

## DESIGN ENVELOPE 4200H | END SUCTION BASE MOUNTED SPLIT-COUPLED | 0408-040.0 | SUBMITTAL

**File No:** 100,3280  
**Date:** APRIL 18, 2016  
**Supersedes:** NEW  
**Date:** NEW

Job: \_\_\_\_\_ Representative: \_\_\_\_\_

Order No: \_\_\_\_\_ Date: \_\_\_\_\_

Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

### PUMP DESIGN DATA

No. of pumps: \_\_\_\_\_ Tag: \_\_\_\_\_

Capacity: \_\_\_\_\_ USgpm (L/s) Head: \_\_\_\_\_ ft (m)

Liquid: \_\_\_\_\_ Viscosity: \_\_\_\_\_

Temperature: \_\_\_\_\_ °F (°C) Specific gravity: \_\_\_\_\_

Suction: 6" (150mm) Tapped holes

Discharge: 4" (100mm) Flanged

**UL STD 778 & CSA STD C22.2 NO.108 certified**

### MOTOR DESIGN DATA

HP: 40 RPM: 3600 Frame size: 324TSC Enclosure: TEFC

Volts: \_\_\_\_\_ Hertz: 60 Hz Phase: 3

Efficiency: NEMA premium 12.12

### MAXIMUM PUMP OPERATING CONDITIONS

#### ANSI 125

175 psig at 140°F (12 bars at 60°C)

100 psig at 300°F (7 bars at 149°C)

#### ANSI 250

375 psig at 100°F (26 bars at 38°C)

275 psig at 300°F (19 bars at 149°C)

- Tolerance of  $\pm 0.125"$  ( $\pm 3$  mm) should be used
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and  $\frac{1}{4}"$  NPT suction and discharge gauge ports

### OPTIONAL EQUIPMENT

### CONTROLS DATA

**Sensorless Control:** Standard

**Minimum system pressure to be maintained:** \_\_\_\_\_ ft (m)\*

**Protocol (standard):**  Modbus RTU  BACnet™ MS/TP  
 Johnson® N2  Siemens® FLN

**Protocol (optional):**  LonWorks®

**Enclosure:**  Indoor - UL TYPE 12

**Fused disconnect switch:**

**EMI/RFI control:** Integrated filter designed to meet EN61800-3

**Harmonic suppression:** Dual DC-link reactors (Equivalent: 5% AC line reactor) Supporting IEEE 519-1992 requirements\*\*

**Cooling:** Fan-cooled through back channel

**Ambient temperature:** -10°C to +45°C up to 1000 meters above sea level (-14°F to +113°F, 3300 ft)

**Analog I/O:** Two current or voltage inputs, one current output

**Digital I/O:** Six programmable inputs (two can be configured as outputs)

**Pulse inputs:** Two programmable

**Relay outputs:** Two programmable

**Communication port:** 1-RS485, 1-USB

\*If minimum maintained system pressure is not known: Default to 40% of design head

\*\*The Ivs 102 drive is a low harmonic drive via built-in DC line reactors. This does not guaranty performance to any system wide harmonic specification or the costs to meet a system wide specification. If supplied with the system electrical details, Armstrong will run a computer simulation of the system wide harmonics. If system harmonic levels are exceeded Armstrong can also recommend additional harmonic mitigation and the costs for such mitigation.

### MECHANICAL SEAL DATA

**Seal type:** AB2

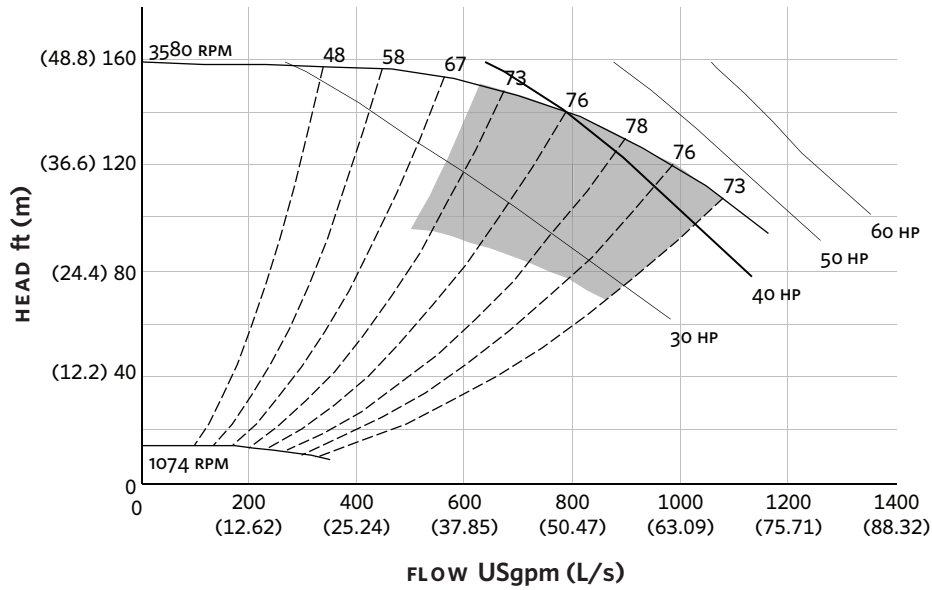
**Stationary seat:** Sintered silicon carbide

**Secondary seal:** Viton

**Rotating hardware:** Stainless steel

**Spring:** Stainless steel

**EXTENDED SPEED**



Performance curves are for reference only.  
Confirm current performance data with Armstrong ACE Online selection software.

**DIMENSION DATA**

**INDOOR**  
(UL TYPE 12/ODP)

**Frame size:** 324TSC

**Size:** 6×4×8

**HP:** 40

**RPM:** 3600

**HA:** 18.94 (481)

**HB:** 48.00 (1219)

**HC:** 44.37 (1127)

**HD:** 12.25 (311)

**HE:** 8.84 (225)

**HF:** 22.00 (559)

**2HF:** 44.00 (1118)

**HG:** 4.00 (102)

**HI:** 39.48 (1003)

**HL:** 4.50 (114)

**HV:** 19.42 (493)

**NAN1:** 2.00 (51)

**NAN2:** 13.00 (330)

**X:** 11.00 (279)

**Y:** 4.00 (102)

**Weight:** 879 (398.8)

Dimensions - inch (mm)  
Weight - lbs (kg)

**INDOOR**

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