

SERIES 4280 | END SUCTION MOTOR MOUNTED CLOSED-COUPLED | 6 × 5 × 11.5 | SUBMITTAL

File No: 42.77
Date: SEPTEMBER 10, 2012
Supersedes: 42.77
Date: DECEMBER 15, 2010

Job: _____ Representative: _____
Order no: _____ Date: _____
Engineer: _____ Submitted by: _____ Date: _____
Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

No. of pumps: _____ Tag: _____
Capacity: _____ USgpm (L/s) Head: _____ ft (m)
Liquid: _____ Viscosity: _____
Temperature: _____ °F (°C) Specific gravity: _____
Suction: 6" (150mm) Flanged
Discharge: 5" (125mm) Flanged

MOTOR DESIGN DATA

HP: _____ RPM: _____ Frame size: _____ Enclosure: _____
Volts: _____ Hertz: 60 Hz Phase: 3
Efficiency: ☐ Energy EFF 12.11 ☐ NEMA premium 12.12

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	ANSI 125	ANSI 250
Construction	☐ BF	☐ DBF
Casing	Cast iron	Ductile iron
Adapter	Cast iron	Ductile iron

Impeller: Bronze

Gasket: Confined non-asbestos fiber

Shaft: Carbon steel

Shaft sleeve: Bronze

MAXIMUM PUMP OPERATING CONDITIONS

ANSI 125

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

ANSI 250

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

- 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

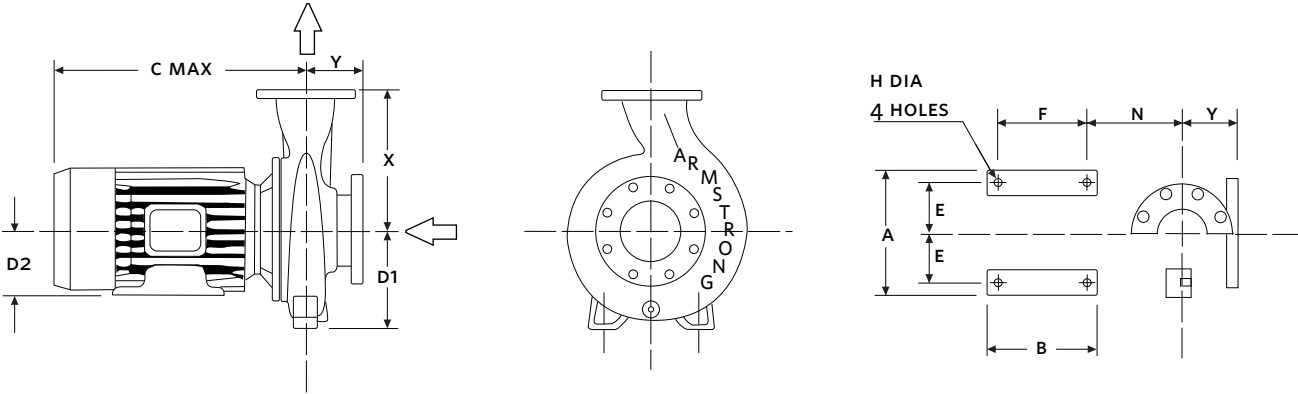
FLUID TYPE	ALL GLYCOLS > 30% WT CONC		ALL OTHER NON-POTABLE FLUIDS		POTABLE (DRINKING) WATER	
Temperature	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)	up to 200°F (93°C)	over 200°F (93°C)
Rotating face	Silicone carbide		Resin bonded carbon	Antimony loaded carbon	Resin bonded carbon	
Seat elastomer	EPDM (L-cup)	EPDM (O-ring)	EPDM (L-cup)	EPDM (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	HP @ RPM (ODP & TEFC)		MAX. DIMENSIONS INCHES (mm)										ASSEMBLY WEIGHT*	
	1800	1200	A	B	C MAX		D1	D2	E	F	H	N	lbs (kgs)	
FRAME					ODP	TEFC							ODP	TEFC
213JP	—	3	9.63 (245)	6.50 (165)	20.75 (527)	23.75 (603)	10.00 (254)	5.25 (133)	4.25 (108)	5.50 (140)	0.41 (10)	12.13 (308)	366 (166.2)	382 (173.4)
215JP	—	5	9.63 (245)	8.00 (203)	21.63 (549)	24.63 (626)	10.00 (254)	5.25 (133)	4.25 (108)	7.00 (178)	0.41 (10)	12.13 (308)	377 (171.2)	407 (184.8)
254JM	15	7.5	11.50 (292)	9.50 (241)	22.00 (559)	25.38 (645)	10.00 (254)	6.25 (159)	5.00 (127)	8.25 (210)	0.53 (13)	9.75 (248)	446 (202.5)	485 (220.2)
256JM	20	10	11.50 (292)	11.25 (286)	23.50 (597)	27.00 (686)	10.00 (254)	6.25 (159)	5.00 (127)	10.00 (254)	0.53 (13)	9.75 (248)	480 (217.9)	540 (245.2)
284JP	25	—	14.00 (356)	11.25 (286)	26.13 (664)	29.63 (753)	10.00 (254)	7.00 (178)	5.50 (140)	9.50 (241)	0.53 (13)	12.63 (321)	485 (220.2)	575 (261.1)
286JP	30	—	14.00 (356)	12.63 (321)	28.13 (715)	31.63 (803)	10.00 (254)	7.00 (178)	5.50 (140)	11.00 (279)	0.53 (13)	12.63 (321)	555 (252.0)	585 (265.6)
324JP	40	—	16.00 (406)	12.88 (327)	28.63 (727)	32.13 (816)	10.00 (254)	8.00 (203)	6.25 (159)	10.50 (267)	0.66 (17)	13.13 (334)	695 (315.5)	805 (365.5)

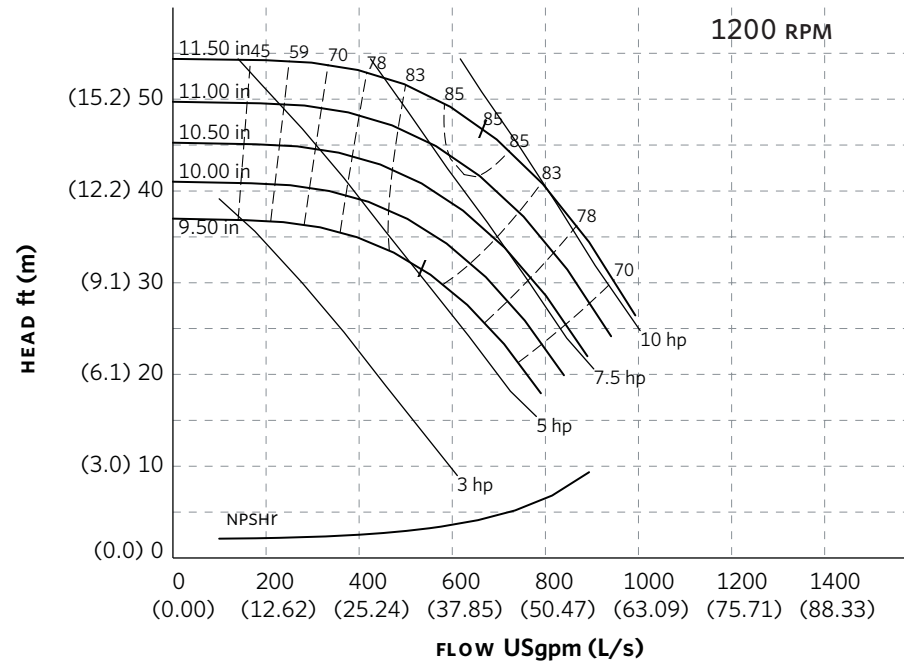
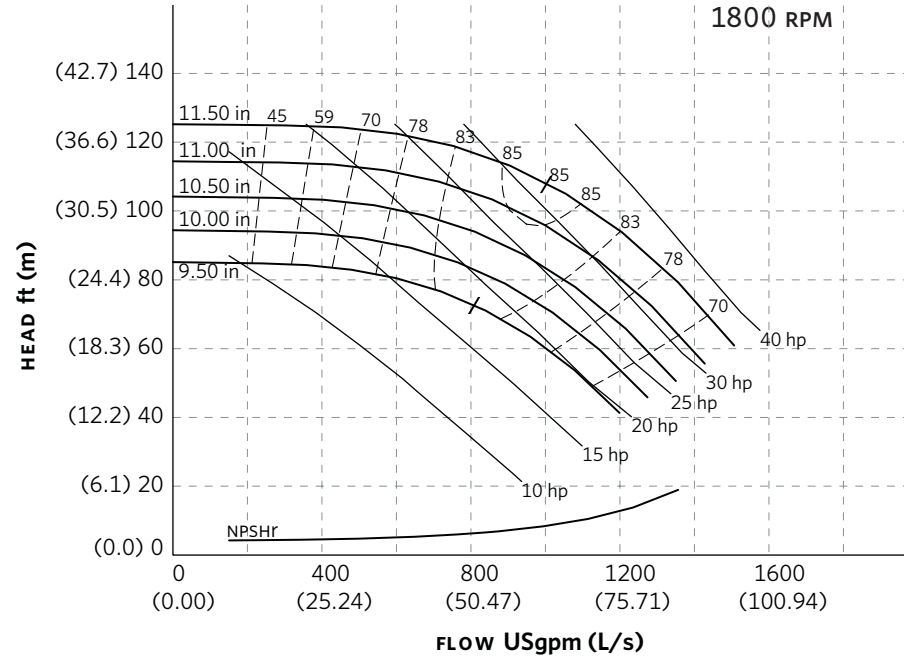
PUMP DIMENSIONS
inches (mm)

X	Y
14.00 (356)	4.00 (102)

*Assembly weight combines pump and motor.



SERIES 4280 PERFORMANCE CURVES



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

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