

## Performance Curves for the 420 Series (50 Hz)

MODEL/SIZE	R.P.M.	PDF PAGE
2x2-1/2x12A	2880	2
2x2-1/2x12A	1440	3
2x2-1/2x12B	1440	4
2-1/2x3x12A	2880	5
2-1/2x3x12A	1440	6
2-1/2x3x12A	960	7
3x4x14A	1440	8
3x4x14A	960	9
3x4x14B	1440	10
4x5x15	1475	11
4x5x15	960	12
5x6x15	1440	13
6x8x17A	1475	14
6x8x17B	1475	15
6x8x17B	960	16



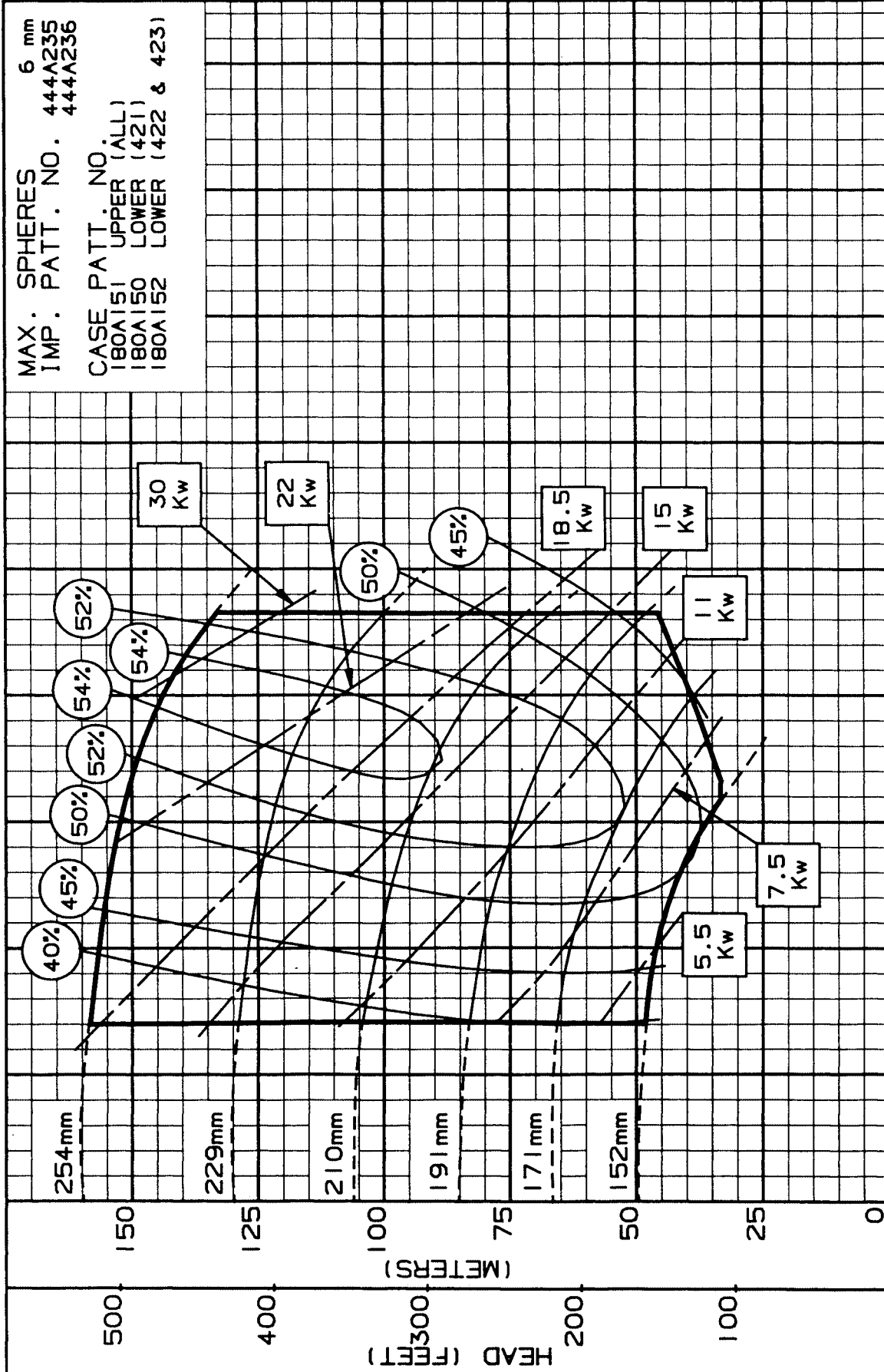
**AURORA®**  
Pentair Pump Group

**2x2-1/2x12A - 2880 RPM**  
**ENCLOSED IMPELLER**

SECTION **420 (Metric 50Hz)**  
DATE **JULY 1994**  
SUPERCEDES OCTOBER 1986

SIZE: 2X2 1/2X12A TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 2880

MAX. SPHERES 6 mm  
IMP. PATT. NO. 444A235  
444A236  
CASE PATT. NO.  
180A151 UPPER (ALL)  
180A150 LOWER (421)  
180A152 LOWER (422 & 423)



M <sup>3</sup> /HR	0	10	20	30	40	50	60	70	80	90
L/S	0	4	8	12	16	20	24	28	32	36
U.S. GPM	0	50	100	150	200	250	300	350	400	450

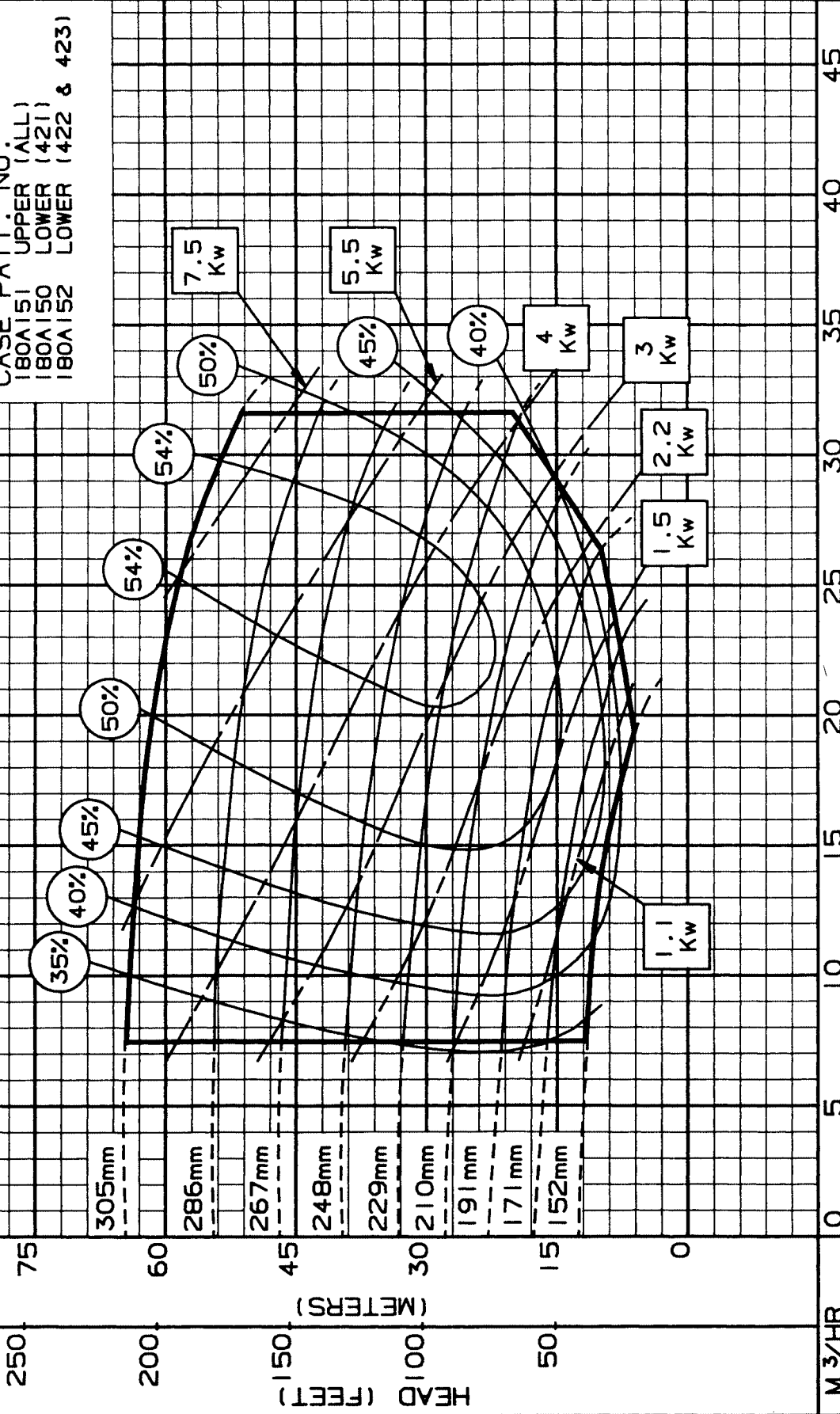
DRAWN BY: *AWC* APPROVED BY: *DL* DATE: 7-94 PC-115893M

2X2-1/2X12A - 1440 RPM  
 ENCLOSED IMPELLER



SIZE: 2X2 1/2X12A TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 6 mm  
 IMP. PATT. NO. 444A235  
 444A236  
 CASE PATT. NO.  
 180A151 UPPER (ALL)  
 180A150 LOWER (421)  
 180A152 LOWER (422 & 423)



HEAD (FEET)	250	200	150	100	50	0
HEAD (METERS)	75	60	45	30	15	0
M <sup>3</sup> /HR	0	5	10	15	20	25
L/S	0	2	4	6	8	10
U.S. GPM	0	25	50	75	100	125
	0	25	50	75	100	125
	0	50	100	150	175	175

DRAWN BY: *AKZ* APPROVED BY: *DC* DATE: 7-90 PC-115894M



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Pentair Pump Group

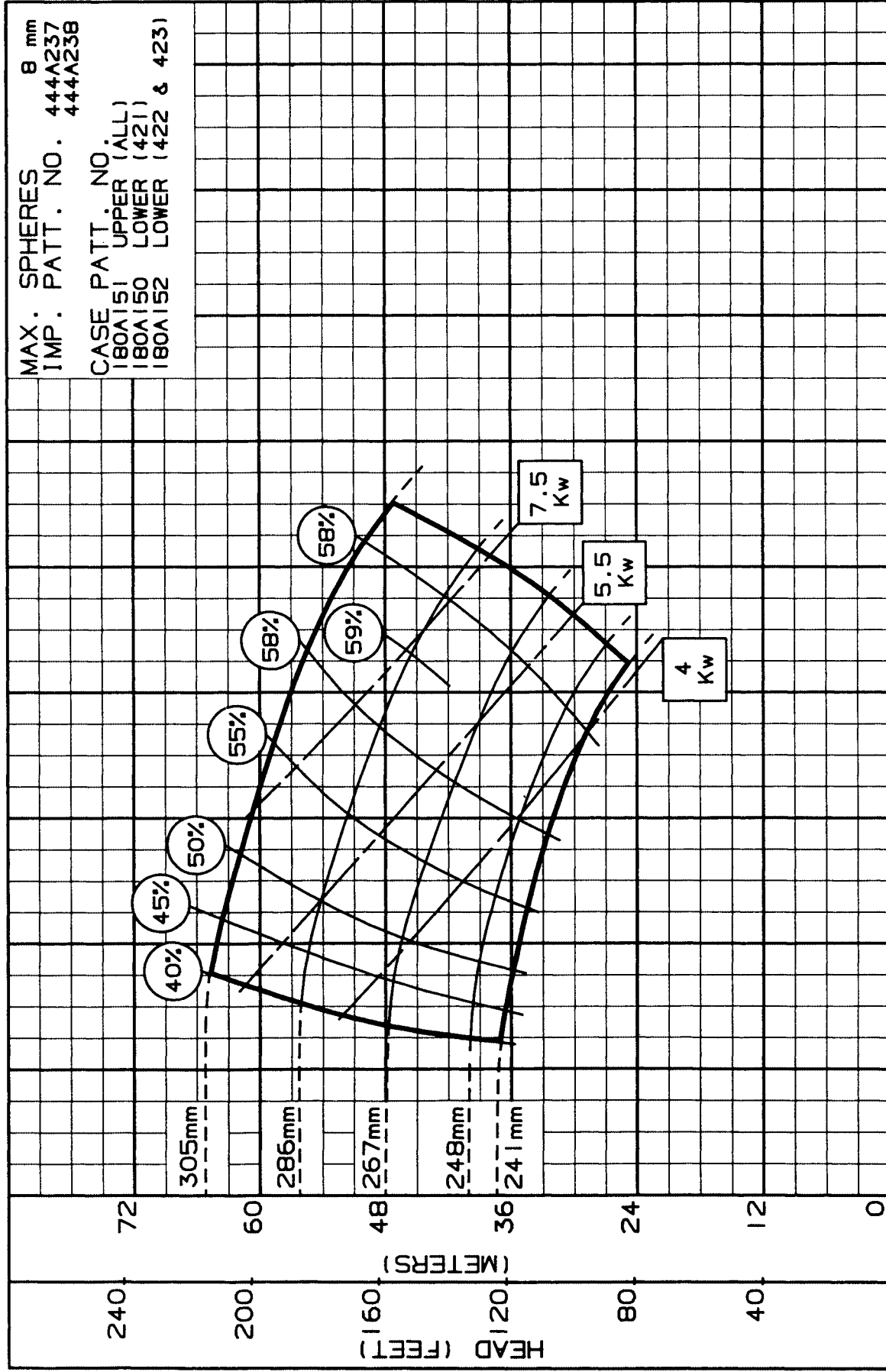
**2x2-1/2x12B - 1440 RPM**  
**ENCLOSED IMPELLER**

SECTION **420 (Metric 50Hz)**  
DATE **JULY 1994**  
SUPERCEDES OCTOBER 1986

SIZE: 2X2 1/2X12B TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 8 mm  
IMP. PATT. NO. 444A237  
444A238

CASE PATT. NO.  
180A151 UPPER (ALL)  
180A150 LOWER (421)  
180A152 LOWER (422 & 423)



M <sup>3</sup> /HR	0	8	16	24	32	40	48	56	64	72
L/S	4	8	12	16	20	24	28	32	36	40
U.S. GPM	40	80	120	160	200	240	280	320	360	400

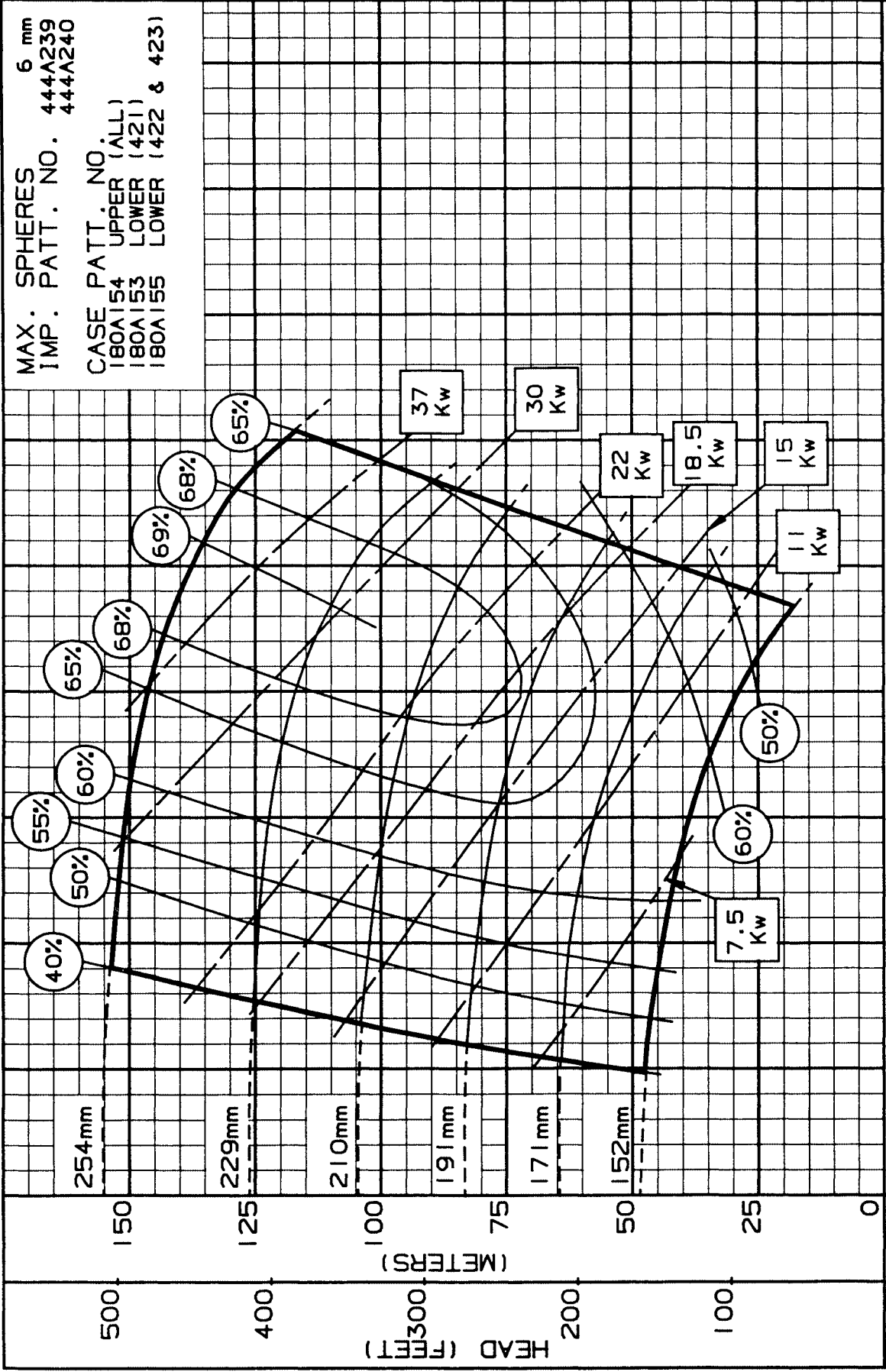
DRAWN BY: *RAC* APPROVED BY: *DL* DATE: 7-94 PC-115895M

2-1/2x3x12A - 2880 RPM  
 ENCLOSED IMPELLER



SIZE: 2 1/2x3x12A TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 2880

MAX. SPHERES 6 mm  
 IMP. PATT. NO. 444A239  
 444A240  
 CASE PATT. NO.  
 180A154 UPPER (ALL)  
 180A153 LOWER (421)  
 180A155 LOWER (422 & 423)



M <sup>3</sup> /HR	0	15	30	45	60	75	90	105	120	135
L/S	0	5	10	15	20	25	30	35	40	45
U.S. GPM	0	75	150	225	300	375	450	525	600	675
DRAWN BY: <i>Roz</i> APPROVED BY: <i>DL</i> DATE: 7-90 PC-115896M										



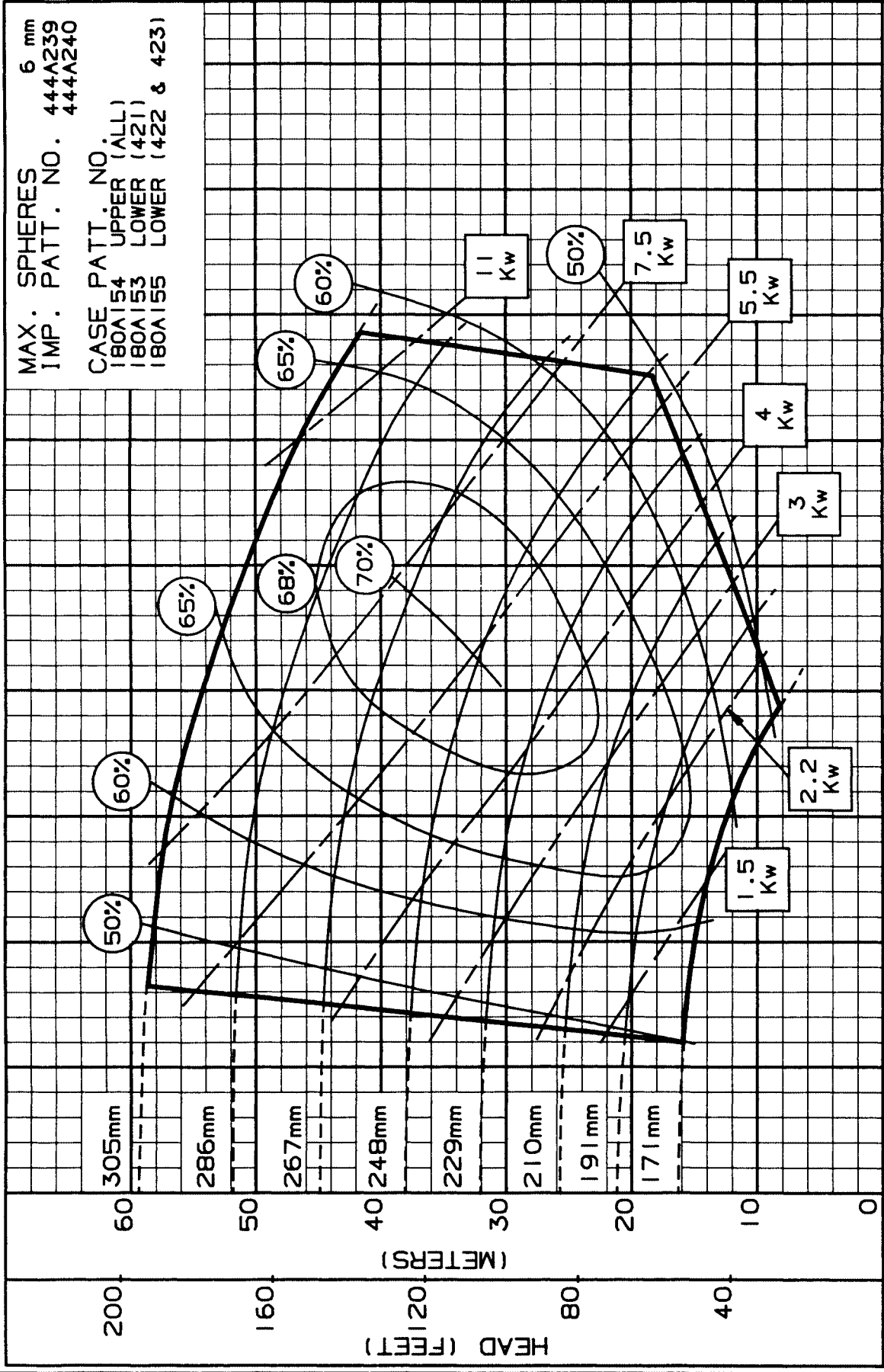
**AURORA®**  
Pentair Pump Group

**2-1/2x3x12A - 1440 RPM**  
**ENCLOSED IMPELLER**

SECTION **420 (Metric 50Hz)**  
DATE **JULY 1994**  
SUPERCEDES OCTOBER 1986

SIZE: 2 1/2x3x12A TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 6 mm  
IMP. PATT. NO. 444A239  
444A240  
CASE PATT. NO.  
180A154 UPPER (ALL)  
180A153 LOWER (421)  
180A155 LOWER (422 & 423)



M <sup>3</sup> /HR	0	10	20	30	40	50	60	70	80	90
L/S		4	8	12	16	20	24	30	35	40
U.S. GPM	50	100	150	200	250	300	350			
DRAWN BY: <i>Rik</i> APPROVED BY: <i>DL</i> DATE: 7-90 PC-115897M										

SECTION 420 (Metric 50Hz)

DATE JULY 1994

SUPERCEDES OCTOBER 1986

2-1/2x3x12A - 960 RPM

ENCLOSED IMPELLER

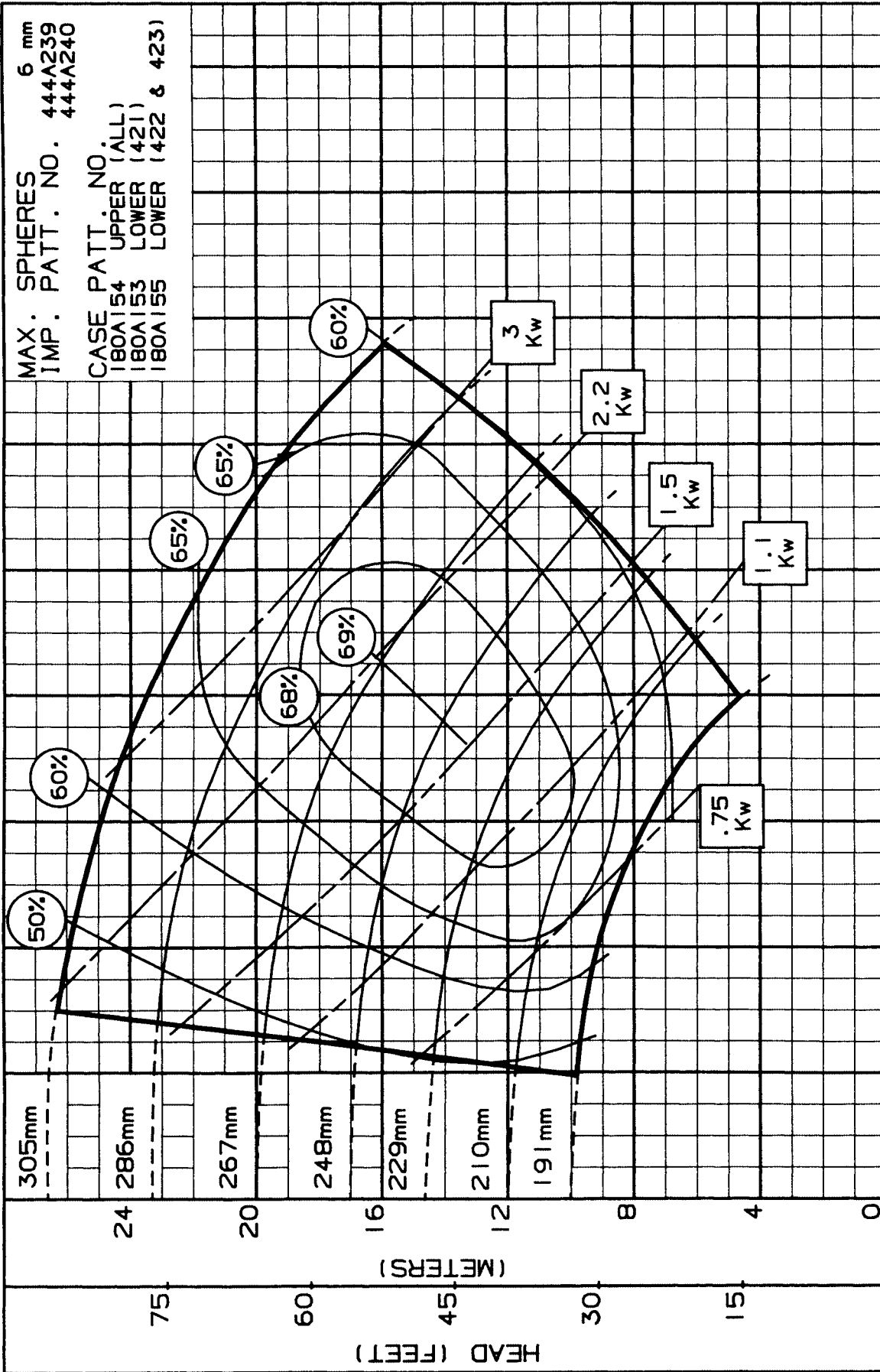
ap AURORA®

Pentair Pump Group

SIZE: 2 1/2X3X12A TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 960

MAX. SPHERES 6 mm  
IMP. PATT. NO. 444A239  
444A240

CASE PATT. NO.  
180A154 UPPER (ALL)  
180A153 LOWER (421)  
180A155 LOWER (422 & 423)



M<sup>3</sup>/HR 0 8 16 24 32 40 48 56 64 72

L/S 4 8 12 16

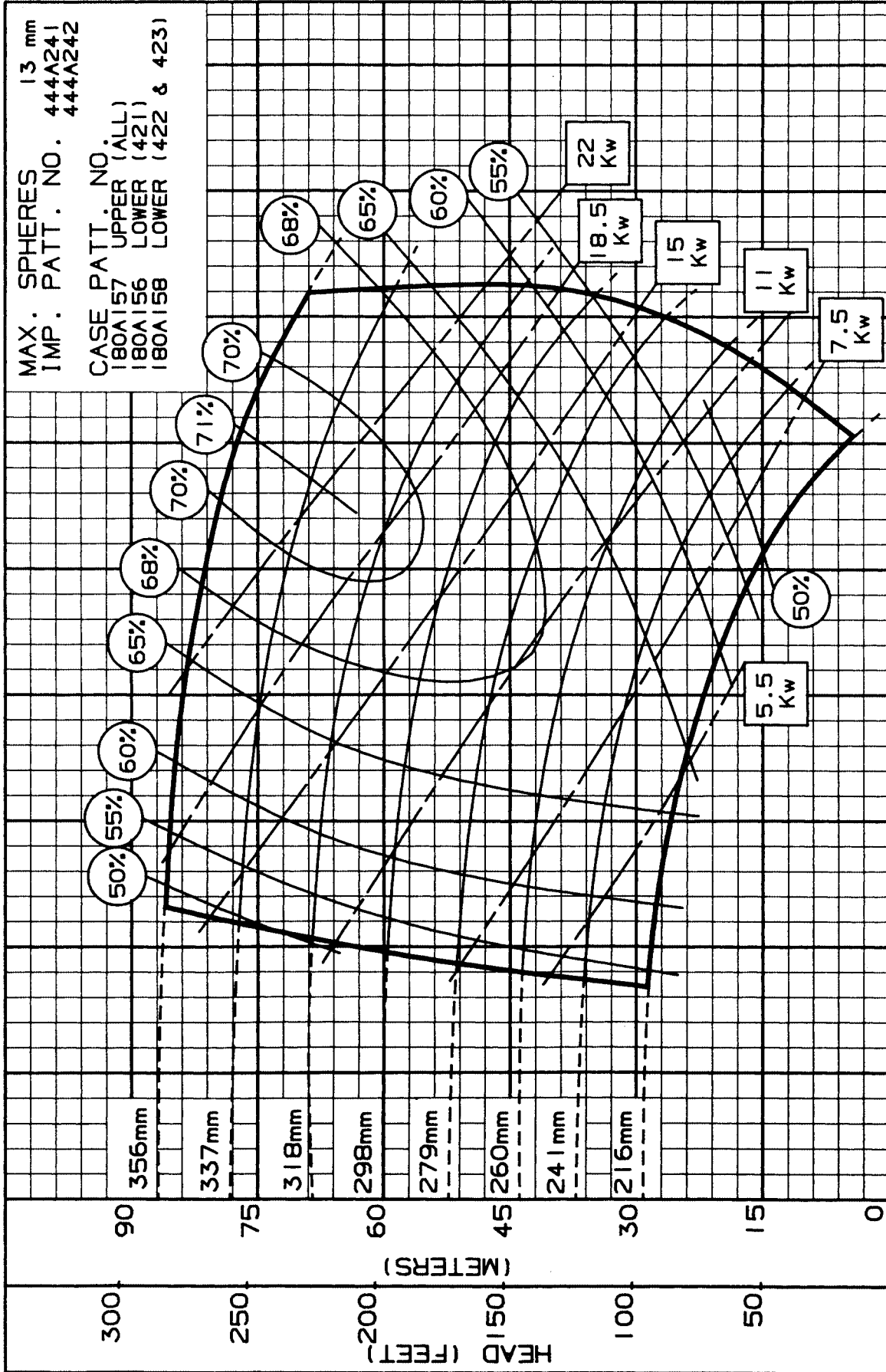
U.S. GPM 40 80 120 160 200 240 280

DRAWN BY: *[Signature]* APPROVED BY: DL DATE: 7-90 PC-115898M

SIZE: 3X4X14A TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 13 mm  
IMP. PATT. NO. 444A241  
444A242

CASE PATT. NO.  
180A157 UPPER (ALL)  
180A156 LOWER (421)  
180A158 LOWER (422 & 423)



M <sup>3</sup> /HR	0	15	30	45	60	75	90	105	120	135
L/S	0	5	10	15	20	25	30	35	40	45
U.S. GPM	0	75	150	225	300	375	450	525	600	675

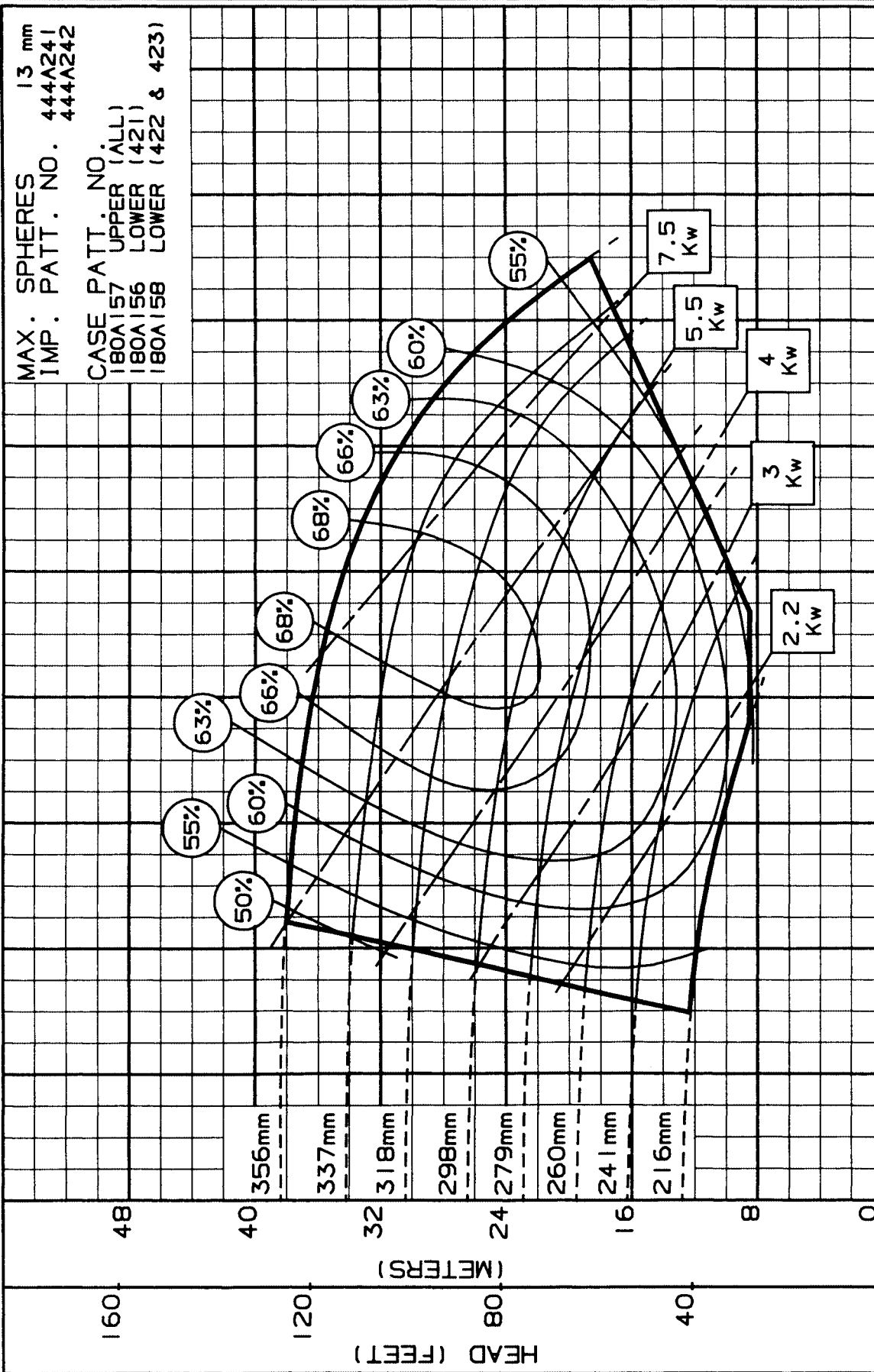
DRAWN BY: *[Signature]* APPROVED BY: *[Signature]* DATE: 7-90 PC-115899M

3x4x14A - 960 RPM  
ENCLOSED IMPELLER



SIZE: 3X4X14A TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 960

MAX. SPHERES 13 mm  
IMP. PATT. NO. 444A241  
444A242  
CASE PATT. NO.  
180A157 UPPER (ALL)  
180A156 LOWER (421)  
180A158 LOWER (422 & 423)



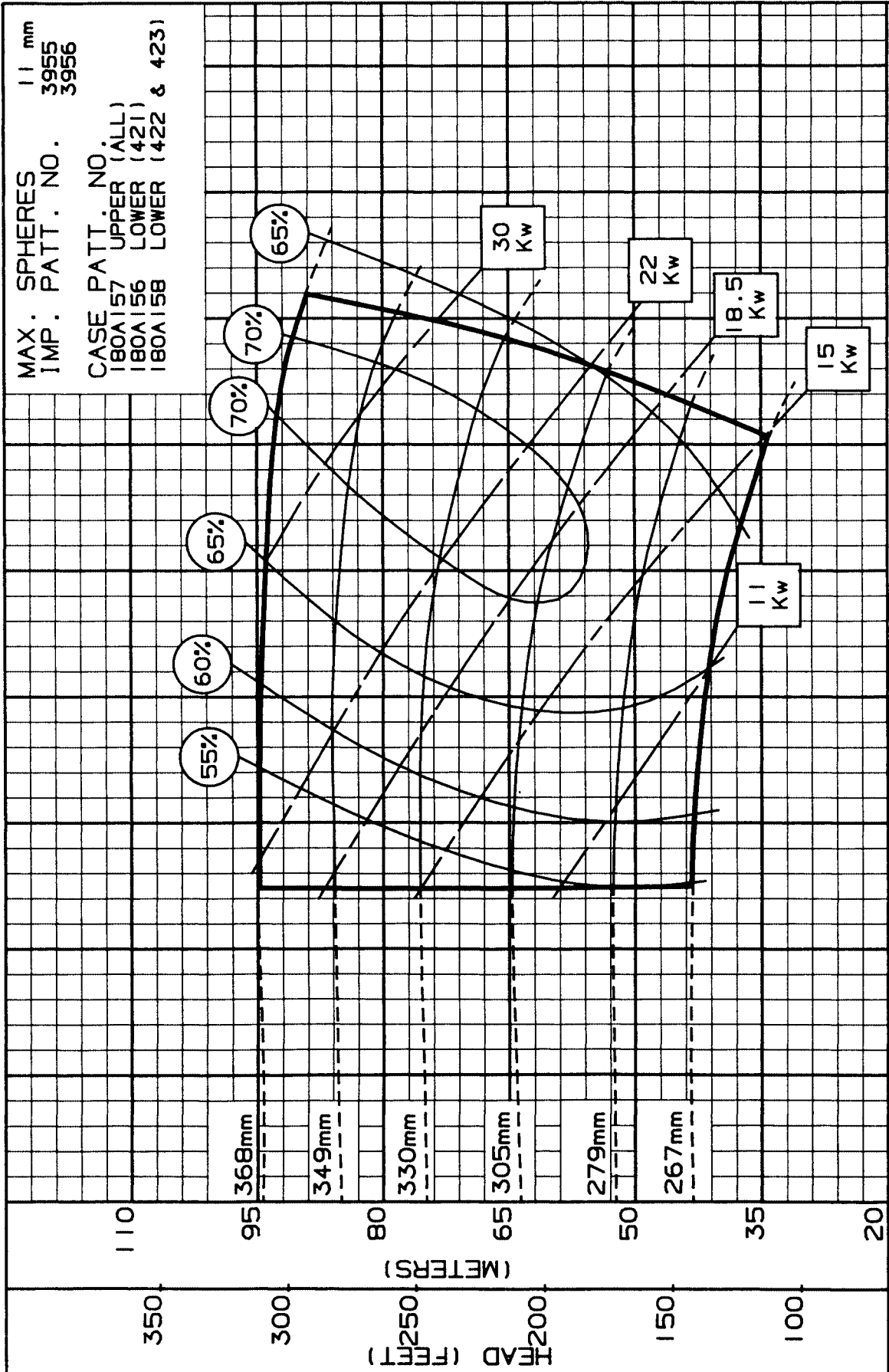
M <sup>3</sup> /HR	0	12	24	36	48	60	72	84	96	108
L/S	0	4	8	12	16	20	24	28		
U.S. GPM	0	60	120	180	240	300	360	420		

DRAWN BY: *BA* APPROVED BY: *DL* DATE: 7-94 PC-115900M

SIZE: 3X4X14B TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 11 mm  
IMP. PATT. NO. 3955  
3956

CASE PATT. NO.  
180A157 UPPER (ALL)  
180A156 LOWER (421)  
180A158 LOWER (422 & 423)



M <sup>3</sup> /HR	0	15	30	45	60	75	90	105	120	135
L/S	5	15	25	35	45	55	65	75	85	95
U.S. GPM	75	150	225	300	375	450	525	600	675	750

DRAWN BY: *RAK* APPROVED BY: *DL* DATE: 7-90 PC-118277M

SECTION 420 (Metric 50Hz)

DATE JULY 1994

SUPERCEDES OCTOBER 1986

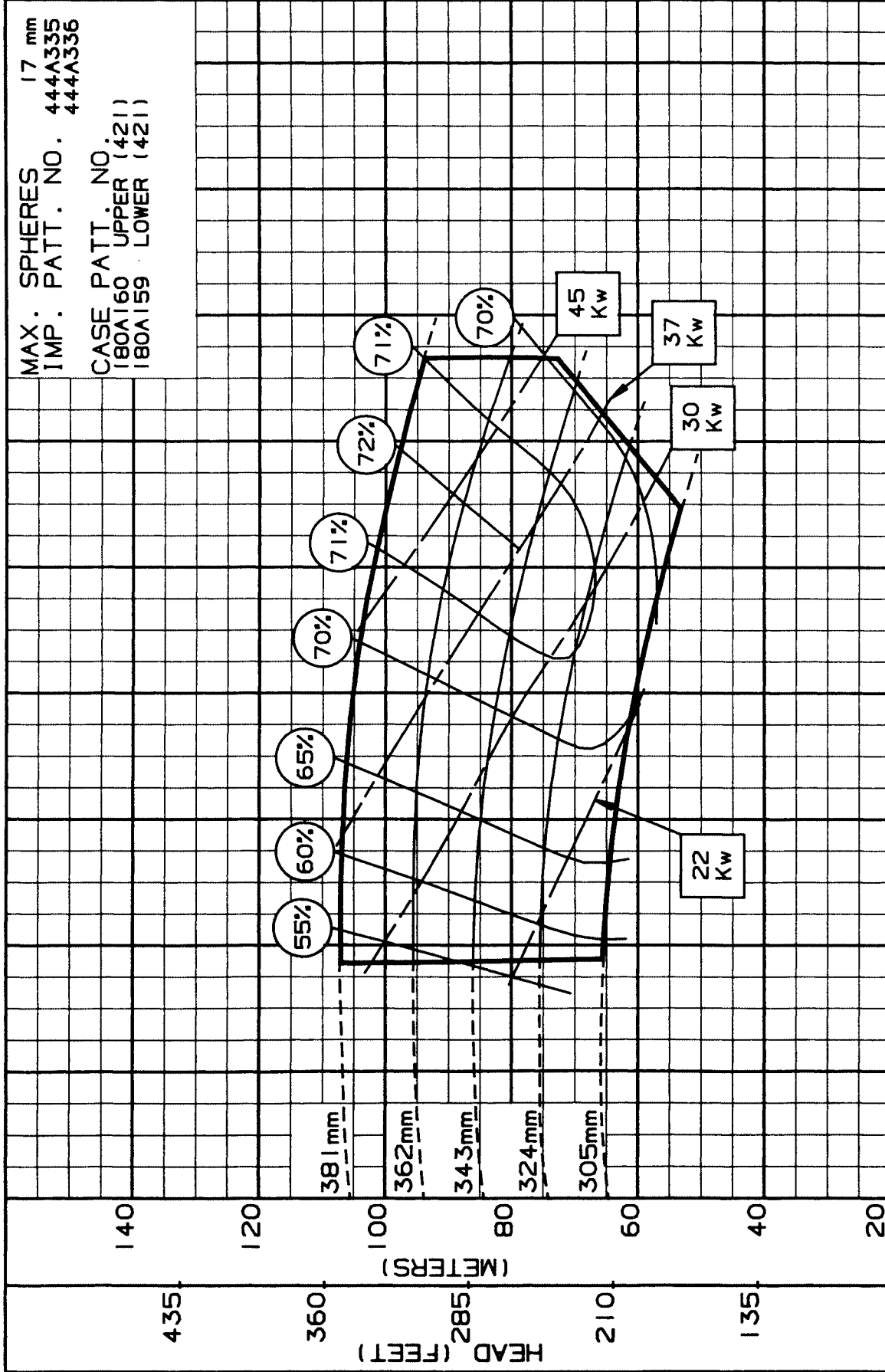
# 4x5x15 - 1475 RPM ENCLOSED IMPELLER



SIZE: 4X5X15 TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 1475

MAX. SPHERES 17 mm  
IMP. PATT. NO. 444A335  
444A336

CASE PATT. NO.  
180A160 UPPER (421)  
180A159 LOWER (421)

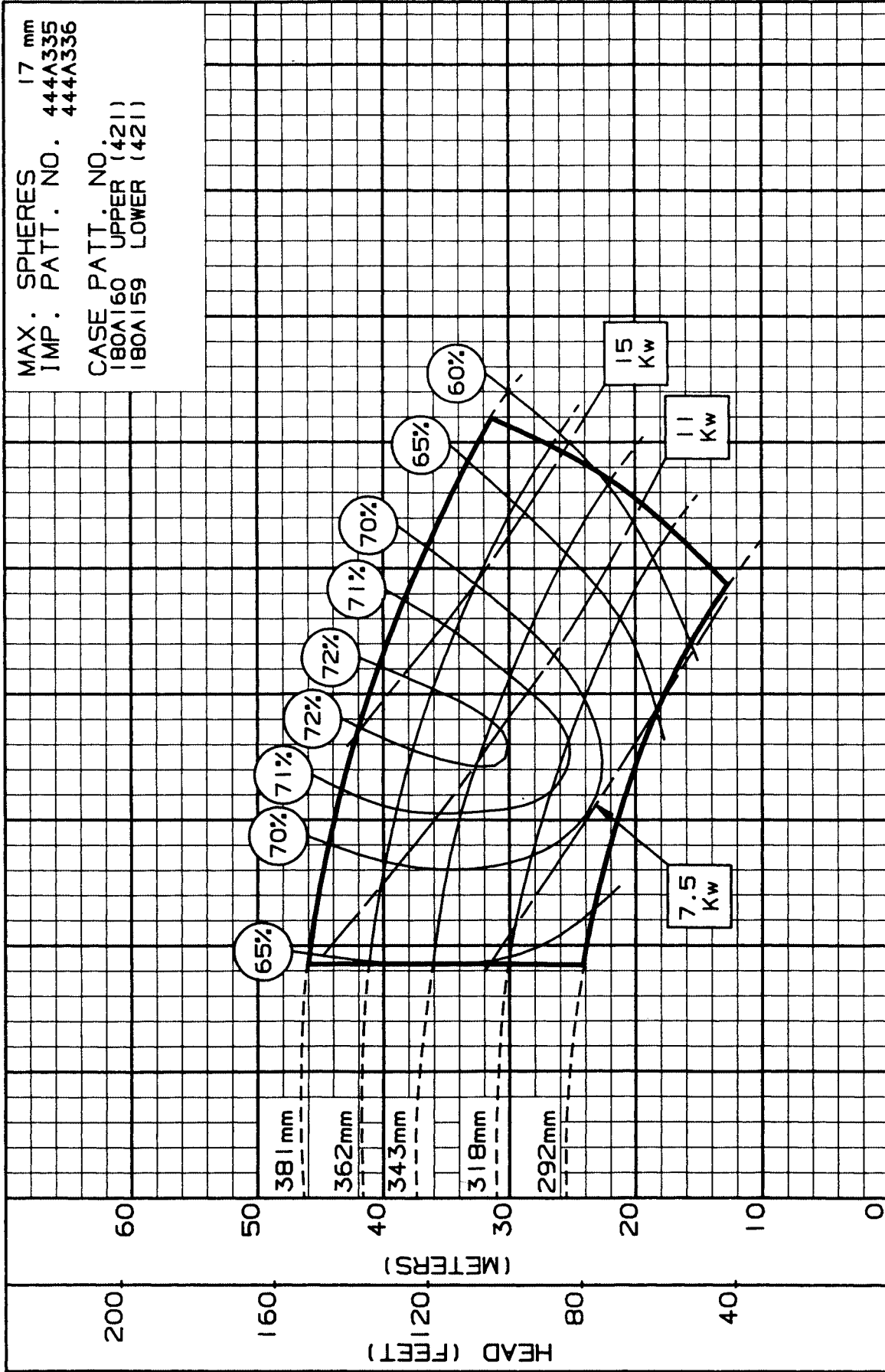


M <sup>3</sup> /HR	20	40	60	80	100	120	140	160	180	200
L/S	15	25	35	45	55	65	75	85	95	105
U.S. GPM	180	280	380	480	580	680	780	880	980	1080

DRAWN BY: *[Signature]* APPROVED BY: DL DATE: 7-90 PC-115902M

SIZE: 4X5X15 TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 960

MAX. SPHERES 17 mm  
IMP. PATT. NO. 444A335  
444A336  
CASE PATT. NO. 180A160 UPPER (421)  
180A159 LOWER (421)

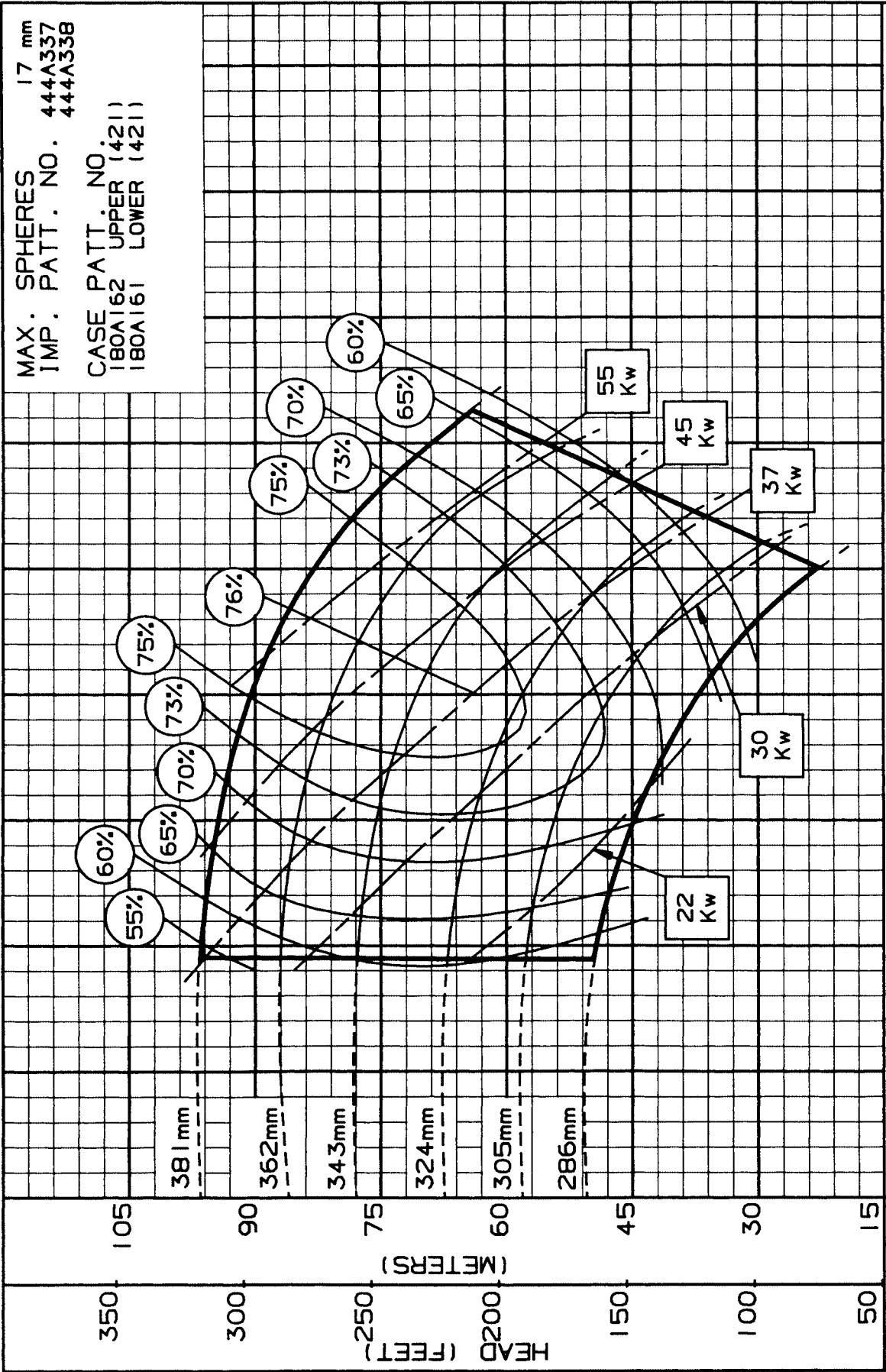


M <sup>3</sup> /HR	0	40	80	100	120	140	160	180	200
L/S	15	25	35	45	55	65	75	85	95
U.S. GPM	180	280	380	480	580	680	780	880	980
DRAWN BY:	APC		APPROVED BY:	DL	DATE:	7-90	PC-115903M		

5x6x15 - 1440 RPM  
ENCLOSED IMPELLER

SIZE: 5X6X15 TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 17 mm  
IMP. PATT. NO. 444A337  
444A338  
CASE PATT. NO. 180A162 UPPER (421)  
180A161 LOWER (421)

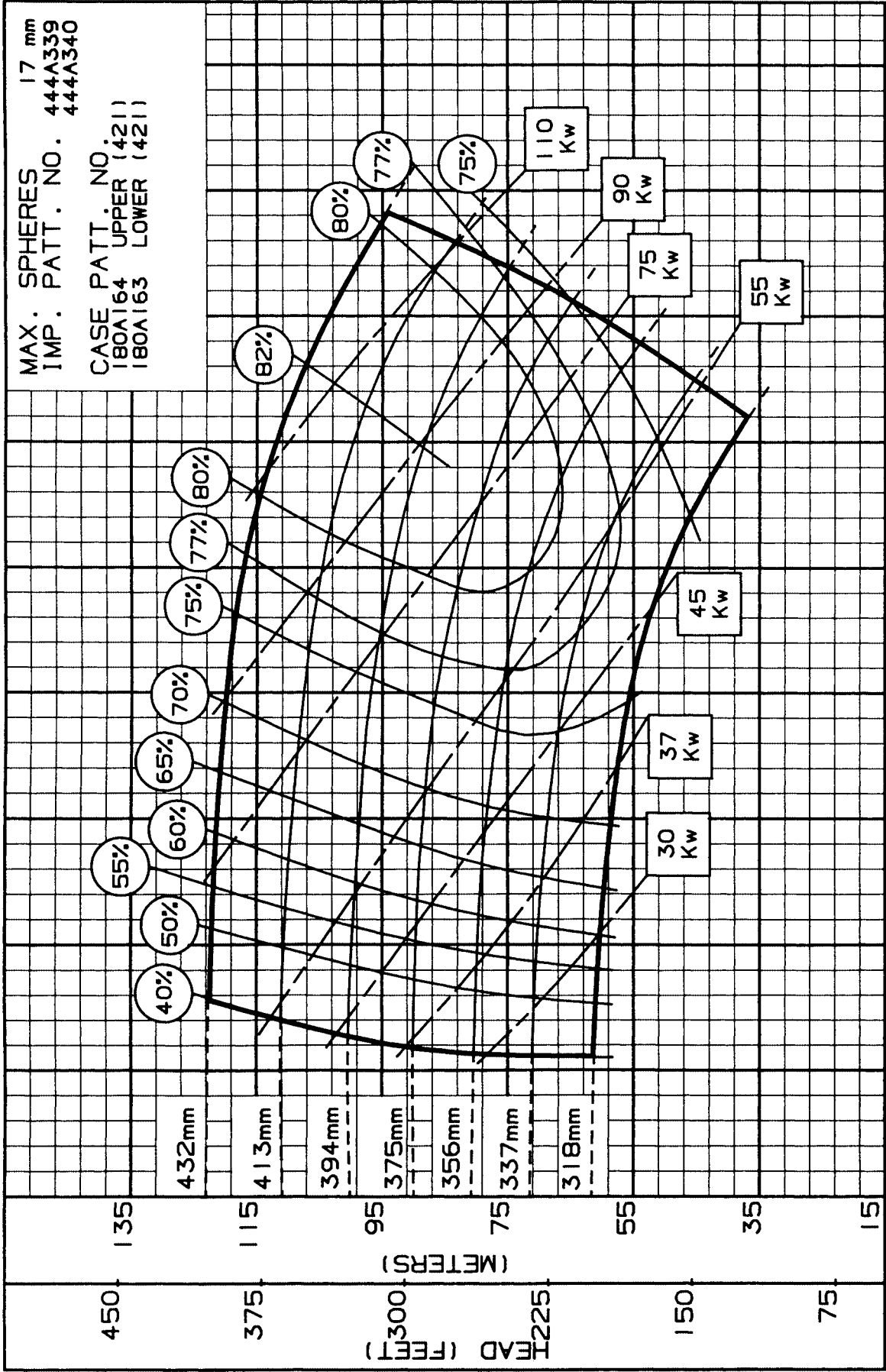


M <sup>3</sup> /HR	0	40	80	120	160	200	240	280	320	360
L/S	0	15	30	45	60	75	90	105	120	135
U.S. GPM	0	200	400	600	800	1000	1200	1400	1600	1800

DRAWN BY: *RM* APPROVED BY: DL DATE: 7-90 PC-115904M

SIZE: 6X8X17A TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 1475

MAX. SPHERES 17 mm  
IMP. PATT. NO. 444A339  
444A340  
CASE PATT. NO. 180A164 UPPER (421)  
180A163 LOWER (421)



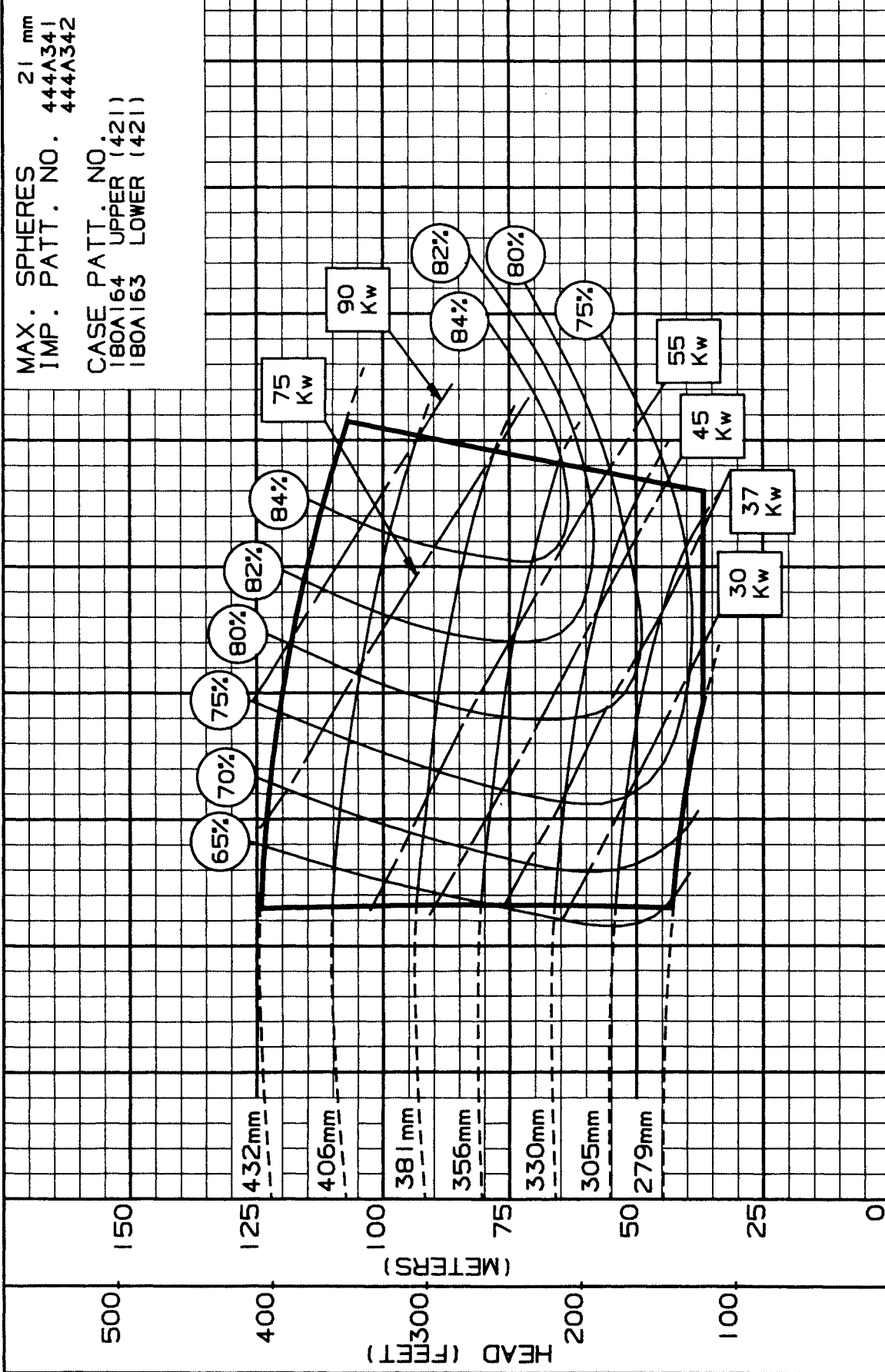
M <sup>3</sup> /HR	0	50	100	150	200	250	300	350	400	450
L/S	0	15	30	45	60	75	90	105	120	120
U.S. GPM	0	250	500	750	1000	1250	1500	1750	1750	1750

DRAWN BY: *Kdh* APPROVED BY: DL DATE: 7-94 PC-115905M

SIZE: 6X8X17B TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 1475

MAX. SPHERES 21 mm  
IMP. PATT. NO. 444A341  
444A342

CASE PATT. NO.  
180A164 UPPER (421)  
180A163 LOWER (421)



M<sup>3</sup>/HR 0 50 100 150 200 250 300 350 400 450

L/S 15 30 45 60 75 90 105 120

U.S. GPM 250 500 750 1000 1250 1500 1750

DRAWN BY: *ASH* APPROVED BY: DL DATE: 7-90 PC-115906M



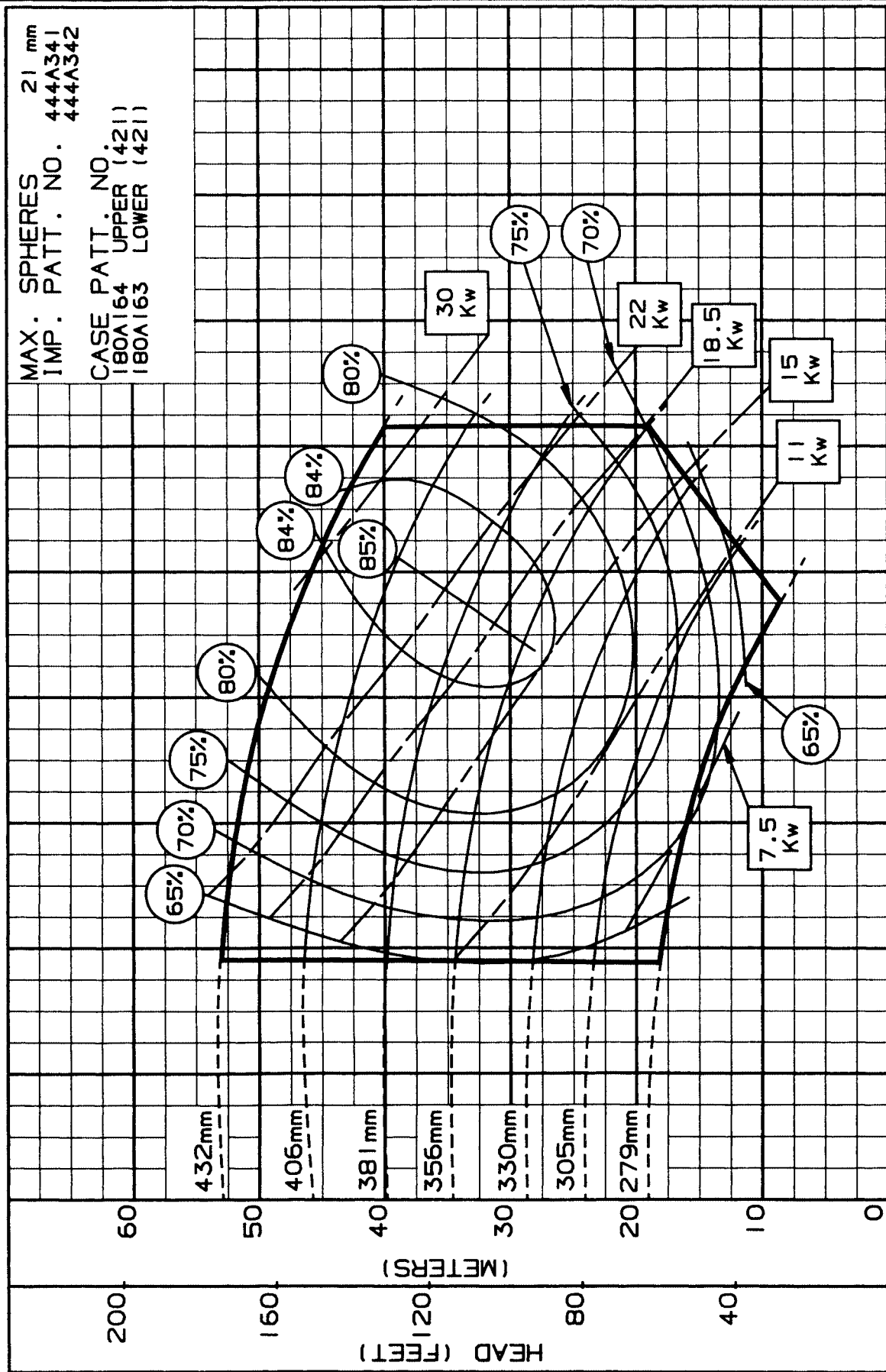
**AURORA®**  
Pentair Pump Group

**6x8x17B - 960 RPM**  
**ENCLOSED IMPELLER**

SECTION 420 (Metric 50Hz)  
DATE JULY 1994  
SUPERCEDES OCTOBER 1986

SIZE: 6X8X17B TYPE: 420 IMPELLER: ENCLOSED R.P.M.: 960

MAX. SPHERES 21 mm  
IMP. PATT. NO. 444A341  
444A342  
CASE PATT. NO. 180A164 UPPER (421)  
180A163 LOWER (421)



M <sup>3</sup> /HR	20	40	80	120	160	200	240	280	320	360
L/S	15	30	45	60	75	90	100	120	140	180
U.S. GPM	200	400	600	800	1000	1200	1400	1600	1800	2000

DRAWN BY: *[Signature]* APPROVED BY: DL DATE: 7-90 PC-115907M