# APEX10

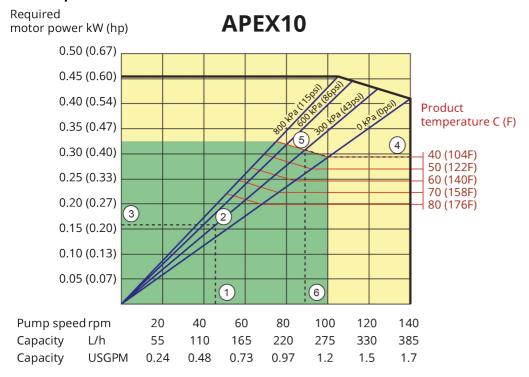
APEX hose pumps



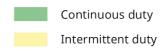
#### **Features and benefits**

- Seal-less, valve-less design
- Precision machined hose elements for accurate, repeatable performance
- Optimized hose compression for unmatched flow stability
- Direct-coupled drive and maximum flexibility no separate couplings to align or maintain
- Ultra compact design with flexibility to mount standard gear motors rotor supported by own bearings to maximize gearbox life
- Lower maintenance costs single component change means fewer spare parts inventory

### **APEX10** performance



- 1. Flow required indicates pump speed
- 2. Calculated discharge pressure
- 3. Net motor power required
- 4. Product temperature
- 5. Calculated discharge pressure
- 6. Maximum recommended pump speed



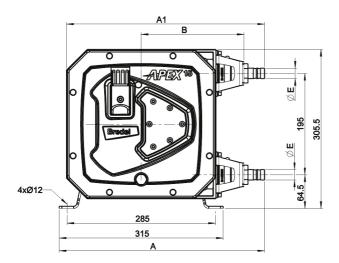
\* Maximum 3 hours operation followed by minimum 1 hour stop

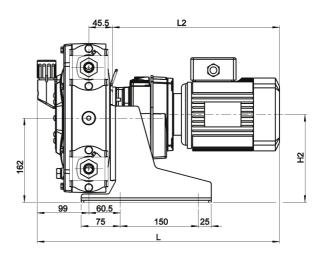
## **Technical specifications**

|                                   | APEX10                                  |
|-----------------------------------|---|
| Max. flow rate continuous         | 275 L/h                                 |
| Max. flow rate continuous         | 73 USGPH                                |
| Max. flow rate intermittent       | 385 L/h                                 |
| Max. flow rate intermittent       | 102 USGPH                               |
| Volume per revolution             | 0.046 L                                 |
| Volume per revolution             | 0.0122 USG                              |
| Max. continuous operating speed   | 100 rpm                                 |
| Max. intermittent operating speed | 140 rpm                                 |
| Max. operating pressure           | 8 bar                                   |
| Max. operating pressure           | 116 psi                                 |
| Suction pressure                  | 0.05 bar abs                            |
| Suction pressure                  | 0.73 psi abs                            |
| Max. inlet pressure               | 2 bar abs                               |
| Max. inlet pressure               | 30 psi abs                              |
| Operating temperature range       | -20 to 45 °C                            |
| Operating temperature range       | -4 to 113 °F                            |
| Fluid temperature range           | -20 to 80 °C                            |
| Fluid temperature range           | -4 to 176 °F                            |
| Min. starting torque              | 48 N m                                  |
| Min. starting torque              | 425 in.lbs                              |
| Weight                            | 40 kg                                   |
| Weight                            | 88 lbs                                  |
| Hose lubricant required           | 1L                                      |
| Hose lubricant required           | 0.26 USG                                |
| Port configurations               | Down, Left, Right, Up                   |
| Compatible hose materials         | CSM, EPDM, F-NBR, NBR, NBR for food, NR |
| Flange assembly type              | ANSI, DIN                               |

## **Materials of construction**

|                        | APEX10   |  |  |  |
|------------------------|--|--|--|--|
| Hose material          | CSM, EPDM, F-NBR, Natural rubber (NR), NBR, NBR for food |  |  |  |
| Housing                | Die-cast aluminum (RAL 3011)                             |  |  |  |
| Rotor assembly         | Cast iron  |  |  |  |
| Cover assembly         | Die-cast aluminum, EPDM, PMMA                            |  |  |  |
| Brackets and fasteners | Stainless steel 316                                      |  |  |  |
| Support frame          | Galvanised steel   |  |  |  |
| Hose clamps            | Stainless steel 316                                      |  |  |  |
| Coupling bush          | Alloy steel  |  |  |  |
| Seals                  | EPDM, NBR  |  |  |  |





|                 | Α     | A1    | В     |      | E        | H2max  | Lmax  |      | L2max |  |
|-----------------|-------|-------|-------|------|----------|--------|-------|------|-------|--|
| APEX10 (mm)     | 388.5 | 374.5 | 197.5 |      | Ø16      | 170    | 545.5 |      | 401   |  |
| APEX10 (inches) | 15.3  | 17.7  | 7.8   |      | 1/2" NPT | 6.7    | 21.5  |      | 15.8  |  |
| Connector sizes |       |       |       | MNPT |          | EN DIN |       | JIS  |       |  |
| APEX10          |       |       |       | 0.5" |          | 10mm 1 |       | 10mm | mm    |  |

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