



Batescrew Pumps & Valves Impeller Performance Sheets

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Efficiency Change per Stage	
No of Stages	% Change
1	0
2	0
3	0

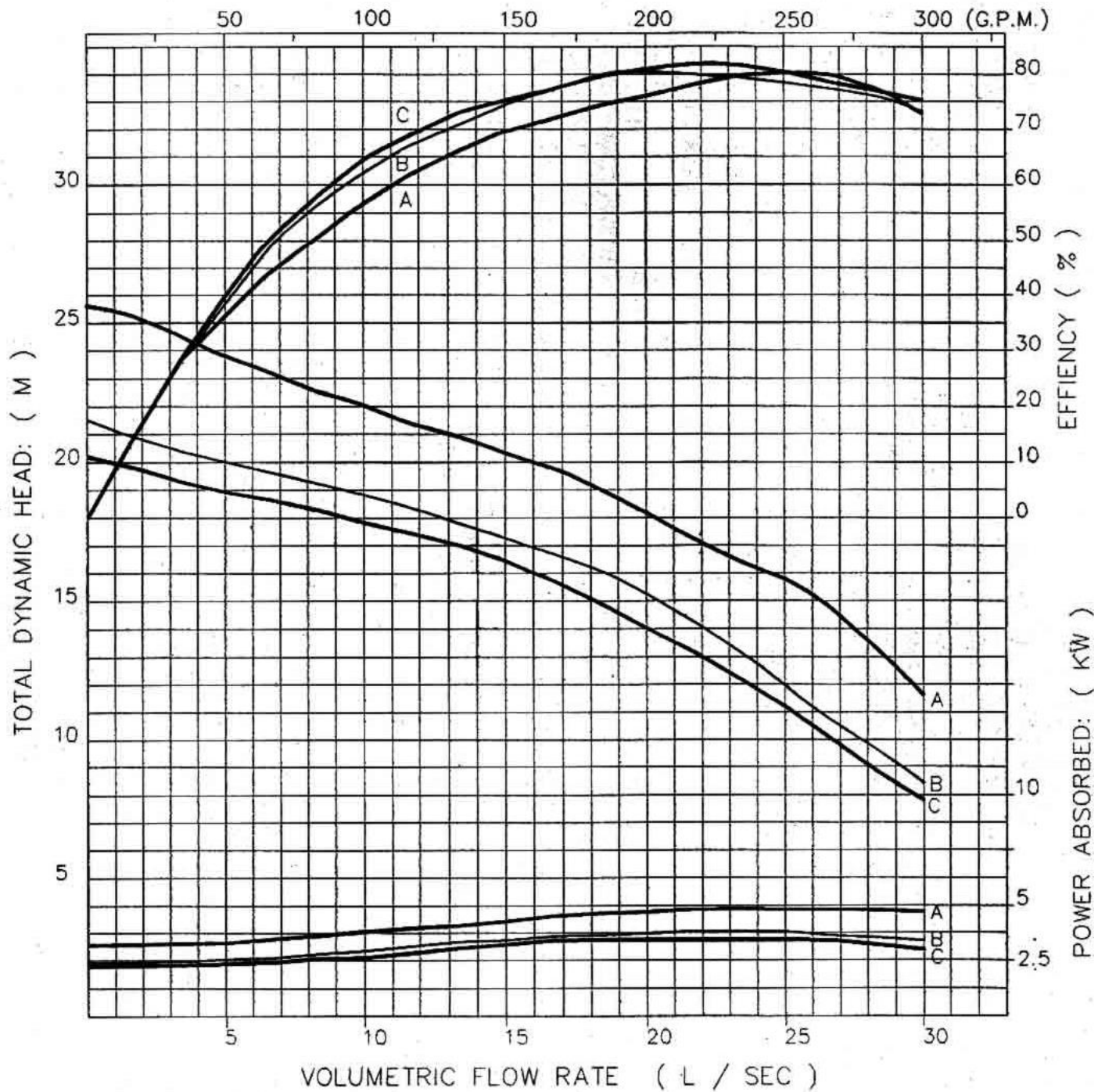
Power will be affected by % change.
AS-2417 Part 2 Class C

One stage length:	435mm
Extra stage length:	160mm
Minimum Submergence:	750mm
Eye Area:	4660mm ²
Thrust Constant:	
Std. axial clearance:	15mm

Maximum Stages:	15
Maximum Trim:	158mm
Number of Vanes:	6
Impeller Material:	GM
Bowl Material:	C.I. T220
Shaft Material:	431 SS
Bush Material:	LB2BR
Max. Sphere size:	18mm
Max. Bowl diameter:	184mm
Max. Pressure Head:	150M
To suit pump models:	7SE/4 7SE/6

Impeller No:	7SE
Curve No.	87113
Speed:	2900 rpm ACW
Trim:	A, B & C
Date:	2/2/87

Impeller Type	
Axial Flow	
Mixed Flow	••••
Centrifugal	
Open	
Closed	••••
Maximum Speed:	3600 rpm
Minimum Speed:	600 rpm



Efficiency Change per Stage

No of Stages	% Change
1	-3
2	-2
3	0

Power will be affected by % change.
AS2417 - Part 2 - Class C.

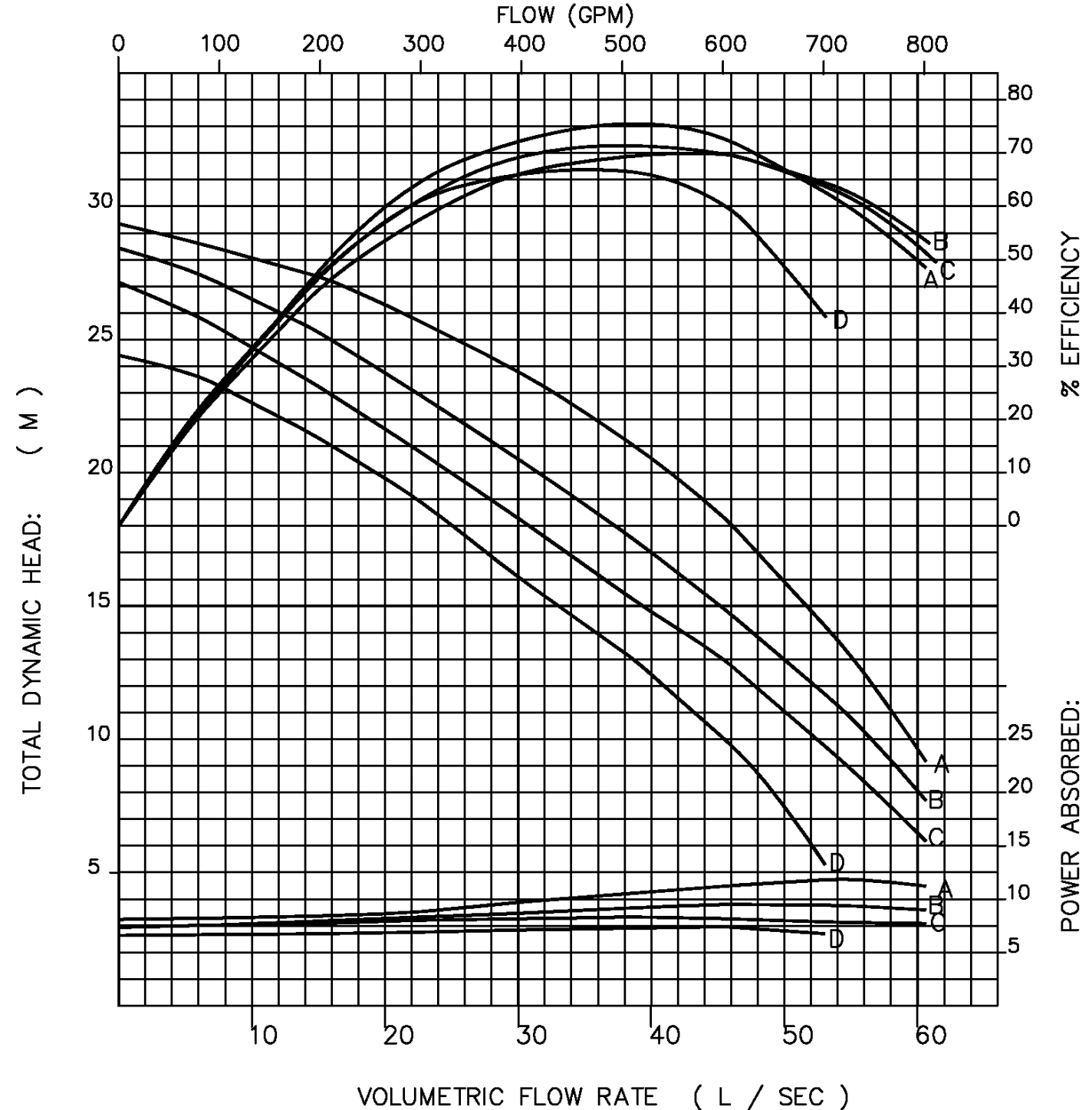
Length of 1 Stage: 457mm
Extra Stage Length: 152mm
Min Submergence: 800mm
Eye Area: 78.5cm²
Thrust Constant: 11.16
Std. Axial Clearance: 12mm

Maximum Stages: 7
Maximum Trim: 158mm
No of Vanes: 6
Impeller Material: GM
Bowl Material: CI T220
Shaft Material: 431 SS
Bush Material: LB2BR
Max. Sphere Size: 18mm
Max. Bowl Dia: 197mm
Max. Pressure Head: 150M
Suit Pump Models:
8HS/4 8HS/6 8HS/8

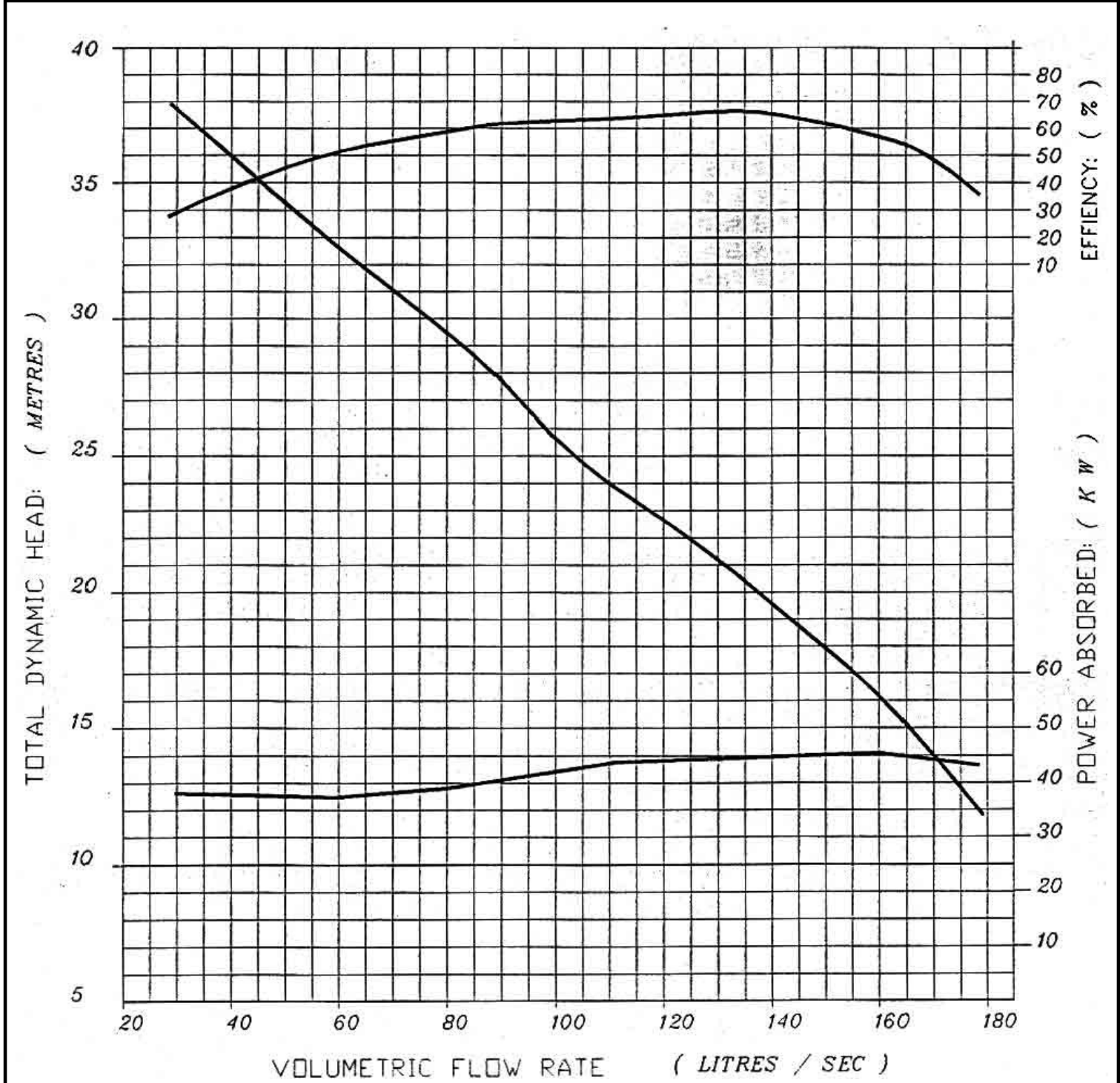
Curve No: 1015.1
Speed: 2950 ACW
Trim: A, B, C, & D
Date: 14/4/88

IMPELLER TYPE:
Axial Flow:
Mixed Flow: ****
Centrifugal:
Open:
Closed: ****

Maximum Speed: 3500rpm
Minimum Speed: 750rpm



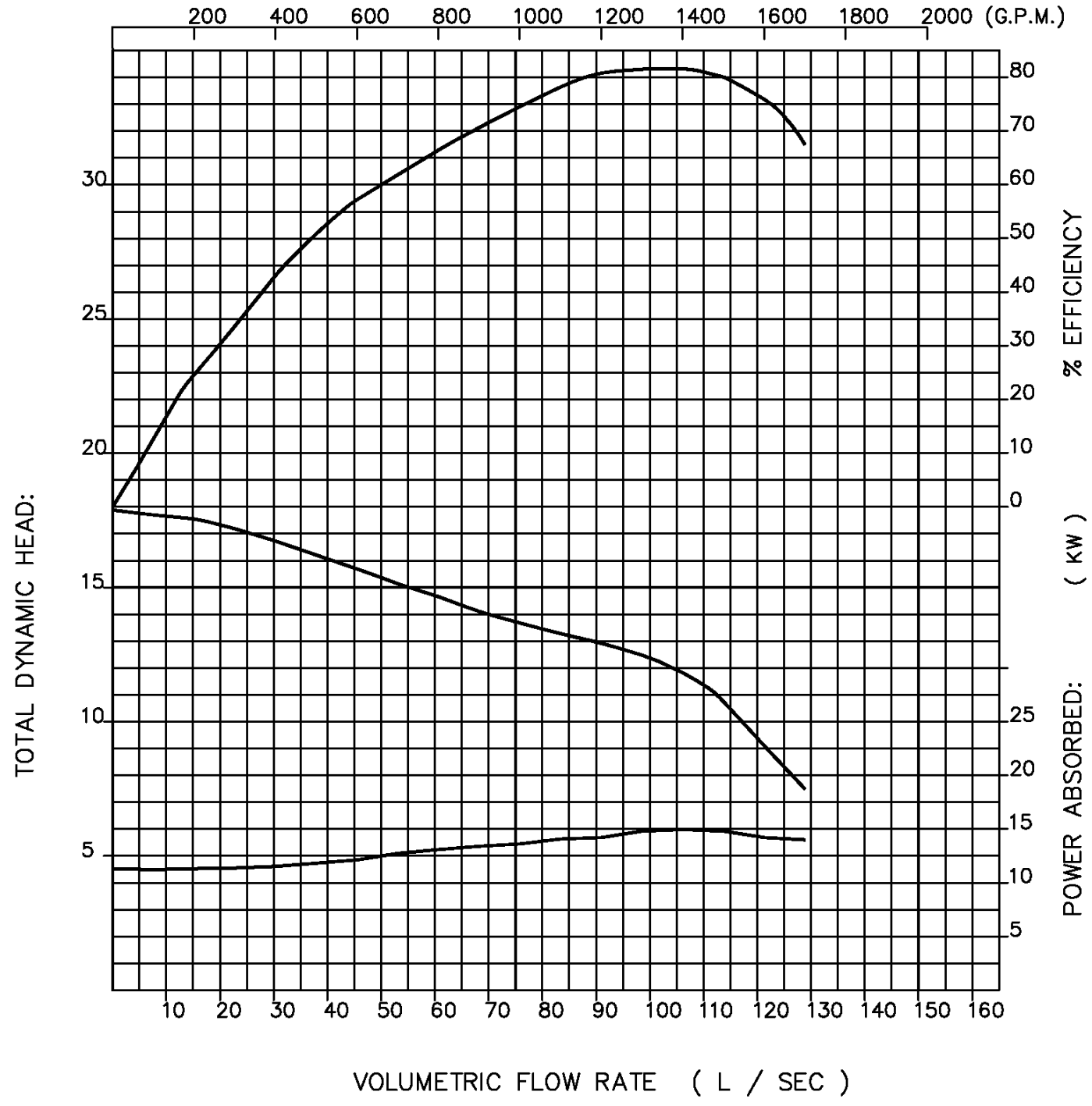
Efficiency Change per Stage						Impeller No: 10SE	
No of Stages	% Change					Curve No. 2111	
1	-1	Maximum Stages: 8				Speed: 2950 rpm ACW	
2	0	Maximum Trim: 203mm				Trim: FULL	
3	0	Number of Vanes: 5				Date: 6/4/98	
Power will be affected by % change. AS-2417 Part 2 Class C		Impeller Material: GM				Impeller Type	
		Bowl Material: C.I. T220				Axial Flow	
		Shaft Material: 431 SS				Mixed Flow ●●●●	
		Bush Material: LB2BR				Centrifugal	
		Max. Sphere size: 27mm				Open	
		Max. Bowl diameter: 241mm				Closed ●●●●	
		Max. Pressure Head: 150M					
		To suit pump models:				Maximum Speed: 3500 rpm	
		10/8 10/10 10/11 10/12				Minimum Speed: 750 rpm	
One stage length:	695mm						
Extra stage length:	210mm						
Minimum Submergence:	_mm						
Eye Area:	167cm ²						
Thrust Constant:							
Std. axial clearance:	10mm						



Efficiency Change per Stage	
No of Stages	% Change
1	-2
2	-1
3	0
Power will be affected by % change. AS2417 - Part 2 - Class C.	
Length of 1 Stage: 800mm	
Extra Stage Length: 268mm	
Min Submergence: 900mm	
Eye Area: 214cm ²	
Thrust Constant:	
Std. Axial Clearance: 10mm	

Maximum Stages:	14
Maximum Trim:	253mm
No of Vanes:	7
Impeller Material:	GM
Bowl Material:	C.I.T220
Shaft Material:	431 S.S.
Bush Material:	LB2BR
Max. Sphere Size:	25mm
Max. Bowl Dia:	292mm
Max. Pressure Head:	180 M
Suit Pump Models:	12MS/8 12MS/9, 12MS/10, 12MS/11, 12MS/12

Curve No:	100-51
Speed:	1460 RPM ACW
Trim:	FULL
Date:	20/9/95
IMPELLER TYPE:	
Axial Flow:	
Mixed Flow:	****
Centrifugal:	
Open:	
Closed:	****
Maximum Speed:	2000 RPM
Minimum Speed:	600 RPM



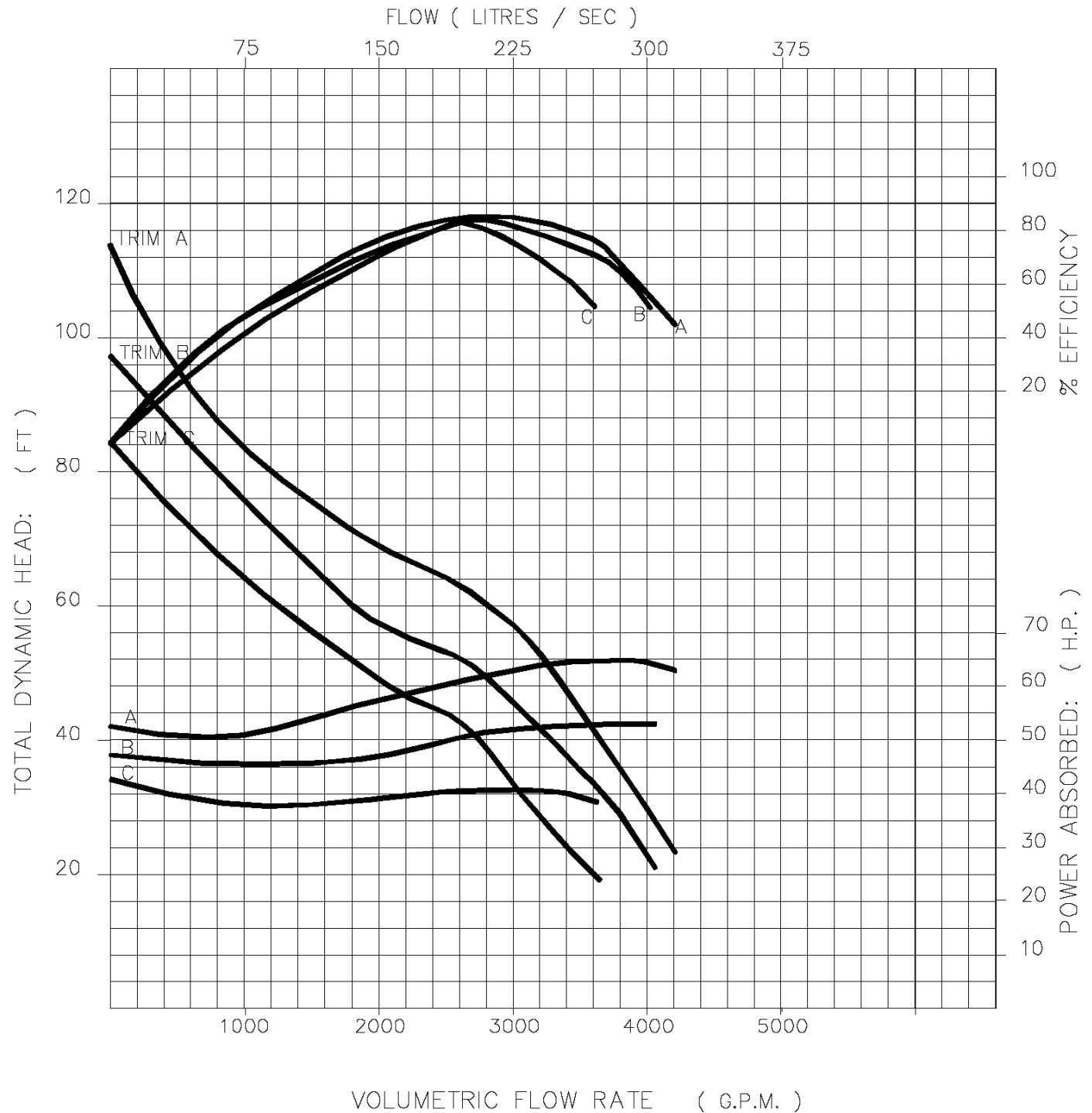
Efficiency Change per Stage	
No of Stages	% Change
1	1
2	
3	0

Power will be affected by % change.
AS2417 - Part 2 - Class C.

Length of 1 Stage:	1124mm
Extra Stage Length:	375mm
Min Submergence:	960mm
Eye Area:	403 cm ²
Thrust Constant:	24
Std. Axial Clearance:	18mm

Maximum Stages:	15
Maximum Trim:	311mm
No of Vanes:	7
Impeller Material:	G.M.
Bowl Material:	C.I.T260
Shaft Material:	431S.S.
Bush Material:	E.P.D.M.
Max. Sphere Size:	32mm
Max. Bowl Dia:	362mm
Max. Pressure Head:	
Suit Pump Models:	14-10
	14-11 14-12 14-14 14-16

Curve No:	2011-11
Speed:	1488 RPM ACW
Trim:	A,B,C
Date:	3/4/96
IMPELLER TYPE:	
Axial Flow:	
Mixed Flow:	****
Centrifugal:	
Open:	
Closed:	****
Maximum Speed:	1800 RPM
Minimum Speed:	600 RPM



BATESCREW

IMPELLER PERFORMANCE (Single Stage)

14MC

Efficiency Change per Stage

No of Stages	% Change
1	-2
2	-1
3	0

Power will be affected by % change.
AS2417 - Part 2 - Class C.

Length of 1 Stage:	778mm
Extra Stage Length:	726mm
Min Submergence:	1220mm
Eye Area:	706cm ²
Thrust Constant:	
Std. Axial Clearance:	35mm

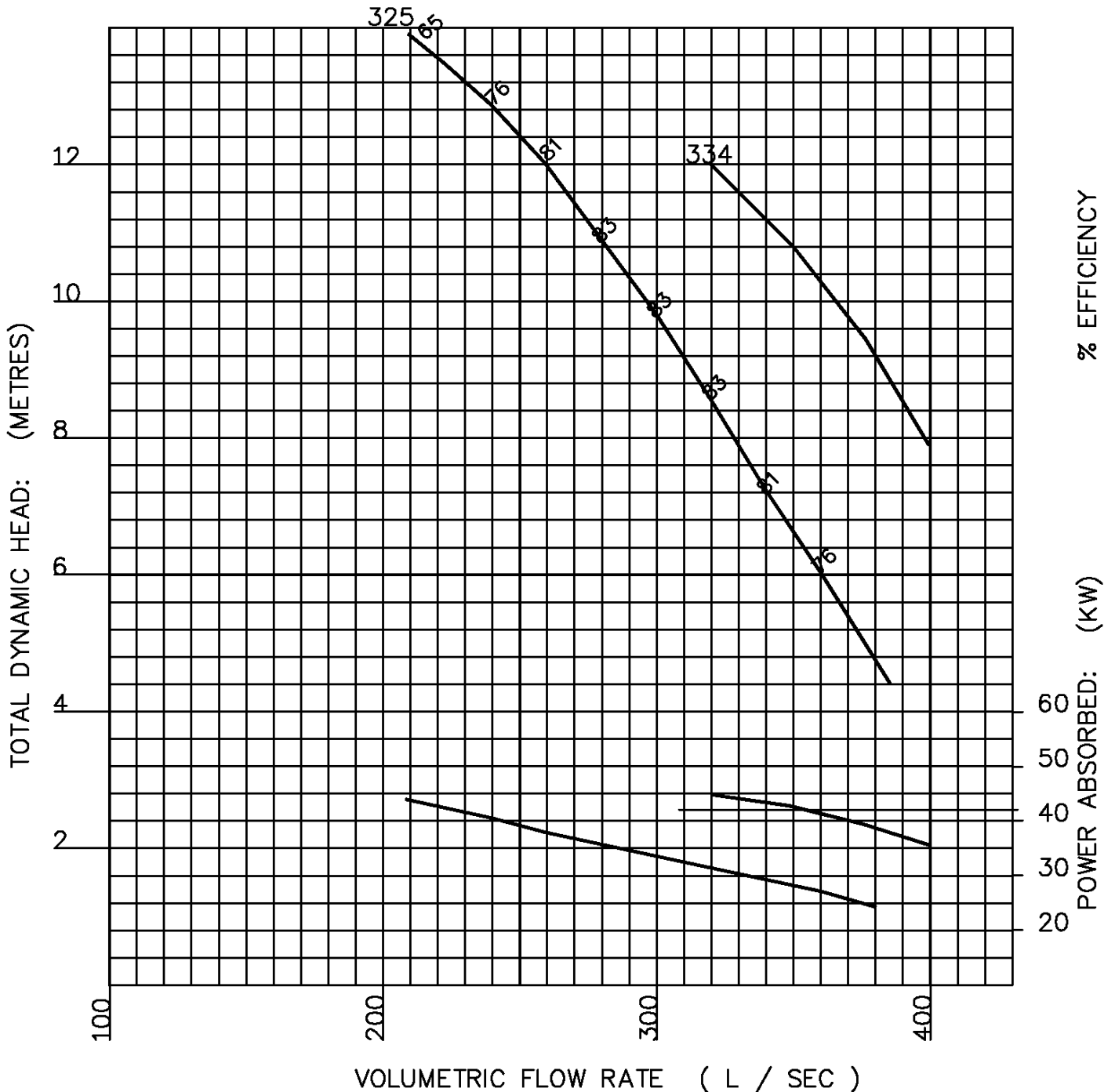
Maximum Stages:	4
Maximum Trim:	334mm
No of Vanes:	4
Impeller Material:	GM
Bowl Material:	C.I.T220
Shaft Material:	431S.S.
Bush Material:	LB2BR
Max. Sphere Size:	38mm
Max. Bowl Dia:	492mm
Max. Pressure Head:-	
Suit Pump Models:	14mC/14 14MC/16 14MC/18

Curve No:	101788-2
Speed:	1470 RPM
Trim:	325-334mm
Date:	10/12/93

IMPELLER TYPE:

Axial Flow:	
Mixed Flow:	****
Centrifugal:	
Open:	****
Closed:	

Maximum Speed:	1850 RPM
Minimum Speed:	850 RPM



BATESCREW

IMPELLER PERFORMANCE (Single Stage)

14MD

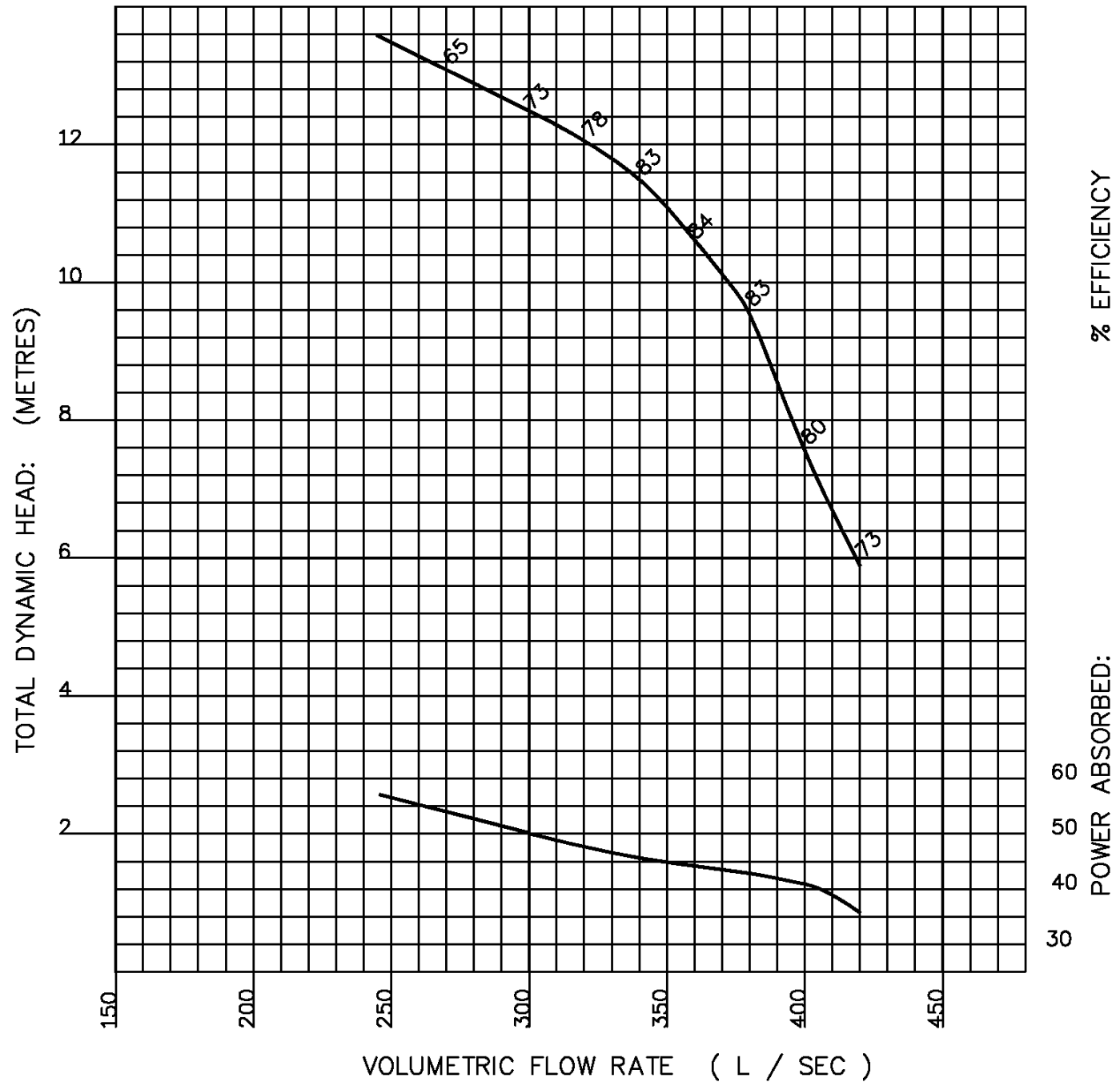
Efficiency Change per Stage	
No of Stages	% Change
1	-2
2	-1
3	0

Power will be affected by % change.
AS2417 - Part 2 - Class C.

Length of 1 Stage:	778mm
Extra Stage Length:	726mm
Min Submergence:	1430mm
Eye Area:	706cm ²
Thrust Constant:	
Std. Axial Clearance:	35mm

Maximum Stages:	4
Maximum Trim:	334mm
No of Vanes:	4
Impeller Material:	GM
Bowl Material:	C.I.T220
Shaft Material:	431S.S.
Bush Material:	LB2BR
Max. Sphere Size:	38mm
Max. Bowl Dia:	492mm
Max. Pressure Head:	
Suit Pump Models:	14/16 14/18

Curve No:	1088-10-13
Speed:	1488 RPM
Trim:	334-2
Date:	8/10/93
IMPELLER TYPE:	
Axial Flow:	
Mixed Flow:	****
Centrifugal:	
Open:	****
Closed:	
Maximum Speed:	1850 RPM
Minimum Speed:	905 RPM



BATESCREW

IMPELLER PERFORMANCE (Single Stage)

16HC

Efficiency Change per Stage	
No of Stages	% Change
1	-1
2	0
3	0

Power will be affected by % change.
AS2417 - Part 2 - Class C.

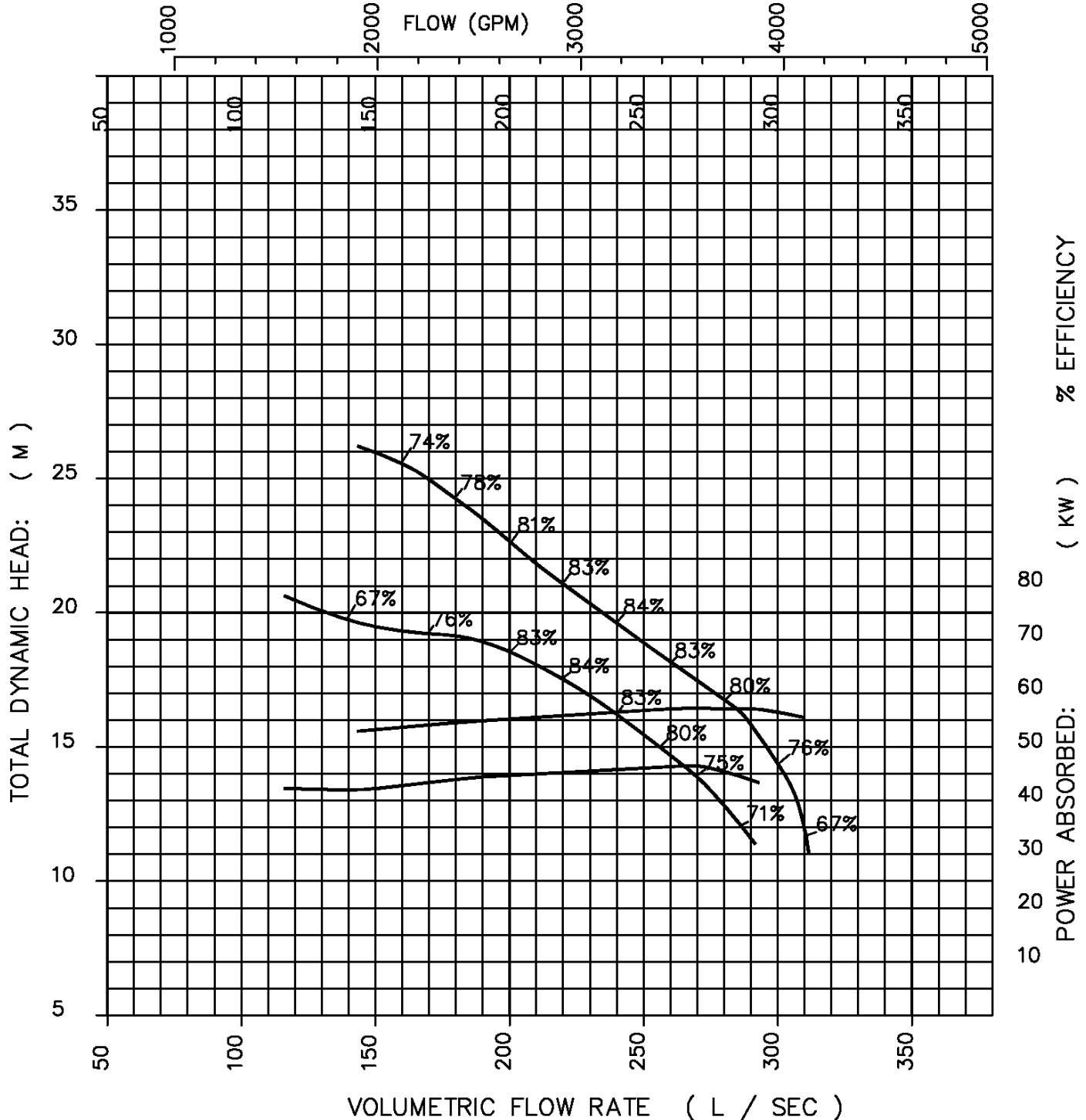
Length of 1 Stage:	1070mm
Extra Stage Length:	375mm
Min Submergence:	1400mm
Eye Area:	435cm ²
Thrust Constant:	17.9
Std. Axial Clearance:	10mm

Maximum Stages:	12
Maximum Trim:	335mm
No of Vanes:	6
Impeller Material:	G.M.
Bowl Material:	C.I.T220
Shaft Material:	431 S.S.
Bush Material:	AB2BR
Max. Sphere Size:	65mm
Max. Bowl Dia:	394mm
Max. Pressure Head:	200 M
Suit Pump Models:	16HC/12 16HC/14, 16HC/16, 16HC/21

Curve No:	10015
Speed:	1470 RPM ACW
Trim:	A335mm B317mm
Date:	3/8/89

IMPELLER TYPE:
 Axial Flow:
 Mixed Flow: ****
 Centrifugal:
 Open:
 Closed: ****

Maximum Speed:	1760 RPM
Minimum Speed:	750 RPM



BATESCREW

IMPELLER PERFORMANCE (Single Stage)

18HC 1485RPM

Efficiency Change per Stage	
No of Stages	% Change
1	-1
2	0
3	0

Power will be affected by % change.
AS2417 - Part 2 - Class C.

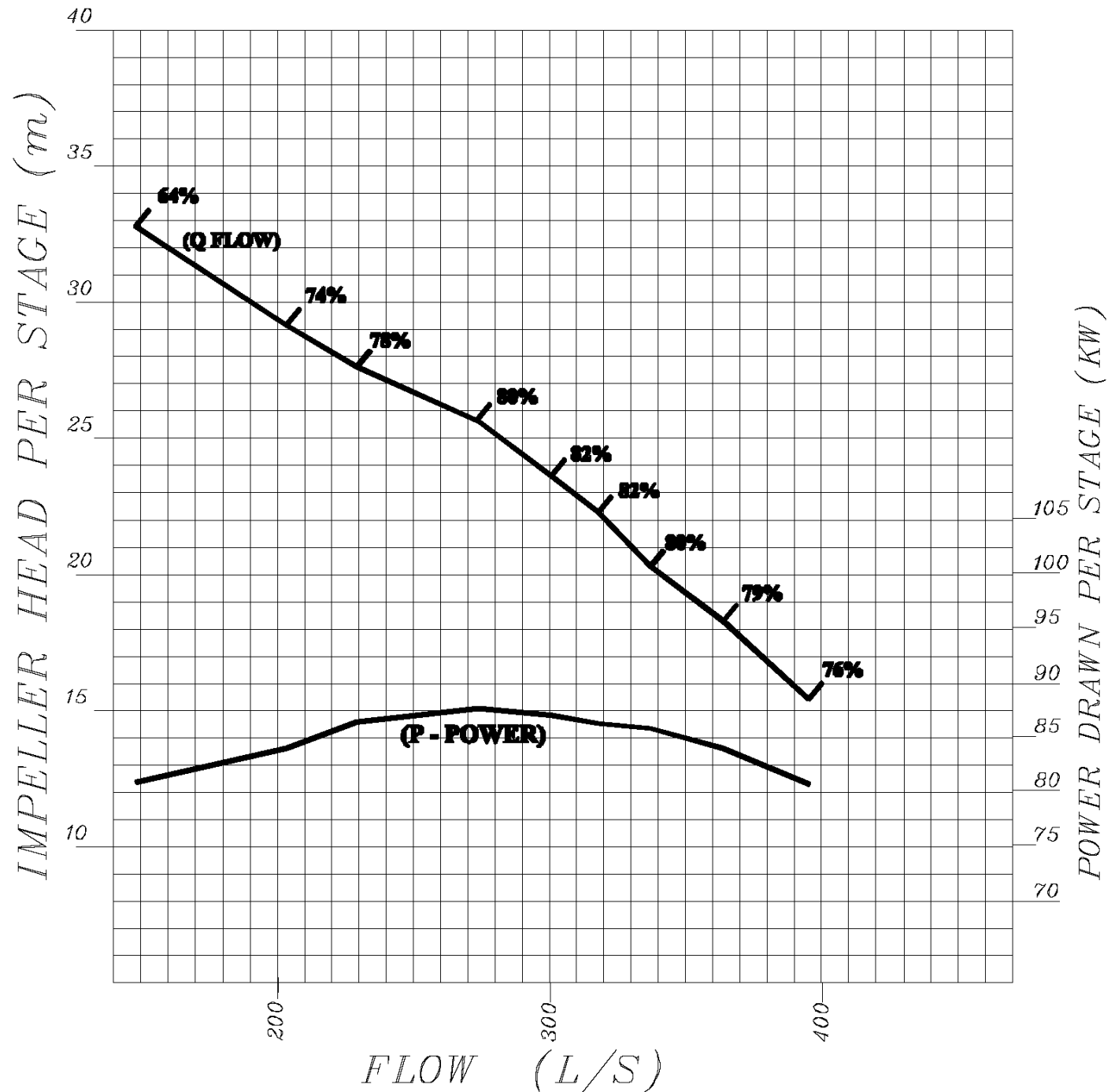
Length of 1 Stage:	1120mm
Extra Stage Length:	425mm
Min Submergence:	2500mm
Eye Area:	445 cm ²
Thrust Constant:	TBA
Std. Axial Clearance:	35mm

Maximum Stages:	4
Maximum Trim:	367mm
No of Vanes:	4
Impeller Material:	AB2
Bowl Material:	C.I.T.260
Shaft Material:	431SS
Bush Material:	EPDM
Max. Sphere Size:	38mm
Max. Bowl Dia:	432mm
Max. Pressure Head:	200m
Suit Pump Models:	18/14 18/16 18/18

Curve No:	100192
Speed:	1485rpm-ACW
Trim:	"A" = 367mm
Date:	20/12/2005

IMPELLER TYPE:
 Axial Flow:
 Mixed Flow: ****
 Centrifugal:
 Open:
 Closed: ****

Maximum Speed:	1800 RPM
Minimum Speed:	900 RPM



BATESCREW

IMPELLER PERFORMANCE (Single Stage)

18HC 1800RPM

Efficiency Change per Stage	
No of Stages	% Change
1	-1
2	0
3	0

Power will be affected by % change.
AS2417 - Part 2 - Class C.

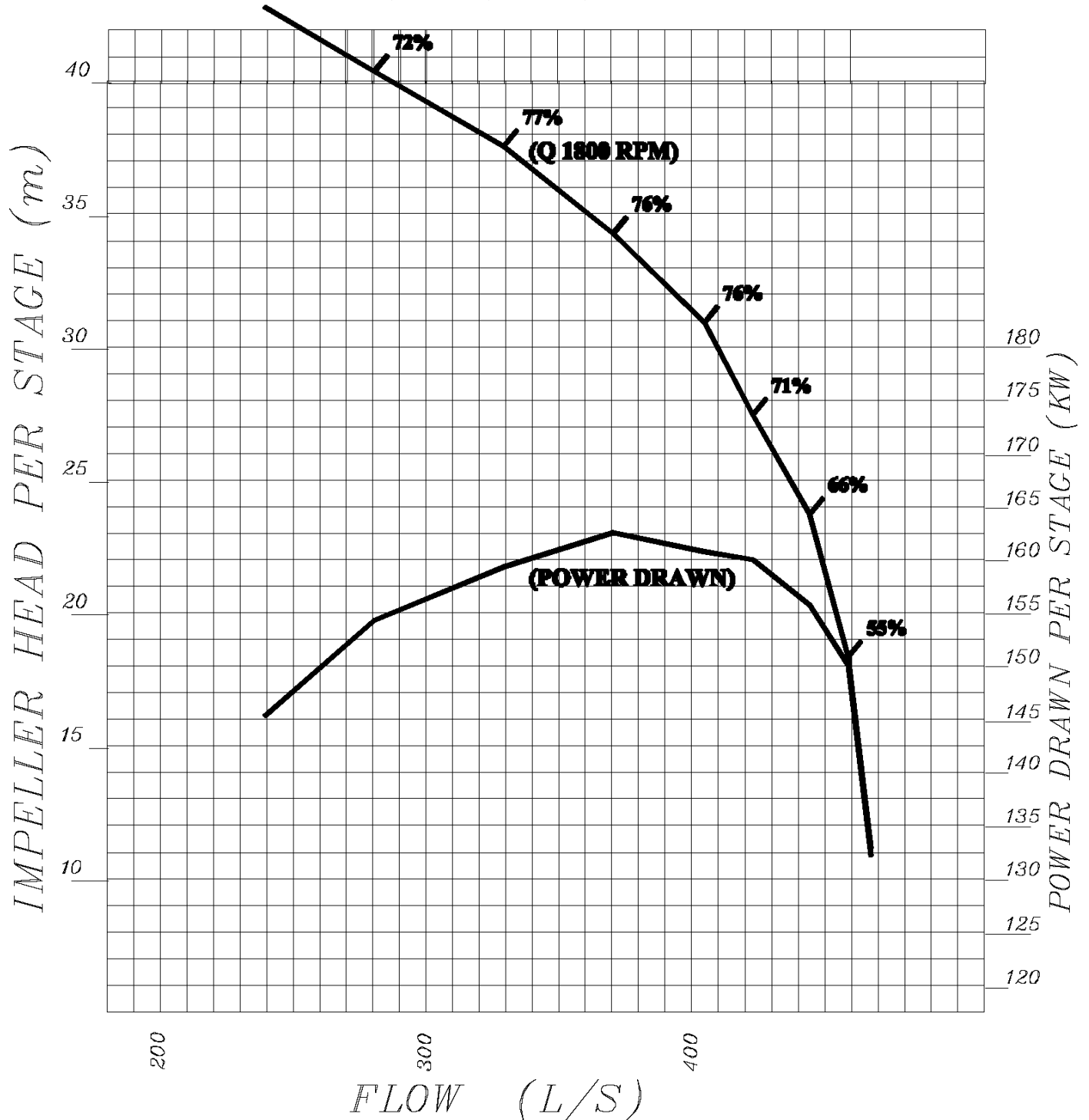
Length of 1 Stage:	1120mm
Extra Stage Length:	425mm
Min Submergence:	2500mm
Eye Area:	445 cm ²
Thrust Constant:	TBA
Std. Axial Clearance:	35mm

Maximum Stages:	4
Maximum Trim:	367mm
No of Vanes:	4
Impeller Material:	AB2
Bowl Material:	C.I.T.260
Shaft Material:	431SS
Bush Material:	EPDM
Max. Sphere Size:	38mm
Max. Bowl Dia:	432mm
Max. Pressure Head:	200m
Suit Pump Models:	18/14 18/16 18/18

Curve No: 100192
Speed: 1800rpm-ACW
Trim: "A" = 367mm
Date: 20/12/2005

IMPELLER TYPE:
Axial Flow:
Mixed Flow: ****
Centrifugal:
Open:
Closed: ****

Maximum Speed: 1800 RPM
Minimum Speed: 900 RPM



BATESCREW

IMPELLER PERFORMANCE (Single Stage)

18HC 3 SPEEDS

Efficiency Change per Stage

No of Stages	% Change
1	-1
2	0
3	0

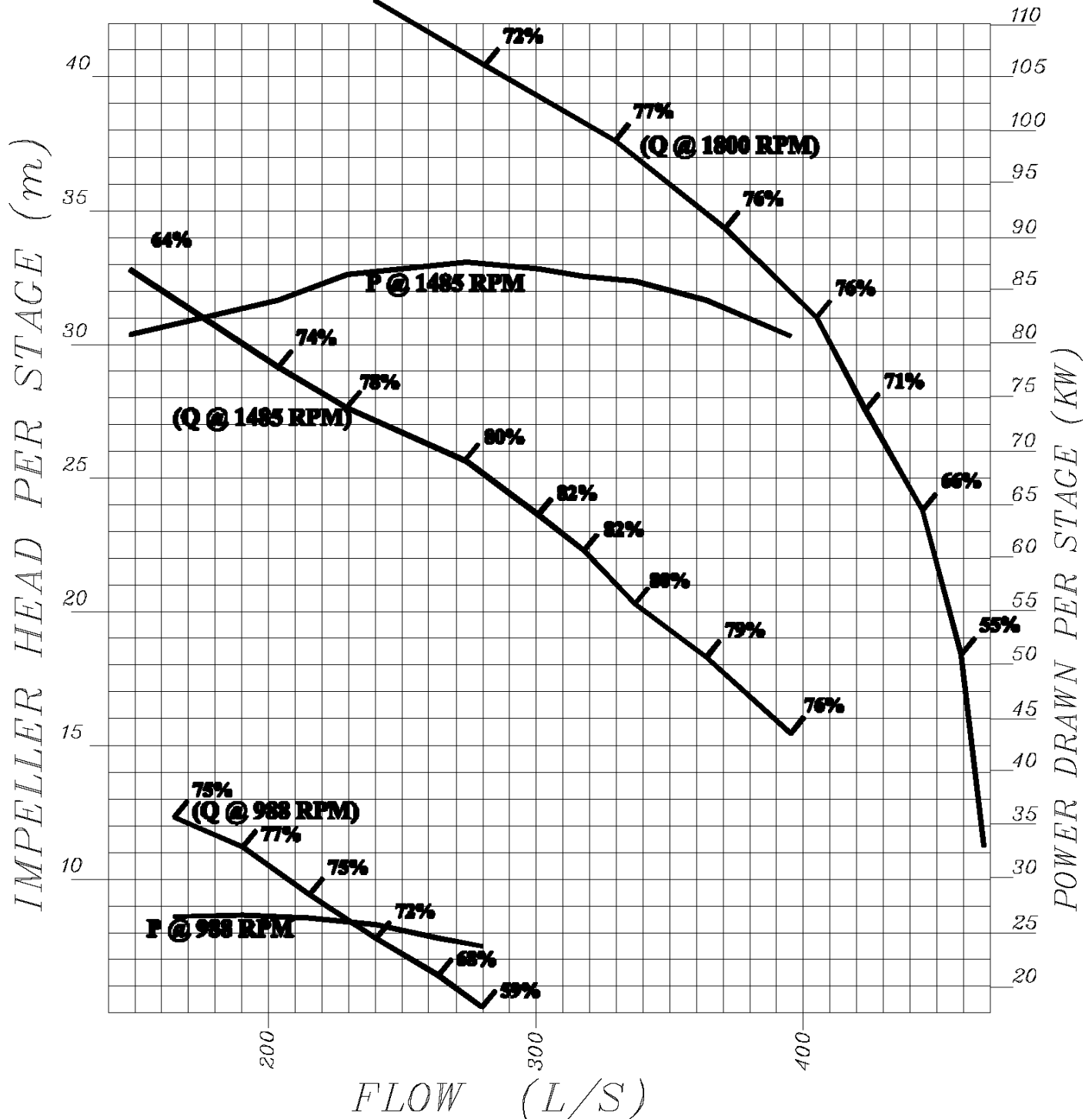
Power will be affected by % change.
AS2417 - Part 2 - Class C.

Length of 1 Stage: 1120mm
Extra Stage Length: 425mm
Min Submergence: 2500mm
Eye Area: 445 cm²
Thrust Constant: TBA
Std. Axial Clearance: 35mm

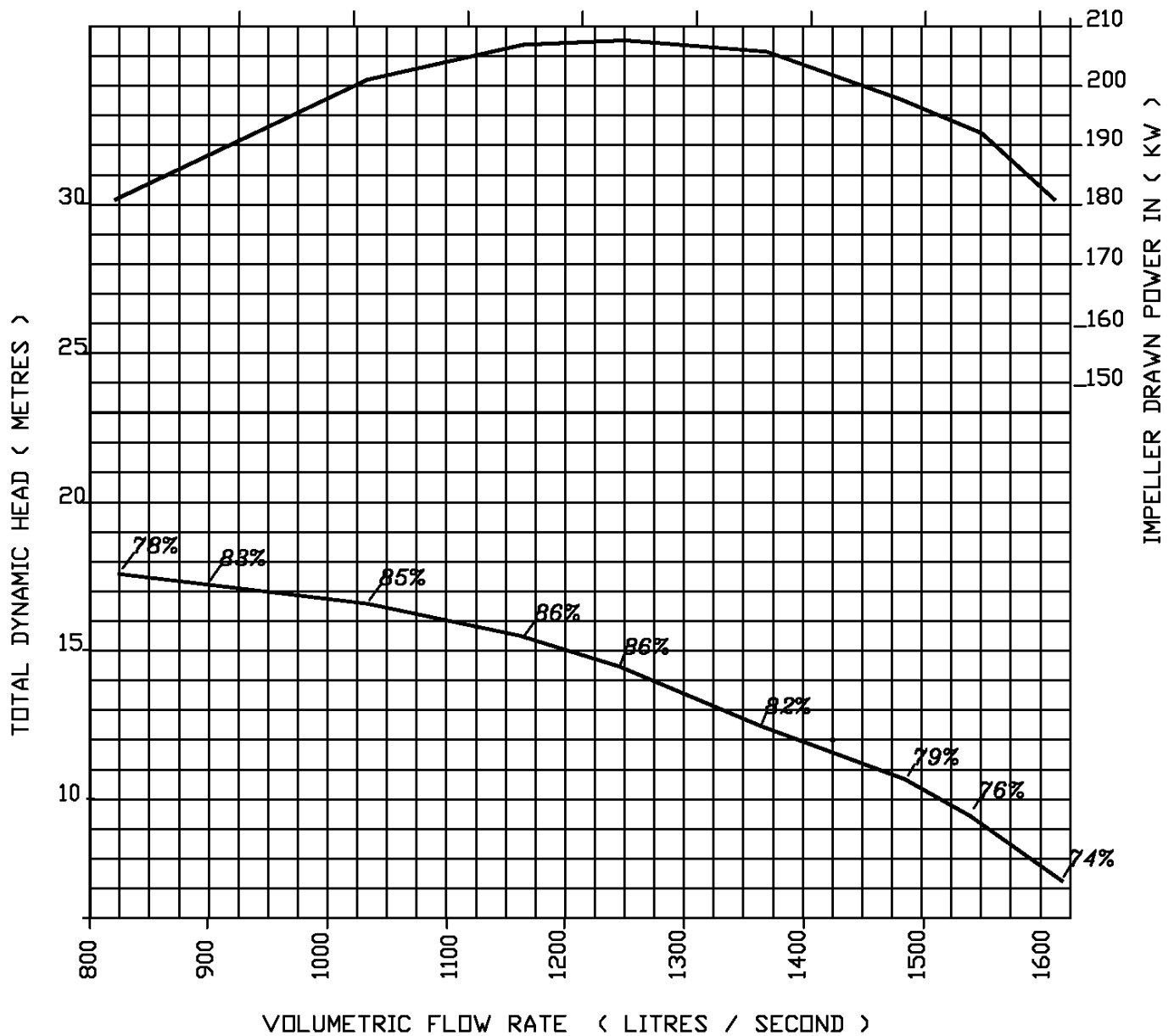
Maximum Stages: 4
Maximum Trim: 367mm
No of Vanes: 4
Impeller Material: AB2
Bowl Material: C.I.T.260
Shaft Material: 431SS
Bush Material: EPDM
Max. Sphere Size: 38mm
Max. Bowl Dia: 432mm
Max. Pressure Head: 200m
Suit Pump Models:
18/14 18/16 18/18

Curve No: 100192
Speed: 988,1485,1800rpm-ACW
Trim: "A" = 367mm
Date: 20/12/2005

IMPELLER TYPE:
Axial Flow:
Mixed Flow: ****
Centrifugal:
Open:
Closed: ****
Maximum Speed: 1800 RPM
Minimum Speed: 900 RPM



Efficiency Change per Stage No of Stages % Change 1 -1 2 0 3 0		Maximum Stages: 2 Maximum Trim: 687mm No of Vanes: 4 Impeller Material: MnBr Bowl Material: C.I.T220 Shaft Material: 431 S.S. Bush Material: LB2BR Max. Sphere Size: 100mm Max. Bowl Dia: 876mm Max. Pressure Hd: 60M		Test No: 10148 & 10149 Speed: 662 RPM ACW Trim: 687mm Test Date: 22/7/2002	
Power will be affected by % change. AS2417 - Part 2 - Class C.		IMPELLER TYPE: Axial Flow: Mixed Flow: **** Centrifugal: Open: Closed: ****		Maximum Speed: 1000 RPM Minimum Speed: 400 RPM	
Length of 1 Stage: 1279mm Extra Stage Length: 994mm Min Submergence: 2.4 M Eye Area: 1733cm ² Thrust Constant: Std. Axial Clearance: 32mm		Suit Pump Models: 36HC/24, 36HC/30, 36HC/36			



Efficiency Change per Stage	
No of Stages	% Change
1	-1
2	0
3	0

Power will be affected by % change.
AS2417 - Part 2 - Class C.

Length of 1 Stage:	1279mm
Extra Stage Length:	994mm
Min Submergence:	2.4 M
Eye Area:	1733cm ²
Thrust Constant:	
Std. Axial Clearance:	32mm

Maximum Stages:	2
Maximum Trim:	687mm
No of Vanes:	4
Impeller Material:	MnBr
Bowl Material:	C.I.T220
Shaft Material:	431 S.S.
Bush Material:	LB2BR
Max. Sphere Size:	100mm
Max. Bowl Dia:	876mm
Max. Pressure Hd:	60M
Suit Pump Models:	36HC/24, 36HC/30, 36HC/36

Test No:	10149
Speed:	745 RPM ACW
Trim:	687mm
Test Date:	22/7/2002

IMPELLER TYPE:	
Axial Flow:	
Mixed Flow:	****
Centrifugal:	
Open:	
Closed:	****
Maximum Speed:	1000 RPM
Minimum Speed:	400 RPM

