



FILE NO: 100.520
DATE: Feb. 9, 2009
SUPERSEDES: New
DATE: New

Series 4300 IVS Design Envelope

Models: 08BI2, 08BJ2, 08BK2

08B_2

SUBMITTAL

JOB: _____

REPRESENTATIVE: _____

ENGINEER: _____

ORDER NO: _____ DATE: _____

CONTRACTOR: _____

SUBMITTED BY: _____ DATE: _____

APPROVED BY: _____ DATE: _____

PUMP DESIGN DATA

NO. OF PUMPS:			
TAG:			
CAPACITY:	USgpm (L/s)	HEAD:	ft. (m)
LIQUID:		VISCOSITY:	
TEMPERATURE:	°F (°C)	SPECIFIC GRAVITY:	

MOTOR DESIGN DATA

HP:		
FRAME SIZE:	ENCLOSURE:	
VOLTS:	HERTZ: 60 Hz	PHASE: 3
EFFICIENCY: NEMA PREMIUM		
FLANGE SIZE:	SUCTION: 2" (50 mm)	DISCHARGE: 2" (50 mm)

DESIGN ENVELOPE CAPABILITY DATA

MODEL	FLOW Usqpm (Lps)	HEAD ft (m)	EFF%	MOTOR HP	RPM
☐ 08BI2	194 (12.3)	123 (37.4)	67.2	15	2500
☐ 08BJ2	235 (14.8)	180 (54.7)	67.2	20	3025
☐ 08BK2	273 (17.2)	242 (73.8)	67.2	25	3512

MATERIALS OF CONSTRUCTION

ANSI FLANGE RATING	☐ 125 lb. CAST IRON	☐ 250 lb. DUCTILE IRON
CONSTRUCTION	BF	DBF
CASING	CAST IRON	DUCTILE IRON
IMPELLER	BRONZE	BRONZE
FLUSH LINE	COPPER	COPPER
PUMP SHAFT	416 STAINLESS STEEL	
COUPLING	HIGH TENSILE ALUMINUM	
GASKET	CONFINED NON-ASBESTOS	

MAXIMUM PUMP OPERATING CONDITIONS

125 lb. CAST IRON	250 lb. DUCTILE IRON
175 psig at 140°F (12 bars at 60°C) 100 psig at 300°F (7 bars at 149°C)	375 psig at 100°F (26 bars at 38°C) 275 psig at 500°F (19 bars at 260°C)
SEE FILE NO. 43.50 FOR MAXIMUM SEAL OPERATING CONDITIONS	

MECHANICAL SEAL DESIGN DATA

See File No. 43.50 for standard mechanical

Armstrong Seal Reference Number

☐ C1 (a) Other _____

SEAL DATA OPTIONS

OPTIONAL EQUIPMENT

SEE FILE NO. 43.50 FOR ENVIRONMENTAL ACCESSORIES

DRIVE DATA

SENSORLESS CONTROL:	☐ REQUIRED	☐ NOT REQUIRED
*MINIMUM SYSTEM PRESSURE TO BE MAINTAINED _____ ft (m)		
FIELD BUS PROTOCOL: ☐ ModBUS RTU (standard) ☐ LonWorks ☐ BACnet		
ENCLOSURE: UL Type 12		
EMI/RFI CONTROL: Integrated Filter designed to meet EN61800-3		
HARMONIC SUPPRESSION: Integrated DC Link Reactors (<5% THD)		
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, 3280ft)		
ANALOG INPUTS: 2, current or voltage		
ANALOG OUTPUTS: 1, current		
DIGITAL INPUTS: 4 Programmable		
DIGITAL OUTPUTS: 2 Programmable (can be configured as additional digital inputs)		
PULSE INPUTS: 2 Programmable		
RELAY OUTPUTS: 2 Programmable		
COMMUNICATION PORT: RS 485		

CHASSIS SIZE:

MODEL	hp	VFD Chassis Size		
		200V-240V	380V-480V	600V
08BI2	15	B1	B1	B1
08BJ2	20	B2	B1	B1
08BK2	25	C1	B1	B1

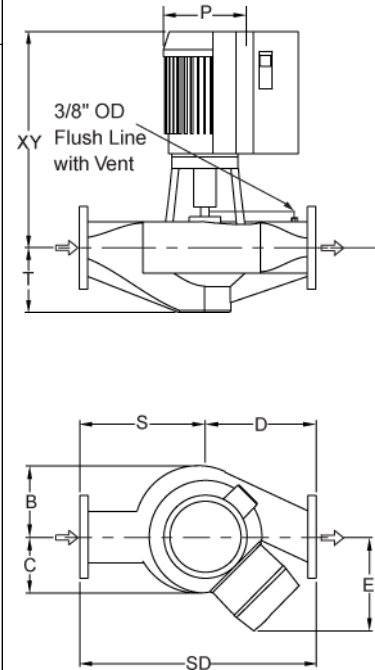
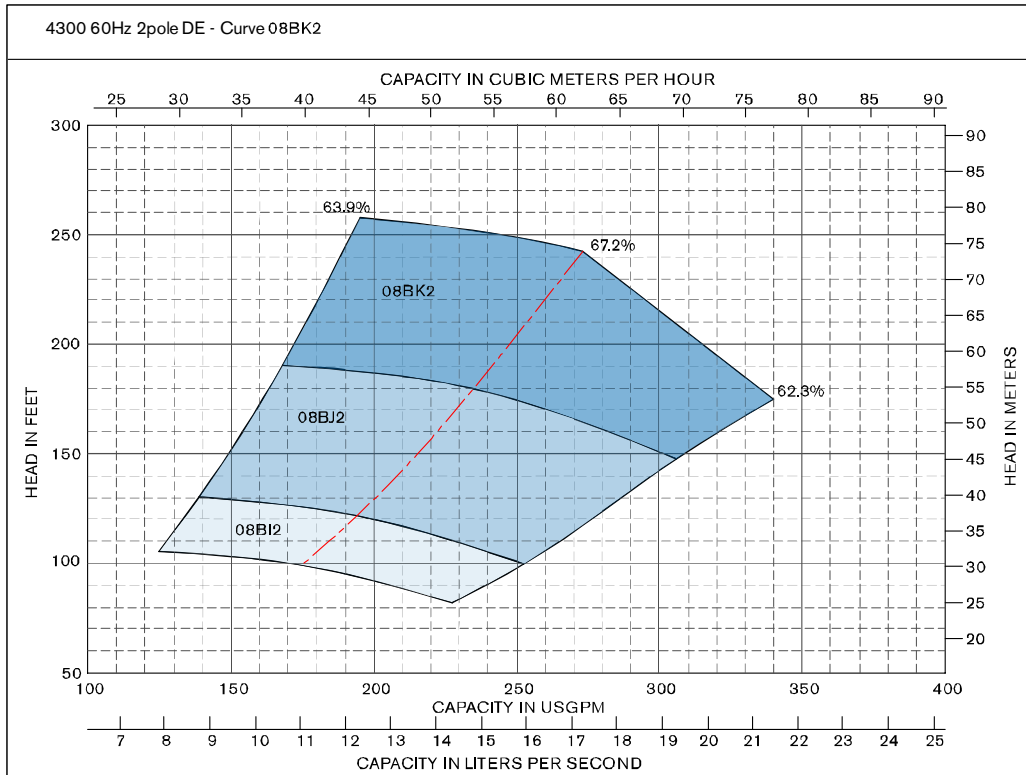
*If minimum maintained system pressure is not known: Default to 40% of design head



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DIMENSION DATA - inches (mm)

Curve No.	Size	Power (HP)	Motor Frame		B	C	D	S	T	SD	E Max	P	XY	Weight lbs (Kg)
			ODP	TEFC										
08BI2	2x2x8	15	215TC	254TC	5.80 (147)	5.80 (147)	8.50 (216)	9.50 (241)	5.20 (132)	18.00 (457)	17.42 (442)	13.38 (340)	34.10 (866)	395 (180)
08BJ2	2x2x8	20	254TC	256TC	5.80 (147)	5.80 (147)	8.50 (216)	9.50 (241)	5.20 (132)	18.00 (457)	17.42 (442)	13.38 (340)	34.10 (866)	420 (191)
08BK2	2x2x8	25	256TC	284TC	5.80 (147)	5.80 (147)	8.50 (216)	9.50 (214)	5.20 (132)	18.00 (457)	20.73 (527)	15.31 (389)	43.36 (1101)	480 (218)

- COUPLING GUARD (NOT SHOWN) IS SUPPLIED.
- TOLERANCE OF $\pm 0.125"$ (± 3 mm) SHOULD BE USED.
- FOR EXACT INSTALLATION DATA PLEASE WRITE FACTORY FOR CERTIFIED DIMENSIONS.
- PUMP EQUIPPED WITH CASING DRAIN PLUG AND 1/4" NPT SUCTION AND DISCHARGE GAUGE PORTS

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