

SERIES 4280 | END SUCTION BASE MOUNTED SPLIT COUPLED | 80-250A (4x3x10) | SUBMITTAL

File No: 42.70L
Date: MARCH 24, 2016
Supersedes: 42.70L
Date: MARCH 24, 2014

Job: _____ Representative: _____

Order no.: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
Capacity: _____ m³/h (USgpm) Head: _____ m (ft)
Liquid: _____ Viscosity: _____
Temperature: _____ °C (°F) Specific gravity: _____
Suction: 100 mm (4") Flanged
Discharge: 80 mm (3") Flanged

MOTOR DESIGN DATA

kW: _____ RPM: _____ Frame size: _____ Enclosure: _____
Volts: _____ Hertz: 50 Hz Phase: 3
Efficiency: IE1 (NON-EU only) IE2 IE3

MATERIALS OF CONSTRUCTION

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

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Bearing frame: Cast iron

Shaft: Carbon steel

Shaft sleeve: Bronze

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

MECHANICAL SEAL DATA

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

OPTIONAL EQUIPMENT

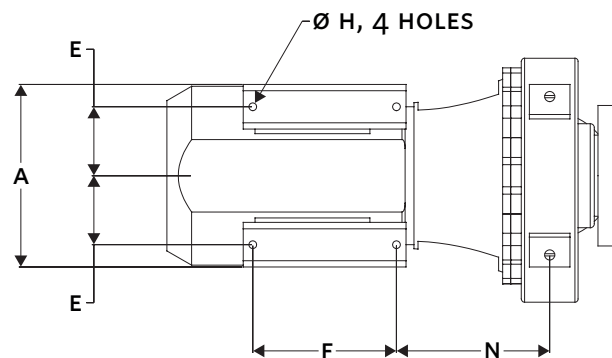
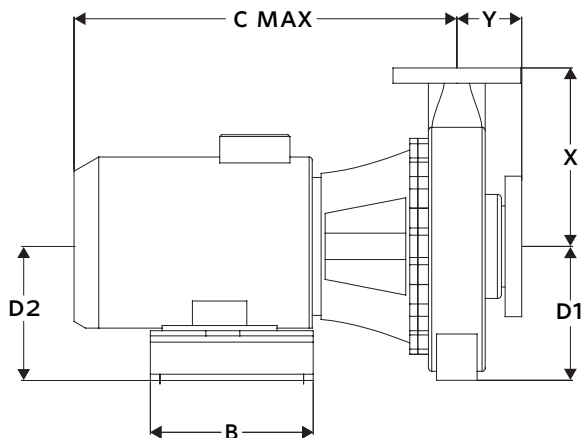
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 93°C (200°F)	over 93°C (200°F)	up to 93°C (200°F)	over 93°C (200°F)	up to 93°C (200°F)	over 93°C (200°F)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded 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	HORSEPOWER @ kW		FULL LOAD CURRENT (A)	STARTING CURRENT (A)		MAX. DIMENSIONS mm (inches)								ASSEMBLY WEIGHT*
	TEFC			STAR DELTA (SD)	DIRECT ON LINE (DOL)	A	B	C MAX	D1	D2	E	F	N	TEFC
FRAME	3000	1500	380-415V											kg (lbs)
100L	—	2.2	4.8	—	26.5	220 (8.66)	220 (8.66)	437 (17.21)	210 (8.25)	210 (8.25)	80 (3.15)	190 (7.48)	185 (7.29)	87.7 (193)
100L	—	3	6.40	—	37.1	220 (8.66)	220 (8.66)	437 (17.21)	210 (8.25)	210 (8.25)	80 (3.15)	190 (7.48)	185 (7.29)	90.2 (199)
112M	—	4	8.41	18.5	58.9	250 (9.84)	220 (8.66)	481 (18.94)	210 (8.25)	210 (8.25)	95 (3.74)	190 (7.48)	193 (7.58)	99.2 (219)
132S	—	5.5	10.90	24.0	81.8	286 (11.26)	255 (10.04)	599 (23.59)	210 (8.25)	210 (8.25)	108 (4.25)	225 (8.86)	240 (9.43)	120.2 (265)
132M	—	7.5	14.9	32.8	111.8	286 (11.26)	255 (10.04)	622 (24.49)	210 (8.25)	210 (8.25)	108 (4.25)	225 (8.86)	278 (10.93)	129.2 (285)
160M	15	—	28.5	74.1	228.0	324 (12.76)	340 (13.39)	697 (27.43)	210 (8.25)	210 (8.25)	127 (5.00)	308 (12.13)	309 (12.15)	169.2 (373)
160L	18.5	—	34.9	94.2	303.6	324 (12.76)	340 (13.39)	767 (30.19)	210 (8.25)	210 (8.25)	127 (5.00)	308 (12.13)	353 (13.89)	181.2 (399)
180M	22	—	40.9	114.5	368.1	369 (14.52)	340 (13.39)	767 (30.19)	234 (9.23)	235 (9.25)	139 (5.49)	310 (12.20)	358 (14.09)	221.2 (488)
200L	30	—	55.9	139.8	436.0	418 (16.46)	425 (16.73)	941 (37.04)	260 (10.22)	262 (10.31)	159 (6.26)	393 (15.47)	361 (14.20)	283.2 (624)
200L	37	—	68.7	171.8	535.9	418 (16.46)	425 (16.73)	941 (37.04)	260 (10.22)	262 (10.31)	159 (6.26)	393 (15.47)	361 (14.20)	312.2 (688)
225M	45	—	81.5	179.3	570.5	436 (17.17)	457 (17.99)	934 (36.76)	260 (10.22)	260 (10.22)	178 (7.01)	421 (16.57)	375 (14.75)	413.2 (911)

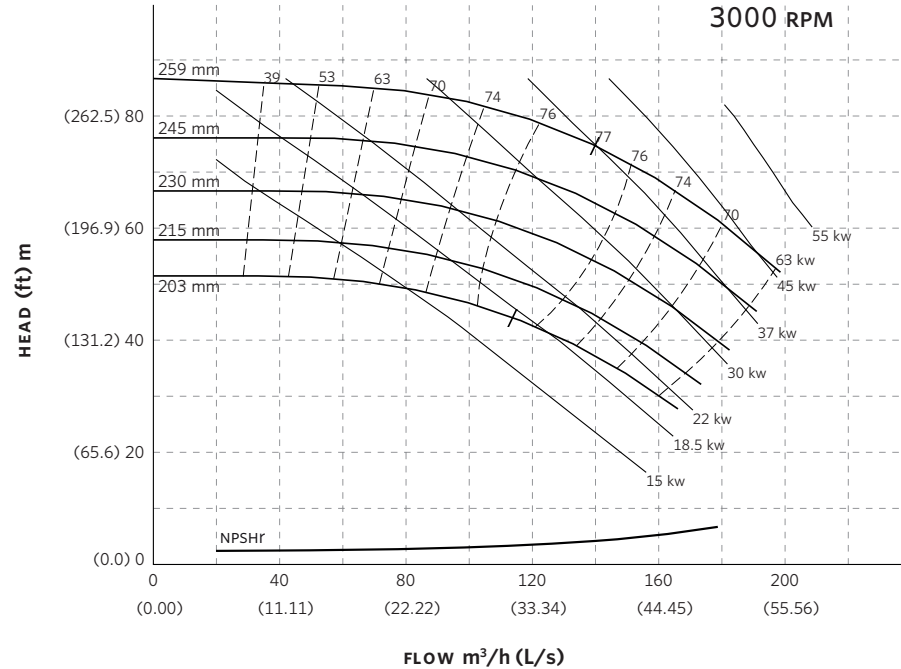
*Assembly weight combines pump and motor.

PUMP DIMENSIONS
mm (inches)

X	Y
279 (11.00)	102 (4.01)



SERIES 4280 PERFORMANCE CURVES



Curve number
PT75-1-0-3000

Series
4030
4280

Size
80-250

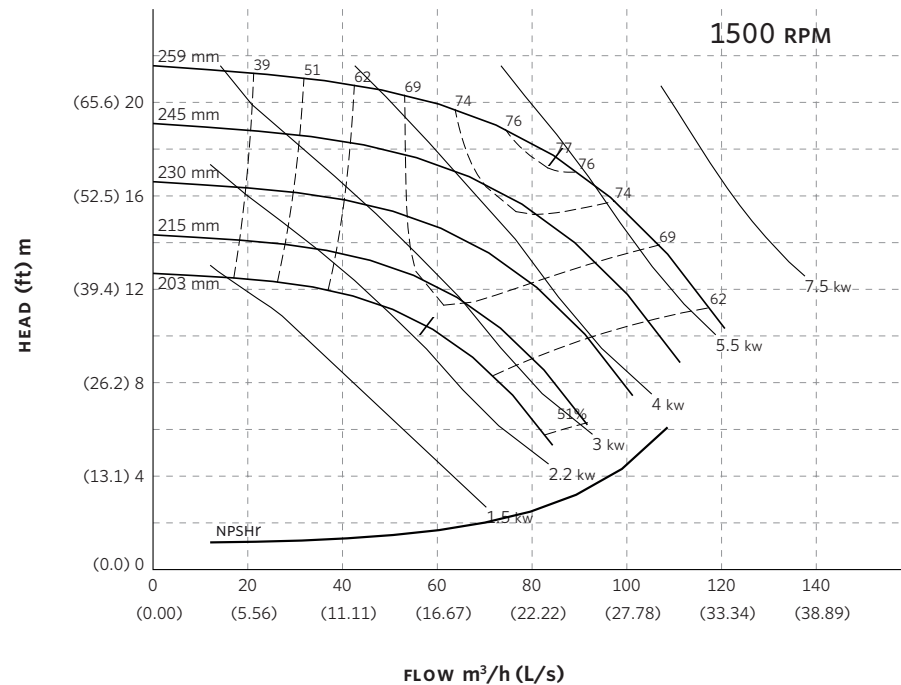
RPM
3000

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. 1.0000



Curve number
PT74-2-0-1500

Series
4030
4280

Size
80-250

RPM
1500

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. 1.0000

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

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