

# CIP 40

Bredel CIP hose pumps

**Bredel**

Hose Pumps

## Features and benefits

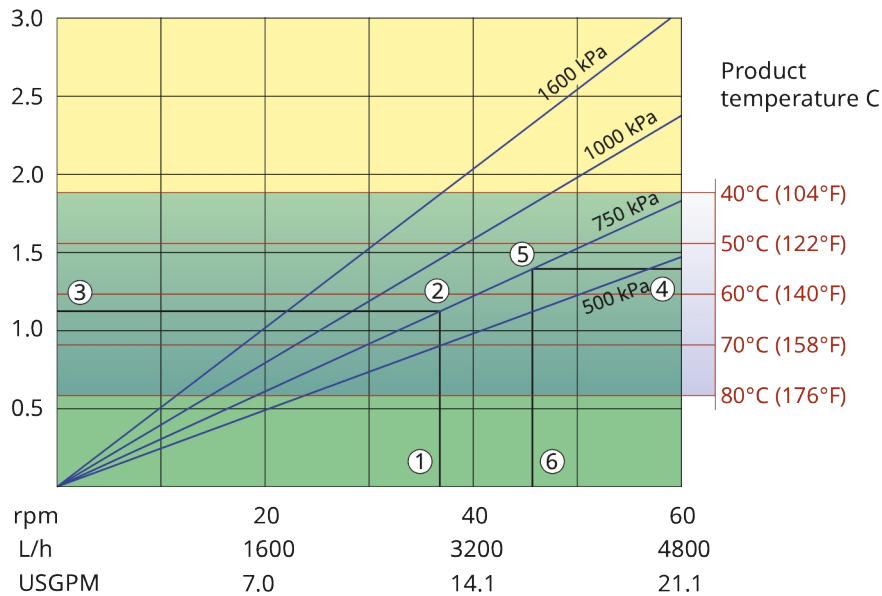
- 3A and FDA certified
- Food approved NBR pump hose, with NSF® registered food grade lubricant
- Stainless steel sanitary connectors range includes DIN, ASA or JIS
- Shoes on the rotor retract automatically for cleaning of pump element inside
- Cam actuated electrically, pneumatically or manually
- Maximum sterilization temperature 120 °C
- Bredel CIP 40 flow rates up to 42 GPM (4,800 L/h), pressures up to 232 psi



## CIP 40 performance

### Bredel CIP 40

Required  
motor power kW



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

- Continuous duty
- Intermittent duty

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

## Technical specifications

|                                    | CIP 40                                                        |
|------------------------------------|---------------------------------------------------------------|
| Max. flow rate continuous          | 1263 USGPH (4788 L/h)                                         |
| Max. flow rate intermittent        | 1263 USGPH (4788 L/h)                                         |
| Volume per revolution              | 0.35 USG (1.33 l)                                             |
| Max. continuous operating speed    | 60 rpm                                                        |
| Max. intermittent operating speed  | 60 rpm                                                        |
| Max. operating pressure            | 232 psi (16 bar)                                              |
| Max. suction capability            | 374 inWC (9.5 mWC)                                            |
| Suction capability (80% Flow rate) | 354 inWC (9 mWC)                                              |
| Operating temperature              | -4 °F to 113 °F (-20 °C to 45 °C)                             |
| Fluid temperature                  | -4 °F to 176 °F (-20 °C to 80 °C)                             |
| Min. starting torque               | 2832 in.lbs (320 N m)                                         |
| Weight                             | 386 lbs (175 kg)                                              |
| Pumphead weight                    | 306 lbs (139 kg)                                              |
| Hose lubricant required            | 2.6 USG (10 l)                                                |
| Port configurations                | Down, Left, Right, Up                                         |
| Compatible hose materials          | CSM, EPDM, F-NBR, NBR, NBR for food, NR-Metering, NR-Transfer |
| Flange assembly type               | ANSI, DIN, JIS                                                |
| Sanitary connector options         | DIN 11851, DIN 11864, IDF, RJT, SMS, Tri-clamp                |

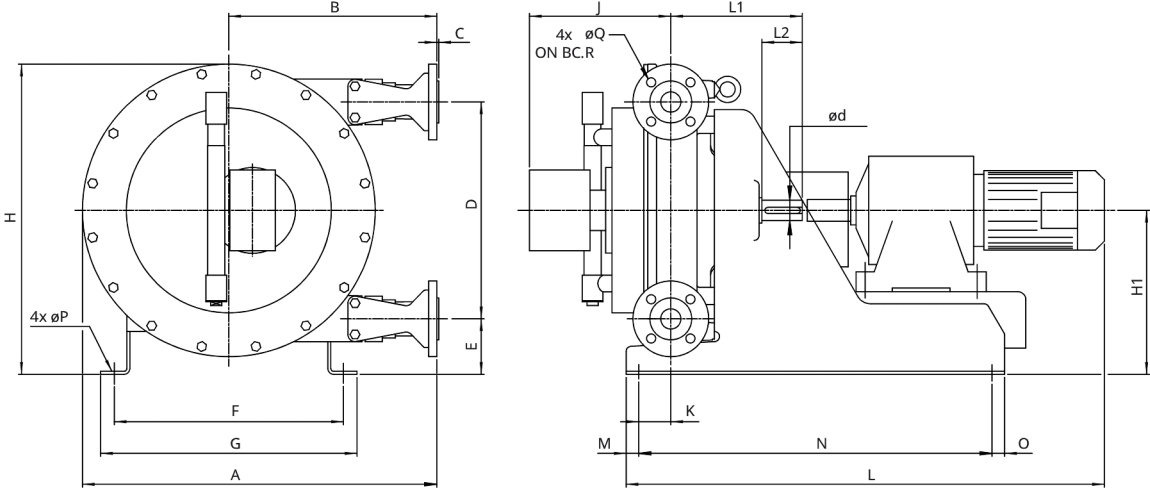
Please consult your Bredel representative for lower or higher temperature operation.

Allowable ambient temperature is based on pump capabilities and may be further limited by gearbox ambient capabilities.

## Materials of construction

|                        | CIP 40                                                         |
|------------------------|----------------------------------------------------------------|
| Hose material          | CSM, EPDM, F-NBR, NBR, NBR for food, NR Endurance, NR-Transfer |
| Housing                | Cast iron                                                      |
| Rotor assembly         | Cast iron                                                      |
| Cover assembly         | Cast iron                                                      |
| Brackets and fasteners | Galvanized steel, Stainless steel 316                          |
| Support frame          | Galvanized steel, Stainless steel 316                          |
| Hose clamps            | Galvanized steel, Stainless steel 316                          |
| Seals                  | NBR                                                            |

CIP 40 dimensions



| Type                   | A    | B    | C   | C   | D    | Ød   | E   | F    | G    | H    | H1   | Jmax | K   | L | L1   | L2  | M   | N    | O   | Q   | R   |
|------------------------|------|------|-----|-----|------|------|-----|------|------|------|------|------|-----|---|------|-----|-----|------|-----|-----|-----|
| Bredel CIP 40 (mm)     | 702  | 412  | 2.5 | 10  | 430  | 40   | 110 | 454  | 508  | 615  | 325  | 414  | 64  | * | 260  | 80  | 25  | 700  | 25  | 18  | 110 |
| Bredel CIP 40 (inches) | 27.6 | 16.2 | 0.1 | 0.4 | 16.9 | 1.57 | 4.3 | 17.9 | 20.0 | 24.2 | 12.8 | 16.3 | 2.5 | * | 10.2 | 3.1 | 1.0 | 27.6 | 1.0 | 0.7 | 4.3 |

Product codes

Disclaimer: The information contained in this document is believed to be correct at the time of publication, but Watson-Marlow Bredel BV accepts no liability for any error it contains, and reserves the right to alter specifications without prior notice. All mentioned values in this document are values under controlled circumstances at our test bed. Actual flow rates achieved may vary because of changes in temperature, viscosity, inlet and discharge pressures and/or system configuration. APEX, DuCoNite, Bioprene and Bredel are registered trademarks.



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