

## SERIES 4030 | END SUCTION BASE MOUNTED | 80-150A (4x3x6) | SUBMITTAL

**File No:** 40.54IEC  
**Date:** APRIL 26, 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: \_\_\_\_\_ m<sup>3</sup>/h (USgpm) Head: \_\_\_\_\_ m(ft)  
 Liquid: \_\_\_\_\_ Viscosity: \_\_\_\_\_  
 Temperature: \_\_\_\_\_ °C (°F) Specific gravity: \_\_\_\_\_  
 Suction: 100 mm (4") Flanged  
 Discharge: 80 mm (3") Flanged

### MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	PN 16	PN 25
<b>Construction</b>	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
<b>Casing</b>	Cast iron	Ductile iron

**Impeller:** Bronze  
**Gasket:** Confined non-asbestos fiber  
**Bearing frame:** Cast iron  
**Anti-friction bearings:** Permanently lubricated  
**Shaft:** Carbon steel  
**Shaft sleeve:** Stainless steel  
**Coupler:** Woods sure flex or equal  
**Coupler guard:** Steel OSHA  
**Baseplate:** Fabricated steel

### MECHANICAL SEAL DATA

**Seal type:** 2A      **Stationary seat:** Silicone carbide  
**Secondary seal:** EPDM      **Rotating hardware:** Stainless steel  
**Spring:** Stainless steel

### MOTOR DESIGN DATA

kW: \_\_\_\_\_ RPM: \_\_\_\_\_  
 Frame size: \_\_\_\_\_ Enclosure: \_\_\_\_\_  
 Volts: \_\_\_\_\_ Hertz: 50 Hz      Phase: 3  
 Efficiency:  IE1     IE2     IE3

### MAXIMUM PUMP OPERATING CONDITIONS

**PN 16**  
 12 bars at 65°C (175 psig at 150°F)  
 10 bars at 121°C (140 psig at 250°F)

**PN 25**  
 20 bars at 65°C (300 psig at 150°F)  
 17 bars at 121°C (250 psig at 250°F)

- Tolerance of ±3 mm (±0.125") should be used
- For exact installation, data please write factory for certified dimensions
- Pump equipped with casing drain plug and ¼" NPT suction and discharge gauge ports.
- See performance curves on page 3

### OPTIONAL EQUIPMENT

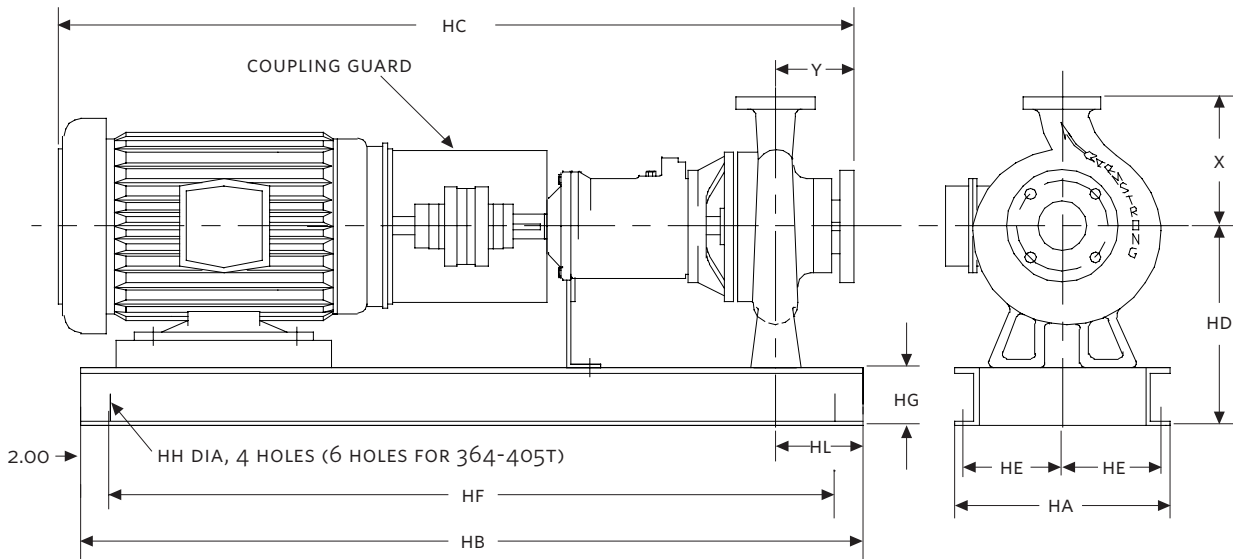
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
	up to 93°C (200°F)	over 93°C (200°F)	up to 93°C (200°F)	over 93°C (200°F)	up to 93°C (200°F)	over 93°C (200°F)
<b>Rotating face</b>	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
<b>Seat elastomer</b>	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (O-ring)
<b>Material code</b>	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

MOTOR	MOTOR kW @ RPM		FULL LOAD CURRENT (A)	STARTING CURRENT (A)		DIMENSIONS mm(INCHES)								WEIGHT* kg (lbs)
	TEFC			STAR DELTA (SD)	DIRECT ON LINE (DOL)	HA	HB	HC	HD	HE	HF	HG	HL	
FRAME	3000	1500	380-415V											
80	—	0.55	1.3	—	5.5	356 (14.00)	762 (30.00)	688 (27.10)	235 (9.25)	162 (6.38)	660 (26.00)	76 (3.00)	114 (4.50)	56.3 (124)
80	—	0.75	1.68	—	7.4	356 (14.00)	762 (30.00)	688 (27.10)	235 (9.25)	162 (6.38)	660 (26.00)	76 (3.00)	114 (4.50)	59.3 (131)
90S	—	1.1	2.47	—	12.6	356 (14.00)	762 (30.00)	650 (25.58)	235 (9.25)	162 (6.38)	660 (26.00)	76 (3.00)	114 (4.50)	64.8 (143)
90L	—	1.5	3.33	—	18.6	356 (14.00)	762 (30.00)	696 (27.42)	235 (9.25)	162 (6.38)	660 (26.00)	76 (3.00)	114 (4.50)	67.8 (150)
100L	3	—	6.1	—	47.8	356 (14.00)	838 (33.00)	738 (29.06)	235 (9.25)	162 (6.38)	737 (29.00)	76 (3.00)	114 (4.50)	74.3 (164)
112M	4	—	8.0	22.4	62.4	356 (14.00)	838 (33.00)	782 (30.79)	235 (9.25)	162 (6.38)	737 (29.00)	76 (3.00)	114 (4.50)	83.8 (185)
132S	5.5	—	10.8	25.9	88.6	356 (14.00)	838 (33.00)	855 (33.67)	235 (9.25)	162 (6.38)	737 (29.00)	76 (3.00)	114 (4.50)	105.8 (233)
132S	7.5	—	14.5	36.3	118.9	356 (14.00)	838 (33.00)	855 (33.67)	235 (9.25)	162 (6.38)	737 (29.00)	76 (3.00)	114 (4.50)	108.8 (240)
160M	11	—	21.1	52.8	164.6	406 (16.00)	1016 (40.00)	1001 (39.43)	260 (10.25)	187 (7.38)	914 (36.00)	76 (3.00)	114 (4.50)	149.8 (330)

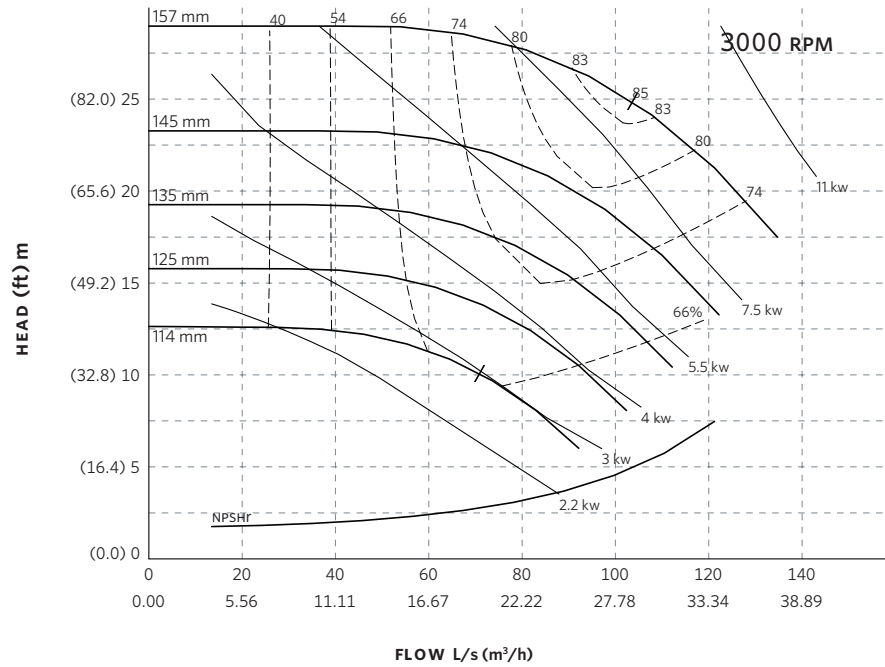
\*Assembly weight combines pump and motor.

**PUMP DIMENSIONS**  
mm (inches)

X	Y
210 (8.25)	102 (4.00)



## SERIES 4030 PERFORMANCE CURVES



**Curve number**  
PT78-2-0-3000

**Series**  
4030  
4280

**Size**  
80-150A

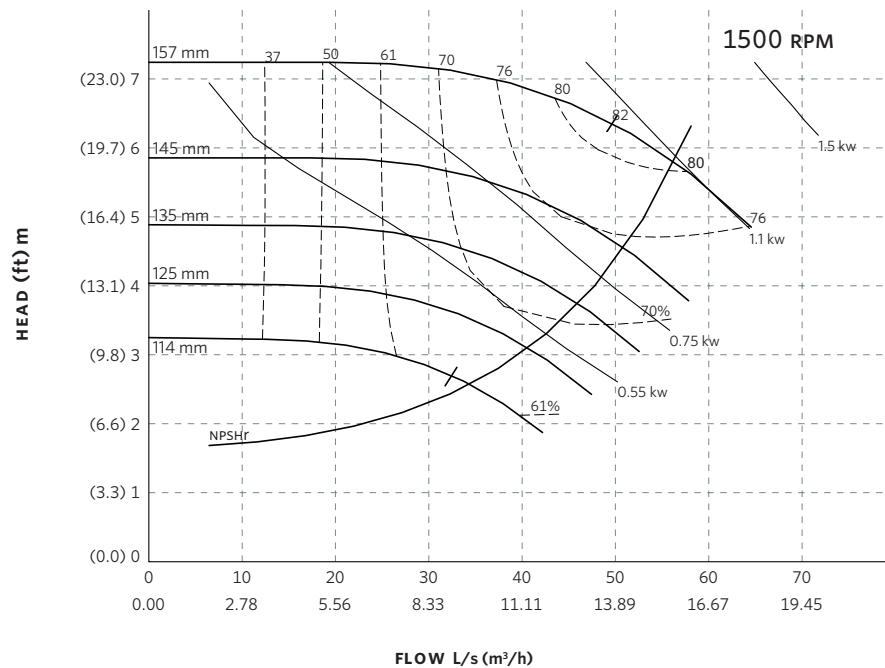
**RPM**  
3000

BHP based on shown  
Fluid's sp. gr.

**Availability**  
4030 all ratings  
4280 all ratings

Performance  
guaranteed only at  
operating point  
indicated.

Curve shown for  
clear, cold water  
- SP. GR. 1.000



**Curve number**  
PT200-0-0-1500

**Series**  
4030  
4280

**Size**  
80-150A

**RPM**  
1500

kwa based on shown  
Fluid's sp. gr.

**Availability**  
4030 all ratings  
4280 all ratings

Performance  
guaranteed only at  
operating point  
indicated.

Curve shown for  
clear, cold water  
- SP. GR. 1.000

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

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