

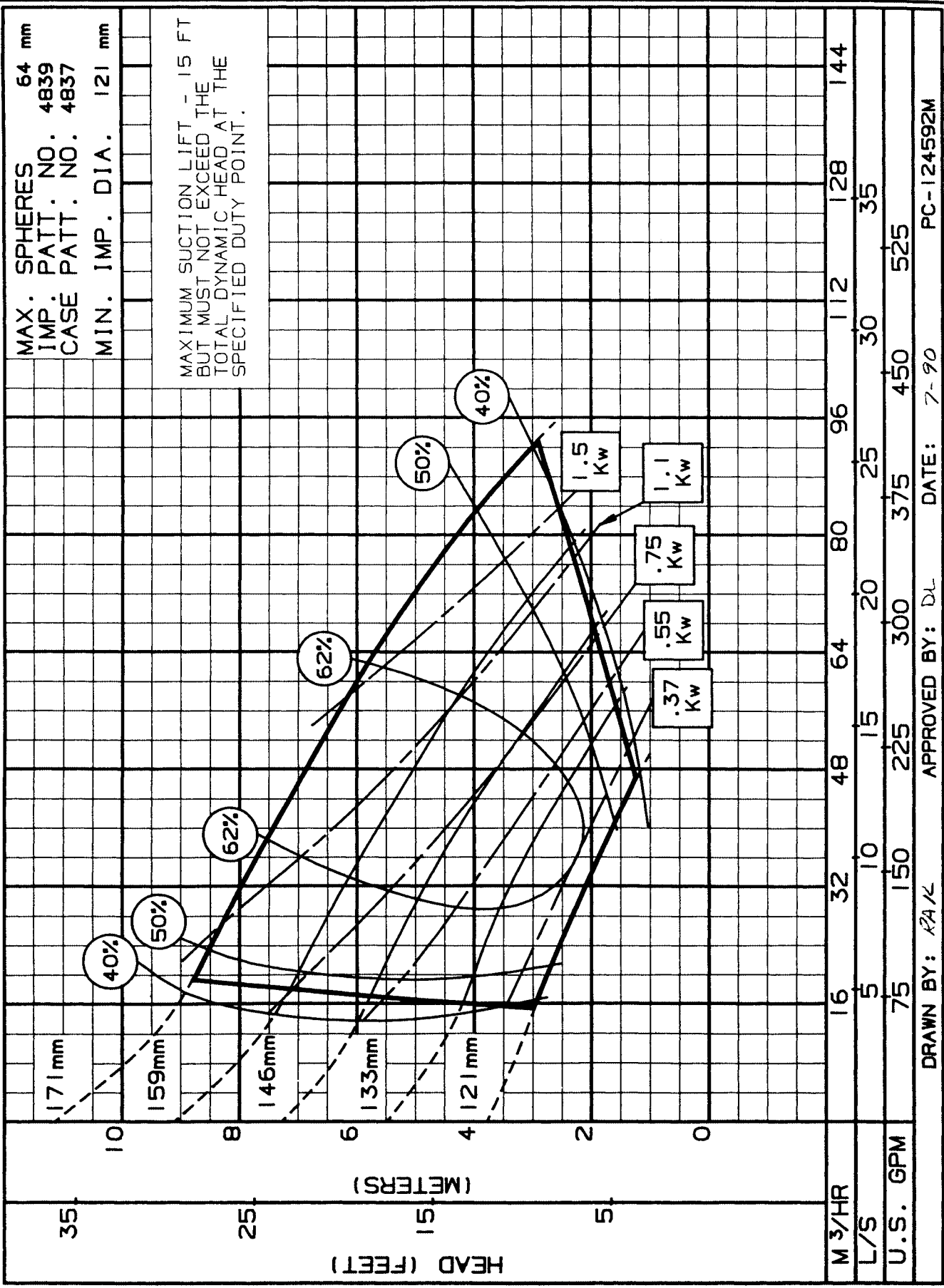
## Performance Curves for the 650 Series (50 Hz)

MODEL/SIZE	R.P.M.	PDF PAGE
3x3x7	1440	2
3x3x7	960	3
3x3x9	1440	4
3x3x9	960	5
4x4x7	1440	6
4x4x7	960	7
4x4x9A	1440	8
4x4x9A	960	9
4x4x9B	1440	10
4x4x9B	960	11
4x4x9B	720	12
4x6x15	1475	13
4x6x15	960	14
4x6x15	720	15
4x6x15	575	16

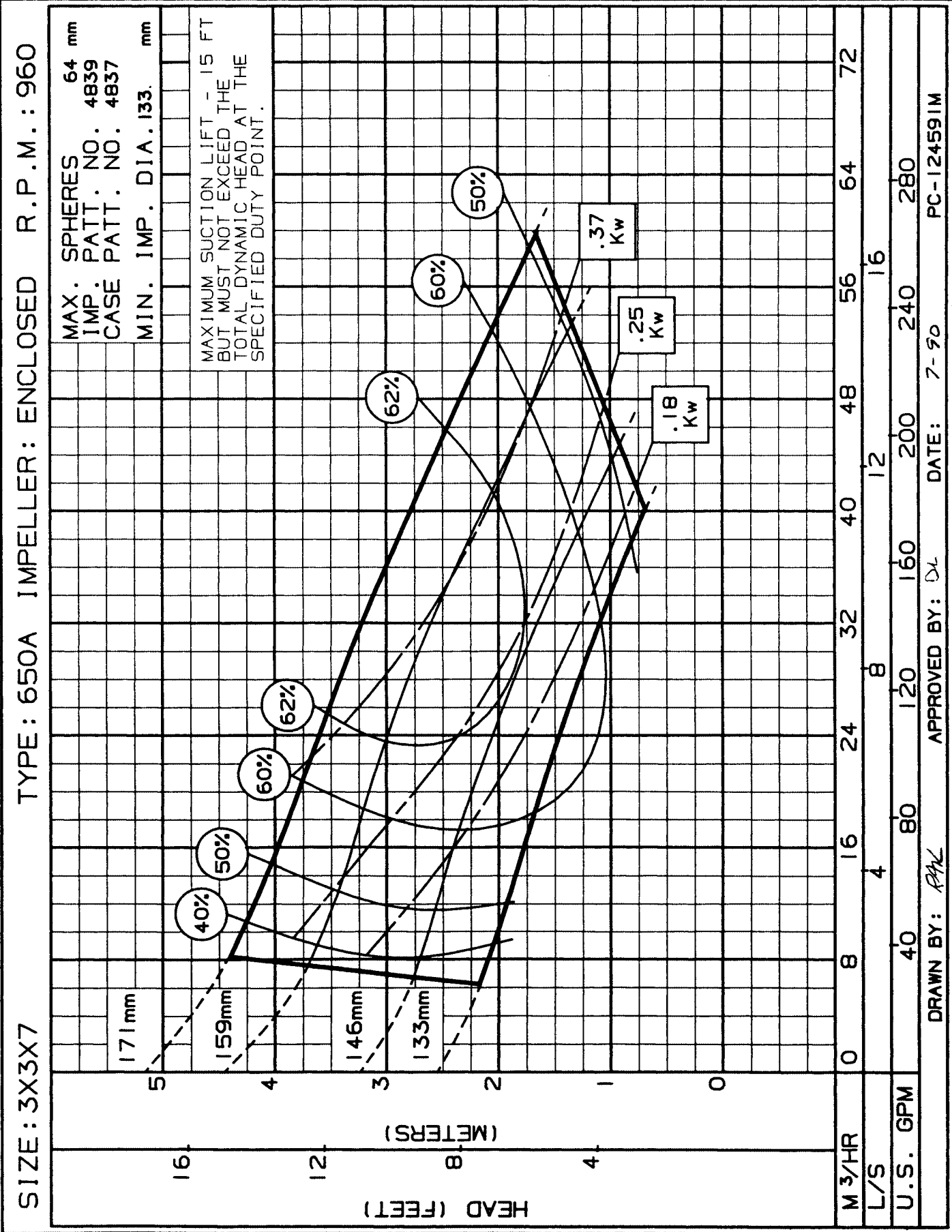
SIZE: 3X3X7 TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 64 mm  
IMP. PATT. NO. 4839  
CASE PATT. NO. 4837  
MIN. IMP. DIA. 121 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.



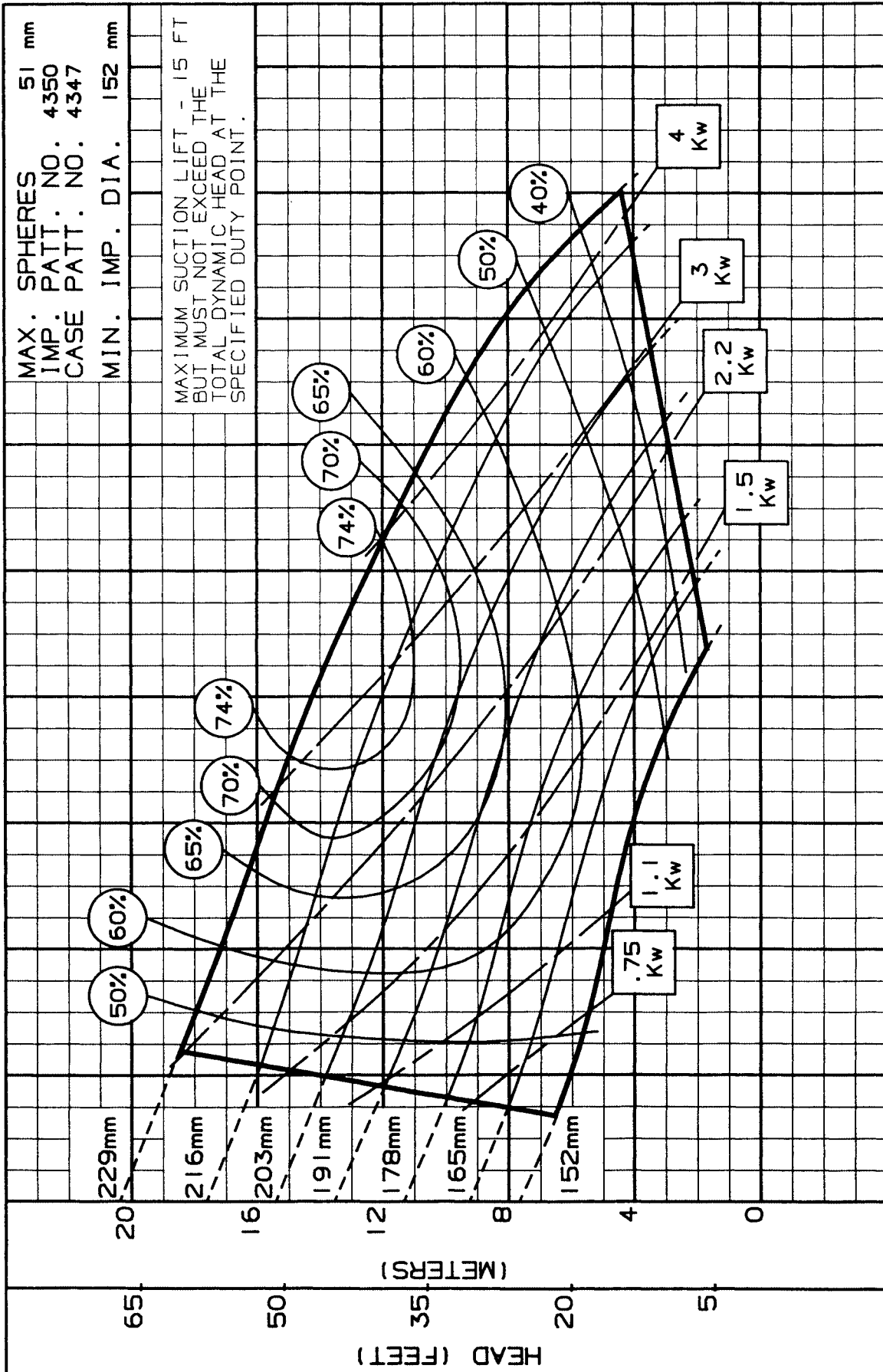
DRAWN BY: KAZK APPROVED BY: DL DATE: 7-90 PC-124592M



SIZE: 3X3X9 TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 51 mm  
IMP. PATT. NO. 4350  
CASE PATT. NO. 4347  
MIN. IMP. DIA. 152 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.



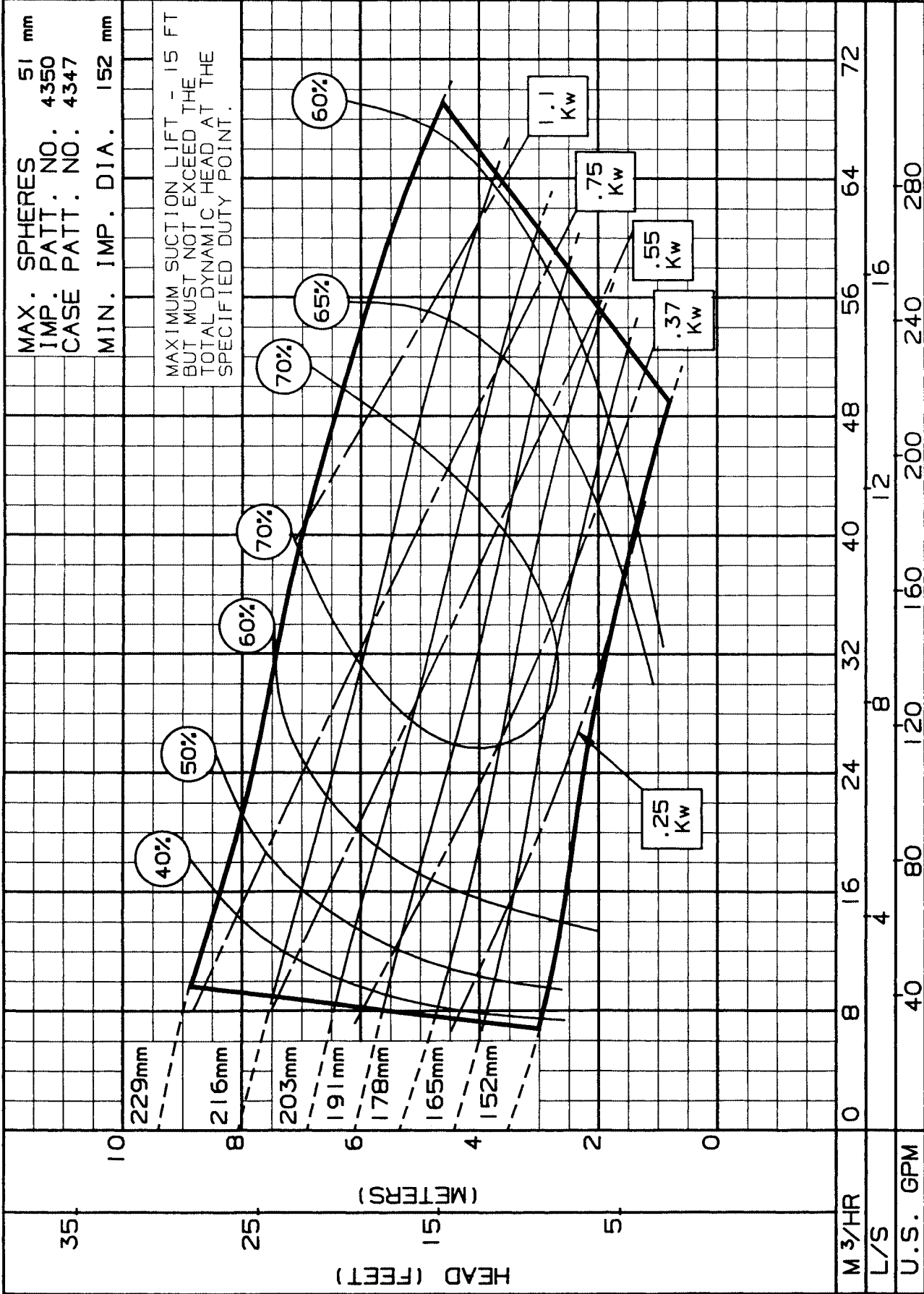
M <sup>3</sup> /HR	0	16	32	48	64	80	96	112	128	144
L/S	5	10	15	20	25	30	35			
U.S. GPM	75	150	225	300	375	450	525			

DRAWN BY: *RAZ* APPROVED BY: DL DATE: 7-90 PC-124590M

SIZE: 3X3X9 TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 960

MAX. SPHERES 51 mm  
IMP. PATT. NO. 4350  
CASE PATT. NO. 4347  
MIN. IMP. DIA. 152 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.

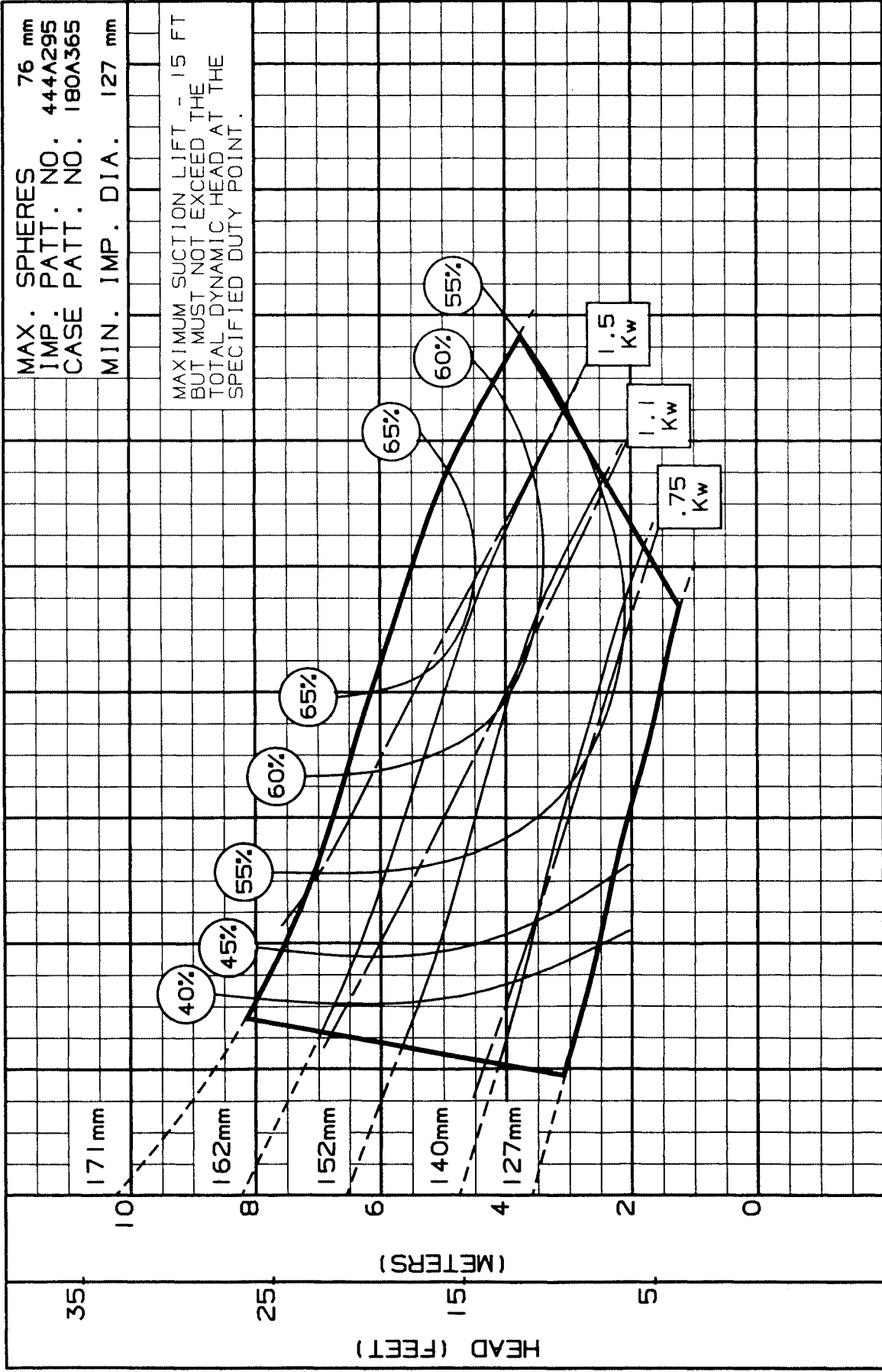


DRAWN BY: *ATL* APPROVED BY: DL DATE: 7-90 PC-124589M

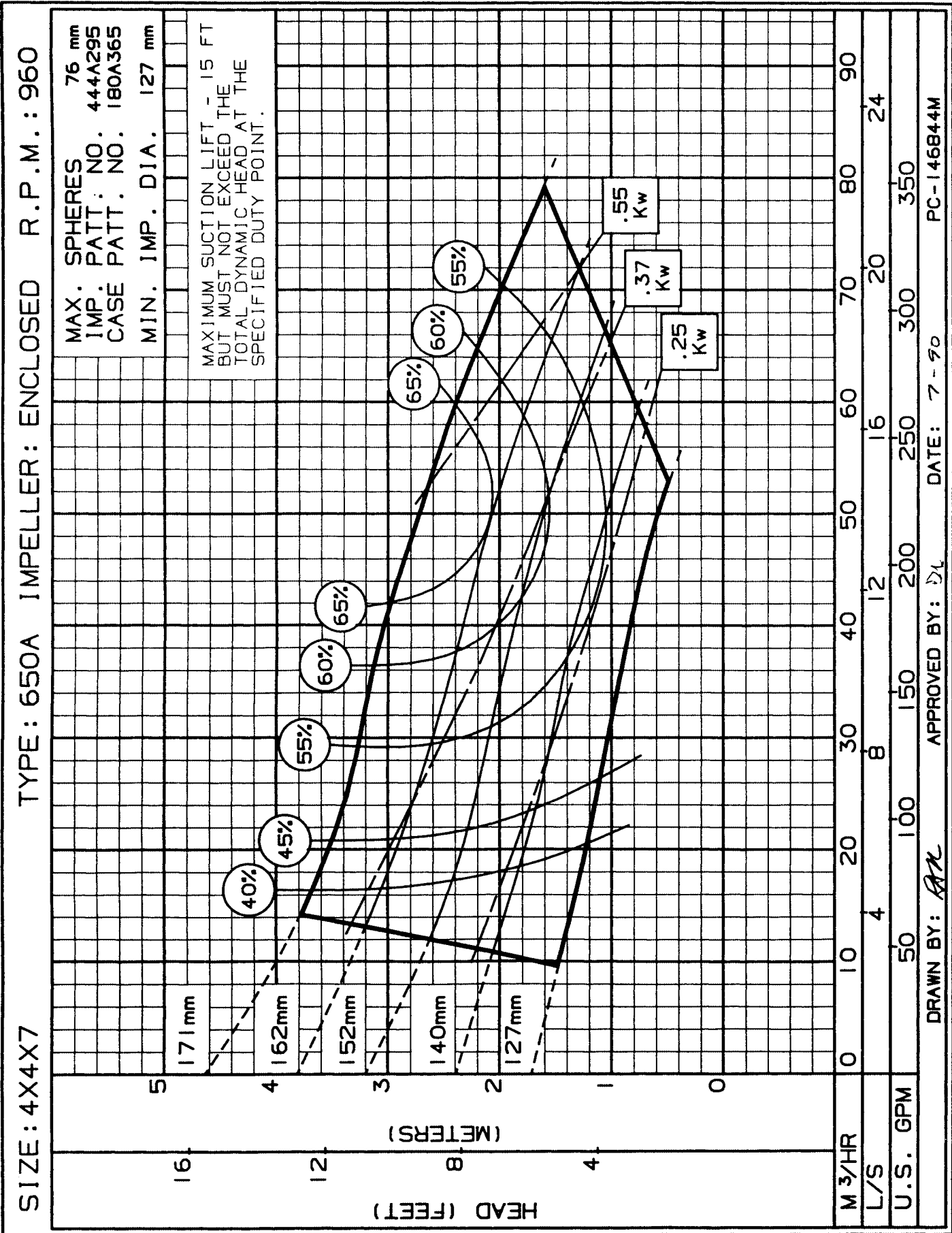
SIZE: 4X4X7 TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 76 mm  
IMP. PATT. NO. 444A295  
CASE PATT. NO. 180A365  
MIN. IMP. DIA. 127 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.



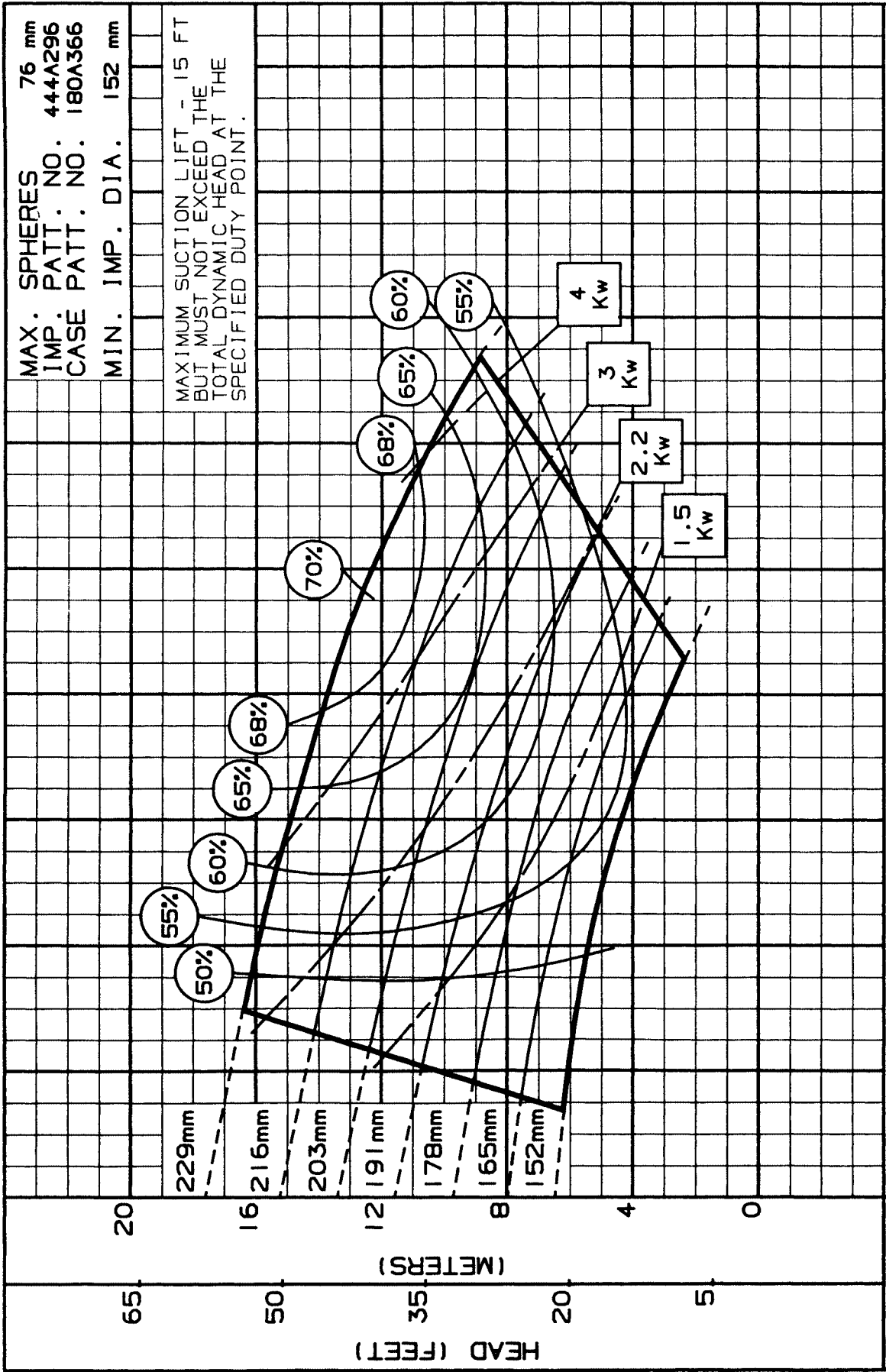
DRAWN BY: *ATC* APPROVED BY: *DL* DATE: 7-90 PC-146843M



SIZE: 4X4X9A TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 76 mm  
IMP. PATT. NO. 444A296  
CASE PATT. NO. 180A366  
MIN. IMP. DIA. 152 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.



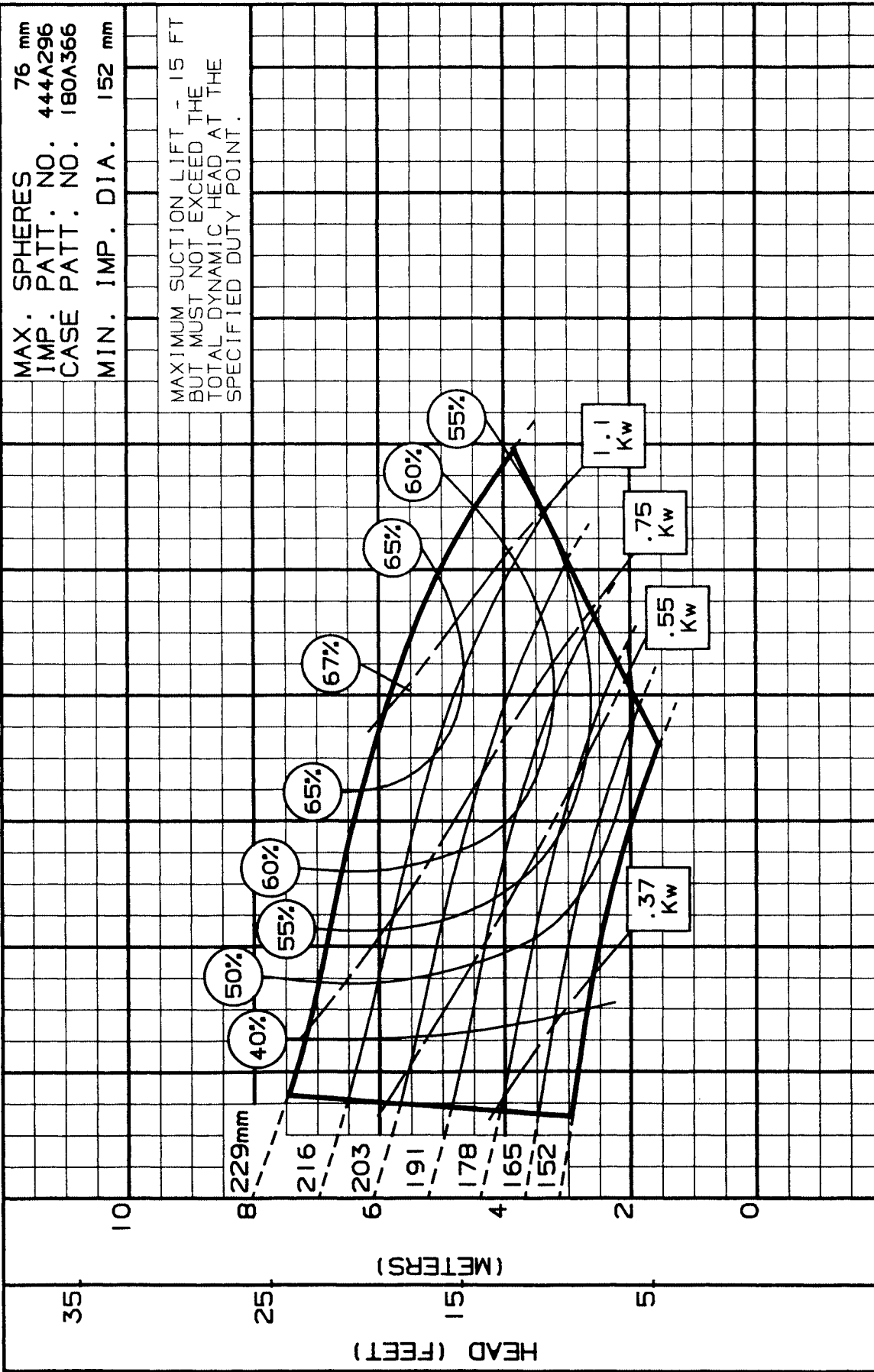
M <sup>3</sup> /HR	0	16	32	48	64	80	96	112	128	144
L/S	5	15	25	30	35	40	45	50	55	60
U.S. GPM	75	150	225	300	375	450	525			
DRAWN BY: <i>BAZ</i> APPROVED BY: DL DATE: 7-90 PC-14700IM										



SIZE: 4X4X9A TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 960

MAX. SPHERES 76 mm  
 IMP. PATT. NO. 444A296  
 CASE PATT. NO. 180A366  
 MIN. IMP. DIA. 152 mm

MAXIMUM SUCTION LIFT - 15 FT  
 BUT MUST NOT EXCEED THE  
 TOTAL DYNAMIC HEAD AT THE  
 SPECIFIED DUTY POINT.



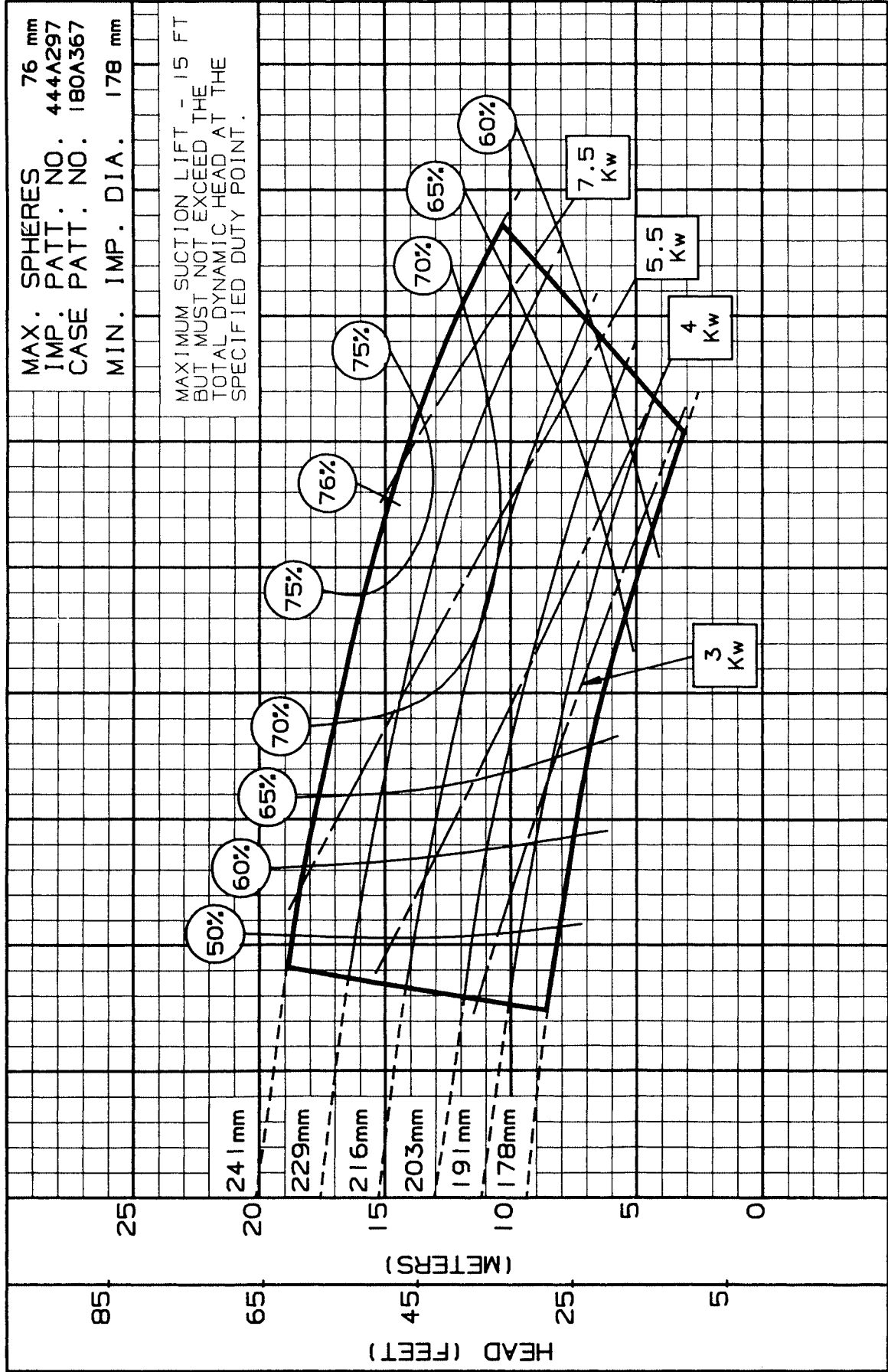
M <sup>3</sup> /HR	0	12	24	36	48	60	72	84	96	108
L/S	4	6	8	12	16	20	24	28	30	36
U.S. GPM	60	120	180	240	300	360	420	480	540	600

DRAWN BY: *RAZ* APPROVED BY: *DL* DATE: 7-90 PC-147002M

SIZE: 4X4X9B TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 1440

MAX. SPHERES 76 mm  
IMP. PATT. NO. 444A297  
CASE PATT. NO. 180A367  
MIN. IMP. DIA. 178 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.



M <sup>3</sup> /HR	0	25	50	75	100	125	150	175	200	225
L/S		10	20	30	40	50	60	70	80	90
U.S. GPM		150	300	450	600	750	900			
DRAWN BY: <i>ATL</i> APPROVED BY: <i>DL</i> DATE: 7-90 PC-146601M										

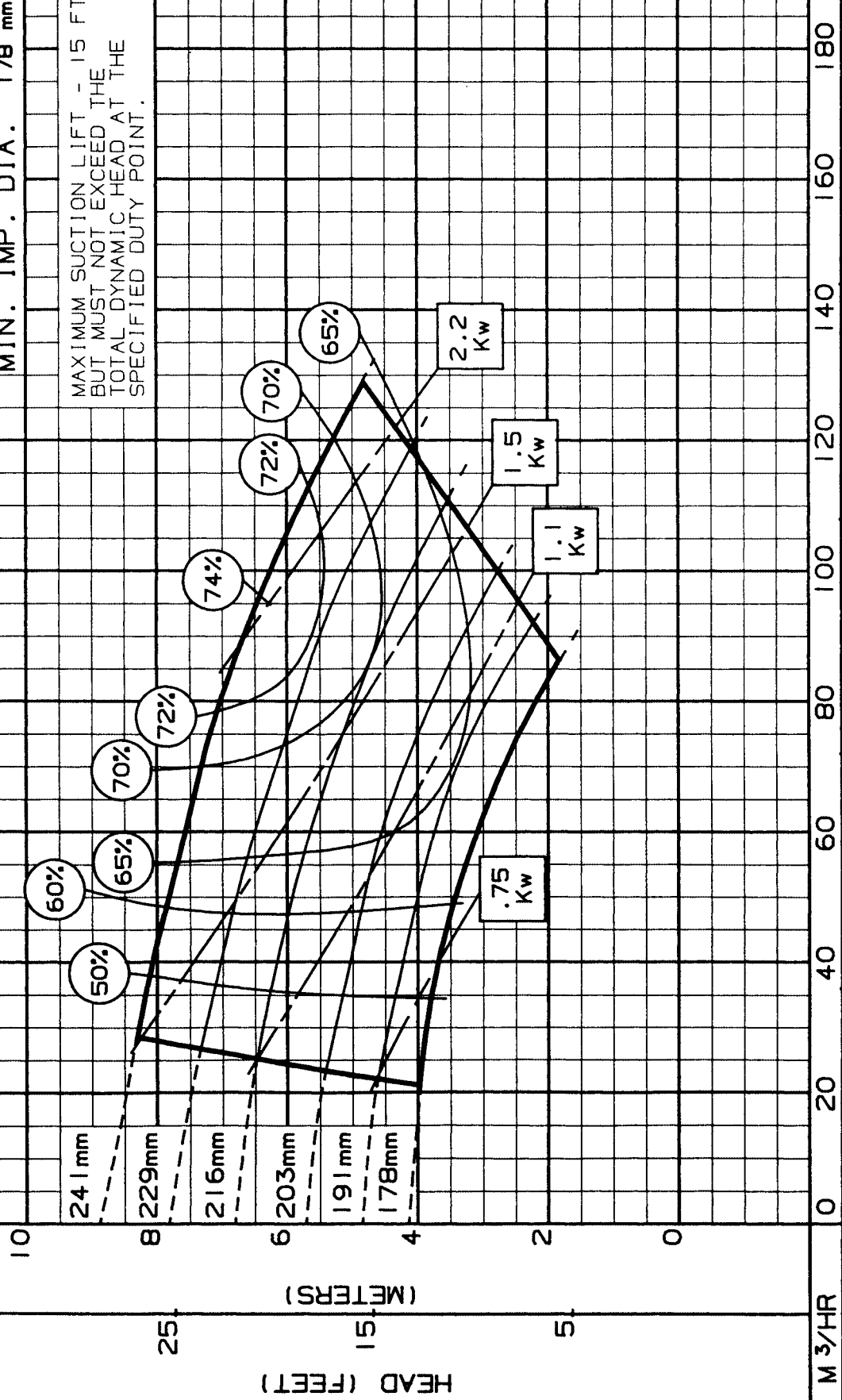
4x4x9B - 960 RPM  
ENCLOSED IMPELLER



SIZE: 4X4X9B TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 960

MAX. SPHERES 76 mm  
IMP. PATT: NO. 444A297  
CASE PATT: NO. 180A367  
MIN. IMP. DIA. 178 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.

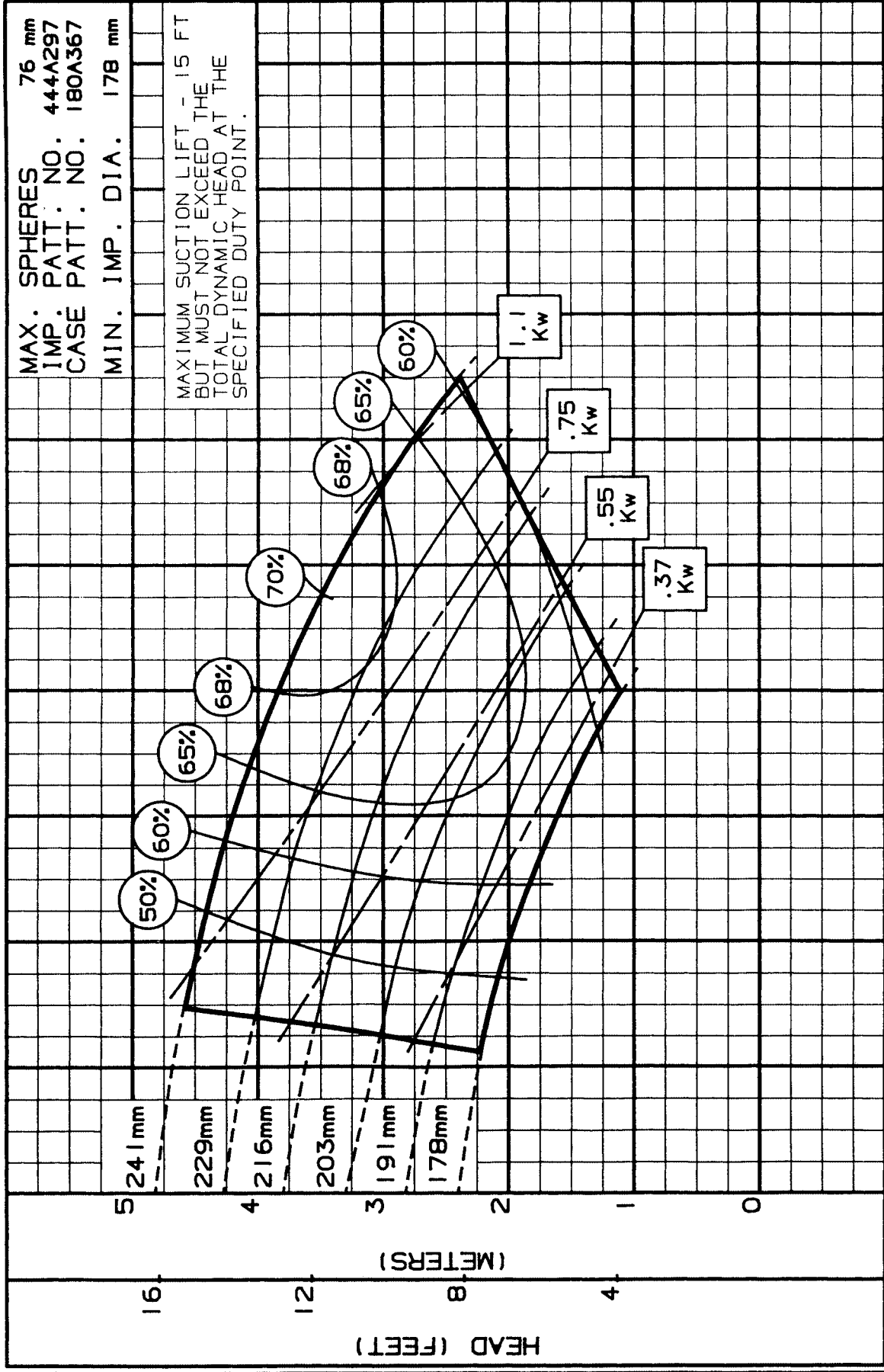


DRAWN BY: *ATC* APPROVED BY: *DL* DATE: 7-90 PC-146602M

SIZE: 4X4X9B TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 720

MAX. SPHERES 76 mm  
IMP. PATT. NO. 444A297  
CASE PATT. NO. 180A367  
MIN. IMP. DIA. 178 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.



M <sup>3</sup> /HR	0	16	32	48	64	80	96	112	128	144
L/S		5	10	15	20	25	30	35		
U.S. GPM		75	150	225	300	375	450	525		

DRAWN BY: *APC* APPROVED BY: *DL* DATE: 7-90 PC-146603M

SECTION 650A (Metric 50Hz)

DATE JULY 1994

SUPERCEDES MARCH 1986

4x6x15 - 1475 RPM

ENCLOSED IMPELLER

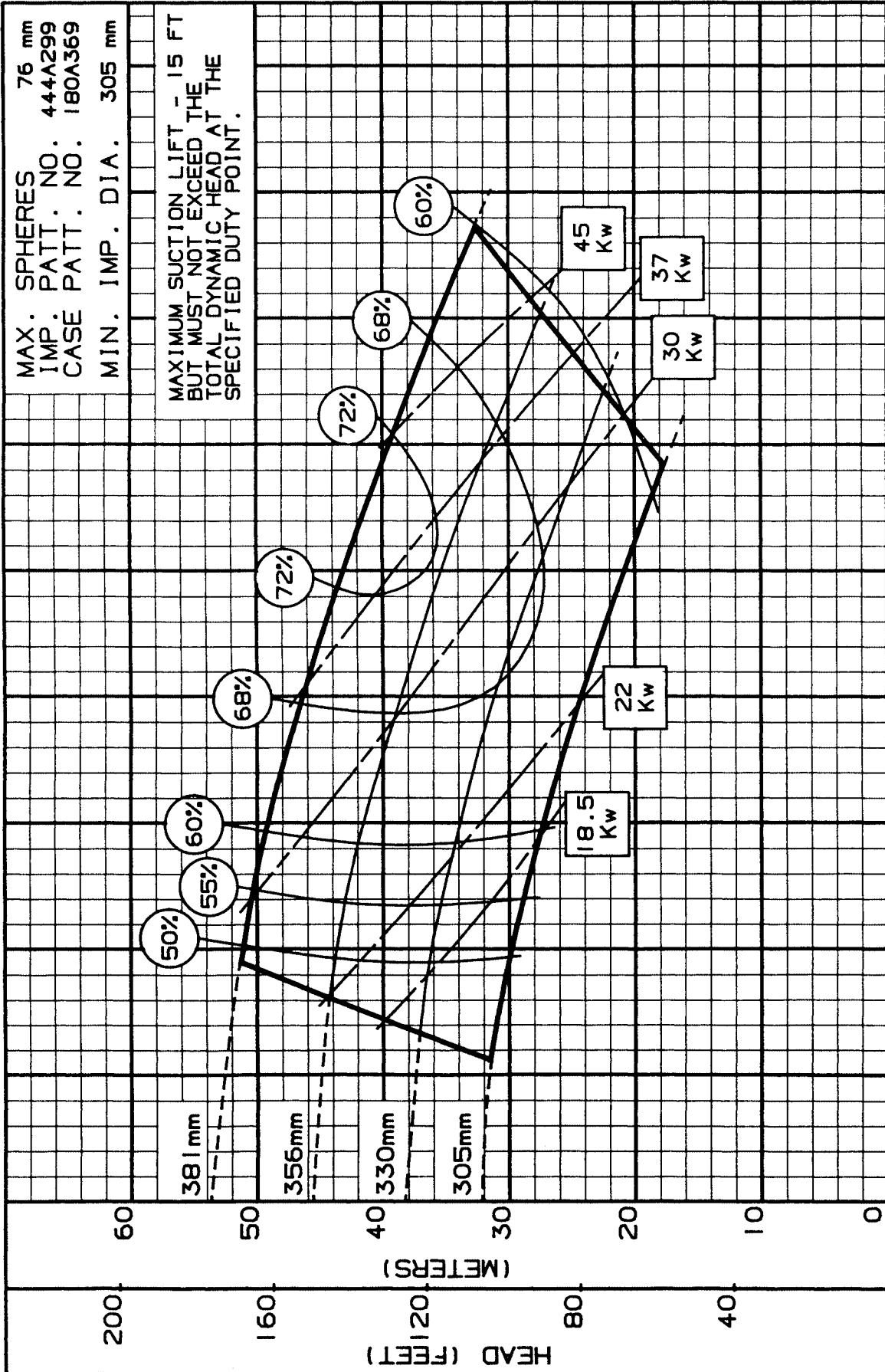


Pentair Pump Group

SIZE: 4X6X15 TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 1475

MAX. SPHERES 76 mm  
IMP. PATT. NO. 444A299  
CASE PATT. NO. 180A369  
MIN. IMP. DIA. 305 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.

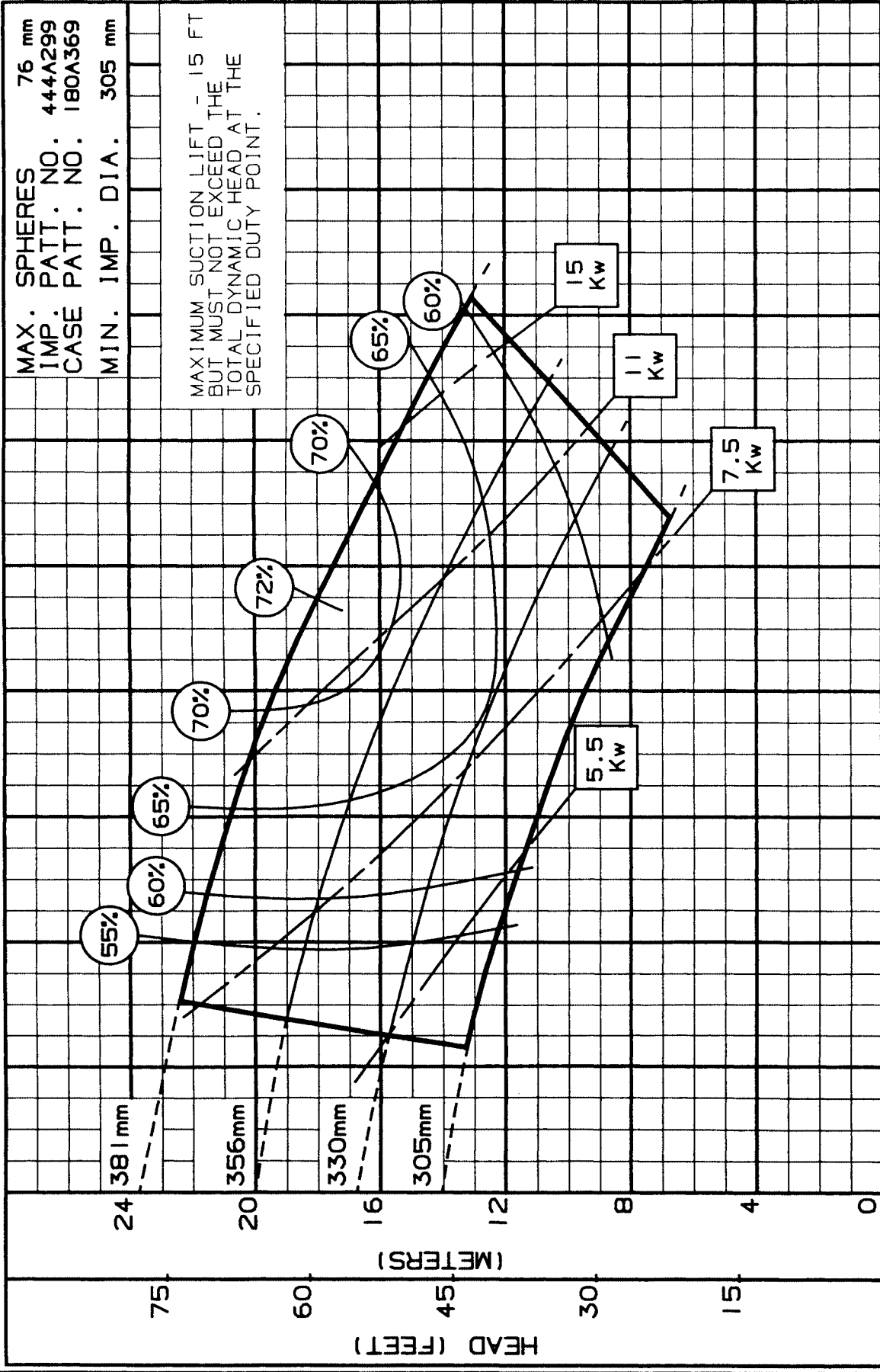


DRAWN BY: *RAZ* APPROVED BY: *DL* DATE: 7-90 PC-146815M

SIZE: 4X6X15 TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 960

MAX. SPHERES 76 mm  
IMP. PATT. NO. 444A299  
CASE PATT. NO. 180A369  
MIN. IMP. DIA. 305 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.



M <sup>3</sup> /HR	0	40	80	120	160	200	240	280	320	360
L/S	15	30	45	60	75	90	100	120	1400	1400
U.S. GPM	200	400	600	800	1000	1200	1400	1400	1400	1400
DRAWN BY: <i>RAK</i> APPROVED BY: <i>DL</i> DATE: 7-90										PC-146816M

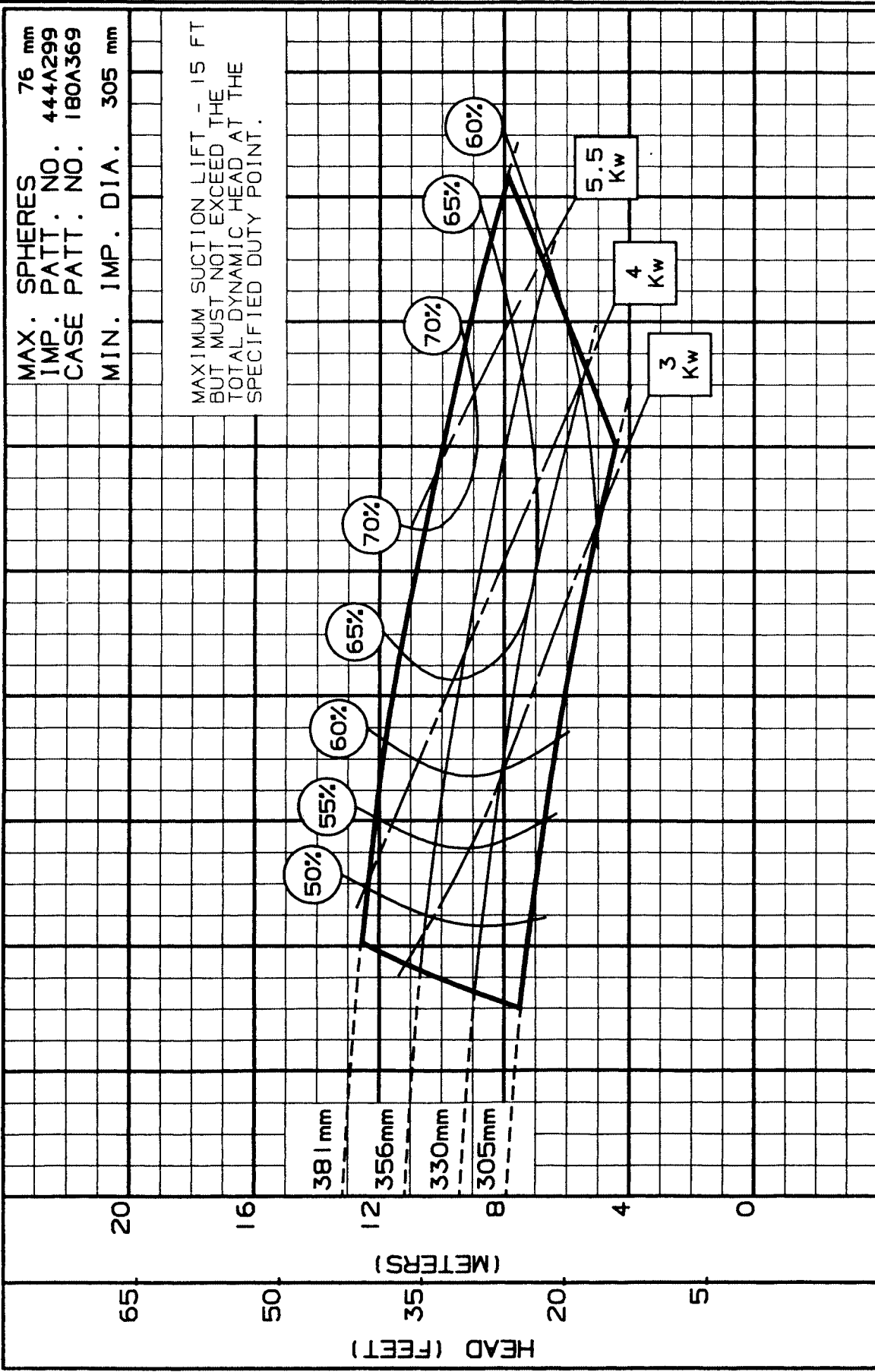
4x6x15 - 720 RPM  
ENCLOSED IMPELLER



SIZE: 4X6X15 TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 720

MAX. SPHERES 76 mm  
IMP. PATT. NO. 444A299  
CASE PATT. NO. 180A369  
MIN. IMP. DIA. 305 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.



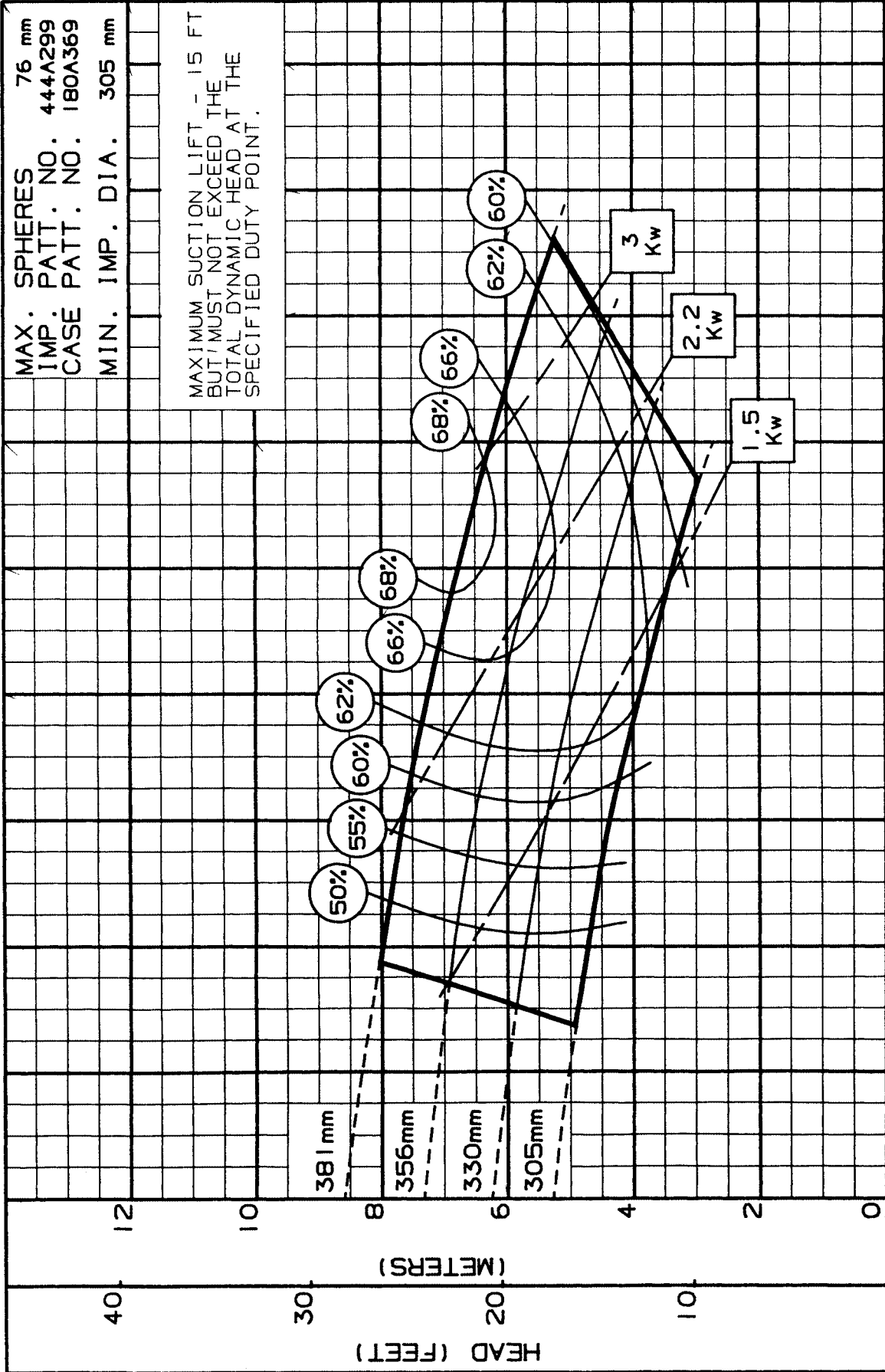
M <sup>3</sup> /HR	0	24	48	72	96	120	144	168	192	216
L/S		10	20	30	40	50				
U.S. GPM	150	300	450	600	750					

DRAWN BY: *RAZ* APPROVED BY: *DL* DATE: 7-90 PC-146817M

SIZE: 4X6X15 TYPE: 650A IMPELLER: ENCLOSED R.P.M.: 575

MAX. SPHERES 76 mm  
IMP. PATT. NO. 444A299  
CASE PATT. NO. 180A369  
MIN. IMP. DIA. 305 mm

MAXIMUM SUCTION LIFT - 15 FT  
BUT MUST NOT EXCEED THE  
TOTAL DYNAMIC HEAD AT THE  
SPECIFIED DUTY POINT.



M<sup>3</sup>/HR 0 20 40 60 80 100 120 140 160 180  
L/S 0 10 20 30 40  
U.S. GPM 100 200 300 400 500 600 700  
DRAWN BY: *ML* APPROVED BY: *DL* DATE: 7-94 PC-146818M