

DESIGN ENVELOPE 4280 END SUCTION

SINGLE PHASE | 2506-007.5 | SUBMITTAL

MECHANICAL SEAL DATA

Stationary seat: Silicone carbide

Rotating hardware: Stainless steel

Seal type: 2A

Secondary seal: EPDM

Spring: Stainless steel

File No: 100.3612

Date: APRIL 18, 2016

Supersedes: NEW

Date: NEW

| Job: | | | R | Representative: | | | | |
|---|--------------|-------------------|-----------------------|--|--|----------|--|--|
| Engineer: | | | 0 | order No: | [| _ Date: | | |
| | | | S | Submitted by: | | _ Date: | | |
| Contractor: | | | | Approved by: | | _ Date: | | |
| PUMP DESIGN | N DATA | | | CONTROLS DATA | | | | |
| No. of pumps: | | Tag: | | : Power supply: | Volts: 200-240\ | /AC | | |
| Capacity: | _USgpm (L/s) | Head:ft | (m) | | Freq: 50/60Hz | Phase: 1 | | |
| Liquid: | | Viscosity: | | Sensorless Control: | Standard | | | |
| Temperature: | °F (°C) | Specific gravity: | | Minimum system pressure | | | | |
| Suction: 3" (75mm) Flanged | | | | : | ft (m)* | | | |
| Discharge: 2.5" (60mm) Flanged | | | | Protocol (standard): | □ Modbus RTU □ BACnet™ MS/TP | | | |
| OSHPD Seismic Certification OSP-0422-10 | | | | | ☐ Johnson® N2 ☐ Siemens® FLN | | | |
| UL STD 778 & CSA STD C22.2 NO.108 certified | | | | Protocol (optional): | | | | |
| | | | | • | : ☐ Indoor - UL TYPE 12 | | | |
| MOTOR DESIGN DATA | | | | Disconnect switch: | | | | |
| HP: 7.5 | RPM: 3600 | Frame size: 2131M | Μ | EMI/RFI control: | : 1-phase IVS102 units do not meet the | | | |
| Enclosure: TEFC | Volts: 208 | Freq: 60 Hz | | | EN61800-3 direc | | | |
| Phase: 3 Efficiency: NEMA premium 12.12 | | | Harmonic suppression: | : Dual pc-link reactors (equivalent: 5% AC line reactor) supporting IEEE 519-1992 requirements** | | | | |
| | | | | | | | | |
| MAXIMUM PUMP OPERATING CONDITIONS | | | | : Cooling: | : Fan-cooled through back channel | | | |
| ANSI 125 | | | | - | : -10°C to +45°C up to 1000 meters above | | | |
| 175 psig at 150°F (12 bars at 65°C) | | | | | sea level (-14°F to +113°F, 3300 ft) | | | |
| 140 psig at 250°F (10 bars at 121°C) | | | | : Analog ı/o: | : Two current or voltage inputs, | | | |
| | | | | | one current output | | | |
| ANSI 250 300 psig at 150°F (20 bars at 65°C) | | | | Digital ı/o: | : Six programmable inputs (two can be | | | |
| 250 psig at 250°F (17 bars at 121°C) | | | | configured as outputs) | | | | |
| | | | | Pulse inputs: | : Two programmable | | | |
| Tolerance of ±0.125" (±3 mm) should be used For exact installation, data please write factory for certified dimensions | | | | Relay outputs: | Two programmable | | | |
| | | | | Communication port: | t: 1-RS485, 1-USB | | | |
| | | | | | | | | |

| FLUID TYPE | ALL GLYCOLS > | 30% WT CONC | ALL OTHER NO | N-POTABLE FLUIDS | POTABLE (DRINKING) WATER | |
|----------------|--------------------|-------------------|---------------------|------------------------|--------------------------|-------------------|
| Temperature | up to 200°F / 93°C | over 200°F / 93°C | up to 200°F / 93°C | over 200°F / 93°C | up to 200°F / 93°C | over 200°F / 93°C |
| Rotating face | Silicone carbide | | Resin bonded carbon | Antimony loaded carbon | Resin bonded carbon | |
| Seat elastomer | EPDM (L-cup) | EPDM (O-ring) | EPDM (L-cup) | EPDM (0-ring) | EPDM (L-cup) | EPDM (0-ring) |
| Material code | SCsc L EPSS 2A | SCsc o epss 2A | C-SC L EPSS 2A | ACsc o epss 2A | C-SC L EPSS 2A | C-SC O EPSS 2A |

and the costs for such mitigation.

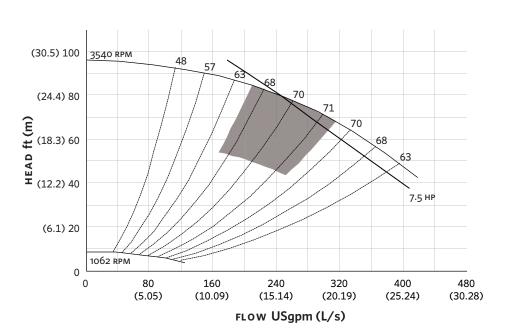
*If minimum maintained system pressure is not known: Default to 40% of design head **The IVS 102 drive is a low harmonic drive via built-in pc line reactors. This does not

will run a computer simulation of the system wide harmonics. If system harmonic

levels are exceeded Armstrong can also recommend additional harmonic mitigation

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

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: 213JM

Size: 3×2.5×6

HP: 7.5

RPM: 3600

A: 10.27 (261)

B: 7.48 (190)

CMAX: 22.29 (566)

D1: 5.63 (143)

D2: 5.25 (133)

2E: 8.50 (216)

F: 5.50 (140)

H: 0.47 (12)

HD: 7.68 (195)

HI: 24.47 (622)

HV: 16.98 (431)

N: 7.23 (184)

NaN1: 6.00 (152)

x: 8.25 (210)

y: 4.00 (102)

Casing foot hole: 0.63 (16)

Weight: 289 (131.1)

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

INDOOR



+1 416 755 2291

BUFFALO

+1 716 693 8813 BIRMINGHAM

+44 (0) 8444 145 145

MANCHESTER

+44 (0) 8444 145 145

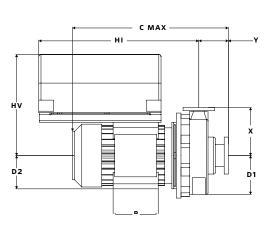
BANGALORE

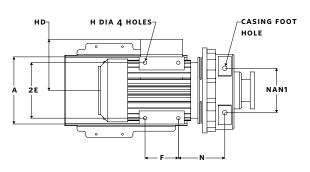
+91 (0) 80 4906 3555

SHANGHAI

+86 21 3756 6696

SÃO PAULO +55 11 4781 5500





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