mm



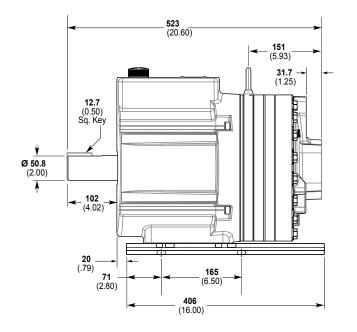


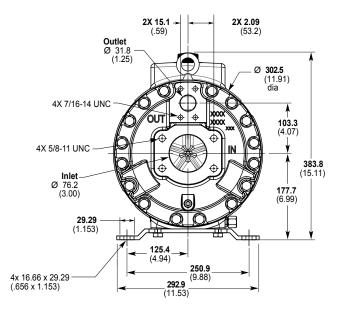




G35 Models with BSPT Inlet/Outlet Ports mm (Inches)

G35 Models with SAE Flange Inlet/Outlet Ports mm (Inches)

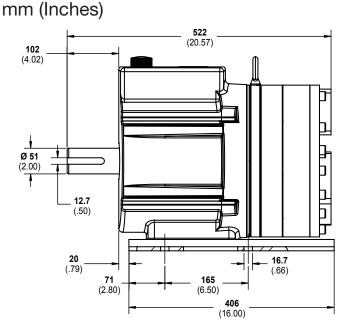


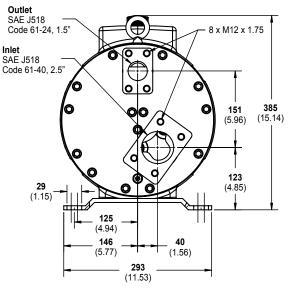


Note: Dimensions are for reference only. Contact factory for certified drawings.

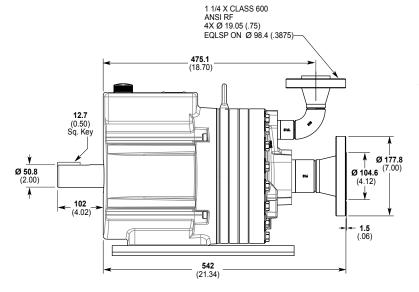


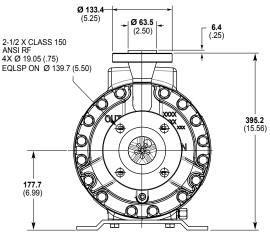
G35 Non-metallic Pump Head with SAE Flange Inlet/Outlet Ports





G35 Models with ANSI RF Flange Inlet/Outlet Ports mm (Inches)





Valve Selection

A seal-less C64 Pressure

Regulating Valve is recommended for Hydra-Cell G35 pumping systems, especially for highpressure requirements or when handling dirty fluids.



A C24 Pressure Regulating Valve

provides a capable, lowercost alternative to C64 valves for Hydra-Cell G35 pumping systems.



Note: Dimensions are for reference only. Contact factory for certified drawings.



HYDRA-CELL.CO.UK

Contact Wanner International for:

- Motors, bases, couplings and other pump accessories
- Hydra-Oil selection and specification information
- Design considerations, installation guidelines, and other technical assistance in pump selection
- Process liquid end built with NACE and 3.1 traceable material certification



G35 with with 316L Stainless Steel pump head.



G35 with Brass pump head.



G35 with Polypropylene pump head.



G35 with 316L Stainless Steel pump head and ANSI flanges.



Ordering Information

A complete G35 Series Model Number contains 12 digits including 10 customer-specified design and materials options, for example: G35XKBTHFECA.



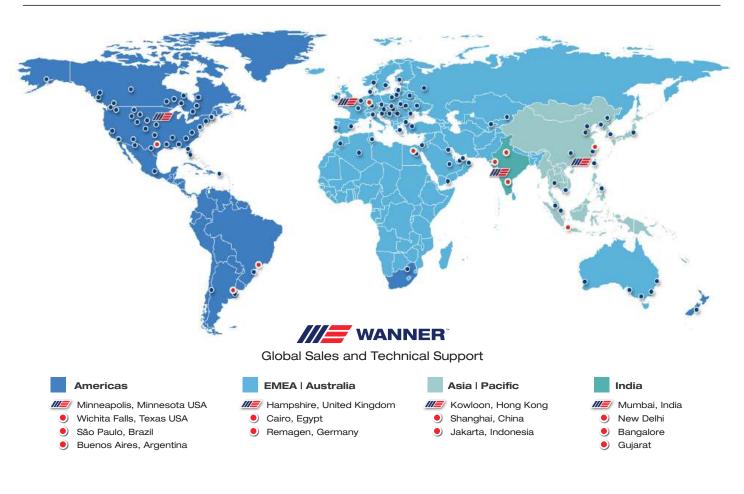
| Digit | Order Code | Description | Digit | Order Code | Description | |
|-------|---------------|---|--|---------------|--|--|
| 1-3 | | Pump Configuration | 9 | | Valve Material | |
| | G35 | Shaft-driven (BSPT Ports) | | C | Ceramic | |
| | D35 | Shaft-driven (NPT Ports or ANSI Flanges or | | D | Tungsten Carbide (900 rpm max.) | |
| | | SAE Flanged Ports) | | F | 17-4 Stainless Steel | |
| 4 | | Hydraulic End Cam | | Ν | Nitronic 50 | |
| | Х | Max 138 I/min (36.5 USgpm) @ 1050 rpm | | Т | Hastelloy C | |
| | E | Max 129 I/min (34.0 USgpm) @ 1150 rpm | 10 | | Valve Springs | |
| 5 | | Pump Head Version | | Е | Elgiloy | |
| | Р | Hydra-Cell Pro | | Т | Hastelloy C | |
| | E | Hydra-Cell Pro SAE Flanged Ports | 11 | | Valve Spring Retainers | |
| | | See lower right for ATEX Certification Kit Options. | | C | Celcon | |
| 6 | В | Pump Head Material Brass | | Н | 17-7 Stainless Steel (used with metallic heads only) | |
| | C | Ductile Iron (Nickel-plated) | | М | PVDF | |
| | G | Duplex Alloy 2205 Stainless Steel (with | | Р | Polypropylene | |
| | | Hastelloy C followers & follower screws) | | т | Hastelloy C (used with metallic heads only) | |
| | S | 316L Stainless Steel (Threaded or SAE Ports) | | Y | Nylon (Zytel) | |
| | Ν | Polypropylene (with Hastelloy C screws & | 12 | | Hydra-Oil | |
| | | follower screws) SAE Flanges only ATEX not available for Polypropylene pump heads. | | Α | 10W30 standard-duty oil | |
| | Q | 316L Stainless Steel ANSI flange class 600 x 1500 | | В | 40-wt for continuous-duty oil (use with 316L SST or Hastelloy CW12MW pump head - standard) | |
| | R | 316L Stainless Steel ANSI flange class 150 x 600 | | D | EPDM-compatible oil | |
| | 1 | 316L Stainless Steel AS Cast custom ANSI | | Е | Food-contact oil | |
| | | or DIN flanges | | G | 5W30 cold-temp severe-duty synthetic oil | |
| | T | Hastelloy CW12MW | | Н | 15W50 high-temp severe-duty synthetic oil | |
| 7 | | Diaphragm & O-ring Material | | | | |
| | Α | Aflas diaphragm / PTFE o-ring | | • | sing is standard as Cast Aluminum. | |
| | E | EPDM (requires EPDM-compatible oil - Digit 12 oil code D) | Upgra | ide to Ducti | le Iron available. | |
| | G | FKM | | | | |
| | J | PTFE (available with E cam only; 960 rpm max) | | | | |
| | K | FFKM diaphragm / PTFE o-ring | ATE | | X Certification Kit Options | |
| | Р | Neoprene | 3 | Y / | eparate line on your order, please add the | |
| | Т | Buna-N | required ATEX Certification Kit Option. | | | |
| 8 | | Valve Seat Material | | | X 2014/34/EU Certified, Category 2, Zone 1 | |
| | C | Ceramic | | | X 2014/34/EU Certified, Category 3, Zone 2 | |
| | D | Tungsten Carbide (900 rpm max.) | | | de Certificate, Oil Level Monitor or Sight Glass, Earth | |
| | Н | 17-4 Stainless Steel | Stud & Secondary ATEX Label. | | | |
| | Ν | Nitronic 50 | • Extra oil is required to fill the oil bowl during installation of ATEX pumps. This oil is not included and must be ordered separately. | | | |
| | Т | Hastelloy C | | , | ······································ | |



WANNER[™] HYDRA-CELL[®] PRO

SEAL-LESS PUMP TECHNOLOGIES

Partners in over 70 countries



Wanner worldwide

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