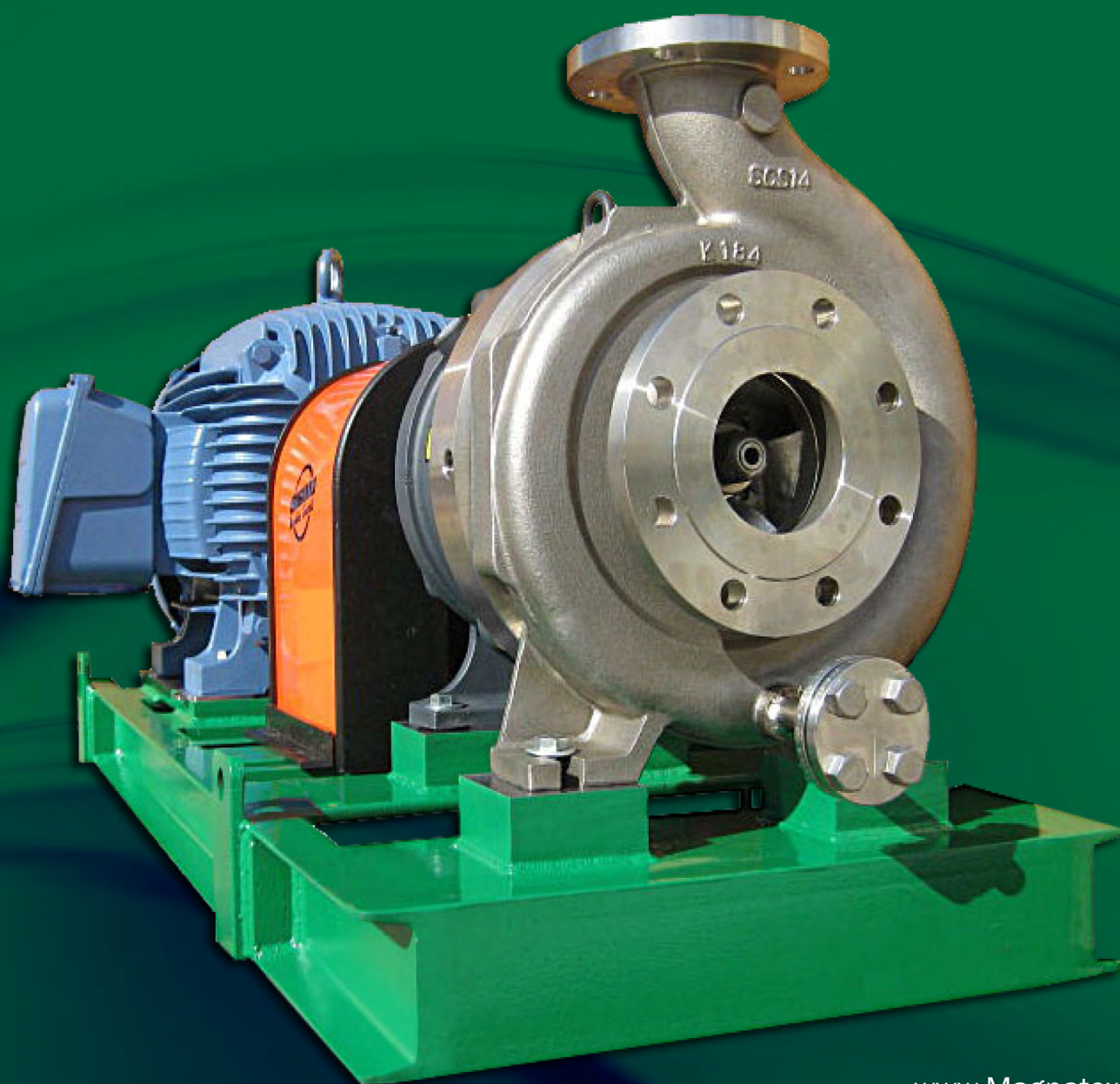


MAGNATEX[®]

Pumps, Inc.









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6LQFH

\RXU SURFHVV UHOLDELOLW\ KD

	<p>0\$;3 6HULHV \$16, 0DJQHWLF 'ULYH</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 7HPSHUDWXUH 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ &DUERQ 6WHHO \$OOR\ \$OOR\ % 0RQHO 7LWDQLXP %HDULQJV 6L& 6L&</p>	<p>6HULHV \$16, 0HFKDQLFDO 6HDO</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 7HPSHUDWXUH XS W 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ 66 \$OOR\ \$OOR\ % 0RQHO 7LWDQLXP %HDULQJV 6L& 6L&</p>	
	<p>03 03/ 03+ 6HULHV 6XE \$16, \$16, 0DJQHWLF 'ULYH</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 7HPSHUDWXUH f WR 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ 66 \$OOR\ \$OOR\ % %HDULQJV 6L& 6L&</p>	<p>03 6HULHV 0DJQHWLF 'ULYH</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 7HPSHUDWXUH f WR 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ 66 \$OOR\ \$OOR\ % %HDULQJV 6L& 6L&</p>	
	<p>003 6HULHV 0DJQHWLF 'ULYH</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 7HPSHUDWXUH f WR 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ 66 \$OOR\ \$OOR\ % %HDULQJV 6L& 6L&</p>	<p>0(3 6HULHV 0DJQHWLF 'ULYH</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 7HPSHUDWXUH f WR 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ 66 \$OOR\ \$OOR\ % %HDULQJV 6L& 6L&</p>	
	<p>07\$ 6HULHV \$16, 0DJQHWLF 'ULYH</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 7HPSHUDWXUH f WR 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ 3) \$ /LQHG %HDULQJV & 37)(6KDIW 6L&</p>	<p>0(6HULHV 0DJQHWLF 'ULYH</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 7HPSHUDWXUH f WR 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ (7) (/LQHG '39') /LQHG %HDULQJV & 37)(6L& 6KDIW & HUDPLF 6L&</p>	
	<p>6 6HULHV *HDU 3XPSV 0HFKDQLFDO 6HDO</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 0D[7HPSHUDWXUH f WR 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ 66 \$OOR\ \$OOR\ % 0RQHO 7LWDQLXP %HDULQJV 6L& 6L&</p>	<p>60 6HULHV *HDU 3XPSV 0DJQHWLF 'ULYH</p> <p>0D[)ORZ JSP 0D[+HDG IHHW 0D[7HPSHUDWXUH f WR 0D[3RZHU KS 0DWHULDOV RI &RQVWUXFWLRQ 66 \$OOR\ \$OOR\ % 0RQHO 7LWDQLXP %HDULQJV 6L& 6L&</p>	

&XVWRP HQJLQHUNG SXPSV DUH DYDLODEOH IRU FRQGLWLRQV WKDW

MAGNATEX[®]

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0DJQHWLF 'ULYH 6HDOOHVV 3XP

0\$*1\$7(, \$ 003 6HULHV



7KH 003 6HULHV PDJQHWLFD00\ GULYHQ V
KHDY\ GXW\ PDJ GULYH SXPSV ZLWK VXSU
IRU ORZ ARZ DSSOLFDWLRQV 7KHV\ FORV
FRQVWUXFWLRQ WR WKH 03/ 03 6HULHV HI
DQG WKH VXFWRQ GLVFKDUJH SRUWV DUH
DYDLODEOH

7KH 003 6HULHV SXPSV DUH KLJK TXDO LW
SXPSV XWLOL]LQJ RXU H[FOXVLYH VWUDGG
ZLWK WKH VKDIW WKUXVW ULQJ DQG EXVK
FDUELGH PDWHULDO 6HDOOHVV SXPSV KH
5HOHDVH\ LVVXH

\$00 0DJQHWLF V DQG VSDUH SDUWV FRPH Z
XQFRQGLWLRQDO ZDUUDQW\ RQ PDWHULDO

0DWHULDOV RI &RQVWUXFWLRQ

0\$*1\$7(, \$ 003 6HULHV 6SHFL\FDWLRQV

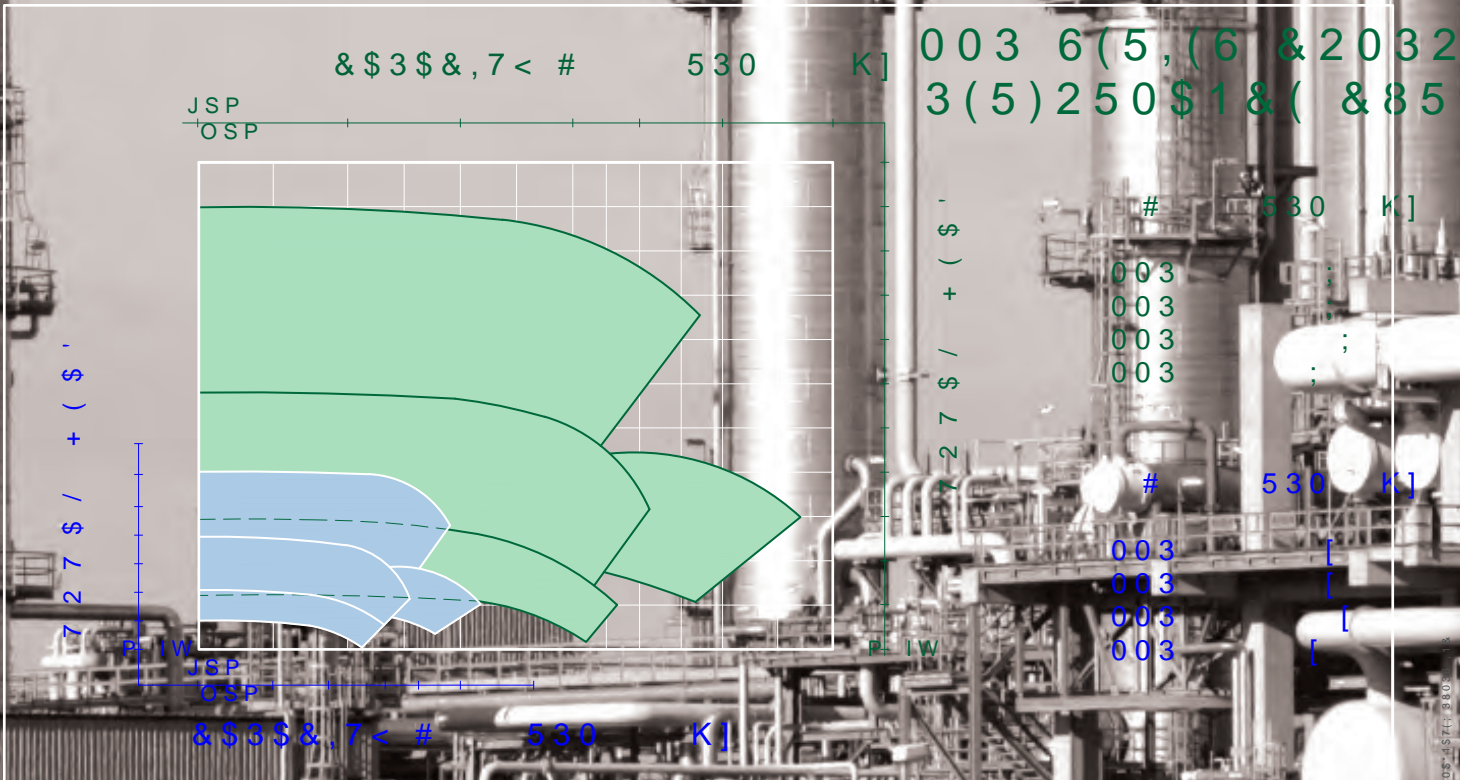
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/LTXLG 7HPSHUDWXUH	f) WR f)
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%HDULQJV	6L& 6L& ; 6WDQG
:RUNLQJ 3UHVXUH	SVLJ
,PSHOHU	(QFORVHG
6SHHG	8S WR USP
0DJQHW	1HRG\PLXP
0RWUR	1(0\$ RU ,(&)UDPH ORXQWH

† 66

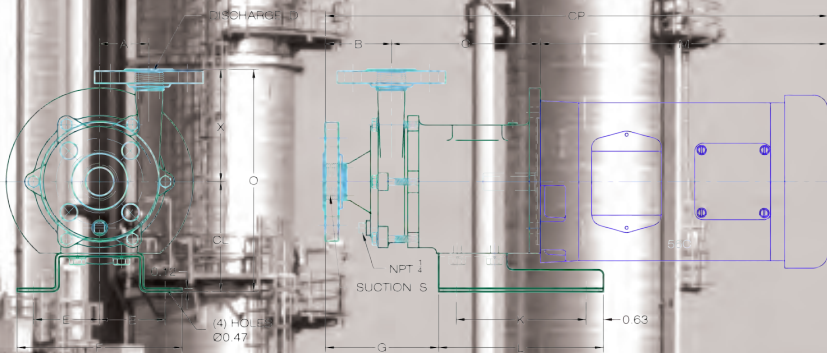
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2SWLRQDO KLJK S
BRGOV IRU VXFV
FRQGLWLRQV WR
DQG PRUH



SHOWN WITH OPTIONAL FLANGES



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DIMENSIONAL DRAWING
MMP SERIES CLOSE-COUPLED PUMP

DRAWN BY: B VALENTIN DATE: 08/13/09 SCALE: NTS PAGE: 1 OF 1

DD-MMP SERIES

ALL DIMENSIONS IN INCHES ± 0.12"

NOT FOR CONSTRUCTION

MODEL	MOTOR FRAME	DIMENSIONS										STANDARD NPT					* OPTIONAL 150# ANSI RF					APROX. WEIGHT lbs.	
		M	CP	B	C	E	F	G	K	L	CL	S	D	A	X	O	S	D	A	X'	O'	PUMP	MOTOR
MMP11	56 C	13.85 MAX	20.95	1.80	5.30			3.40				1/2	1.80	4.00	8.00	1/2	1.80	4.06	8.06	40	40		
MMP21			21.15	2.00	5.30	2.35	5.90	3.00	4.60	5.90	4.00	3/4	2.00	4.70	8.70	3/4	2.00	4.76	8.76	44	46		
MMP22			21.65	2.40	5.40			4.10					1/2	3/4	1.80	4.00	8.00	1/2	3/4	1.80	4.06	8.06	44	40

*DOES NOT CHANGE THE PRESSURE RATING OF THE PUMP

MAGNATEX[®]

Pumps, Inc.

0DJQHWLF 'ULYH VXE \$16, 3XPS

0\$*1\$7(, \$ 03 6HULHV



&ORVH FRXSOHG FRPSDFW 03 6HULHV
GSHHQGDEOH FKRLFH IRU PHGLXP ARZ
7KH 03 6HULHV SXPS IHDWXUHV VXE \$
ARZ DSSOLFDWLRQV IIRUGDEOH \$ KLJK
SXPSV JLYH \RX KLJKHU HI FLHQF\ ZLW
ORZHU WRWDO FRVW RI RZQHUVKLS

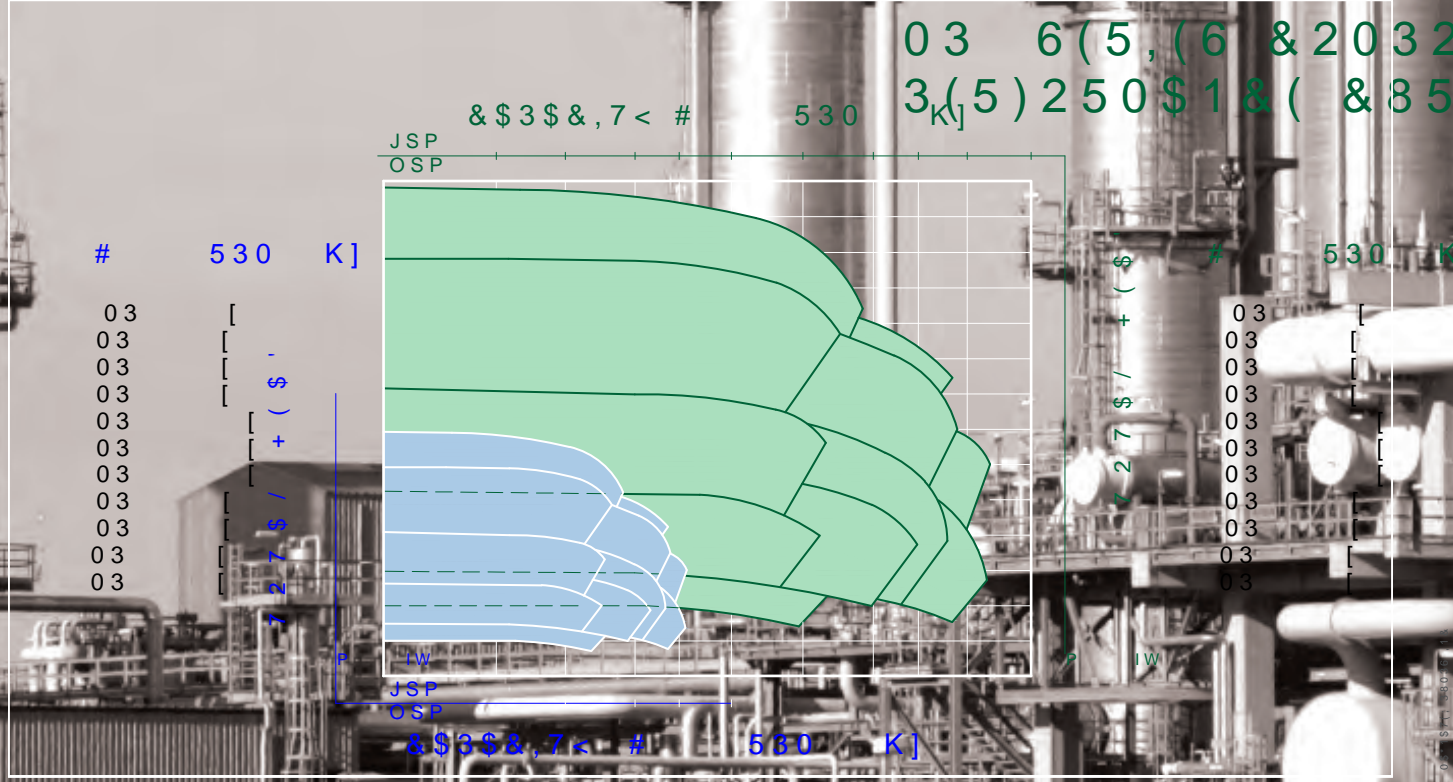
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‡ 6WUDGGOH PRXQWHG GRXEOH EHDULQJ
DQG EHDULQJ ZHDU ZKHQ FRPSDUHG WR
FDQWLOHYHUHG RYHUKXQJ GHVLJQV
‡ 6OLS W FRQVWUXFWLRQ DOORZV HDV PD
ZLWK QR VSHFLDO WRROV UHTXLUHG
‡ /DUJH LQWHUQDO ARZ SDWK KDQGOHV VRG
‡ &ORVH FRXSOHG FRQ JXUDWLRQ HOLPLQD
DOLJQPHQW LVVXH
‡ 1R H[SHQVLYH PHFKDQLFDO VHDOV HOLPLQ
SXPS UHSDLU ZKLFK KHOSV HOLPLQDWH
‡ +DQGOHV WR[LQF QR[LRXV DQG FRUURVLYH
ZLWK LQFUHDVHG VDIHW\ WR SODQW SHU
‡ 2SWLRQDO KLJK WHPHUDWXUH FRQVWUX
‡ 2SWLRQDO EDI\HG UHDFWLYH GHVLJQ

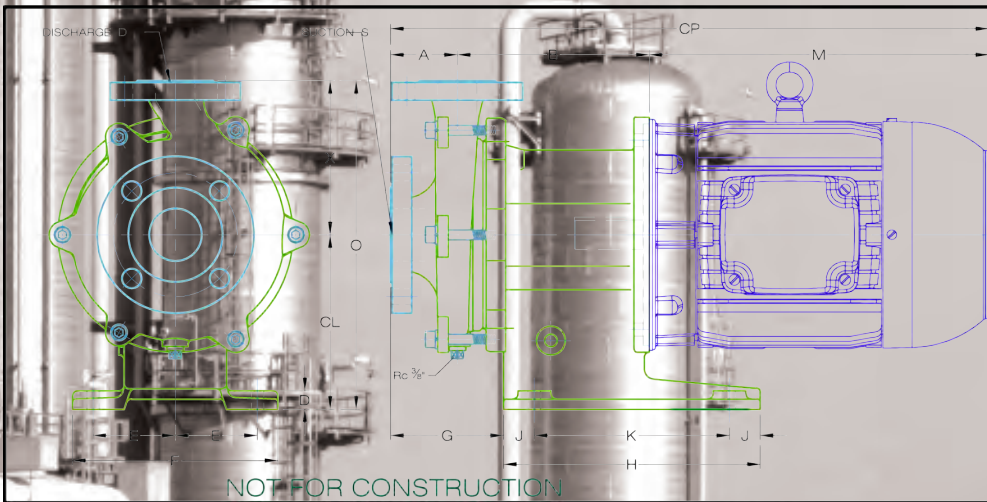
0\$*1\$7(, \$ 03 6HULHV 6SHFL FDWLRQV

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0D[LPXP +HDG)7
/LTXLG 7HPSHUDWXUH	f) WR f)
0D[LPXP 3RZHU	+3
0D[LPXP :RUNLQJ 3UHVXUH	SVLJ
&RQQHFWRQV	5))ODQJHV
%HDULQJV	6L & 6L & ; 6WDQGDUG
,PSHOOHU	(QFORVHG
6SHHG	8S WR USP
0DJQHW	1HRG\PLXP RU 6DPDUL
0RWRU	1(0\$ RU ,(&)UDPH ORX



‡ 2SWLRQDO KLJK SUHVXUH
VXFWLRQ FRQGLWLRQV WR
0DWHULDOV & RQVWUX
‡ 66
‡ \$OOR\
‡ \$OOR\ % &





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DIMENSIONAL DRAWING
MP SERIES CLOSE-COUPLED PUMP

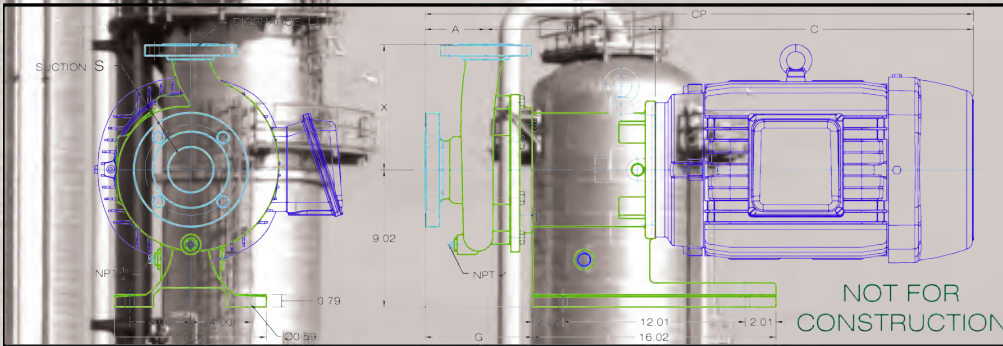
DRAWN BY: B VALENTIN DATE: 07/02/10 SCALE: NTS PAGE: 1 OF 1

DD-MP SERIES

ALL DIMENSIONS IN INCHES ± 0.12"

MODEL	DIMENSIONS														PUMP LBS	MOTOR				MTR LBS	MOTOR				MTR LBS
	S	D	A	B	D	E	F	G	H	J	K	X	CL	O		MOTOR FRAME	M	CP	MTR LBS		MOTOR FRAME	M	CP	MTR LBS	
MP220	1.00	0.75	2.36	6.85	0.47	2.56	5.12	4.33	7.09	1.18	4.72	4.72	4.33	9.06	55	56C	10.29	19.50	31	145TC	11.21	20.42	56		
					143TC										10.23	19.44	54	184TC	12.96	22.17	108				
					182TC										12.02	21.23	99	184TC	12.96	22.17	108				
MP221	1.00	0.75	2.56	6.65	0.47	3.15	7.87	4.33	9.84	1.18	7.48	5.12	6.69	11.81	60	143TC	10.23	19.44	54	145TC	11.21	20.42	56		
				68	182TC										12.02	21.94	99	184TC	12.96	22.88	108				
				60	143TC										10.23	19.44	54	145TC	11.21	20.42	56				
MP222	1.00	0.75	2.56	6.65	0.71	3.15	7.87	4.33	9.84	1.18	7.48	5.51	6.69	12.20	60	143TC	10.23	19.44	54	145TC	11.21	20.42	56		
				68	182TC										12.02	21.94	99	184TC	12.96	22.88	108				
				62	143TC										10.23	20.03	54	145TC	11.21	21.01	56				
MP420 / 421	1.50	1.00	2.95	6.85	0.71	3.15	7.87	4.92	9.84	1.18	7.48	5.31	6.69	12.01	70	182TC	12.02	22.53	99	184TC	12.96	23.47	108		
				7.36	0.71										4.92	11.42	4.92	13.78	0.98	11.81	6.50	7.09	13.58	139	213TC	14.59	28.02	139	215TC	16.09	29.52	173
MP423	1.50	1.00	4.02	9.41	0.71	4.92	11.42	4.92	13.78	0.98	11.81	6.50	7.09	13.58	139	213TC	14.59	28.02	139	215TC	16.09	29.52	173		
MP541	2.00	1.50	3.15	6.85	0.71	3.15	7.87	5.12	9.84	1.18	7.48	5.51	6.69	12.20	73	143TC	10.23	20.23	54	145TC	11.21	21.21	56		
				7.56	0.71										3.15	7.87	4.33	9.84	1.18	7.48	5.91	6.69	12.60	79	182TC	12.02	21.94	99	184TC	12.96	23.67	108
MP542	2.00	1.50	2.56	7.36	0.71	3.15	7.87	4.33	9.84	1.18	7.48	5.91	6.69	12.60	79	182TC	12.02	21.94	99	184TC	12.96	22.88	108		
MP543	2.00	1.50	4.02	9.41	0.71	4.92	11.42	4.92	13.78	0.98	11.81	6.50	7.09	13.58	143	213TC	14.59	28.02	139	215TC	16.09	29.52	173		
MP842	3.00	1.50	4.20	9.41	0.71	4.92	11.42	0.98	13.78	0.98	11.81	6.50	7.09	13.58	147	213TC	14.59	28.20	139	215TC	16.09	29.70	173		

MAGNETEX PUMPS, INC. 10000 W. 10TH AVENUE, DENVER, CO 80202



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DIMENSIONAL DRAWING
MPL SERIES ANSI PUMP

DRAWN BY: B. VALENTIN DATE: 06/29/10 SCALE: NTS PAGE 1 OF 1

DD-MPL SERIES

ALL DIMENSIONS IN INCHES ± 0.12"

MODEL	DIMENSIONS																
	S	D	A	B	X	G	PUMP LBS	MOTOR FRAME	C	CP	MTR LBS	Total lbs	MOTOR FRAME	C	CP	MTR LBS	Total lbs
MPL40	1.5	1.0	4.0	11.0	6.5	6.9	187	182TC	12.02	22.98	99	286	184TC	13.01	27.99	108	295
								213TC	14.59	25.55	165	352	215TC	16.09	31.07	153	340
								254TC	19.21	30.17	238	425	256TC	20.96	35.94	259	446
MPL42	1.5	1.0	4.0	11.0	6.5	6.9	187	182TC	12.02	22.98	99	286	184TC	13.01	27.99	108	295
								213TC	14.59	25.55	165	352	215TC	16.09	31.07	153	340
								254TC	19.21	30.17	238	425	256TC	20.96	35.94	259	446
MPL42LF	1.5	1.0	4.0	11.0	6.5	6.9	187	182TC	12.02	22.98	99	286	184TC	13.01	27.99	108	295
								213TC	14.59	25.55	165	352	215TC	16.09	31.07	153	340
								254TC	19.21	30.17	238	425	256TC	20.96	35.94	259	446
MPL52LF	2.0	1.0	4.0	11.2	8.5	7.1	187	182TC	12.02	23.18	99	286	184TC	13.01	28.19	108	295
								213TC	14.59	25.75	165	352	215TC	16.09	31.27	153	340
								254TC	19.21	30.37	238	425	256TC	20.96	36.14	259	446
MPL84	3.0	1.5	4.0	11.0	6.5	6.9	187	182TC	12.02	22.98	99	286	184TC	13.01	27.99	108	295
								213TC	14.59	25.55	165	352	215TC	16.09	31.07	153	340
								254TC	19.21	30.17	238	425	256TC	20.96	35.94	259	446
MPL84-8	3.0	1.5	4.0	11.2	8.5	7.1	187	182TC	12.02	23.18	99	286	184TC	13.01	28.19	108	295
								213TC	14.59	25.75	165	352	215TC	16.09	31.27	153	340
								254TC	19.21	30.37	238	425	256TC	20.96	36.14	259	446
MPL85	3.0	2.0	4.0	11.2	8.3	7.1	187	182TC	12.02	23.18	99	286	184TC	13.01	28.19	108	295
								213TC	14.59	25.75	165	352	215TC	16.09	31.27	153	340
								254TC	19.21	30.37	238	425	256TC	20.96	36.14	259	446

MAGNATEX Pumps, Inc. 7251 S. 80th St. Omaha, NE 68148

MAGNATEX[®]

Pumps, Inc.



0DJQHWLF 'ULYH 5HJHQHUDWLY

0\$*1\$7(;Š 037 6HULHV

037 6HULHV PDJQHWLFD00\ GULYHQ VHD00\ SXPSV DUH GHVLJQHG VSHFL¿FDOO\ IRU VPD 6HULHV IHDWXUHV FORVH FRXSOHG FRQWUX XVHV D UHJHQHUDWLYH WXUELQH YDQH LPSH SXPS K\GUDXOLFV DW ORZ ÀRZ UDWHV DQG

† 6WDQGDUG 6L& ; EHDULQJ VVWHP IR FDSDELOLW\

† 6WUDGGOH PRXQWHG LQQHU PDJQH RQ ERWK VLGHV RI WKH PDJQHW ZKH EHDULQJ ORDGV ZKHQ FRPSDUHG WR RYHUKXQJ FDQWLOHYHUHG LQQHU PD

† 6OLS ¿W FRQVWUXFWLRQ WKDW DOOR ZLWK QR VSHFLDO WRROV RU ¿WXUH

† &ORVH FRXSOHG FRQ¿XUDWLRQ HOL PRWRU DOLJQPHQW LVVXH

0\$*1\$7(;Š 037 6HULHV 6SHFL¿FDWLRQV†

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/LTXLG 7PHSHUDWXUH	f) WR f)
0D[LXPX 3RZHU	+3
0D[LXPX :RUNLQJ 3UHVXUH	SVLJ
&RQQHFWRQV	137 ZLWK 2SWLRQDO)ODJHV
%HDULQJV	6L& 6L& ;
,PSHOHU	7XUELQH 9DQH
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ORWRU	1(0\$ RU ,(&)UDPH ORXQWHG

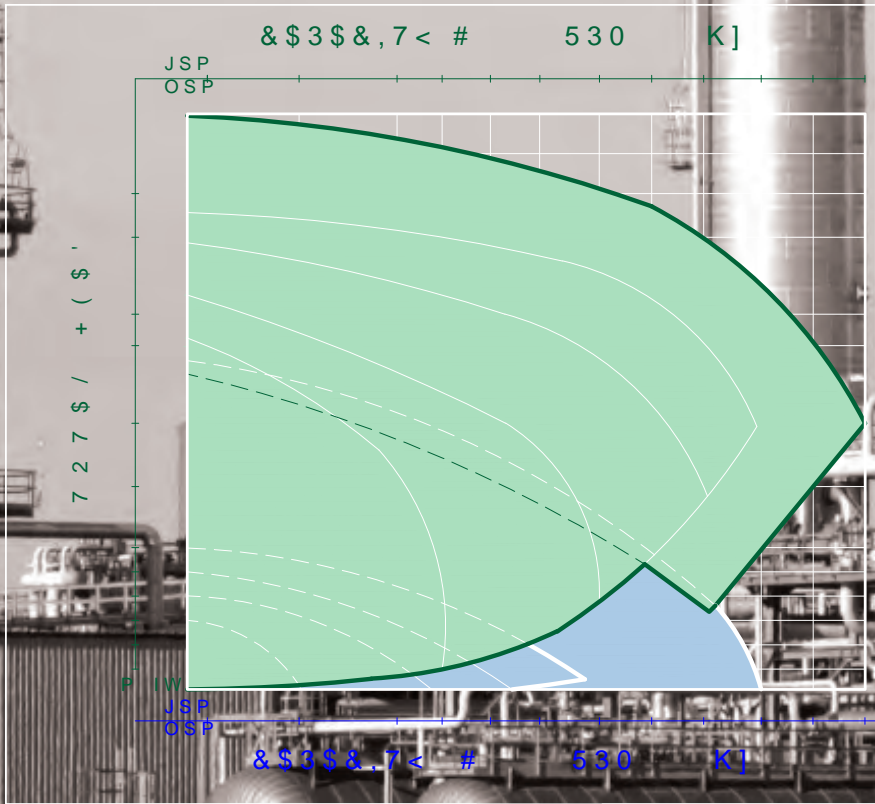
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† ([FHOHQW IRU SXPSLQJ HQWUDLQHG

† ([FHOHQW IRU ORZ 186-D DSSOLFDFW

† ODWHULDOV RI &RQVWUXFWLRQ † \$OOR\ % & † \$OOR\ † 7LWDQLXP



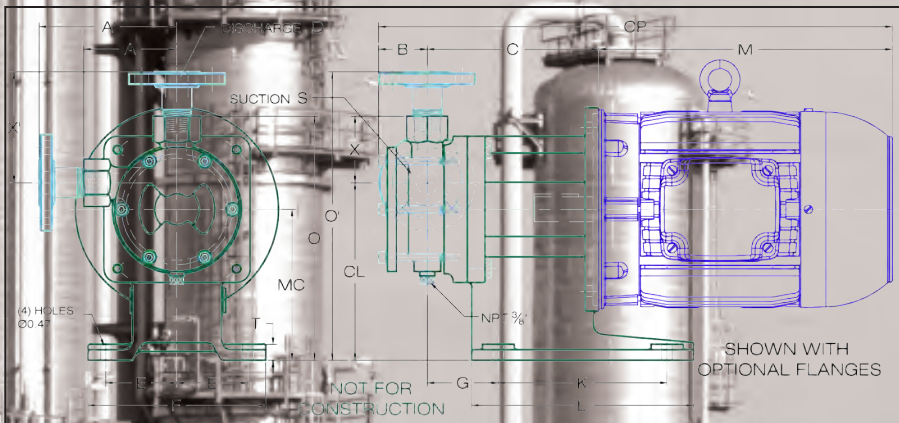
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DIMENSIONAL DRAWING
MPT SERIES CLOSE-COUPLED PUMP

DRAWN BY: B VALENTIN DATE: 10/20/10 SCALE: NTS PAGE: 1 OF 1

DD-MPT-SERIES R1

ALL DIMENSIONS ± 0.12" [3mm]

MODEL	MOTOR FRAME		DIMENSIONS in INCHES [MILLIMETERS]													STANDARD NPT			*OPTIONAL 150# ANSI RF			APPROX. WEIGHT			
	NEMA	IEC	M	CP	MC	CL	B	C	E	F	G	K	L	T	S&D	A	X	O	S&D	A'	X'	O'	lbs.(kgs.)	lbs.(kgs.)	
MPT 151	56C	63.71	80	10.29 [261]	18.30 [465]	4.33 [110]	5.31 [135]	1.36 [34.5]	6.65 [169]	2.56 [65]	6.30 [160]	2.99 [76]	4.72 [120]	7.09 [180]	0.47 [12]	1/2"	3.15 [80]	2.17 [55]	7.48 [190]	1/2"	5.12 [130]	4.13 [105]	9.45 [240]	35 (16)	31 (14)
	56C	63.71	80	10.29 [261]	18.56 [471]	4.33 [110]	5.31 [135]	1.42 [36]	6.85 [174]	2.56 [65]	6.30 [160]	3.15 [80]	4.72 [120]	7.09 [180]	0.47 [12]	3/4"	3.15 [80]	2.17 [55]	7.48 [190]	3/4"	5.12 [130]	4.13 [105]	9.45 [240]	44 (20)	31 (14)
MPT 201	143TC	90S	10.23 [260]	18.50 [470]	4.33 [110]	5.31 [135]	1.42 [36]	6.85 [174]	2.56 [65]	6.30 [160]	3.15 [80]	4.72 [120]	7.09 [180]	0.47 [12]	3/4"	3.15 [80]	2.17 [55]	7.48 [190]	3/4"	5.12 [130]	4.13 [105]	9.45 [240]	44 (20)	54 (25)	
	145TC	90L	11.50 [292]	19.77 [502]	4.33 [110]	5.51 [140]	1.61 [41]	6.85 [174]	2.56 [65]	6.30 [160]	3.15 [80]	4.72 [120]	7.09 [180]	0.47 [12]	1"	4.13 [105]	2.95 [75]	8.46 [215]	1"	6.10 [155]	4.92 [125]	10.43 [265]	44 (20)	58 (26)	
MPT 251	143TC	90S	10.23 [260]	18.69 [475]	4.33 [110]	5.51 [140]	1.61 [41]	6.85 [174]	2.56 [65]	6.30 [160]	3.15 [80]	4.72 [120]	7.09 [180]	0.47 [12]	1"	4.13 [105]	2.95 [75]	8.46 [215]	1"	6.10 [155]	4.92 [125]	10.43 [265]	44 (20)	54 (25)	
	145TC	90L	11.50 [292]	19.96 [507]	4.33 [110]	5.51 [140]	1.61 [41]	6.85 [174]	2.56 [65]	6.30 [160]	3.15 [80]	4.72 [120]	7.09 [180]	0.47 [12]	1"	4.13 [105]	2.95 [75]	8.46 [215]	1"	6.10 [155]	4.92 [125]	10.43 [265]	44 (20)	58 (26)	
	182TC	112S	12.02 [305]	21.23 [539]	6.69 [170]	7.87 [200]	1.77 [45]	7.60 [193]	3.15 [80]	7.87 [200]	3.15 [80]	4.72 [120]	7.09 [180]	0.71 [18]	1"	4.13 [105]	2.95 [75]	10.83 [275]	1"	6.10 [155]	4.92 [125]	12.80 [325]	55 (25)	99 (45)	
MPT252	143TC	90S	10.23 [260]	18.85 [479]	4.33 [110]	5.51 [140]	1.77 [45]	6.85 [174]	2.56 [65]	6.30 [160]	3.15 [80]	4.72 [120]	7.09 [180]	0.47 [12]	1"	4.13 [105]	2.95 [75]	8.46 [215]	1"	6.10 [155]	4.92 [125]	10.43 [265]	44 (20)	54 (25)	
	145TC	90L	11.50 [292]	20.12 [511]	4.33 [110]	5.51 [140]	1.77 [45]	6.85 [174]	2.56 [65]	6.30 [160]	3.15 [80]	4.72 [120]	7.09 [180]	0.47 [12]	1"	4.13 [105]	2.95 [75]	8.46 [215]	1"	6.10 [155]	4.92 [125]	10.43 [265]	44 (20)	58 (26)	
	182TC	112S	12.02 [305]	21.39 [543]	6.69 [170]	7.87 [200]	1.77 [45]	7.60 [193]	3.15 [80]	7.87 [200]	3.15 [80]	4.72 [120]	7.09 [180]	0.71 [18]	1"	4.13 [105]	2.95 [75]	10.83 [275]	1"	6.10 [155]	4.92 [125]	12.80 [325]	55 (25)	99 (45)	
184TC	112L	13.01 [330]	22.38 [568]	6.69 [170]	7.87 [200]	1.77 [45]	7.60 [193]	3.15 [80]	7.87 [200]	3.15 [80]	4.72 [120]	7.09 [180]	0.71 [18]	1"	4.13 [105]	2.95 [75]	10.83 [275]	1"	6.10 [155]	4.92 [125]	12.80 [325]	55 (25)	108 (49)		

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Pumps, Inc.



0DJQHWLF 'ULYH 6HDOOHVV \$16, 3

0\$*1\$7(;Š 0\$;3 6HULHV

7KH 0\$;3 6HULHV RI SXPSV KDV EHHO
WR FRQIRUP WR \$16, % GIBHOVRO
7KH SXPSV DUH H[WUHPHO\ UXJJHG ZA
WKHP LGHDO IRU ULJRURXV GXW\ LQ W
SHWURFKHPLFDO LQGXXVULHV

0DJQDWH[0\$;3 SXPSV KDYH WKH IRO
IHDWXUHV

" 6WUDGGOH PRXQWHG LQQHU PDJQHW
RQ ERWK VLGHV RI WKH PDJQHW²WKLYG
DQG EHDULQJ ORDGV ZKHQ FRPSDUHG W
RYHUKXQJ FDQWLOHYHUHG LQQHU PDJ

" 6OLS ;W FRQVWUXFWLRQ ZKLFK DOORZ
PDLQWHQDQFH ZLWK QR VSHFLDO WRRO

0\$*1\$7(;Š 0\$;3 6HULHV 6SHFL;FDWLRQV/DUJH LQWHUQDO ĀRZ SDWKV ZKLFK H

0D[LPXP)ORZ	*30
0D[LPXP +HDG	)7
/LTXLG 7HPSHUDWXUH	f) ± f)
0D[LPXP 3RZHU	XS WR +3
&RQQHFWRURQV	OE 5) VWG RU RSWLRQDO OE 5) \$16,)ODQJHV
%HDULQJ	6L& 6L& ; RSWLRQDO IRU XS RU 'U\ UXQ &RQLWLRQV
0D[LPXP :RUNLQJ 3UHVVXUH	VWDQGDUG SVLJ
,PSHOOHU	(QFORVHG
6SHHG	XS WR USP
0DJQHWV	1HRG\PLXP RU 6DPDULXP &REDOW IRU +LJK 7HPSHUDWXU
ORWRU	1(0\$ RU ,()UDPH
6HFRQGDU\ &RQWDLQPHQW	2SWLRQDO
6WHDP -DFNHVV	2SWLRQDO
([WHUQDO)OXVK	2SWLRQDO
5H FLUFXODWHG)OXVK	9HQW 2SWLRQDO
9RUWH[%UHDNHUV	2SWLRQDO IRU ,PSURYHG 6ROGV +DQGOLQJ
&HQWHUOLQH PRXQWHG	2SWLRQDO

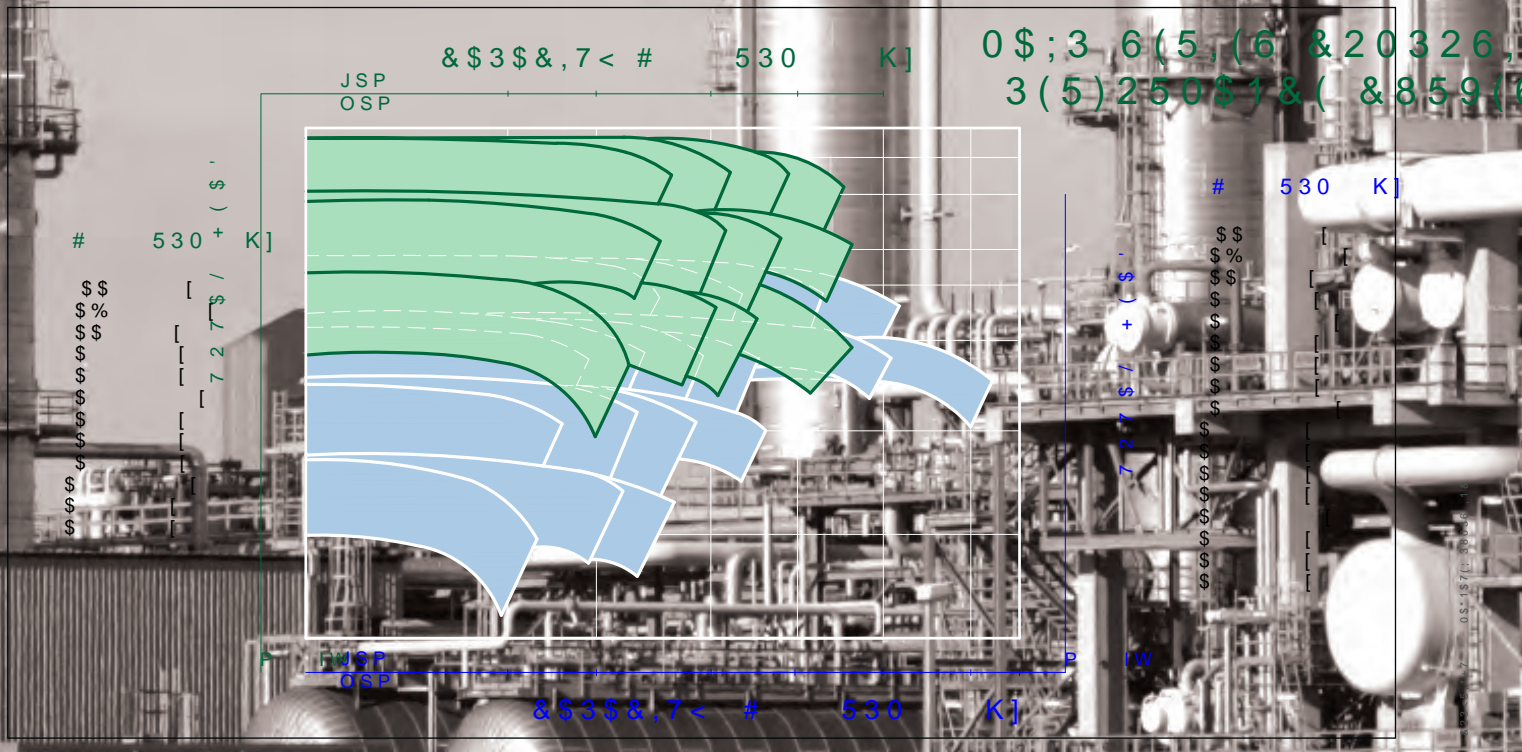
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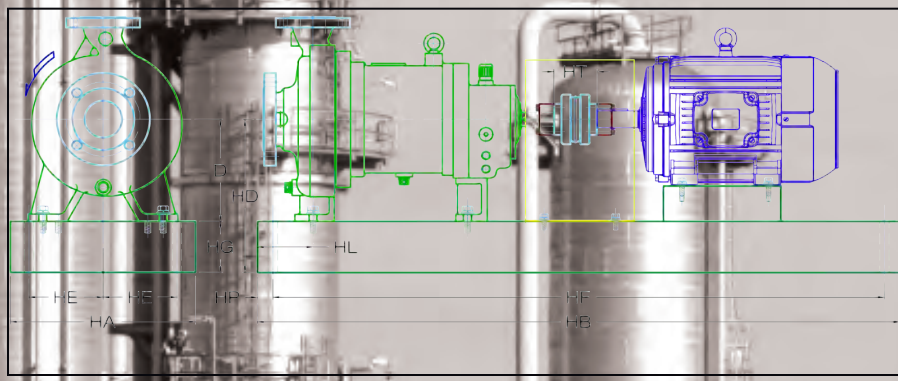
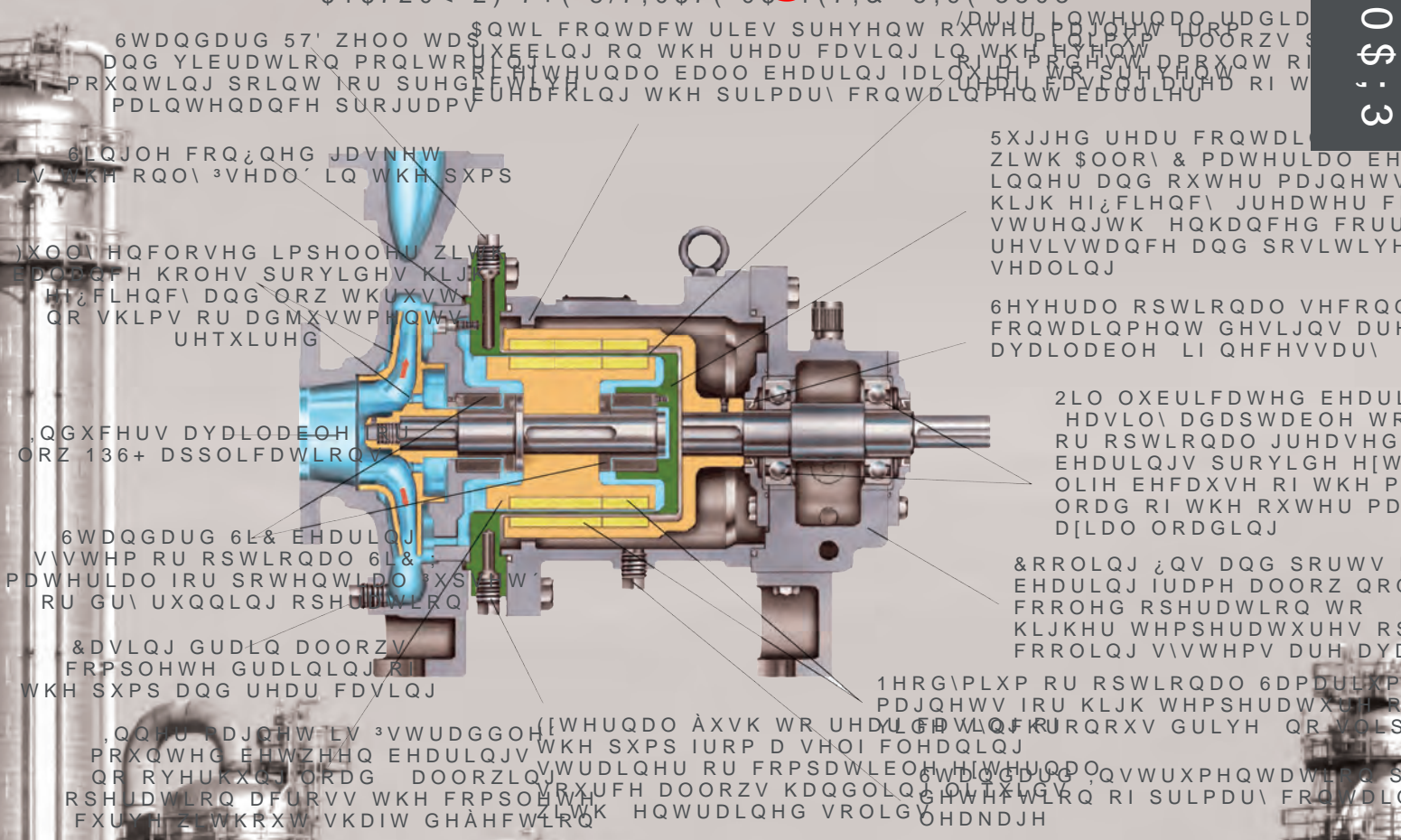
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WHPSHUDWXUH OLTXLGV ZLWK LQFUHDV
DQG WKH HQYLURQPHQW

" 6SHFLDO KLJK WHPSHUDWXUH FRQVWUX
DQGOH XS WR f)

" 6HYHDO GXDO FRQWDLQPHQW VVWHFV
YLUW\DOO\ HOLPLQDWH DQ OHDNDJH W
KDQGOHQJ H[WUHPHO\ KD]DUGRXV FKHPL

0DWHULDORV RI &RQVWUXFWLRQ
\$00R\ \$00HO
\$ 66 \$00R\ % \$8LWDQLXP





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MAGNATEX[®]
Pumps, Inc.

DIMENSIONAL DRAWING
MAXP SERIES ANSI PUMP

DRAWN BY: B VALENTIN DATE: 08/06/10 SCALE: NTS PAGE: 1 OF 1

DD-MAXP SERIES

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MAGNATEX MAXP SERIES ANSI BASEPLATE DIMENSIONS

NEMA Frame	Baseplate No.	HA MAX.	HB	HT	HD MAX.				HE	HF	HG MAX.	HH	HL	HP
					D=5.25 [133]	D=8.25 [210]	D=10 [254]	D=14.5 [368]						
184T	139	15 [381]	39 [991]	3.5 [89]	9 [229]	....	....	....	4.5 [114]	36.5 [927]	3.75 [95]	0.75 [19]	4.5 [114]	1.25 [32]
256T	148	18 [457]	48 [1219]	3.5 [89]	10.5 [267]	....	....	....	6 [152]	45.5 [1156]	4.13 [105]	0.75 [19]	4.5 [114]	1.25 [32]
326TS	153	21 [533]	53 [1346]	3.5 [89]	12.88 [327]	....	....	....	7.5 [191]	50.5 [1283]	4.75 [121]	0.75 [19]	4.5 [114]	1.25 [32]
184T	245	15 [381]	45 [1143]	3.5 [89]	....	12 [305]	13.75 [349]	....	4.5 [114]	42.5 [1080]	3.75 [95]	0.75 [19]	4.5 [114]	1.25 [32]
215T	252	18 [457]	52 [1321]	3.5 [89]	....	12.38 [314]	14.13 [359]	....	6 [152]	49.5 [1257]	4.13 [105]	0.75 [19]	4.5 [114]	1.25 [32]
286T	258	21 [533]	58 [1473]	3.5 [89]	....	13 [330]	14.75 [375]	....	7.5 [191]	55.5 [1410]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
365T	264	21 [533]	64 [1626]	3.5 [89]	....	13.88 [353]	14.75 [375]	....	7.5 [191]	61.5 [1562]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
405TS	268	26 [660]	68 [1727]	3.5 [89]	....	14.88 [378]	14.88 [378]	....	9.5 [241]	65.5 [1664]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
449TS	280	26 [660]	80 [2032]	3.5 [89]	....	15.88 [403]	15.88 [403]	....	9.5 [241]	77.5 [1969]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
286T	368	26 [660]	68 [1727]	5 [127]	....	....	....	19.25 [489]	9.5 [241]	65.5 [1664]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
405T	380	26 [660]	80 [2032]	5 [127]	....	....	....	19.25 [489]	9.5 [241]	77.5 [1096]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
449T	398	26 [660]	98 [2489]	5 [127]	19.25 [489]	9.5 [241]	95.5 [2426]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]

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0HFKDQLFDO 6HD0 \$16, 3XPSV

0\$*1\$7(, \$

6HULHV



+HDY\ GXW\ UXJJHG ZRUOG FODV
SURFHVV SXPSV PDQXIDFWXUHG TWR
\$60(% VWDQGDUG UHYLVLRO
% 0 3XPSV DUH PDQXIDFWXU
DQG D ZLGH YDULHW\ RI PDWHULDO
AXVK \VWHPV WR KDQGOH DOPRVW
SURFHVV LQGXVWULHV

0DJQDWH[6HULHV SXPSV DQG VSDU
ZLWK D \HDU XQFRQGLWLRQDO ZDU
ZRUNPDQVKLS

6SDUH 3DUWV IRU *RXOGV
DQG 3HHUOHVV SXPSV

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VXSSOLHU IRU DOO RI \RXU *RXOGV
,, RU 3HHUOHVV SXPSV

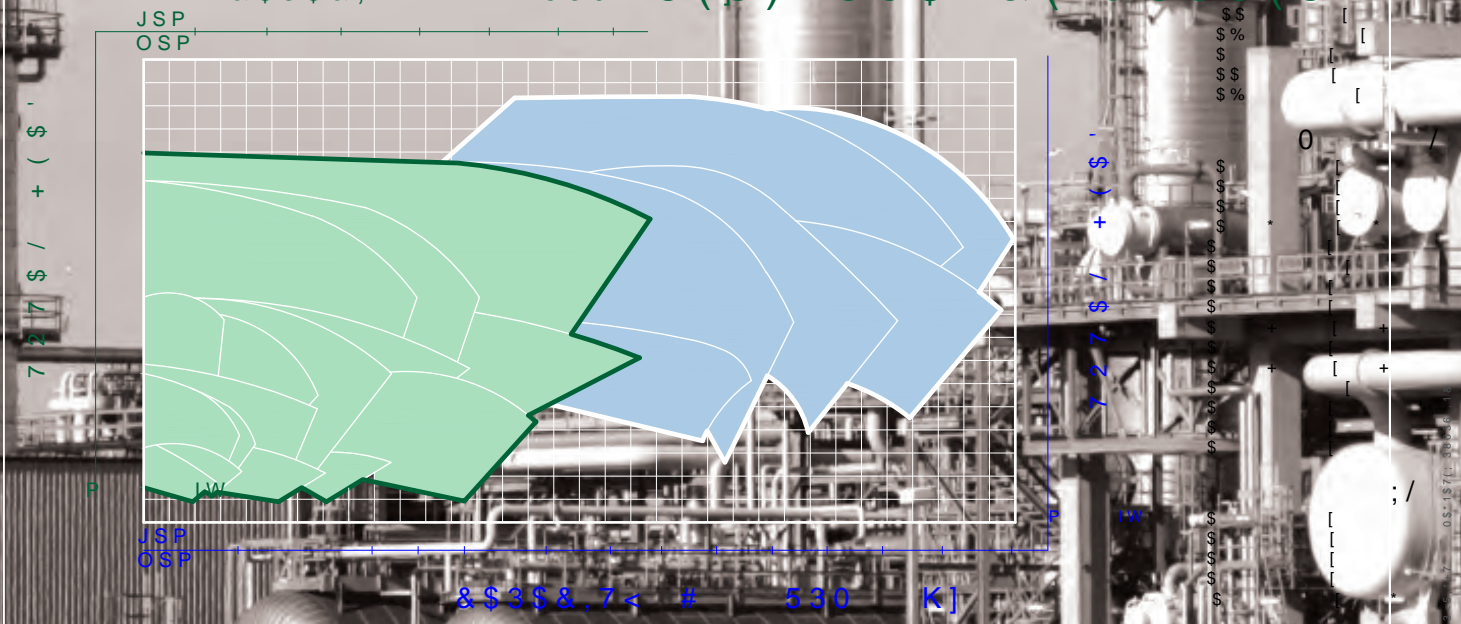
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PDQXIDFWXUHUV SHUIRUPDQFH VW
GHSDUWPHQW LV UFDG\ WR KHOS \R

0\$*1\$7(, \$ 6HULHV 6SHFL¿FDWLRQDWHULDOV RI &RQVWUXFWLRQ

/LTXLG 7HPSHUDWXUH	f) WR	f) WR	f&	± XFWLOH ,UR	±\$OOR\
0D[LPXP 6KDIW 'HÄFWLRQ	,QFK	PP	±6WHHO	±\$OOR\ %	
&RQQHFWRQV	) VWG RU	5) 2SWLRQDO	± 66	±1L +DUG	
% %HDULQJ /LIH		+RXUV	±&' 0&X	±7LWDQLXP	
0D[LPXP :RUNLQJ 3UHVVXUH	SVLJ	EDU			
6SHHG	8S WR	USP	# K]		
ORWRU	1(0\$ RU ,(&)RR	ORXQWHG			

6(5,(6 & 20326,7(3(5)250\$1&(&859(6



:HWWHG SDUWV DYDLODEOH LQ & DVW 6W HHO 'XFWLOH
URQ 66 & ' O&X \$OOR\ \$OOR\ % &
2LO PLVW OXEULFDWLRQ RSWLRQ & GRDG LWDQLXP PDWHULDOV WR VXLW DOPRVW
IRU VHYHUH HQYLURQPHQW DQV DSSOLFDFWLRQ

VFUQDOO\ DGMXVWDEOH LPSHOOHU
FOHDUDQFH PDLQWDLQV SHDN
SXPS SHUIRUPDOFH

\$16,)) ÅDQJHV 6WG
5) RSWLRQDO

1RWL FRQ¿UP SUHVXUH D
WHPHUDWXUH OLPLWV IRU
VSHFL¿F VHUYLFW

/DUJH FDSDFLW\ RLO SXPS DV
VXUHV SRVLWLYH OXEULFDWLRQ
DQG EHWWH FV

2SHQ LPSHOOHU ZLWK EDFN
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PLQLPLJHV D[LDO ORDGV DQ
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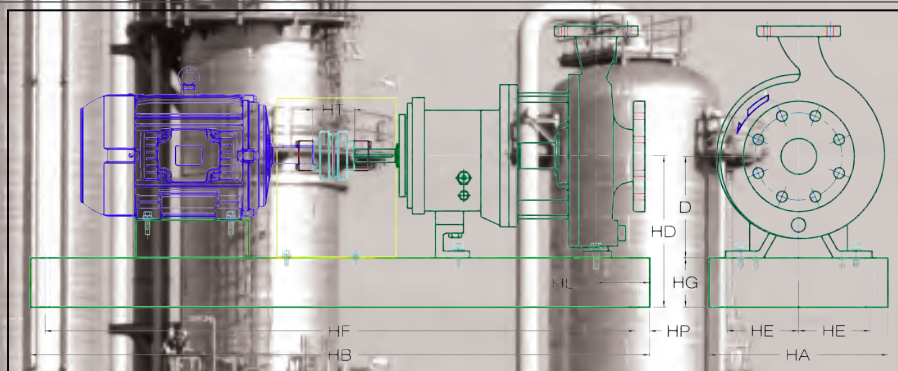
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2SWLRQDO GUDLQ
FRQQHFWRQ IDFLOLWD
PDLQWHQDQFH ZKHQ UHT

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VLJKW JDXJH LQVXUHV YLVLELOLW\
RI OXEULFDQW WR KHOS PDLQWDLQ
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VWDQGDUG ERUH DQG SDFNHG ER
DYDLODEOH WR VXLW DQ\ DSSOLFDFWLRQ

-HDY\GXW\ VKDIW PLQLPLJHV
VKDIW GHÅHFWLRQ RSWLRQDO
KRRN VOHHYH FRQVWUXFWLRQ
DYDLODEOH



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MAGNATEX[®]
Pumps, Inc.

DIMENSIONAL DRAWING
3575 SERIES ANSI PUMP

DRAWN BY: B VALENTIN DATE: 08/06/10 SCALE: NTS PAGE: 1 OF 1

DD-3575 SERIES

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MAGNATEX 3575 SERIES ANSI BASEPLATE DIMENSIONS

NEMA Frame	Baseplate No.	HA MAX.	HB	HT	HD MAX.				HE	HF	HG MAX.	HH	HL	HP
					D=5.25 [133]	D=8.25 [210]	D=10 [254]	D=14.5 [368]						
184T	139	15 [381]	39 [991]	3.5 [89]	9 [229]	.....	.....	.....	4.5 [114]	36.5 [927]	3.75 [95]	0.75 [19]	4.5 [114]	1.25 [32]
256T	148	18 [457]	48 [1219]	3.5 [89]	10.5 [267]	.....	.....	.....	6 [152]	45.5 [1156]	4.13 [105]	0.75 [19]	4.5 [114]	1.25 [32]
326TS	153	21 [533]	53 [1346]	3.5 [89]	12.88 [327]	.....	.....	.....	7.5 [191]	50.5 [1283]	4.75 [121]	0.75 [19]	4.5 [114]	1.25 [32]
184T	245	15 [381]	45 [1143]	3.5 [89]	.....	12 [305]	13.75 [349]	.....	4.5 [114]	42.5 [1080]	3.75 [95]	0.75 [19]	4.5 [114]	1.25 [32]
215T	252	18 [457]	52 [1321]	3.5 [89]	.....	12.38 [314]	14.13 [359]	.....	6 [152]	49.5 [1257]	4.13 [105]	0.75 [19]	4.5 [114]	1.25 [32]
286T	258	21 [533]	58 [1473]	3.5 [89]	.....	13 [330]	14.75 [375]	.....	7.5 [191]	55.5 [1410]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
365T	264	21 [533]	64 [1626]	3.5 [89]	.....	13.88 [353]	14.75 [375]	.....	7.5 [191]	61.5 [1562]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
405TS	268	26 [660]	68 [1727]	3.5 [89]	.....	14.88 [378]	14.88 [378]	.....	9.5 [241]	65.5 [1664]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
449TS	280	26 [660]	80 [2032]	3.5 [89]	.....	15.88 [403]	15.88 [403]	.....	9.5 [241]	77.5 [1969]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
286T	368	26 [660]	68 [1727]	5 [127]	.....	.....	.....	19.25 [489]	9.5 [241]	65.5 [1664]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
405T	380	26 [660]	80 [2032]	5 [127]	.....	.....	.....	19.25 [489]	9.5 [241]	77.5 [1096]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]
449T	398	26 [660]	98 [2489]	5 [127]	19.25 [489]	9.5 [241]	95.5 [2426]	4.75 [121]	1 [25]	4.5 [114]	1.25 [32]

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0DJQHWLF 'ULYH 6HDOOHVV 3RQ

0\$*1\$7(;\$ 0(3 6HULHV



0DJQHWLF GULYH VHDOOHVV PHGL
WKHUPRSODVWLF SXPSV GHVLJCHG
DSSOLFDWLRQV 6LPSOH FRQVWUXFH
¿UVW FRVW DQG HDVH RI PDQWHUHQ
HOLPLQDWH 35HSRUWDEOH 5HOH

&DOO XV WRGD\ DW RU

0\$*1\$7(;\$ 0(3 6HULHV 6SHFL¿FDWLRQV

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0D[LPXP +HDG)7
/LTXLG 7HPSHUDWXUH	0D[f)
0D[LPXP 3RZHU	+3
&RQQHFWRQV	'ULOOHG IRU ',1 DQG \$16,)ODQ
%HDULQJV	&DUERQ & 37)(
6KDIW	&HUDPLF
0D[LPXP :RUNLQJ 3UHVYXUH	SVLJ
,PSHOOHU	(QFORVHG
6SHHG	8S WR USP
0DJQHWV	5DUH (DUWK
0RWU	1(0\$ RU ,(&)UDPH 0RXQWHG

0DWHULDOV RI &RQVWUXFWLRQ
‡ 3RO\SURS\OHQH

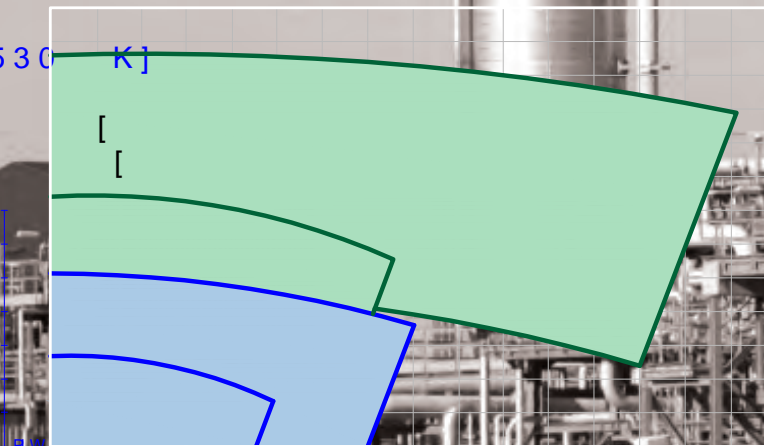
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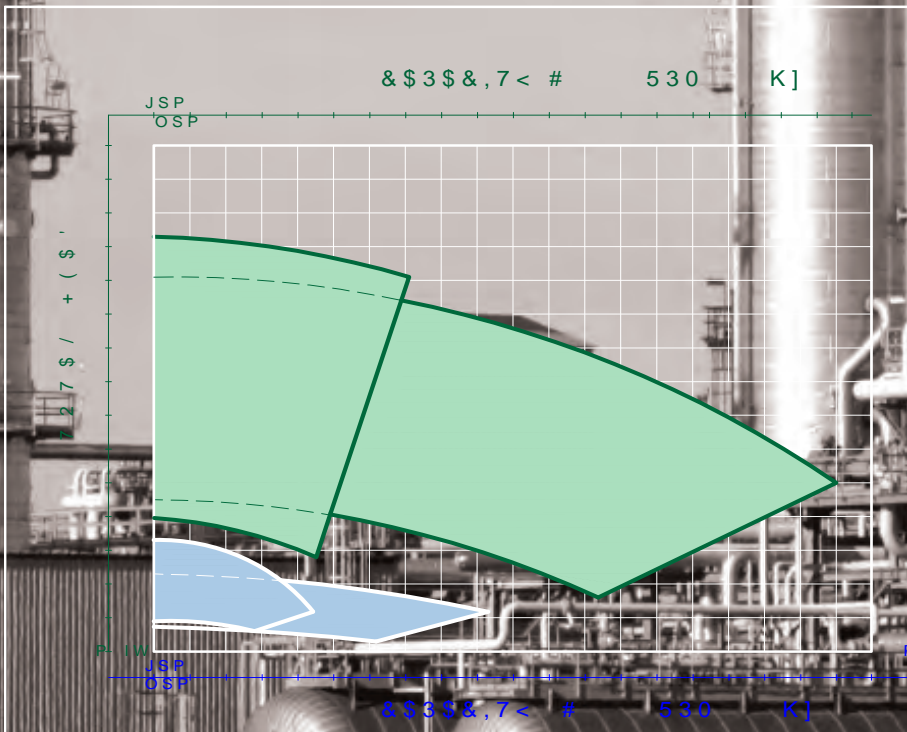
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 PHGLXP ARZ FRUURVLYH AXLG DSSO
 SXPSV SURYLGH D OLIHWLPH RJ PDL
 RSHUDWLRQ ZLWK ORZ LQLWLDO F
 RZQHUVKLS 5HSODFHDEOH OLOHUV
 LQH[SHQVLYH ZLWKRXW VSHFLDO WF
 GHVLJQ KHOSV HOLPLQDWH 35HSRUV

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0D[LPXP +HDG)7
/LTXLG 7HPS	f) WR f)
0D[LPXP 3RZHU	+3
&RQQHFWRQRV	OE 5) ODQJHV
%HDULQJ	& 37)(* 37)(6L& &DUERQ
6KDIW	&HUDPLF 6L&
0D[LPXP :RUNLQJ 3UHVVXUH	SVLJ
,PSHOOHU	(QFORVHG
6SHHG	8S WR USP
0DJQHWV	5DUH (DUWK
ORWRU	100\$ KU (200\$) 10RXXQWHG

0DWHULDOV RI &RQVWUXFWLRQ
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 P\QDU39') /LQHG
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 RI \$UNHPD ,QF



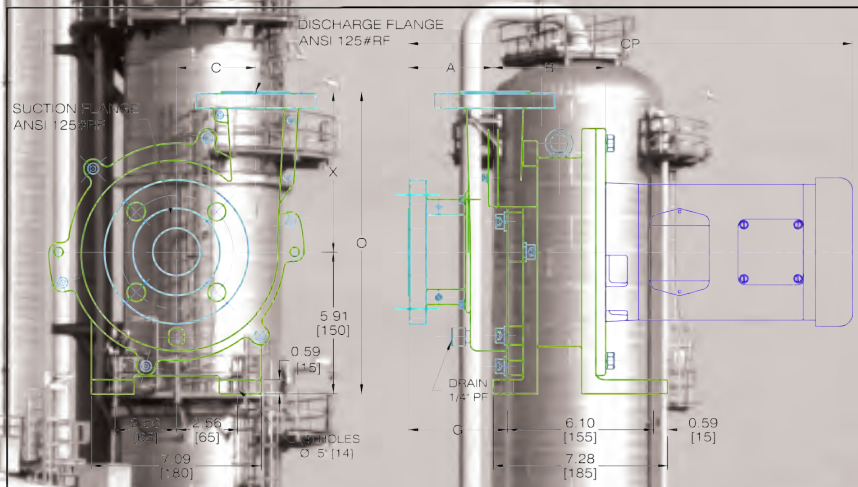
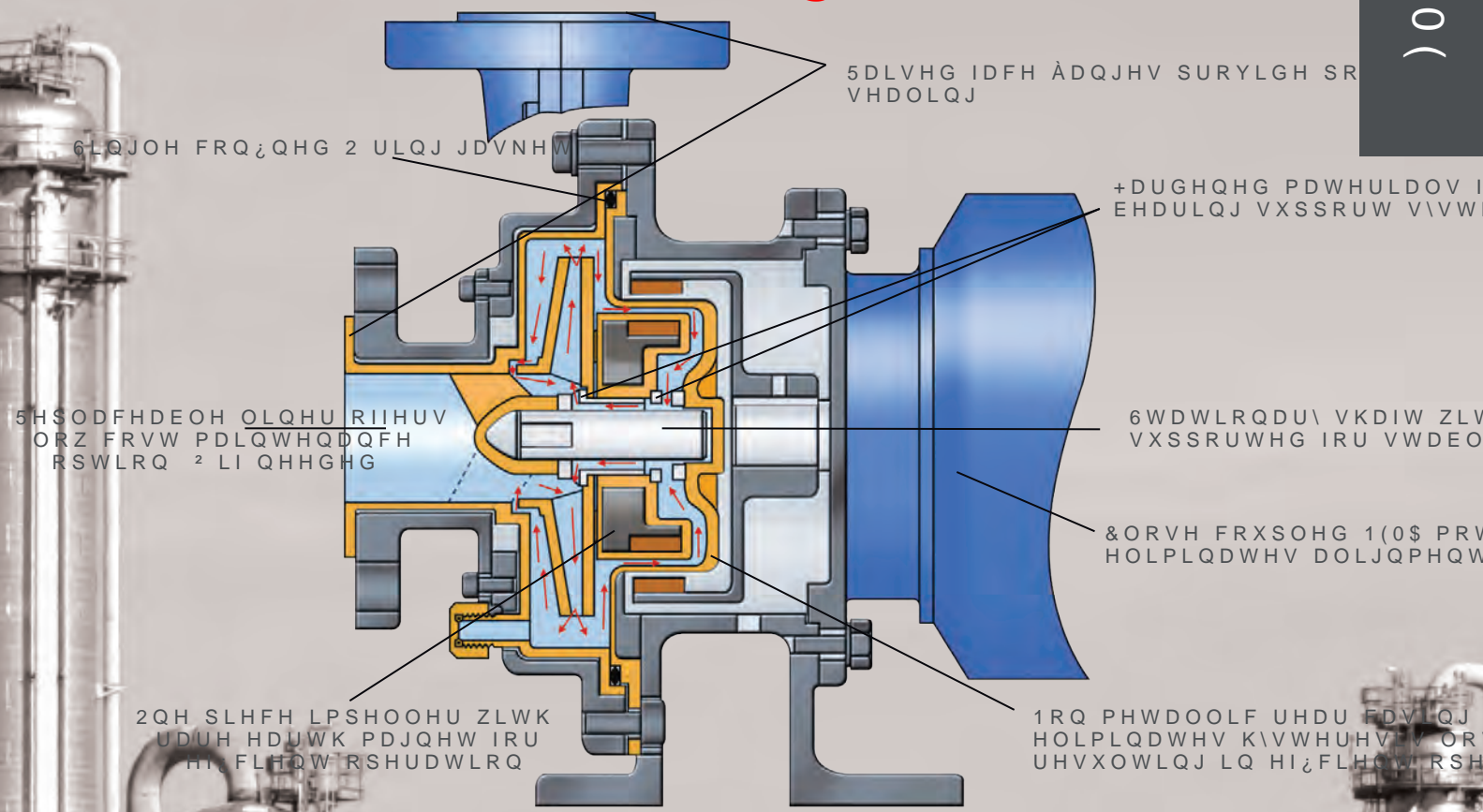
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PUMP DIMENSIONS
MEH/MER SERIES CLOSE-COUPLED PUMPS

DRAWN BY: B VALENTIN DATE: 10/21/10 SCALE: NTS PAGE: 1 OF 1

DD-MEH/MER SERIES R1

ALL DIMENSIONS ± 0.12" [3mm]

MODEL	MOTOR FRAME		DIMENSIONS in INCHES [MILLIMETERS]								APROX. WEIGHT		
	NEMA	IEC	S	D	CP	O	A	C	X	B	G	PUMP	MOTOR
												lbs. (kgs.)	lbs. (kgs.)
MEH-40 1.5 x .75 x 6	56C	63 - 80	1.5"	0.75"	18.45 [465]	12.64	3.54	3.31	6.70	4.62 [117.5]	3.85 [98]	58 (26)	31 (14)
	143TC	90S			18.73 [476]					4.68 [119]			54 (24)
	145TC	90L			19.24 [489]					4.68 [119]			58 (26)
	182TC	112S			20.68 [525]					5.03 [128]			99 (44)
MER-50 2 x 1.5 x 6	56C	63 - 80	2.0"	1.5"	18.61 [473]	12.60	3.46	2.79	6.74	4.86 [123.5]	3.97 [101]	55 (25)	31 (14)
	143TC	90S			18.89 [480]					4.92 [125]			54 (24)
	145TC	90L			19.40 [493]					4.92 [125]			58 (26)
	182TC	112S			21.23 [539]					5.66 [144]			99 (44)

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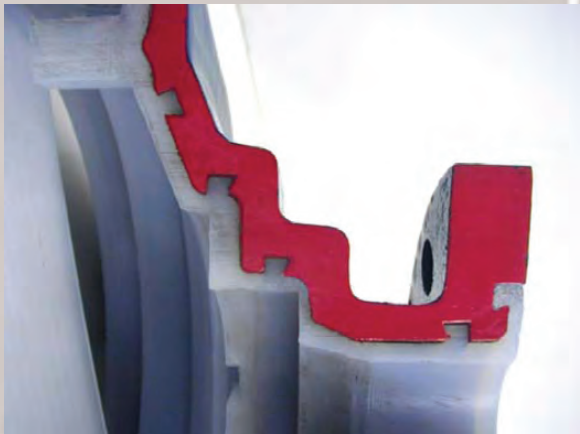
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Pumps, Inc.



0DJQHWLF 'ULYH 3)\$ OLQHG 3XP
0\$ * 1\$7(, \$ 07\$ 6HULHV
0DJQDWH[THO\$ 6HULHV VHDOOHVV P
SXPSV IHDWXUH D WUDQVIHU PROGH
DWWDFKH 3)\$ OLQLQJ WKDWLY WK
WKDQ RXU FRPSHWLWRUV URWR P
DOPRVW DOO LQG XVWULDO FKHPFD
KLJK SXULW\ DQG HOHYDWHG WHPST
SXPSV RIIHU PDQ\ HQKDQFHG FGDUD
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5HOHDVH' LVVXH

\$OO 0DJQHWLF DQG VSDUH SDUWV FRPH
'HDU XQFRQGDWURQW RQ PDWHULDOV

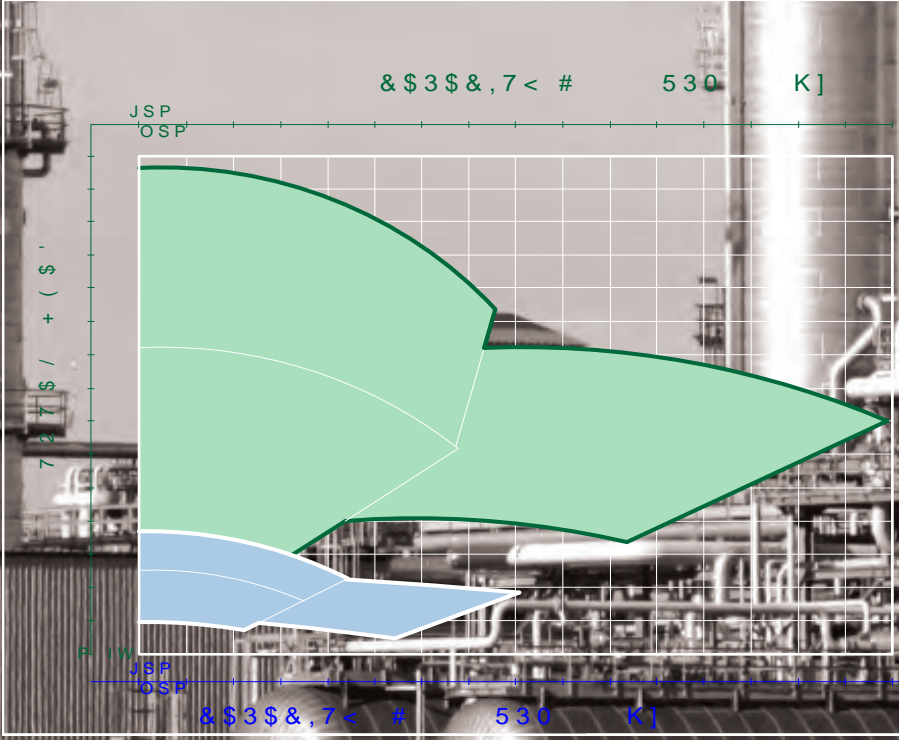


0\$ * 1\$7(, \$ 0\$; 3 6HULHV 6SHFL FDWLRQ

0D[LPXP)ORZ	*30
0D[LPXP +HDG)7
/LTXLG 7HPSHUDWXUH	f) WR f)
0D[LPXP 3RZHU	+3
&RQQHFWLRQV	OE 5))ODQJHV
%HDULQJ	& 37)(* 37)(6L& &DUERQ
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RUNLQJ 3UHVXUH	SVLJ
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ORWRU	1(0\$ RU ,(&)UDPH ORXQWHG

7UDQVIHU FRPSUHVVLRQ PROGLQJ D
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LGHDO IRU YDFXXP DQG KLUKHU WH

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+3)\$ /LQHG



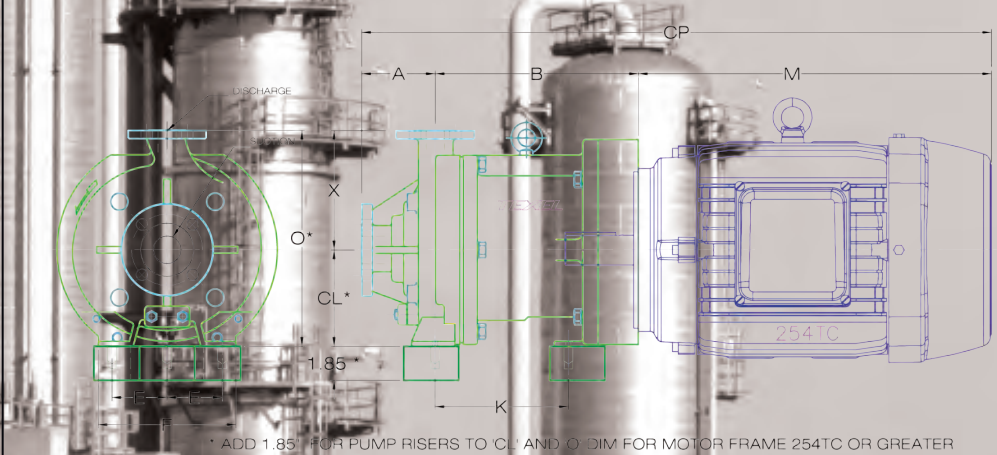
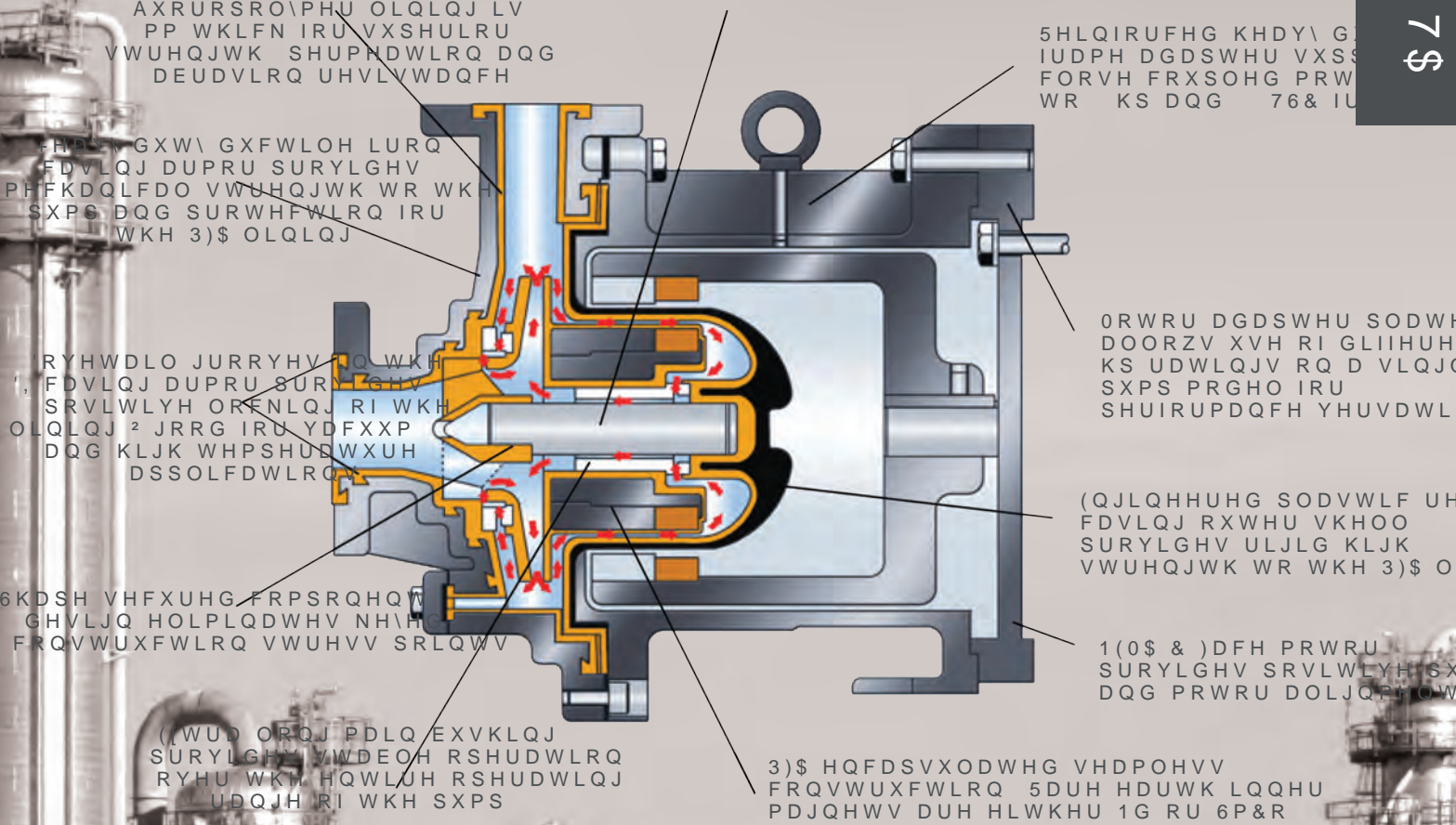
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CONDUIT BOX SHOWN FOR ILLUSTRATION ONLY
REQUIRED LOCATION MUST BE SPECIFIED

NOT FOR CONSTRUCTION

MAGNETEX
Pumps, Inc.

DIMENSIONAL DRAWING
MTA SERIES CLOSE-COUPLED PUMP

DRAWN BY: B VALENTIN DATE: 07/02/10 SCALE: NTS PAGE: 1 OF 1

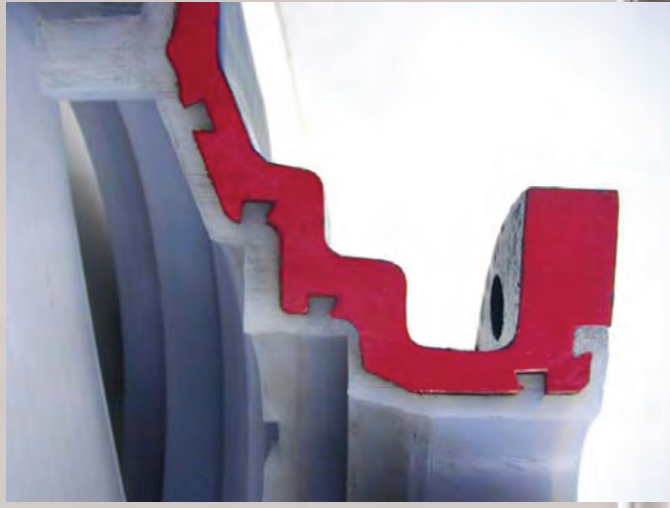
DD-MTA SERIES

ALL DIMENSIONS IN INCHES ± 0.12"

MODEL	DIMENSIONS										DIMENSIONS								
	S	D	A	B	E	F	K	X	CL	O	PUMP LBS	MOTOR FRAME	M	CP	MTR LBS	MOTOR FRAME	M	CP	MTR LBS
MTA-AA6	1.50	1.00	4.00	9.96	3.00	7.55	7.25	6.50	5.25	11.75	231	143TC	10.23	24.19	54	145TC	11.21	25.17	56
												182TC	12.02	25.98	99	184TC	12.96	26.92	108
												213TC	14.59	28.55	150	215TC	16.09	30.05	165
MTA-AA8	3.00	2.00	4.00	11.06	4.88	11.33	12.50	8.25	8.25	16.50	253	254TC	19.21	34.27	266	256TC	20.96	36.02	313
												284TSC	21.81	36.87	437				
MTA-A10	3.00	2.00	4.00	10.24	4.88	11.33	12.50	8.25	8.25	16.50	253	143TC	10.23	24.47	54	145TC	11.21	25.45	56
												182TC	12.02	26.26	99	184TC	12.96	27.20	108
												213TC	14.59	28.83	150	215TC	16.09	30.33	165
												254TC	19.21	33.45	266	256TC	20.96	35.20	313
												284TSC	21.81	36.05	437				

o LqEKHV

0.75



7 (; (/ \$ 3) \$ / LQHG 07 \$ 6HULHV 3XPS) HDV

- ‡ 3) \$ 3HUÀXRURDONR\ \WHWUDÀXRURHWK\OHQH LV D KEJK\WUHQJWK KLJK W
- ‡ ÀXRURSRO\PHU PDWHULDO
- ‡ 6WDQGDUG OLQLQJ WKLFNQHV LV PP
- ‡ 3) \$ OLQLQJ LV PHFKDQLFDOO\ VHFUXHG WR WKH GXFWLOH LURQ FDLVQJ DUP
- ‡ WKDW DUH FDVW LQWR WKH GXFWLOH LURQ FDLVQJ DUPRU
- ‡ ([WUD ORQJ PDLQ VKDIW EXVKLQJ
- ‡ 3URSULHWDU\ KLJK SUHVXUH SVL WUDQVIHU FRPSUHVVLRQ PROGLQJ
- ‡ &RPSOHWHO\ VHDPOHVV LQQHU PDJQHW OLQLQJ

&RPSHWLWLYH &RPSDUDWRU

0 \$ * 1 \$ 7 (;	& 203 (7, 7, 21
3) \$ RIHUV WKH EURDGHVW UDQJH RI UH VHQW DQG WRQ EK HDYDLDOO DOWH DQ FKHD SHU (7) (ORZHVW SHUPHDWLRQ UDWK DQG KLJK VHW KXDP SHU DOWHU EDG DZKOEK KBV DHOV FKHPLWKH ÀXRURSRO\PHU PDWHULDOV ZKLFK SHUPHWHU OLKWH\ FDOG PXR ZSRVW HPSHU D WUXH UHV VHUYL FH OLIH \$I\ D UHQHG QDW EHWLF GULYH SXPSV	
0DJQDWH (3) \$ OLQLQJV DUH ± PP WKLFNORQV WKPSHWRUWRZVQ DOLQV DWH MXVW ± P ORQJHU LQ VHUYL FH WKDQ WKLQQUH RQKDYRI SWKS R D V H FDDW HFC D OHDV GFRU H VLRQ DQ ORQJHU ZKHQ FRPSDUHG WR WKH (7) (D V G D) ODLQDWH\ D UHQHG SXPSV PRVW RI RXU FRPSHWLWRUV	
+LJK SUHVXUH PROGLQJ DW SVL SU RSWHWR DSRWLWRU DRYNOR RHFKDQLFDO PHD WKH OLQLQJ PDWHULDO DQG SUHYHQWY FDLVQJ OPRYH P HZKWL FK FDLQ KUH D X X WPLQ OLQLQJ RU ORZ VXFWRQ SUHVXUH DSSOLF DWLRQ RORZ VXFWRQ SUHVXUH DSSOLF DWLRQ 6H OLQLQJ PDV UHVXOW LQ OLQLQJ FROG SVLQJ I PHQW OHDGLQJ WR FDWDVWURSKLF IDLOXUH R	
7KH H[WUD ORQJ PDLQ VKDIW EXVKLQJ S&RPSHWLWLYH DWHUWHU D DOLQV DWHUWHU PDL RSHUDWLRQ DFURVV WKH HQWLUH KIGU DQDFV D QOH R V X K H S K P S U Z D W R V X S S R U W G V Y P R R W K T X L H W R S H U D W L R Q D Q G H [W U H P H O X O R Z Y C E S W R E W H U S D R S H O L V K D I W V X S S R U W V X U I D F H D U H D P H D Q V O R Z H U K I G U D X O L O R D G L C O R V Y H D D Q G O R Q J H U V H U Y L F H O L I H	
+LJK SUHVXUH WUDQVIHU PROGLQJ # &RPSHWLWLYH VHDPOHVV DHDQFK HDG HWK DWPRY SKHUL D GHQVH XQLRUP WKLFNQHV DQG VXSSURRFXU D FFK LQ VWXO V D Q R I D W K E K O T O V F R Q W L E X V H W R V X S H U L R V H U Y L F H O L D I C Q O L S D Q G R D W H K E P O F Z L O V K H D U H M X Q L I N U P +LJK SUHVXUH PROGLQJ DOVP HOLBI O D V L Q D Q D D U K S R Y H S W U X H E Z O H W U D S S H G E H K W K H F D V L Q J O L Q L Q J D S W K L D S P R L Q W R Z O L F K D V Y F B U D E R D O J L L Q K U K K I H P P S H U D W X U H S H U D W X U H V H U Y L F H V	
&RPSOHWHO\ VHDPOHVV LQQHU PDJQHW ORQJ G R E S H P I O M R W V K D Y S S D Q W L D Q W K H L Q Q H O H D N S D W K I R U W K H S U R F H V V A X L G W R D D O R Z D O S I B W W L D H N F W K F D O W U W R S S O H W U D V I Q H W L 6 K D S H V H F X H G P D L Q E X V K L Q J T O L E S S D Q M H V H I G P F R Q W W W R F W Z H R O O D S F R U U R H D V L Q J U H O D W H G V W U H V V S R L Q W V I D L O X U H R I W K H S X P S	

07\$

3URSULHWDU\ KLJK SUHVXUH WUDQVH\LP SOH FRQVWUXFWLRQ
PROGHG 3)\$ ÅXRURSR\PHU OLQLQJ LV
PP WKLFN IRU VXSHULRU VWUHJQJWK
SHUPHDWLRQ DQG DEUDVLRQ UHVLVWDQFH

5HLQIRUFHG KHDY\ G
IUDPH DGDSWHU VXSS
FORVH FRXSOHG PRW
WR KS DQG 76& IU

HDY\ GXWI GXFWLOH LURQ
FDVLQJ DUPRU SURYLGHV
PHFKDQLFDO VWUHJQJWK WR WKH
SXPS DQG SURWHFWLRQ IRU
WKH 3)\$ OLQLQJ

RYHWDLO JURRYHV LQ WKH
FDVLQJ DUPRU SURYLGHV
SRVLWLYH ORENLO\ RI WKH
OLQLQJ 2 JRRG IRU YDFXXP
DQG KLJK WHPSHUDWXUH
DSSOLFDFWLRQV

6KDSH VHFUXHG FRPSRQH
GHVLJQ HOLPLQDWHV NH\HG
FRQVWUXFWLRQ VWUHVV SRLQWV

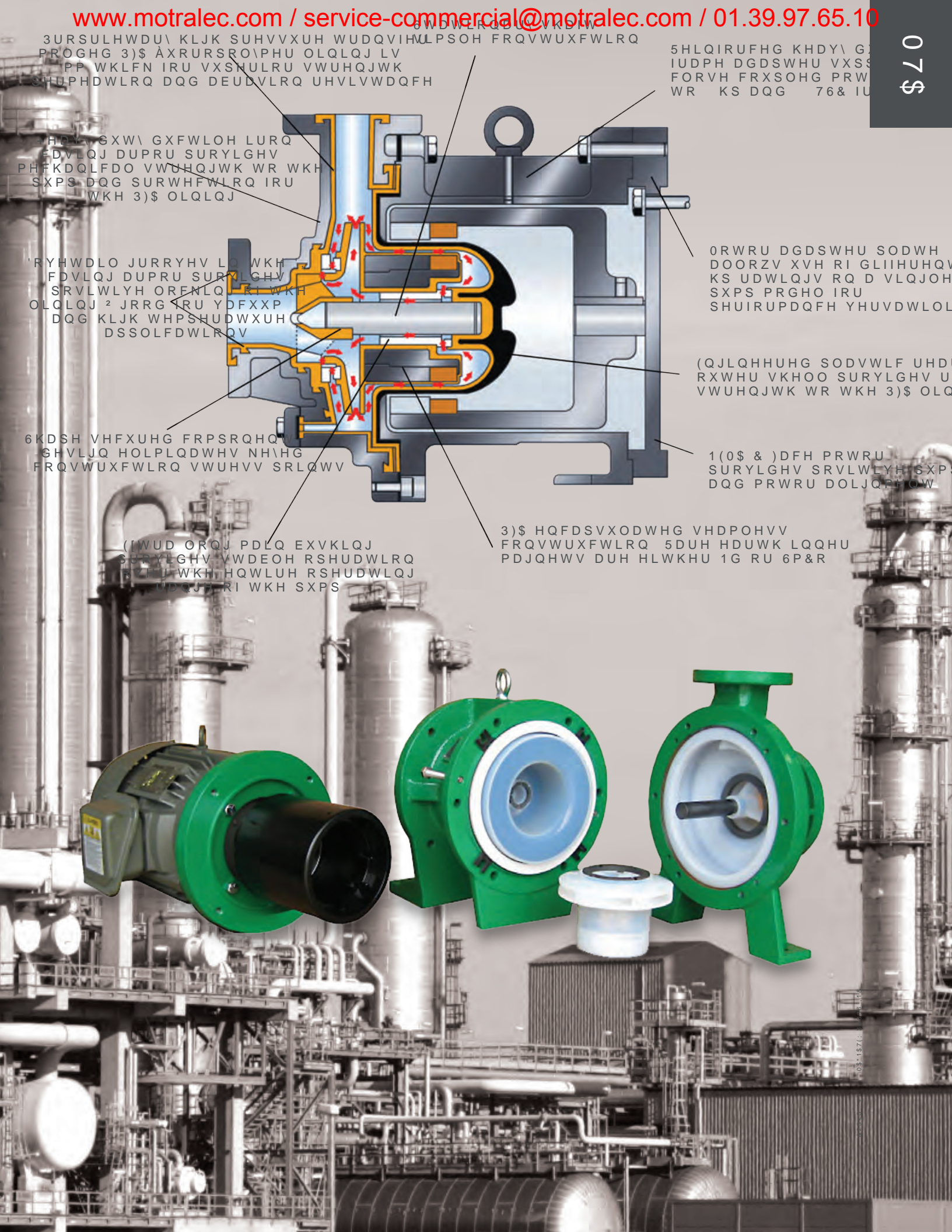
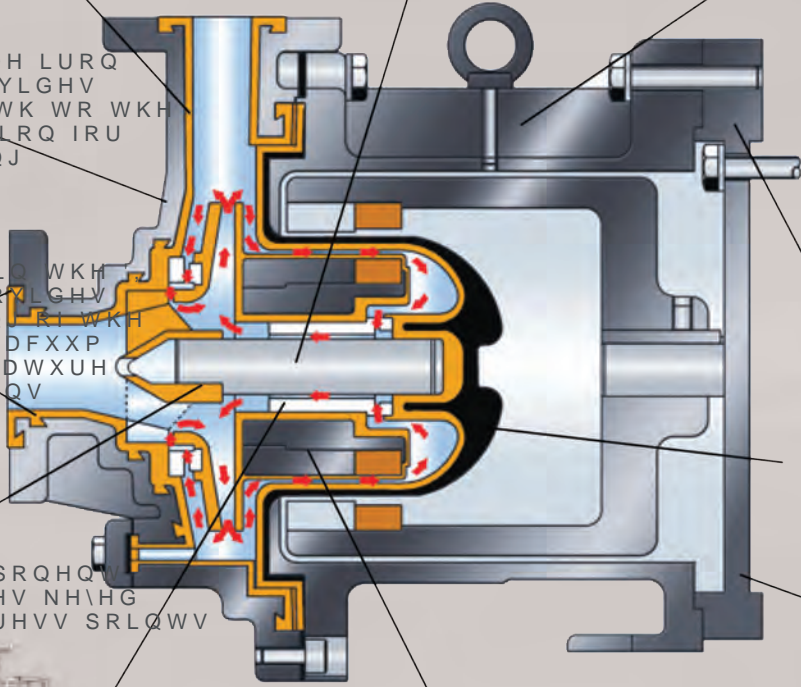
(IWUD ORQJ PDLQ EXVKLQJ
SURYLGHV VWDEOH RSHUDWLRQ
RI WKH HQWLUH RSHUDWLQJ
DQJXRI WKH SXPS

3)\$ HQFDSVXODWHG VHDPHVV
FRQVWUXFWLRQ 5DUH HDUWK LQQHU
PDJQHWV DUH HLWKHU 1G RU 6P&R

0RWRU DGDSWHU SODWH
DOORZV XVH RI GLIIHUHQV
KS UDWLQJV RQ D VLQJOH
SXPS PRGHO IRU
SHUIRUPDQFH YHUVDWLOL

(QJLQHHUHG SODVWLF UHD
RXWHU VKHOO SURYLGHV U
VWUHJQJWK WR WKH 3)\$ OLQ

1(0\$ &)DFH PRWRU
SURYLGHV SRVLWLYH SXPS
DQG PRWRU DOLJQPHW



Chemical Process Pumps

“SINCE 1985 YOUR PROCESS RELIABILITY HAS BEEN OUR #1 PRIORITY.”

Serving the Chemical Process, Petrochemical, Pharmaceutical, Pulp & Paper, Textile, Food & Beverage, Power, Semiconductor, Water Treatment and General Industrial Applications SINCE 1985.

*Magnatex
magnetic drive
pumps now
feature
significantly
increased
dry-running
capability!*

- x Our SiC-X bearings can run dry for extended periods — even hours!
- x Unique materials and manufacturing techniques of our specially treated SiC-X bearings provide a coefficient of friction 1/4 that of SiC.

The very low coefficient of friction of our SiC-X bearings results in ~~less~~ heat being generated in upset or dry-running conditions

SiC-X bearings are ~~not~~ forgiving of dry-running conditions frequently ~~encountered~~ at start-up, during upset conditions or in batch services

Extremely hard surfaces ~~minimize~~ wear and prolong service life; ~~resist~~ to chemicals is maintained for extended bearing life

SiC-X Availability

MMP/ MMH/ MML—Standard

MP/ ML/ MPH/ MPT-Standard

MPL/ MLL/ MHL-Optional

MAXP-Optional

- x Online pump selector
- x System head calculator

MAGNATEX PUMPS, INC.
477 West 12th Street
Houston, TX 77018
Telephone: 713-972-8666
Fax: 713-972-8665
inquiries@magnatexpumps.com

www.magnatexpumps.com

Dry-running capability is improved by using our proprietary SiC-X bearings when compared to SiC

Preliminary Test Results

In multiple dry-running tests using an MP220, 1 HP Standard SiC bearings, noise developed after a brief period of operation. On disassembly, internal damage was identified. The same pump with the special bearing material operated 45 minutes with no unusual noise. On disassembly, there was no visible damage.

The next test involved running the same pump with the SiC-X bearing material dry for one hour with the suction valve closed. The rear temperature reached 260°F. With the pump still operating, the suction valve was then opened, allowing room temperature water to enter and operate. On inspection, no damage or cracks were observed – all parts were in excellent condition.

A test at a customer facility was inadvertently run when the suction cap used during shipping was not removed before starting. After 10 minutes, the pump was inspected and no damage was observed. The pump was reinstalled without the cap and operated as expected.

Controlled Test Results

Test Progression	Standard SiC	SiC-X
	Coefficient of Friction = 0.39	Coefficient of Friction = 0.099
Operation with a combination of air and liquid; rotation speed of 19.7ft/sec and weight on bearing of 8.2lbs.	The bearing surface was abraded with noticeable wear after operating for 10 minutes	Bearing was in excellent condition after 10 minutes of operation
Dry-running—no liquid; 19.7 ft/sec, 8.2lbs	Bearing damage after 2 seconds of operation.	Bearing was in excellent condition after 80 seconds
Dry-running—no liquid; 15.4 ft/sec, 2.2lbs	Bearing damage after 45 seconds of operation.	Bearing was still in excellent condition after 1 hour and 45 minutes of operation.
Heat shock after dry-running 1 hour; poured water at room temperature on bearing which was assumed over 330°F	N/A—will not run dry this long	Bearing was still in excellent condition; no thermal cracking or heat checking evident.

SiC-X Corrosion Testing

Liquid	Temperature degrees F	Time	Degrees of Corrosion (g/m2/hr)
65% HNO ₃	Boiling	24 Hours	0.003
100% H ₂ SO ₄	Boiling	24 Hours	0.002
35% HCl	Boiling	24 Hours	0.002
30% NaOH	Boiling	24 Hours	0.002
100% CH ₃ COOH	158°F	24 Hours	0.000
35% H ₂ O ₂	Boiling	24 Hours	0.002

Conclusions

In the case of the test application involving air with liquid, an inherently difficult situation for products, the SiC-X bearing operated continuously for 10 minutes with no cracks or wear. Even with complete operation (no liquid whatsoever), the SiC-X bearings last for considerably longer time than SiC bearings. Inspection revealed the bearings to still be in good condition after 1 hour 45 minutes.

One of the weak points of ceramic materials is poor response to thermal shock. In our tests, the SiC-X bearing material was unaffected. The bearing showed no evidence of damage. The results of a similar, though inadvertent, field test where a technician was discovering the pump was not running in a dry-running condition were equally impressive. He stopped the pump and poured liquid on the bearing. In this situation with the bearing close to the point of being damaged, the SiC-X gave the customer good results. The technician was surprised to see the SiC-X in good condition.

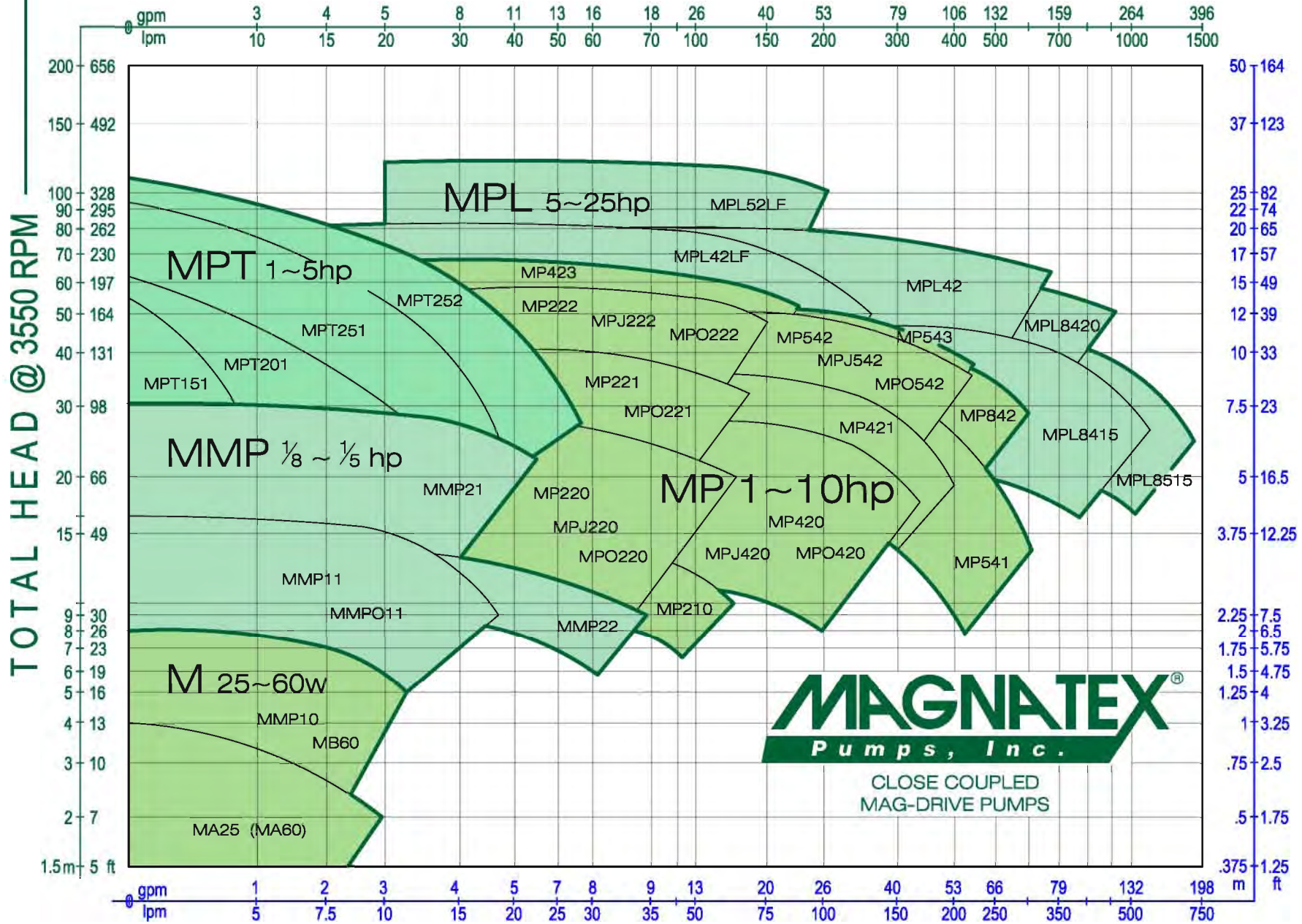
Summary

As indicated in the corrosion testing chart above, SiC-X had comparable performance to that of SiC as shown in our corrosion testing chart.

From our testing and analysis, it is clear that the SiC-X provides good results when used in magnetically-driven pumps. As a result, we can expect better performance in the case of dry-running situations, eliminating or greatly delaying bearing damage where it likely would have immediately occurred with standard SiC.

The values in the above charts are from actual test results and are considered reliable, though we cannot guarantee protection from dry run conditions we recommend the use of a power monitor for optimal equipment protection.

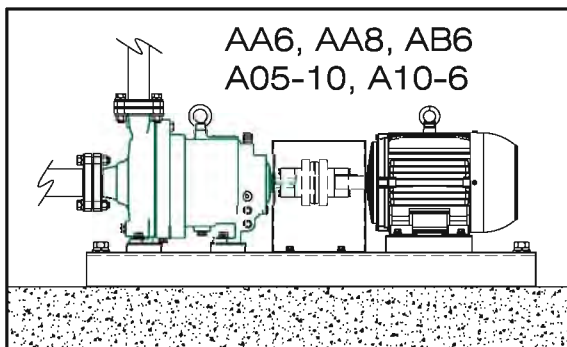
CAPACITY @ 3550 RPM / 60hz (Green Scale)



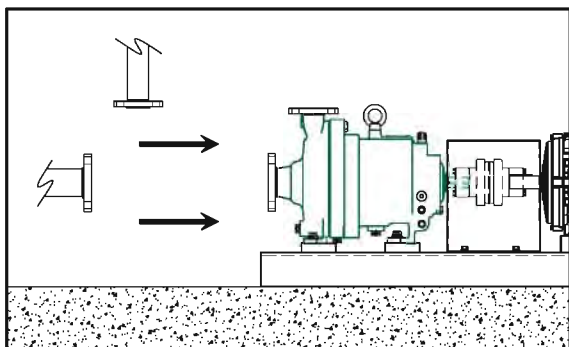
CAPACITY @ 1750RPM / 60hz (Blue Scale)



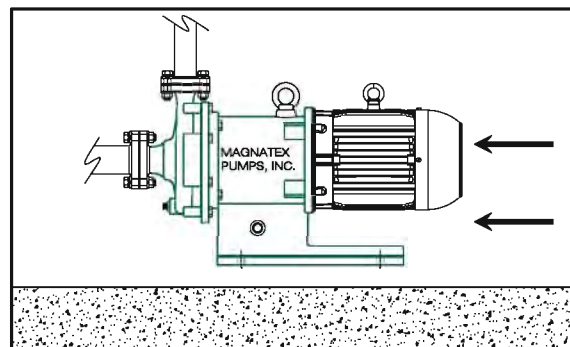
ANSI PUMP REPLACEMENT WITH MP/MPL SERIES ADAPTER BLOCK DIMENSIONS



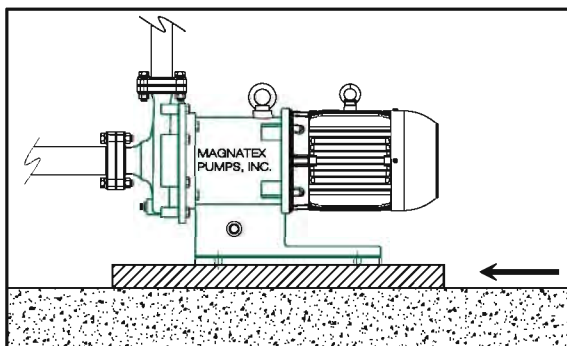
INSTALLED ANSI PUMP



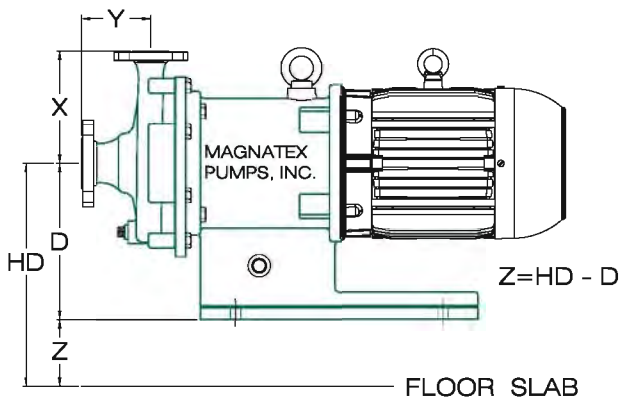
REMOVE ANSI PUMP
AND BASEPLATE



MAGNETEX MP/MPL PUMP w/o
ADAPTER BLOCK



INSERT ADAPTER BLOCK AND
ANCHOR APPROPRIATLY



MODEL		MP / MPL			ANSI				
MP / MPL SERIES	ANSI PUMP	X	Y	D	X	Y	BASE	HD	Z +/- 0.13 [3mm]
MP423 1.5 x 1 x 7	AA6 1.5 x 1 x 6	6.50	4.00	9.00	6.50	4.00	139	9.00 [228]	0.00 [0]
		[165]	[101]	[228]	[165]	[101]	148	10.50 [266]	1.50 [38]
							153	12.88 [327]	3.88 [98]
MPL42 & MPL42LF 1.5 x 1 x 8	AA8 1.5 x 1 x 8	6.50	4.00	9.00	6.50	4.00	139	9.00 [228]	0.00 [0]
		[165]	[101]	[228]	[165]	[101]	148	10.50 [266]	1.50 [38]
							153	12.88 [327]	3.88 [98]
MP842 MPL 84 3 x 1.5 x 6	AB6 3 1.5 x 6	6.50	4.00	9.00	6.50	4.00	139	9.00 [228]	0.00 [0]
		[165]	[101]	[228]	[165]	[101]	148	10.50 [266]	1.50 [38]
							153	12.88 [327]	3.88 [98]
* MPL52LF 2 x 1 x 10	A05-10 2 x 1 x 10	6.50	4.00	9.00	8.50	4.00	245	12.00 [304]	3.00 [76]
		[165]	[101]	[228]	[216]	[101]	252	12.38 [314]	3.38 [86]
							258	13.00 [330]	4.00 [101]
							264	13.88 [352]	4.88 [124]
* MPL85 3 x 2 x 6	A10-6 3 x 2 x 6	8.25	4.00	9.00	8.25	4.00	245	12.00 [304]	3.00 [76]
		[209]	[101]	[228]	[209]	[101]	252	12.38 [314]	3.38 [86]
							258	13.00 [330]	4.00 [101]
							264	13.88 [352]	4.88 [124]

* BASEPLATE MAY BE LEFT IN PLACE AND ADAPTER BLOCK THICKNESS ADJUSTED AS NEEDED. (REVIEW OLD BASE MOTOR PAD HEIGHT)

ALL DIMENSIONS IN INCHES [mm]

(Over)

API-685, 1st Edition
Sealless Centrifugal Pumps for Petroleum,
Heavy Duty Chemical, and Gas Industry Services
Comments and Clarifications

10. 6.4.3.8.3 Cylindrical (straight) threaded connections are not used on Magnatex pumps.
11. 6.7 Wear rings are not furnished.
12. 6.8.2 Secondary Control corrective action must be taken as soon as possible to isolate the source of primary leakage to assure integrity of the control system.
13. 6.8.5 Secondary pressure containment casing is ductile iron. SS secondary pressure containment is available at additional costs.
14. 6.10.4 Tolerance rings are not used. Pumps are matched to required temperature ranges while still maintaining the slip-fit maintenance features and benefits, which requires a higher level of quality control.
15. 7.2 Instrumentation and control systems when required will be matched to the application requirements specified by the purchaser. Additional costs will apply.
16. 7.3 Piping and appurtenances for auxiliary systems when required will be matched to the application requirements specified by the purchaser. Additional costs will apply.
17. 7.4 No special tools are required for maintenance of Magnatex pumps. Our pumps are designed with slip-fit construction to facilitate field maintenance.
18. 8 Inspections and Testing are tailored to the specific job requirements as required. Additional costs may apply.
19. 9.1.1.5 Magnatex pumps incorporate a straddle mount bearing system that balances shaft loading and does not pass radial loading to the rear casing. The dual bearing system is superior to single bearing arrangements that do not employ the support of the shaft from the rear containment shell. Further, our rear containment shell is the thickest in the industry and designed to handle any forces that may be encountered in operation over the performance range of the pump.
20. 9.1.1.8 A supplemental nameplate will be provided for A/F bearing numbers and magnet coupling torque rating.
21. 9.1.3.4 Outer Magnets for the smallest size magnet frames (F Series) are threaded in the direction of rotation (tightening) and set screwed in place onto the Outer Shaft, not keyed. All other Outer Magnets are keyed to the shaft for frame sizes S, M, and L, and secured by set screws over the key and at 90° on the outer magnet hub.
22. 9.1.3.5 The outer magnet segments are mechanically spaced and retained with adhesive in machined steps in the outer magnet retaining ring to prevent radial and axial movement independent of the magnet assembly. The inside diameter of the outer magnet front ring extends beyond the inner diameter surface of the magnet segments in close proximity of the rear casing. This prevents contact with the outer diameter on the rear casing containment shell portion of the rear casing during assembly and maintenance operations. Outer magnet sheathing is not required or provided for best functioning of the magnets in the range of pumps supplied by Magnatex Pumps, Inc. The inner magnet is sheathed in the same or a superior material compared to the general materials of construction for wetted parts.

We welcome your comments and inquiries and will be pleased to respond to any questions you may have about the reliability of our pumps. Contact your Magnatex representative or call us at 713.972.8666 or 866.MAG-PUMP. To view all our pump types or use our pump selection program, visit our website at www.magnatexpumps.com.



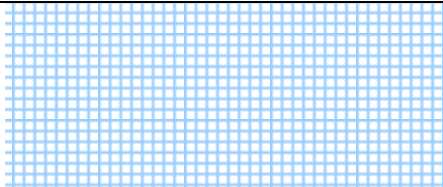
MAGNATEX PUMPS, INC. 477 WEST 12 TH STREET HOUSTON, TX 77018 TEL: 713-972-8666 FAX: 713-972-8665 inquiries@magnatexpumps.com		INQUIRY DATA SHEET		Date	
Customer Name				Quote Number	
Company					
Street					
City		State		Zip Code	
Phone					
Fax					
E-Mail		Representative			

APPLICATION DETAILS

Service Name					
Replace Make		Replace Model			
Budget/Firm		Number of Units			
Tag Number		Materials of Construction			
Liquid					
Solids Content	Size	Max. 100/500 Micron	% Weight	Max. 4/1	
Temperature °F		Specific Gravity		Viscosity (cp cs ssu)	
Vapor Pressure		Flow		TDH	
Suction Pressure			Discharge Pressure		
NPSHA			Motor Enclosure		
Explosion Proof	Class		Division	Group	Temp Code

Specific Heat (if available)		Thermal Conductivity (if available)	
---------------------------------	--	--	--

NOTES: Any special requirements? We use water to test our pumps. If water is incompatible with your process, please let us know and we will use an alternative pressure test procedure.



Pump Model	Price	WT.
Motor Spec.	Price	WT.
Motor Part #	Price	WT.
Baseplate	Price	WT.
Other	Price	WT.

