

## DESIGN ENVELOPE 4300 VIL | 8015-00.75 | SUBMITTAL

**File No:** 100.4040UK  
**Date:** AUGUST 14, 2015  
**Supersedes:** 100.4040UK  
**Date:** SEPTEMBER 11, 2013

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

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

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

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

### PUMP DESIGN DATA

No. of pumps: \_\_\_\_\_ Tag: \_\_\_\_\_  
 Liquid: \_\_\_\_\_ Viscosity: \_\_\_\_\_  
 Temperature: \_\_\_\_\_ °C (°F) Specific gravity: \_\_\_\_\_  
 Suction: 80mm (3") Discharge: 80mm (3")

### DE PUMPING UNIT CAPACITY

OPERATING POINT	LPS	m <sup>3</sup> /h	METERS
Full capability at maximum efficiency	9.5	34.1	5.8
Design point			
Average part load based on default load profile			

### MOTOR DESIGN DATA

Power: 0.75 kW Speed: 4-POLE Enclosure: TEFC  
 Volts: \_\_\_\_\_ Hertz: 50 Hz Phase: 3  
 Efficiency:  IE2 Frame size: \_\_\_\_\_

### MAXIMUM PUMP OPERATING CONDITIONS

#### PN 16

16 bars at 149°C (232 psig at 300°F)  
 7 bars at 150°C (100 psig at 300°F)

#### PN 25

25 bars at 149°C (375 psig at 300°F)  
 21 bars at 150°C (260 psig at 300°F)

### MECHANICAL SEAL DESIGN DATA

See file no. 43.50 for standard mechanical seal details as indicated below

Armstrong seal reference number

c1 (a)  Others: \_\_\_\_\_

### CONTROLS DATA

**Sensorless Control:** Standard

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

**Orientation:**  L1 (default)  L2  L3  L4

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

**Protocol (optional):**  LonWorks®

**Enclosure:**  Indoor - IP55  
 Outdoor - IP66

**Fused disconnect switch:** N/A

**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)

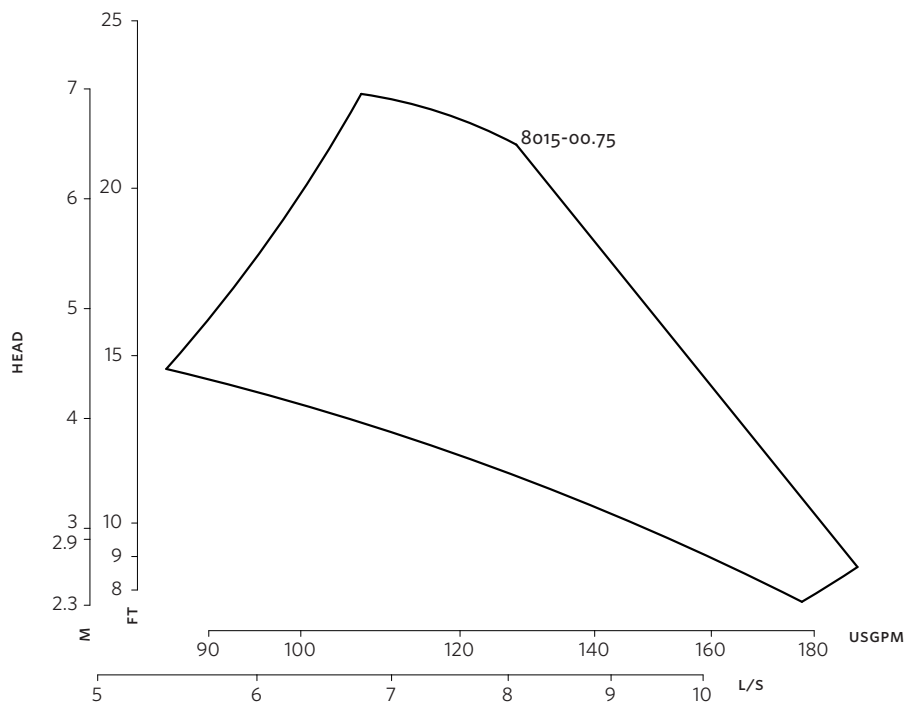
**Pulse inputs:** Two programmable

**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 guarantee 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.



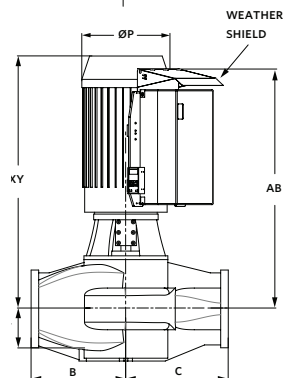
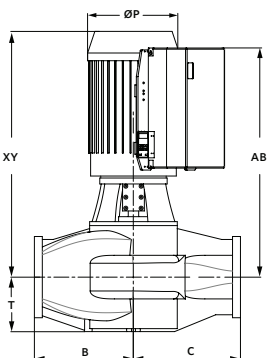
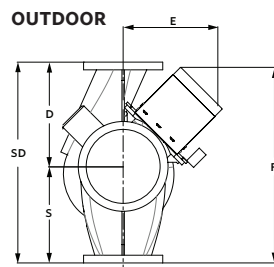
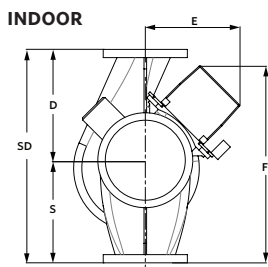
Performance curves are for reference only.  
Confirm current performance data with Armstrong ACE Online selection software.

**DIMENSION DATA**

	INDOOR (IP55)	OUTDOOR (IP66)
<b>Frame size:</b>	80	80
<b>Size:</b>	8015-00.75	8015-00.75
<b>kW:</b>	0.75	0.75
<b>RPM:</b>	1500	1500
<b>AB:</b>	491(19.33)	491(19.33)
<b>B:</b>	147(05.87)	147(05.87)
<b>C:</b>	121(04.85)	121(04.85)
<b>D:</b>	210(08.26)	210(08.26)
<b>E:</b>	148(05.82)	148(05.82)
<b>F:</b>	148(05.82)	148(05.82)
<b>P:</b>	170(06.78)	170(06.78)
<b>S:</b>	248(09.85)	248(09.85)
<b>SD:</b>	457(18.08)	457(18.08)
<b>T:</b>	154(06.06)	154(06.06)
<b>XY:</b>	503(19.80)	503(19.80)

**Weight:**

- Dimensions - mm (inch)
- Weight - kg (lbs)
- Tolerance of  $\pm 3$  mm ( $\pm 0.125$ " ) should be used
- For exact installation, data please write factory for certified dimensions



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