

Series 5800 Pump

Model: 58XX-XX01-B664

Flow Range: Open Flow = .65-1.20 GPM

At 130 PSI = .28-.45 GPM

COMPLETING THE PART NUMBER:

58XX-XX01-B664

Steel Mounting Plate (Other Types Available)

Desired Shut-off Pressure & Code

0 = None D = 50PSI H = 90PSI L = 130PSI

A = 30PSI E = 60PSI I = 100PSI

B = 40PSI F = 70PSI J = 110PSI

C = 45PSI G = 80PSI K = 120PSI

See Performance Data for Recommended By-pass Pressure and Code

Pressure Control Options

0 = No Control (Waiver Required)

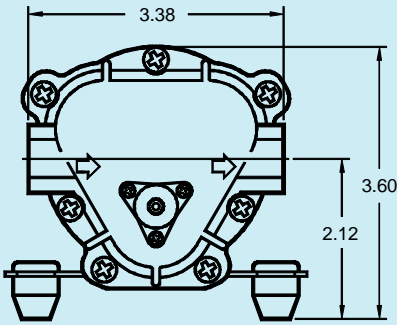
1 = Pressure Switch Control (Select Desired Shut Off Pressure)

2 = Pressure Relief Valve (Select Recommended By-Pass Pressure)

Select Pumphead Model From Performance Data Chart

3 = Open Ports for 3/8" Compression Fitting

5 = Push-to-Connect Ports for 3/8" Tubing



SPECIFICATIONS:

MOTOR:

TYPE:

12 VDC, Permanent Magnet,
Totally Enclosed, Non-Ventilated

LEADS:

14 AWG, 12" LONG

TEMP. LIMITS:

This Motor is Not Equipped with Thermal Protection. For User Safety, Optimal Performance, and Maximum Motor Life, The Motor Surface Temperature Should Not Exceed 150°F (66°C), as Shown on the Heat Rise Graph. See Heat Rise Graph

DUTY CYCLE:

PUMP DESIGN:

3 Chamber Diaphragm Pump, Self Priming,
Capable of Being Run Dry

TYPICAL APPLICATION:

Industrial Grade Water Transfer

MATERIALS:

HOUSINGS:

Nylon

VALVES:

EPDM

DIAPHRAGM:

Santoprene

FASTENERS:

Stainless Steel

LIQUID TEMPERATURE:

170°F (77°C) Max.

PUMP CERTIFICATIONS:

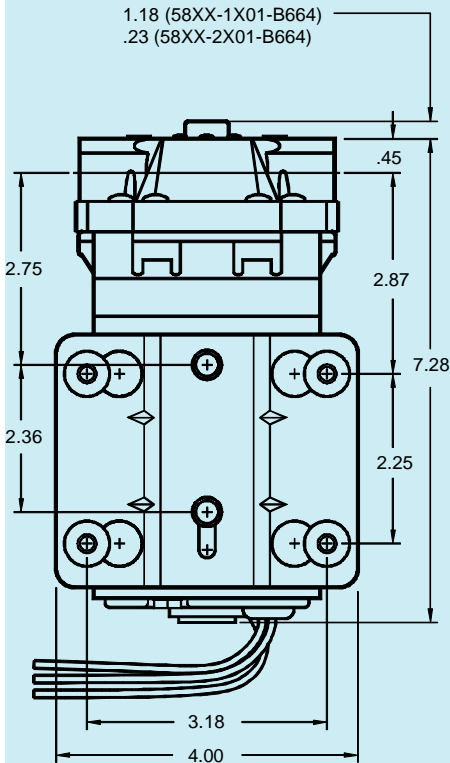
NSF Standard 58

PRIMING CAPABILITIES:

	58X0	58X1	58X2	58X3
PRIME (FEET)	5	6	7	10

FITTINGS:

TYPE	SHAPE	KIT NO.	CONNECTS TO...
3/8" COMPRESSION	STRAIGHT	25-145	3/8" TUBING
3/8" COMPRESSION	ELBOW	25-146	3/8" TUBING
3/8" STEM	STRAIGHT	25-144	3/8" JOHN GUEST PUSH-ON FITTING



WEIGHT: 6 lbs.



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DOCUMENT:
ISSUED:
REVISED:

DS58XX-XX01-B664
12/8/99
1/27/04

Series 5800 Pump

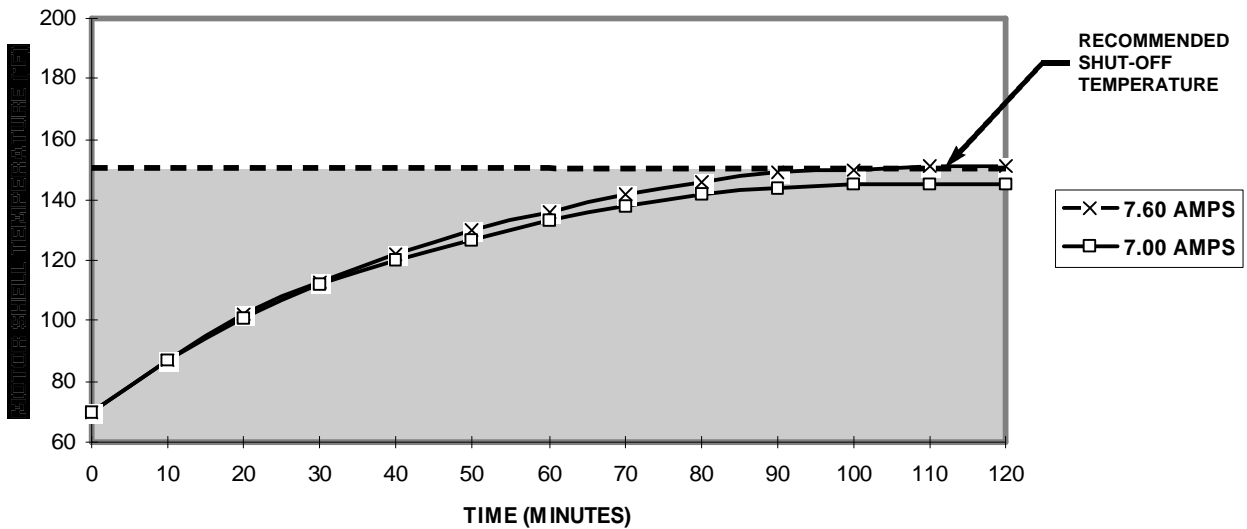
Model: 58XX-XX01-B664

PERFORMANCE DATA										
DISCHARGE PRESSURE (PSI)	PUMPHEAD MODEL								RECOMMENDED BY-PASS PRESSURE	
	58X0		58X1		58X2		58X3		PSI	CODE
	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)		
130	0.28	4.00	0.35	5.00	0.38	6.20	0.45	7.60	160	P
120	0.32	3.80	0.40	4.80	0.45	6.00	0.55	7.10	150	N
110	0.35	3.60	0.45	4.60	0.52	5.60	0.66	6.60	140	M
100	0.38	3.40	0.48	4.40	0.60	5.50	0.76	6.50	130	L
90	0.41	3.30	0.52	4.00	0.67	5.10	0.82	6.00	120	K
80	0.45	3.10	0.56	3.60	0.75	4.60	0.86	5.20	110	J
70	0.48	2.80	0.60	3.30	0.80	4.20	0.90	5.10	100	I
60	0.49	2.60	0.62	3.20	0.82	3.80	0.94	4.50	90	H
50	0.50	2.50	0.66	2.80	0.86	3.50	0.96	4.20	80	G
40	0.54	2.20	0.68	2.75	0.87	3.20	0.98	3.80	70	F
30	0.55	2.00	0.70	2.70	0.90	2.80	0.99	3.30	60	E
20	0.58	1.75	0.74	2.60	0.92	2.40	1.00	3.00	50	D
10	0.62	1.50	0.76	1.70	0.94	2.15	1.15	2.80	40	B
OPEN	0.65	1.40	0.78	1.60	0.96	2.10	1.20	2.70	30	A

PERFORMANCE MEASURED WITH FLOODED INLET (0 PSI), 70°F (21°C) AMBIENT AND WATER TEMPERATURE, AND VOLTAGE CONTROLLED AT 12 VDC. POSITIVE INLET PRESSURE WILL INCREASE THE DISCHARGE PRESSURE BY A SIMILAR AMOUNT, FOR A GIVEN FLOW. MAXIMUM INLET PRESSURE IS 60 PSI.

SHADED AREA DENOTES CONTINUOUS OPERATION CAPABILITY AT DESIGNATED PRESSURE AND CURRENT.

HEAT RISE



The shaded area in both the Performance Data and Heat Rise charts, contains pumps with current levels that are capable of running without periodic cool down. Pumps in this category will generally transfer more water over sustained periods than those in the unshaded areas, which are required to shut down while the motor cools. Some applications require maximum flows at high pressures for relatively short periods, however, so an explanation of thermal protection follows:

1. The Heat Rise graph plots the highest current that can run without ever leaving the Shaded Area, in this case, 7.00 amps. All pumps with lower operating currents may also run continuously, unless the surrounding air temperature exceeds 70°F (21°C).
2. The other curve shown is the highest flow and pressure model offered, the 58X3. At 130 PSI, this pump will flow .45 GPM, drawing 7.60 amps.
3. The motor driving all of these pump models DOES NOT have built in means of limiting temperature. Instead the user must be aware of the consequences of exceeding a recommended 150°F surface temperature, and of the approximate heating and cooling duration for safe operation. After the initial room temperature heat rise as shown, the model 58X3 reaches the recommended shut off temperature after about 45 minutes of run time, pumping about 20 gallons at 130 PSI.
4. Motors of this size and construction require 20 to 40 minutes of cooling time before the thermal protector closes and re-energizes the pump. Lower current levels heat more slowly, allowing longer run times, but the cool down time still averages about 30 minutes, at 70°F ambient temperature.
5. Your application may call for short bursts of water, consuming far less than the 45 minutes of sustained operation. Start up current exceeds normal running current, however, so cycling should be limited to 6 times per minute.

ALL PERFORMANCE AND HEAT RISE FIGURES ARE APPROXIMATE. ACTUAL VALUES WILL VARY WITH AMBIENT CONDITIONS.