

JAN 17

Supersedes all previous issues

"H" PREFIX INDICATES HIGH PRESSURE CASING

PUMP	SIZE	8x6x14F-S	H8x6x14F-S	8x6x14F-L	H8x6x14F-L	16X10X22F	H16X10X22F
	TYPE	8150	8150	8150	8150	8150	8150
STAGES		1	1	1	1	1	1

**CASING DESIGN**

FLANGE RATING	SUCTION	125	125 OR 250	125	125 OR 250	125	125 OR 250
	DISCHARGE	125	250	125	250	125	250
CASING MATERIAL		<i>DUCTILE IRON ASTM A536 GR 65-45-12</i>	<i>DUCTILE IRON ASTM A536 GR 65-45-12</i>	<i>DUCTILE IRON ASTM A536 GR 65-45-12</i>	<i>DUCTILE IRON ASTM A536 GR 65-45-12</i>	<i>DUCTILE IRON ASTM A536 GR 65-45-12</i>	<i>DUCTILE IRON ASTM A536 GR 65-45-12</i>
MAX DISCHARGE PRESSURE (PSIG)		250	380	250	380	250	325
MAX SUCTION PRESSURE (PSIG)		100	200	100	200	100	200
MAX HYDROSTATIC PRESSURE (PSIG)		375	570	375	570	375	488
CASING WALL THICKNESS		0.58	0.58	0.58	0.58	0.72	0.72

**STUFFING BOX DESIGN**

BORE	3.75	3.75	3.75	3.75	5.25	5.25
DEPTH	3.25	3.25	3.25	3.25	4.0	4.0
PACKING: # RINGS / SIZE SQUARE	5 / .50	5 / .50	5 / .50	5 / .50	5 / .62	5 / .62
SEAL CAGE WIDTH	0.50	0.50	0.50	0.50	0.62	0.62
SHAFT SLEEVE O.D.	2.75	2.75	2.75	2.75	4.0	4.0

**IMPELLER DESIGN**

# OF VANES	5	5	6	6	4	4
INLET AREA (IN <sup>2</sup> )	28.27	28.27	28.27	28.27	78.5	78.5
MAX DIAMETER	14.625	14.625	14.625	14.625	22.25	22.25
MIN DIAMETER	10.5	10.5	10.5	10.5	16.17	16.17
MAX SPHERE	0.87	0.87	0.86	0.86	1.05	1.05
WR <sup>2</sup> FOR MAX DIA (LBS-FT <sup>2</sup> )	11.5	11.5	7.2	7.2	74	74
WEAR RING CLEARANCE - DIAMETRICAL	.015-.019	.015-.019	.015-.019	.015-.019	.019-.023	.019-.023

**SHAFT AND BEARING DATA**

DIA THRU IMPELLER		2.5	2.5	2.5	2.5	3.625	3.625
DIA THRU SLEEVE		2.375	2.375	2.375	2.375	3.50	3.50
DIA AT COUPLING		1.75	1.75	1.75	1.75	3.125	3.125
SHAFT SPAN - BRG TO BRG		30.22	30.22	30.22	30.22	44.67	44.67
BALL BEARING	INBOARD BRG #	6309	6309	6309	6309	6316	6316
	DIA THRU BRG	1.772	1.772	1.772	1.772	3.150	3.150
	OUTBOARD BRG #	6309	6309	6309	6309	6316	6316
	DIA THRU BRG	1.772	1.772	1.772	1.772	3.150	3.150
FRAME NUMBER		-	-	-	-	-	-
INSTRUCTION BOOK		AC6102	AC6102	AC6102	AC6102	AC6102	AC6102