

## 4030 END SUCTION BASE MOUNTED | 40-250A (2×1.5×10) | SUBMITTAL

**File No:** 40.612IEC  
**Date:** AUGUST 10, 2020  
**Supersedes:** 40.612IEC  
**Date:** APRIL 26, 2016

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: 50 mm (2") Flanged  
 Discharge: 40 mm (1.5") Flanged

### MATERIALS OF CONSTRUCTION

FLANGE RATING	PN 16	PN 25
Construction	<input type="checkbox"/> BF	<input type="checkbox"/> DBF
Casing	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**  
 16 bars at 49°C (232 psig at 120°F)  
 7 bars at 150°C (100 psig at 300°F)
- PN 25**  
 25 bars at 65°C (362 psig at 149°F)  
 21 bars at 150°C (304 psig at 300°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)
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 (O-ring)	EPDM (L-cup)	EPDM (O-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

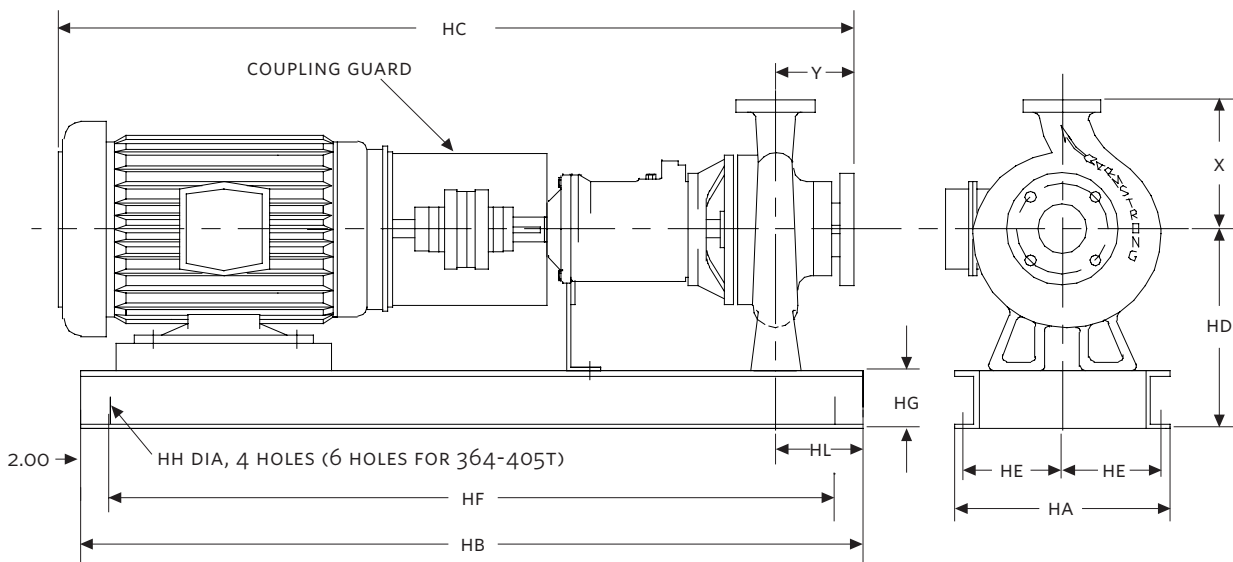
MOTOR	MOTOR kW @ RPM		FULL LOAD CURRENT (A)	STARTING CURRENT (A)		DIMENSIONS mm(INCHES)								WEIGHT*
	TEFC			STAR DELTA (SD)	DIRECT ON LINE (DOL)	HA	HB	HC	HD	HE	HF	HG	HL	
	3000	1500												380-415V
90S	-	1.1	2.5	-	12.6	356 (14.00)	762 (30.00)	650 (25.60)	286 (11.25)	162 (6.38)	660 (26.00)	76 (3.00)	114 (4.50)	103.0 (227)
90L	-	1.5	3.33	-	18.6	356 (14.00)	762 (30.00)	697 (27.44)	286 (11.25)	162 (6.38)	660 (26.00)	76 (3.00)	114 (4.50)	106.0 (234)
100L	-	2.2	4.82	-	26.5	356 (14.00)	838 (33.00)	739 (29.08)	286 (11.25)	162 (6.38)	737 (29.00)	76 (3.00)	114 (4.50)	114.5 (252)
100L	-	3	6.40	-	37.1	356 (14.00)	838 (33.00)	739 (29.08)	286 (11.25)	162 (6.38)	737 (29.00)	76 (3.00)	114 (4.50)	117.0 (258)
132S	7.5	-	14.5	36.3	118.9	356 (14.00)	838 (33.00)	856 (33.69)	286 (11.25)	162 (6.38)	737 (29.00)	76 (3.00)	114 (4.50)	147.0 (324)
160M	11	-	21.1	52.8	164.6	406 (16.00)	1143 (45.00)	1081 (42.57)	286 (11.25)	187 (7.38)	1041 (41.00)	76 (3.00)	114 (4.50)	188.0 (414)
160M	15	-	28.5	74.1	228.0	406 (16.00)	1143 (45.00)	1081 (42.57)	286 (11.25)	187 (7.38)	1041 (41.00)	76 (3.00)	114 (4.50)	196.0 (432)
160L	18.5	-	34.9	94.2	303.6	406 (16.00)	1143 (45.00)	1096 (43.16)	286 (11.25)	187 (7.38)	1041 (41.00)	76 (3.00)	114 (4.50)	208.0 (459)
180M	22	-	40.9	114.52	368.1	483 (19.00)	1219 (48.00)	1081 (42.57)	311 (12.25)	225 (8.88)	1118 (44.00)	102 (4.00)	114 (4.50)	248.0 (547)

\*Assembly weight combines pump and motor.

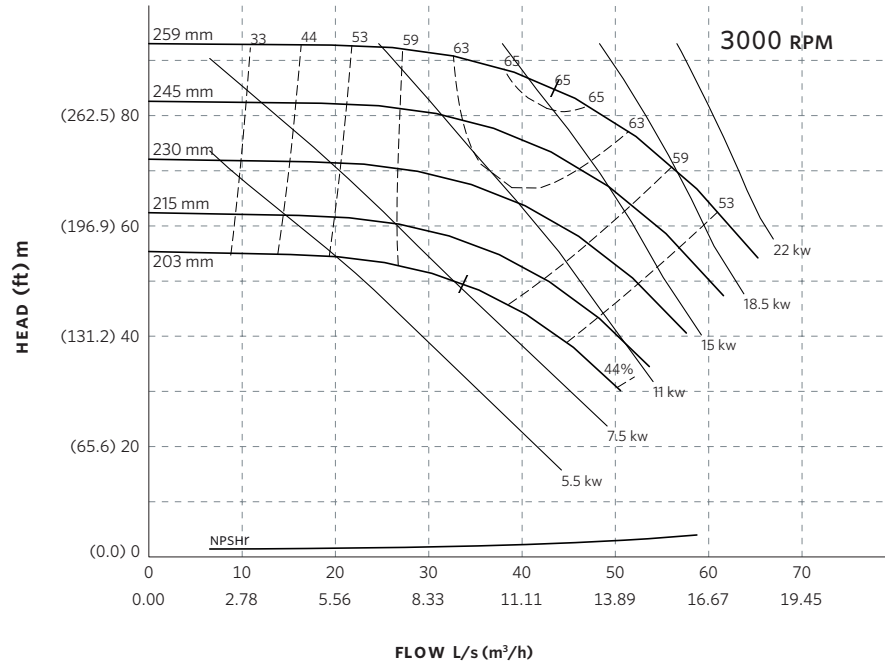
**PUMP DIMENSIONS**

mm (inches)

X	Y
216 (8.50)	102 (4.00)



## 4030 PERFORMANCE CURVES



**Curve number**  
PT45-2-0-3000

**Series**  
4030  
4280

**Size**  
40-250A

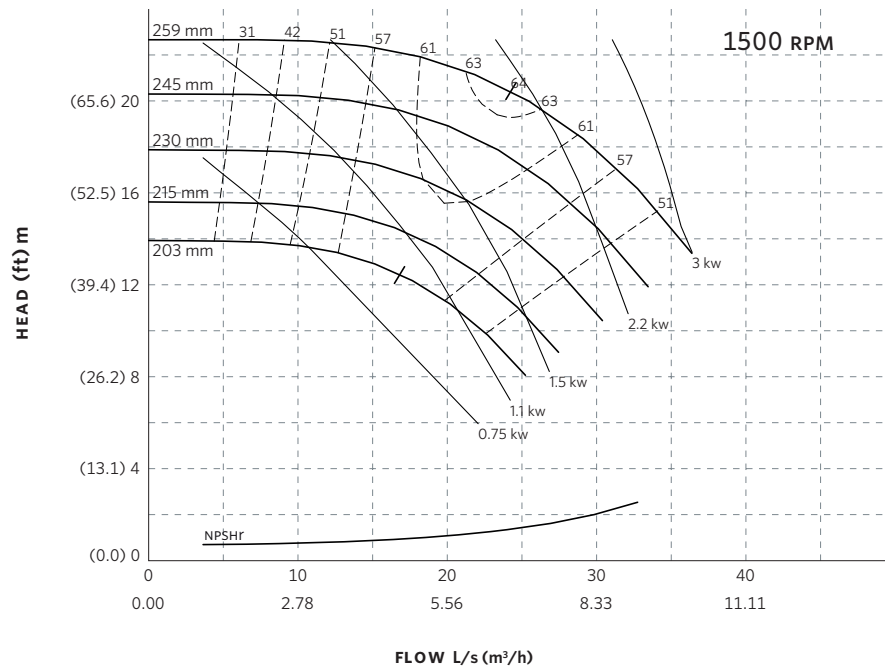
**RPM**  
3000

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**  
PT44-2-0-1500

**Series**  
4030  
4280

**Size**  
40-250A

**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 ADEPT Quote or ADEPT Select selection software.

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