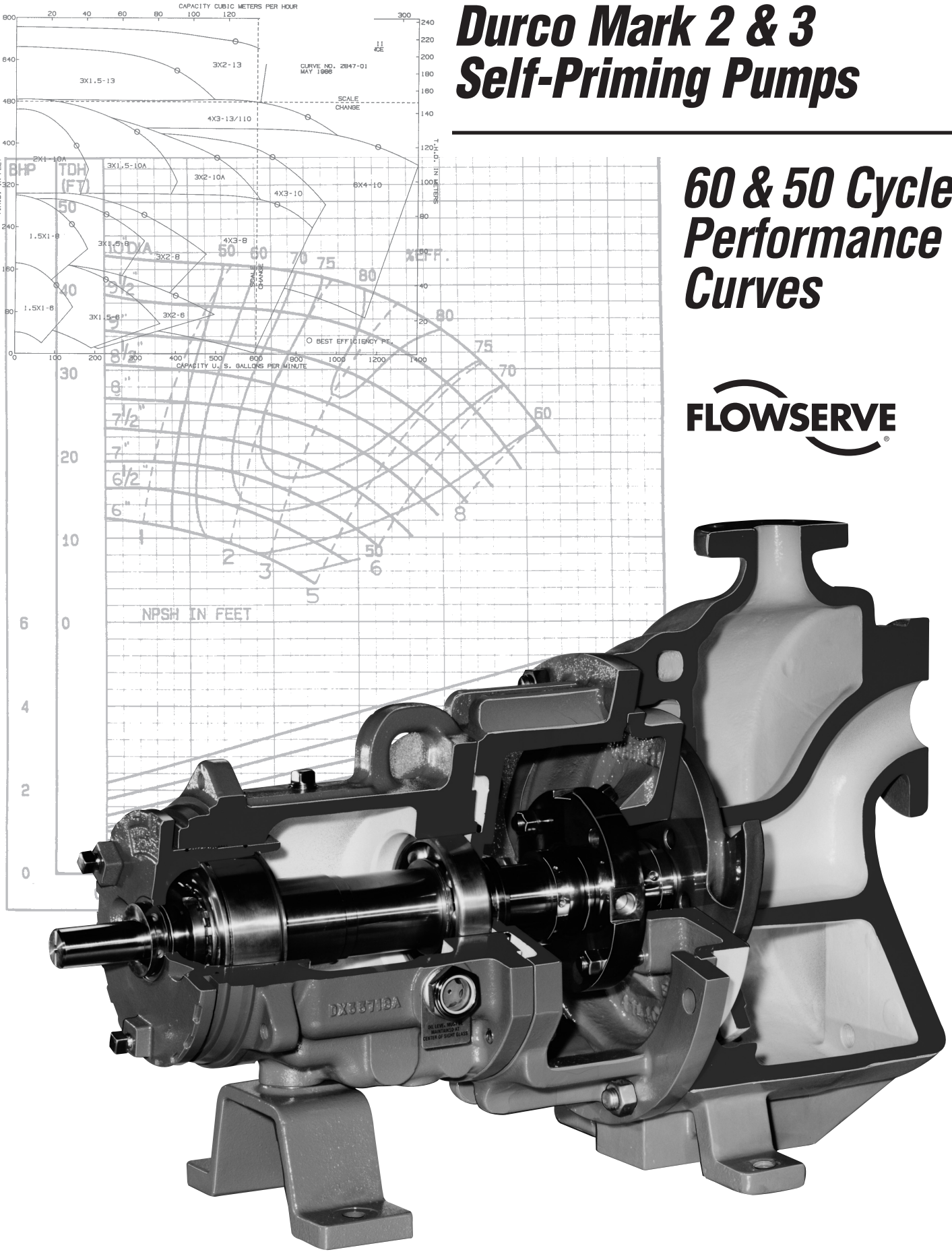
Durco Mark 2 & 3 Self-Priming Pumps

60 & 50 Cycle Performance Curves

FLOWSERVE®



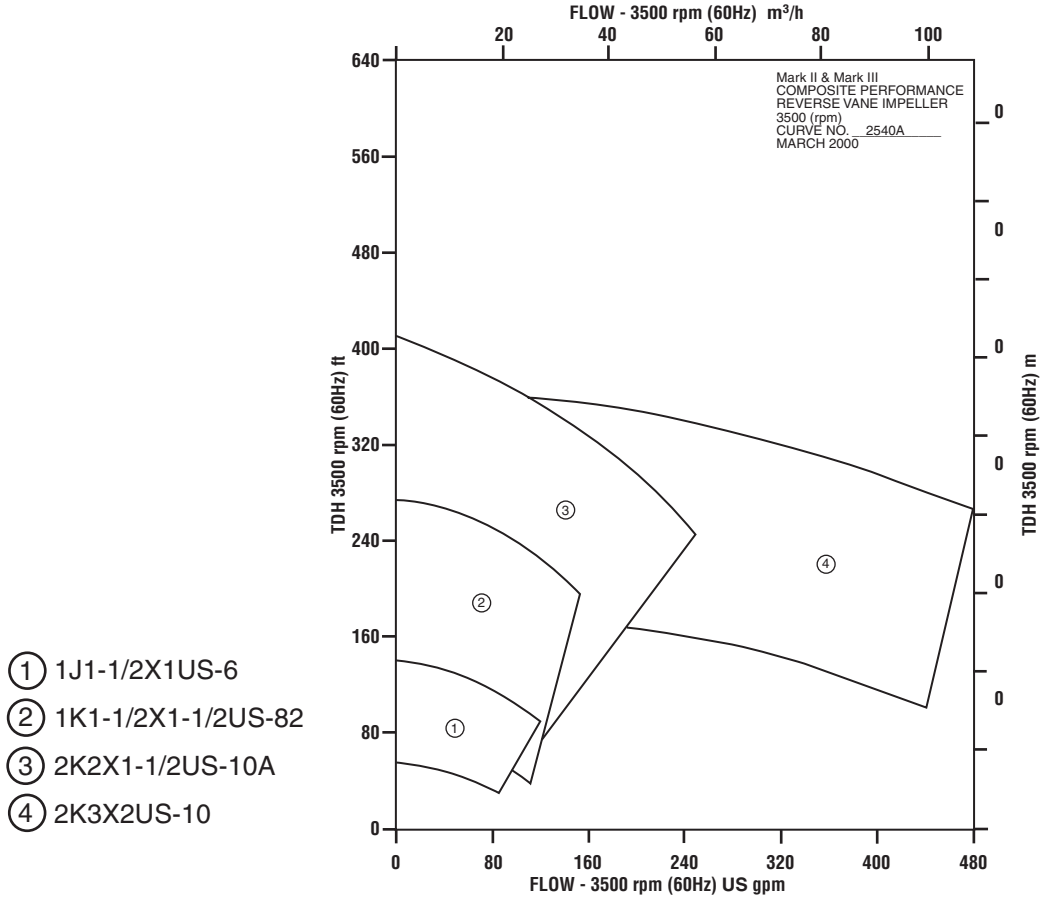
Index-60 Cycle Reverse Vane Curves

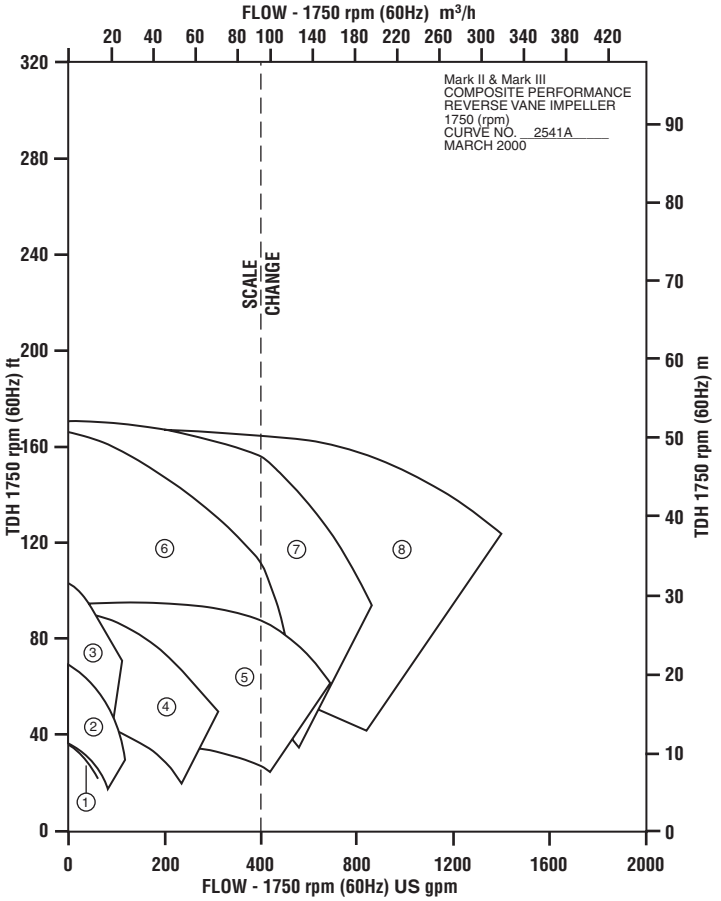
PUMP	SPEED	CURVE #	PAGE
Composite Curves	3500 1750 1150	2540A 2541A 2542A	3 4 4
1J1-1/2X1US-6	3500 1750	MII 7060V MII 7062V	5 6
1K1-1/2X1-1/2US-82	3500 1750	MIII 7260 MIII 7262	7 8
2K2X1-1/2US-10A	3500 1750 1150	MIII 8060V MIII 8062V MIII 8064V	9 10 11
2K3X2US-10	3500 1750 1150	MIII 7860V MIII 7862V MIII 7864V	12 13 14
2K3X2US-13	1750 1150	MIII 7460V MIII 7462V	15 16
2K4X3US-10H	1750 1150	MIII 7660V MIII 7662V	17 18
2K4X3US-13	1750 1150	MIII 7560V MIII 7562V	19 20
2K6X4US-13A	1750 1150	MIII 8160V MIII 8162V	21 22

Index-50 Cycle Reverse Vane Curves

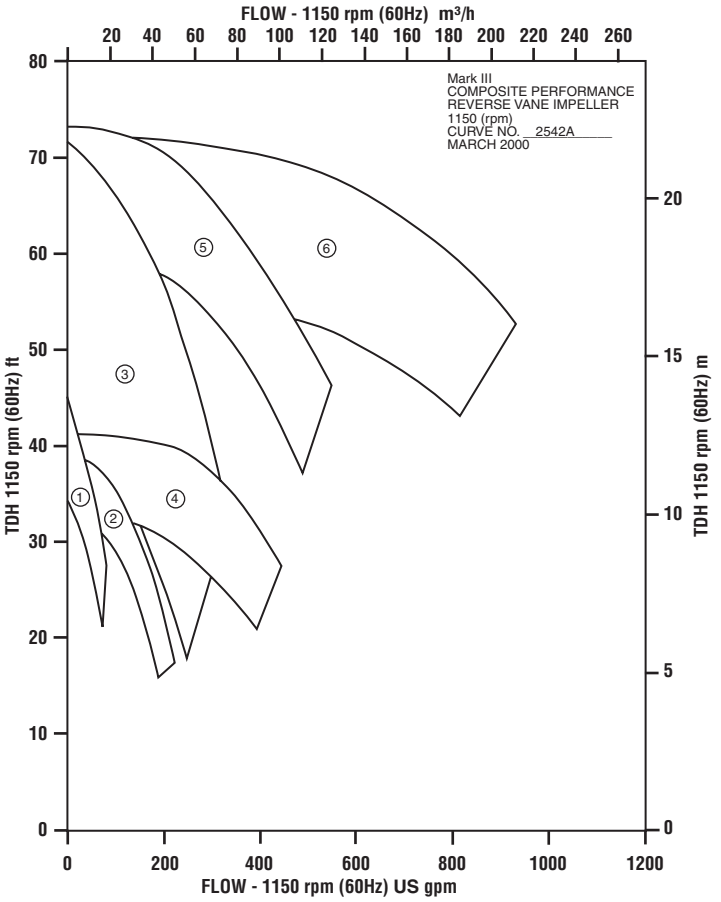
PUMP	SPEED	CURVE #	PAGE
Composite Curves	2900 1450	2538A 2539A	23 23
1J1-1/2X1US-6	2900	MII 7061V	24
1K1-1/2-1/2US-82	2900 1450	MIII 7261 MIII 7263	25 26
2K2X1-1/2US-10A	2900 1450	MIII 8061V MIII 8063V	27 28
2K3X2US-10	2900 1450	MIII 7861V MIII 7863V	29 30
2K3X2US-13	1450	MIII 7461V	31
2K4X3US-10H	1450	MIII 7661V	32
2K4X3US-13	1450	MIII 7561V	33
2K6X4US-13A	1450	MIII 8161V	34

See page 35 for Index-60 & 50 Cycle Open Vane Curves.





1. 1J1-1/2X1US-6
2. 1K1-1/2X1-1/2US-82
3. 2K2X1-1/2US-10A
4. 2K3X2US-10
5. 2K4X3US-10H
6. 2K3X2US-13
7. 2K4X3US-13
8. 2K6X4US-13A



1. 2K2X1-1/2US-10A
2. 2K3X2US-10
3. 2K3X2US-13
4. 2K4X3US-10H
5. 2K4X3US-13
6. 2K6X4US-13A

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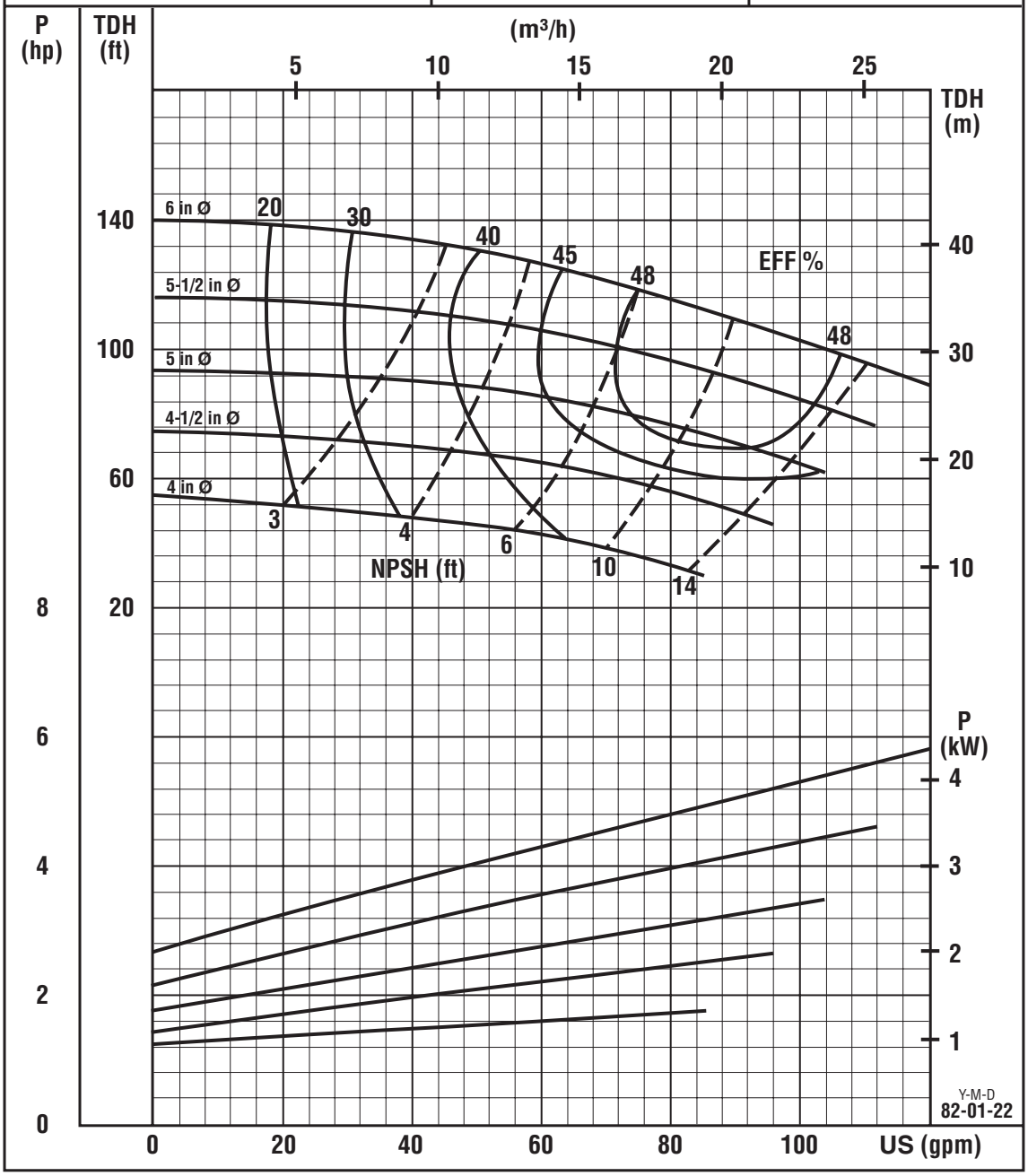
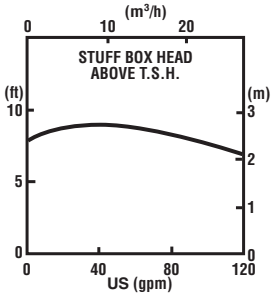
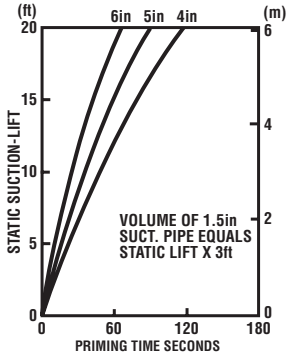
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA 2.77 in²		DURCO MARK II 1J1-1/2X1US-6
MAX SPHERE 3/8 in		SPEED 3500 (rpm)
IMPELLER REVERSE VANE		CURVE NO. 7060V
STD-N/A		



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





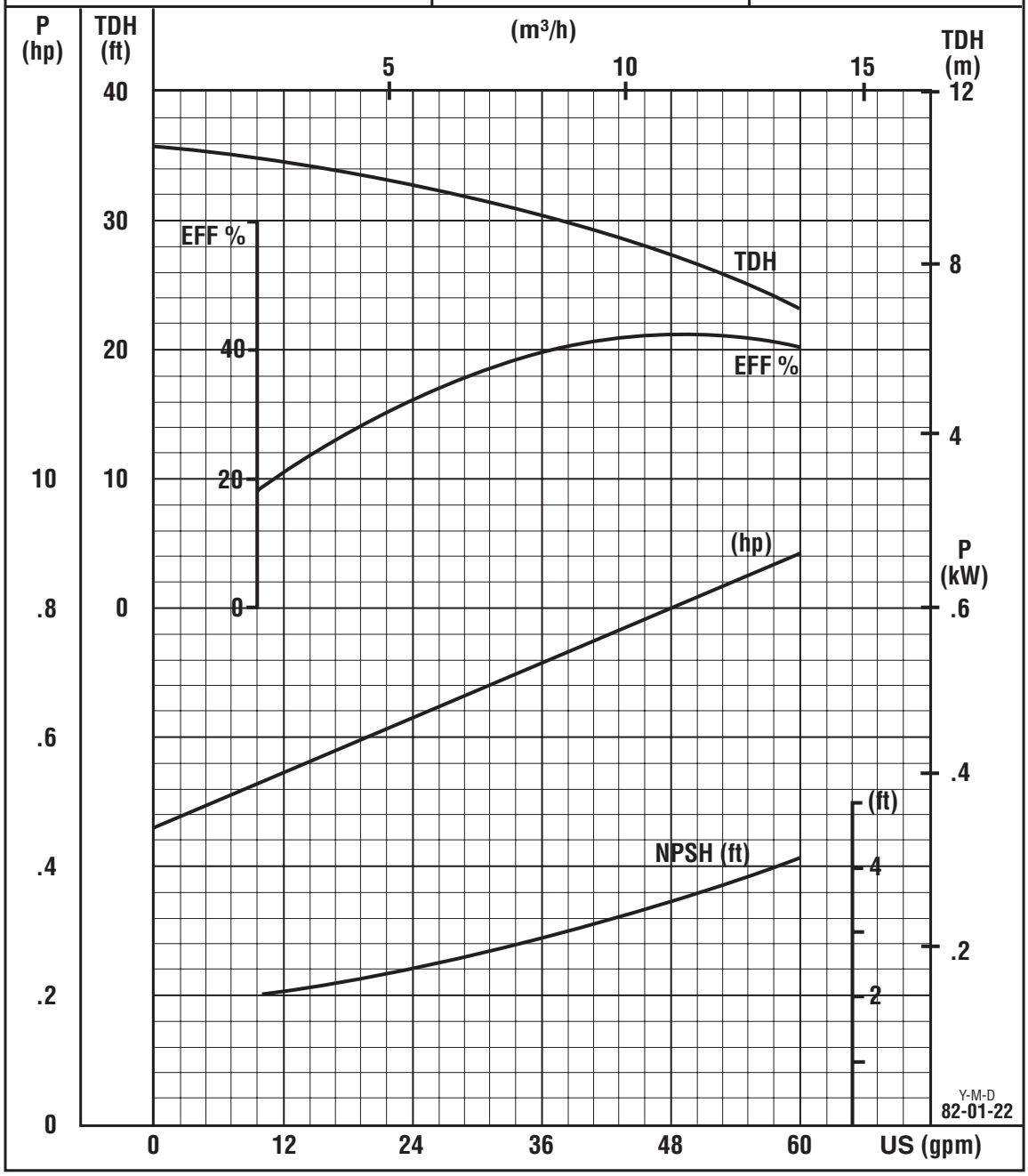
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	2.77 in²	DURCO Mark II	1J1-1/2X1US-6
MAX SPHERE	3/8 in	SPEED	1750 (rpm)
IMPELLER	REVERSE VANE STD-N/A	CURVE NO.	7062V



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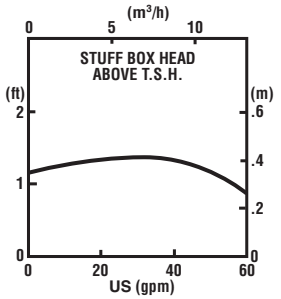

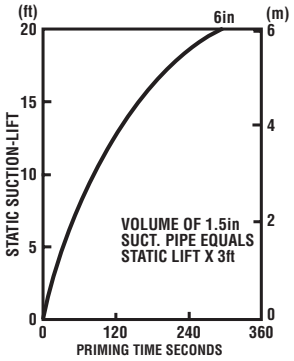

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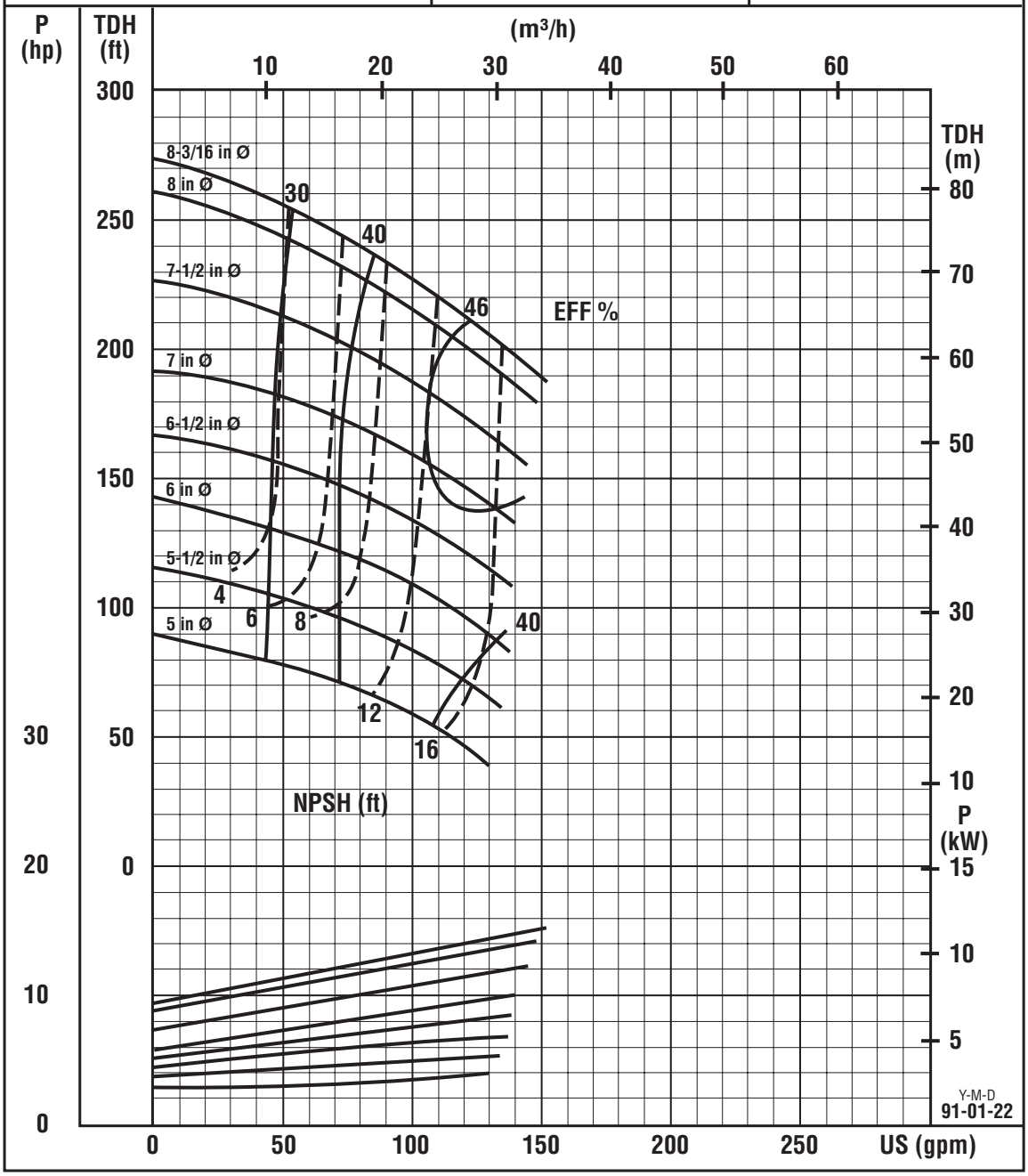
$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	2.62 in²
MAX SPHERE	5/16 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	1K1-1/2X1-1/2US-82
SPEED	3500 (rpm)
CURVE NO.	7260



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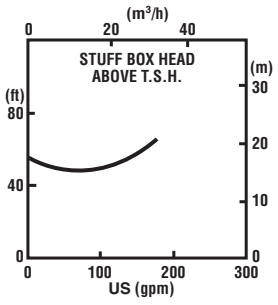

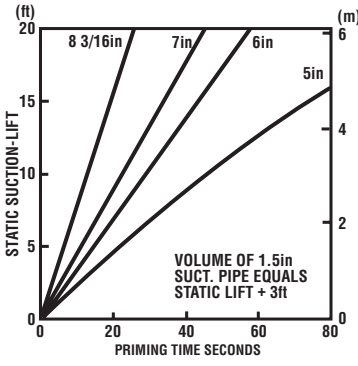

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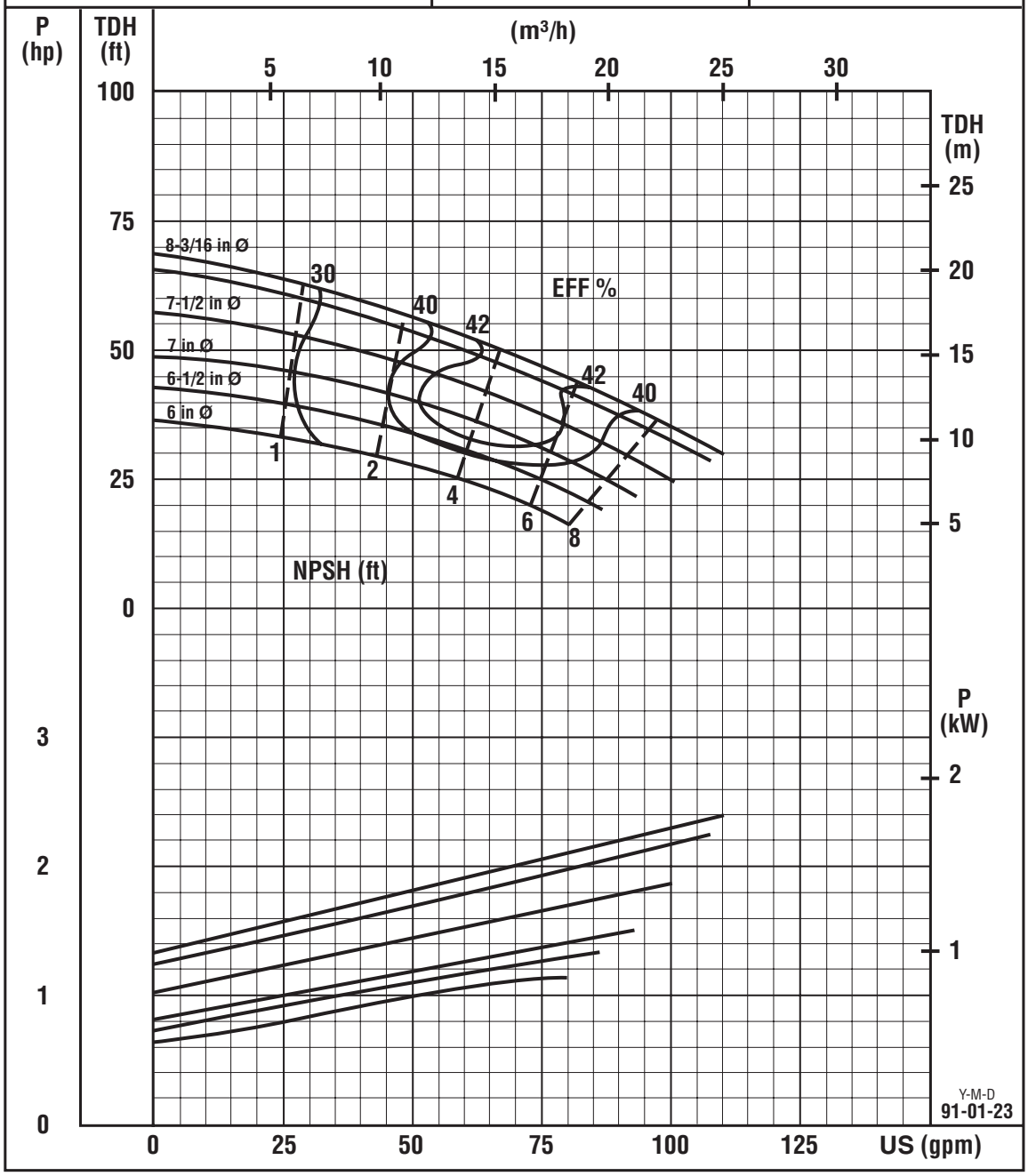
FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	3.1 in²
MAX SPHERE	11/32 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	1K1-1/2X1-1/2US-82
SPEED	1750 (rpm)
CURVE NO.	7262



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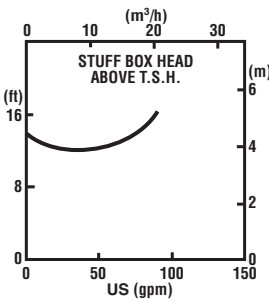

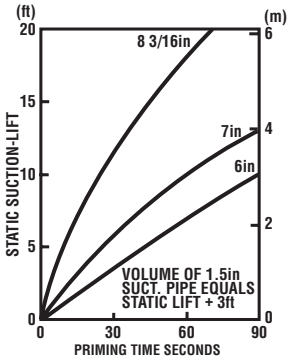

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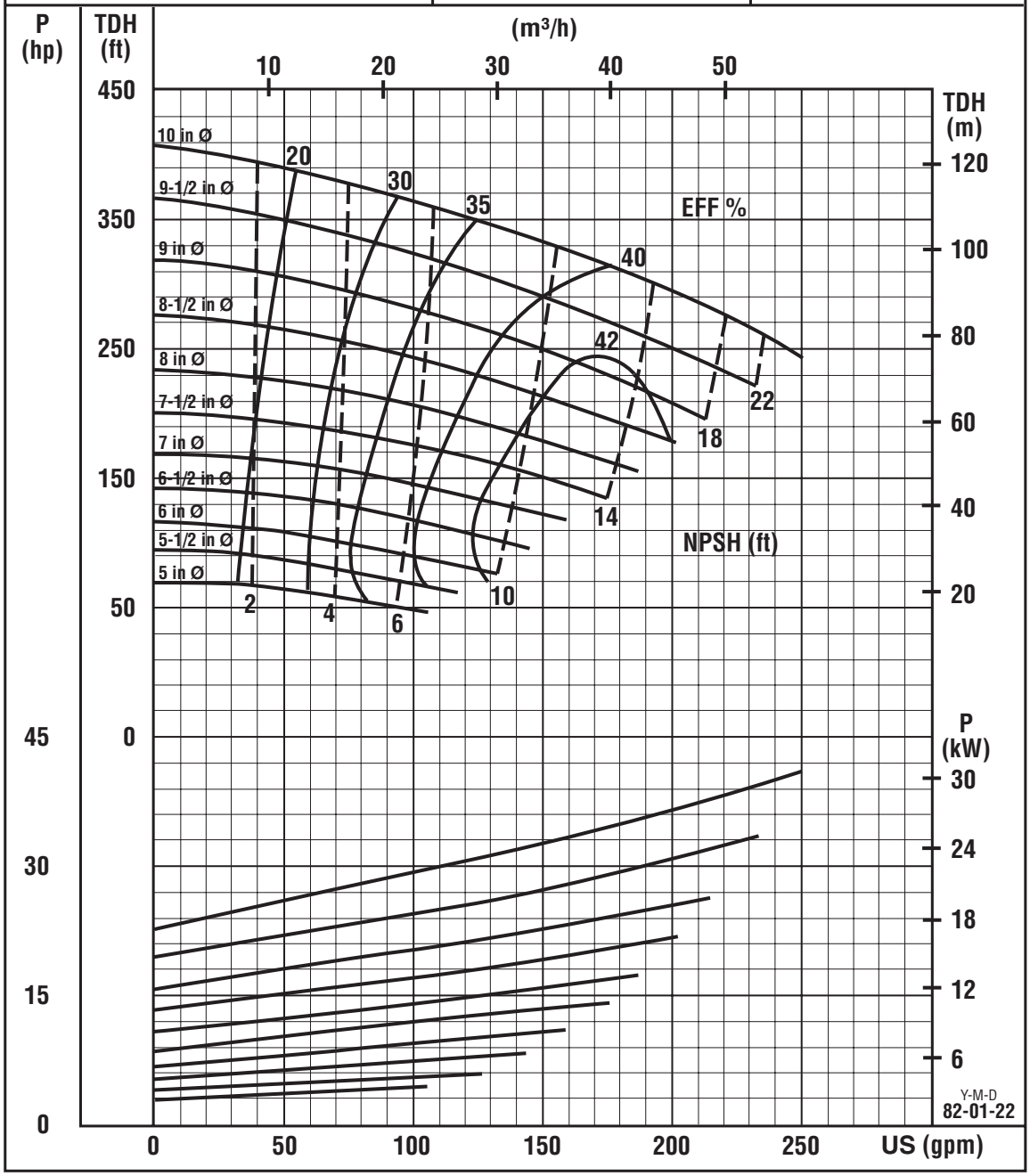
FLOWSERVE

PUMP PERFORMANCE
CHARACTERISTICS

EYE AREA	3.51 in²
MAX SPHERE	13/32 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K2X1-1/2US-10A
SPEED	3500 (rpm)
CURVE NO.	8060V



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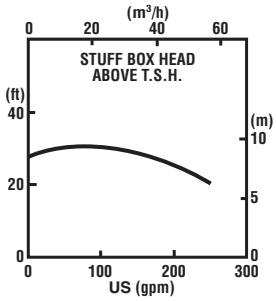

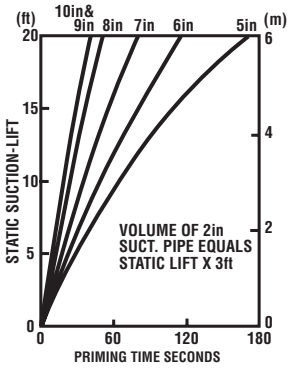

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EFFICIENCY USE THE FOLLOWING

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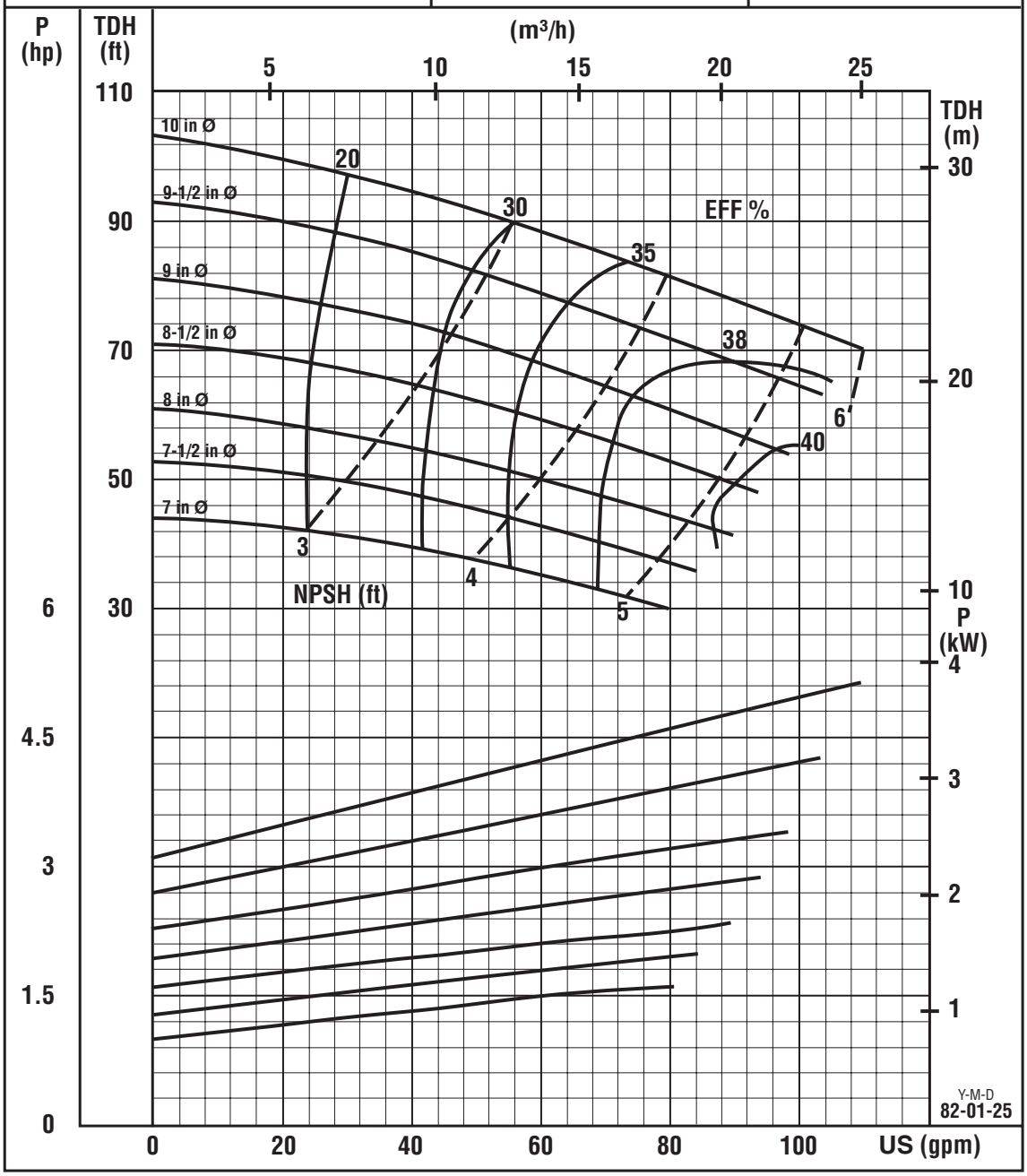
FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	3.51 in²
MAX SPHERE	13/32 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K2X1-1/2US-10A
SPEED	1750 (rpm)
CURVE NO.	8062V



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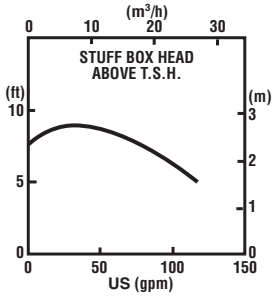

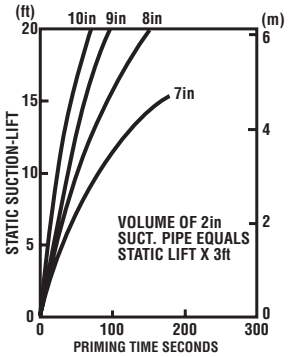

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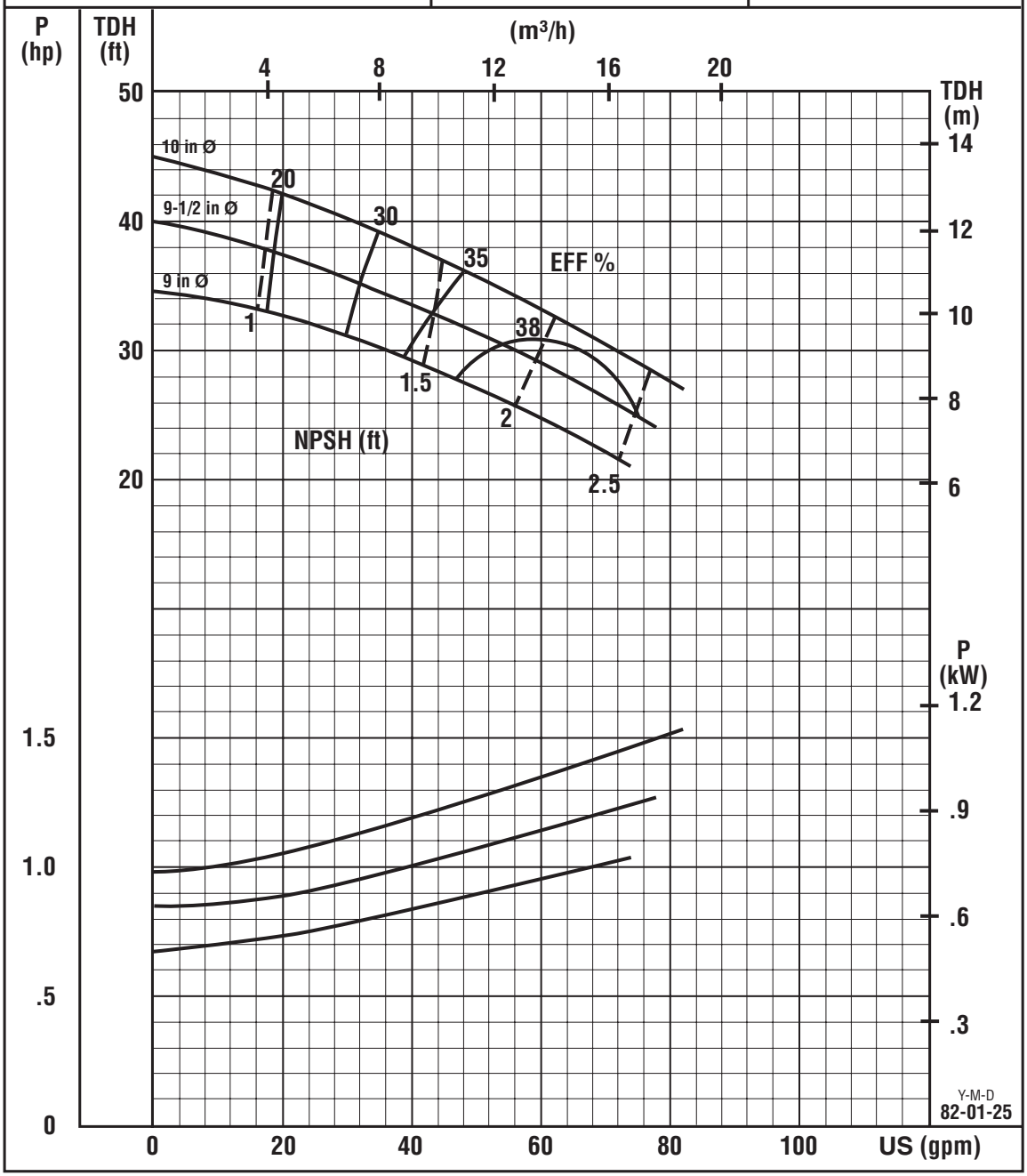
$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	3.51 in²
MAX SPHERE	13/32 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K2X1-1/2US-10A
SPEED	1150 (rpm)
CURVE NO.	8064V



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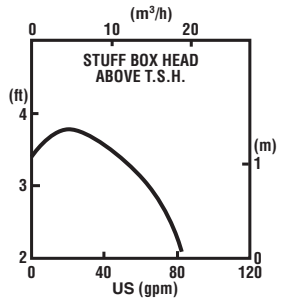

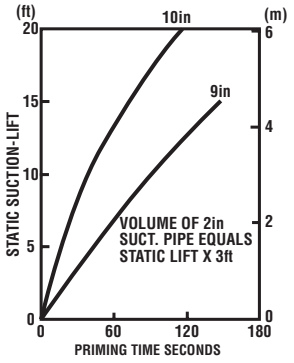

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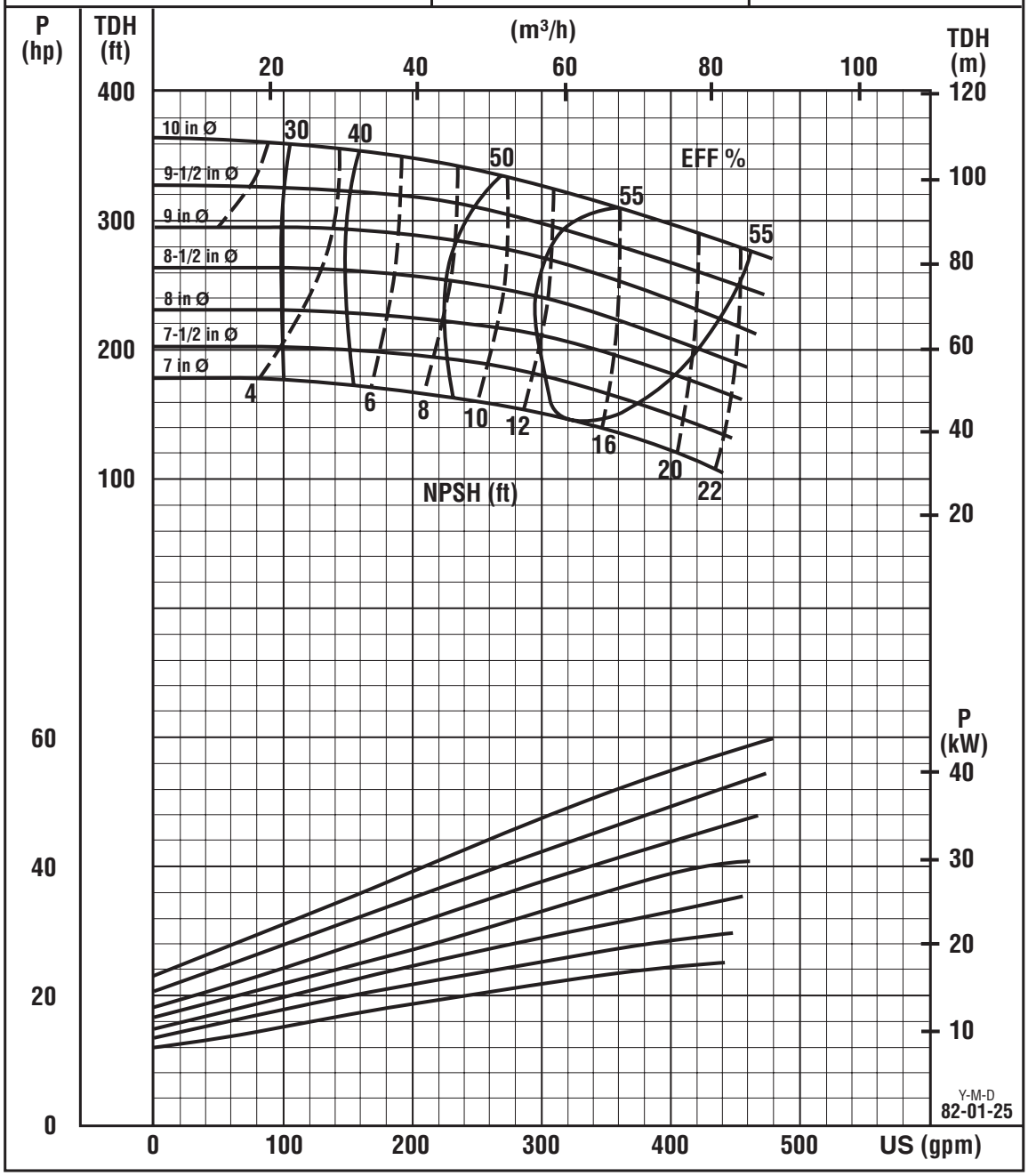
$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	3.51 in²	DURCO Mark III	3K3X2US-10
MAX SPHERE	13/32 in	SPEED	3500 (rpm)
IMPELLER	REVERSE VANE	CURVE NO.	7860V
	STD-N/A		



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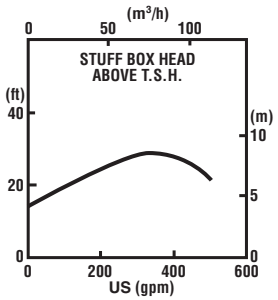

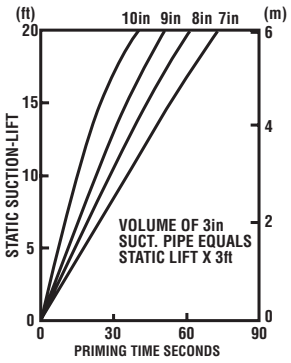

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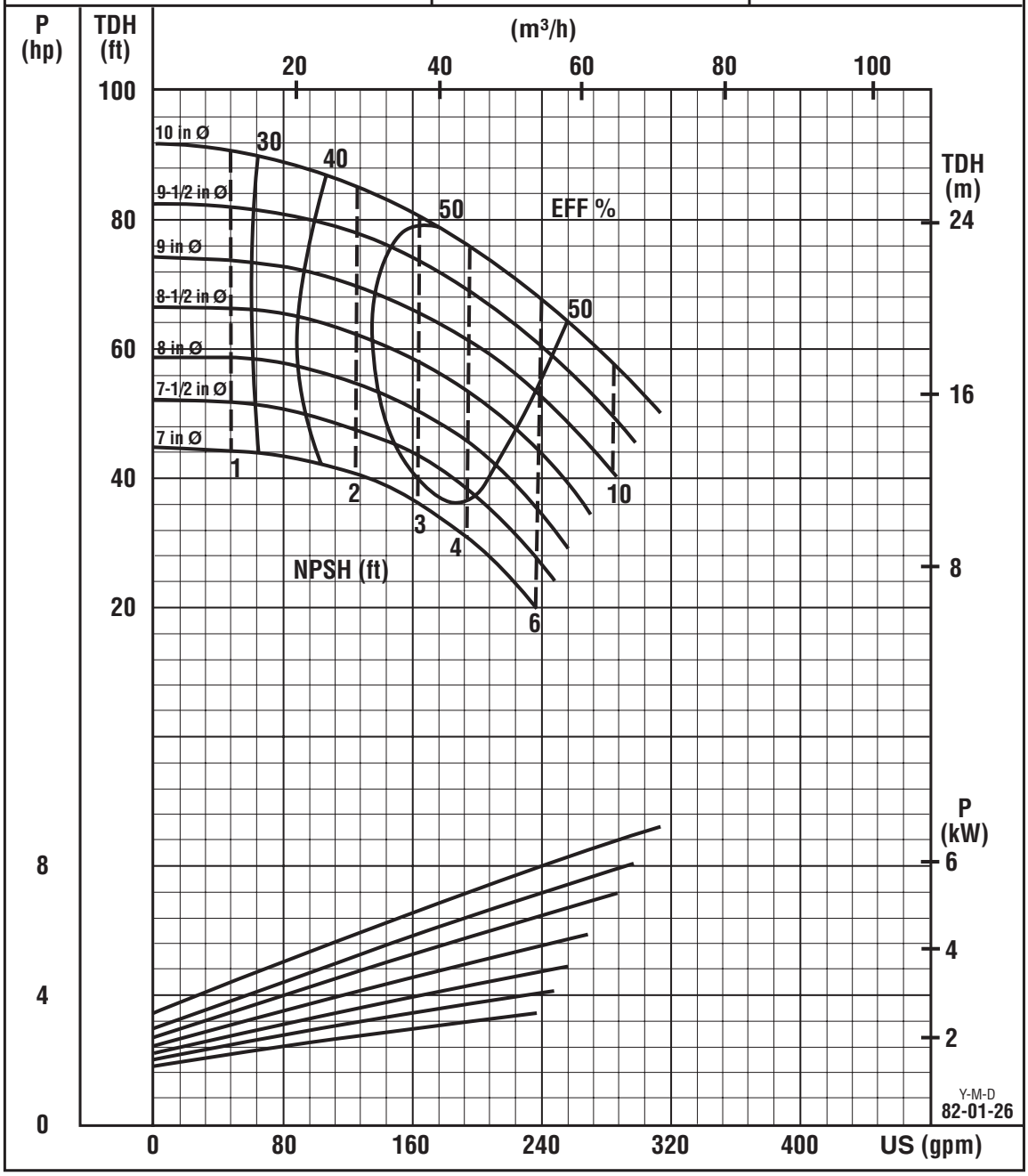
$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	7.51 in²
MAX SPHERE	19/32 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K3X2US-10
SPEED	1750 (rpm)
CURVE NO.	7862V



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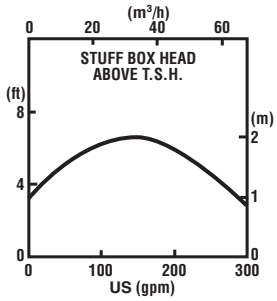

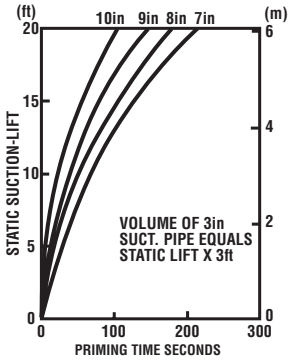

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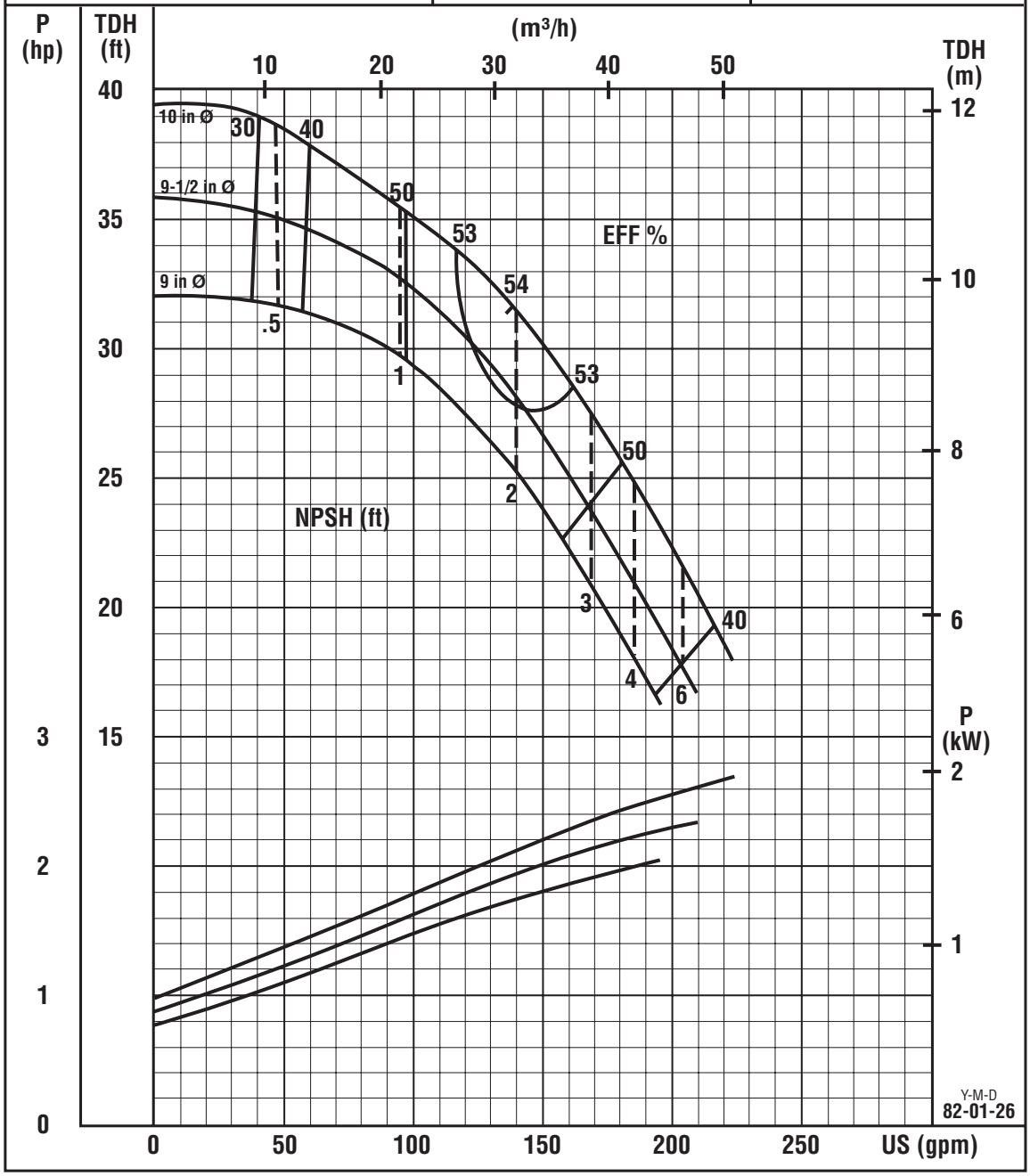
FLOWSERVE

PUMP PERFORMANCE
CHARACTERISTICS

EYE AREA	7.51 in²
MAX SPHERE	19/32 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K3X2US-10
SPEED	1150 (rpm)
CURVE NO.	7864V



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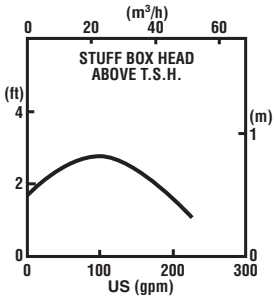

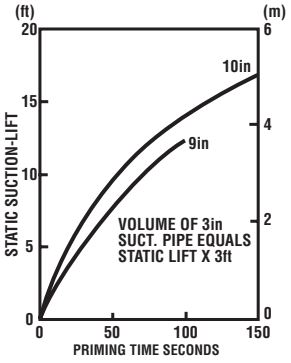

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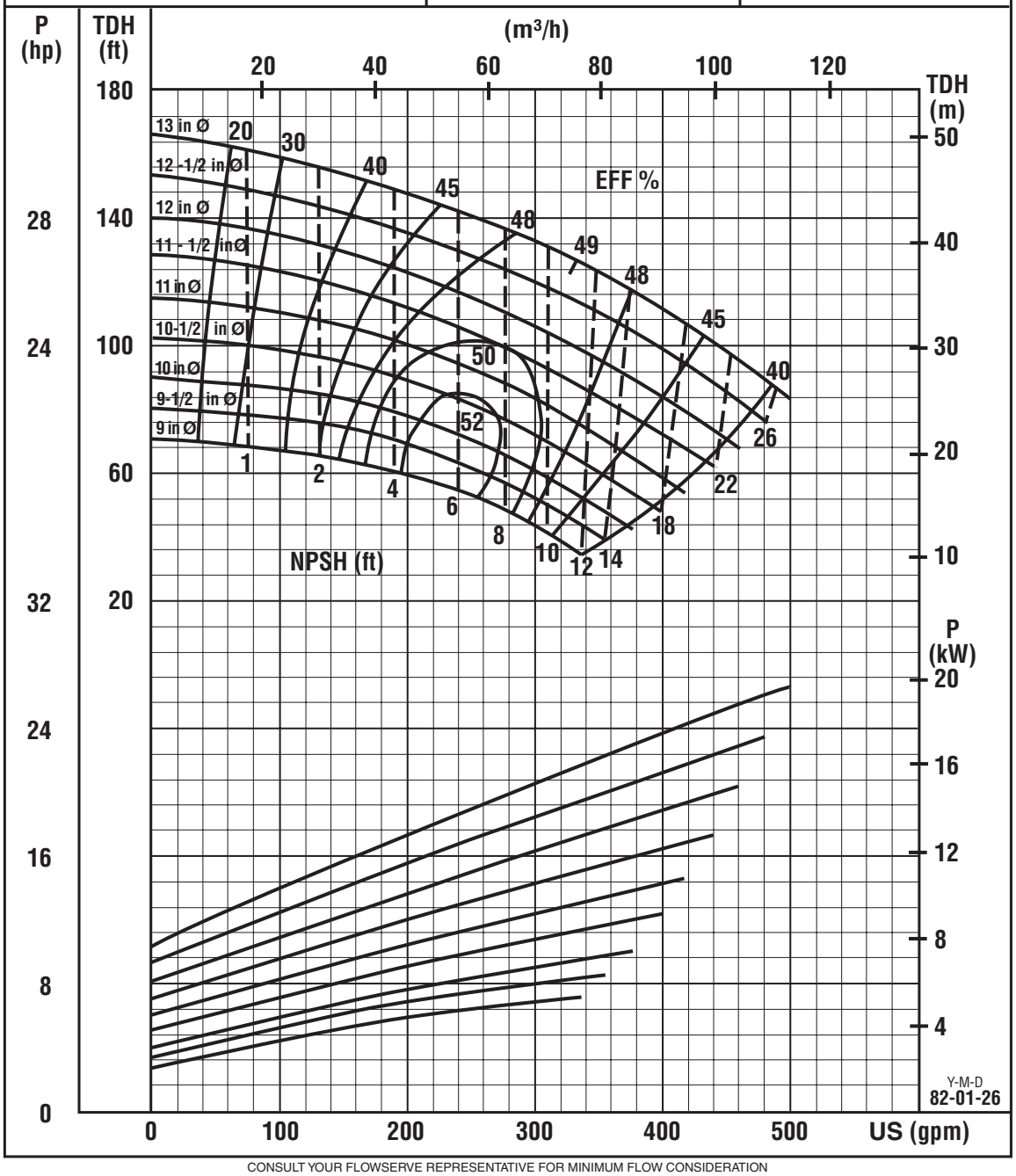
$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	7.51 in²
MAX SPHERE	13/32 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K3X2US-13
SPEED	1750 (rpm)
CURVE NO.	7460V



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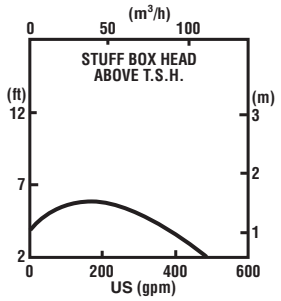

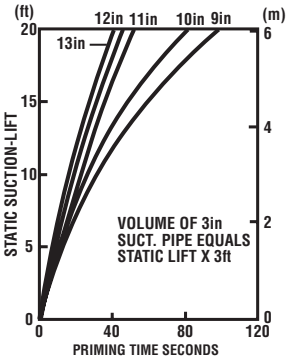

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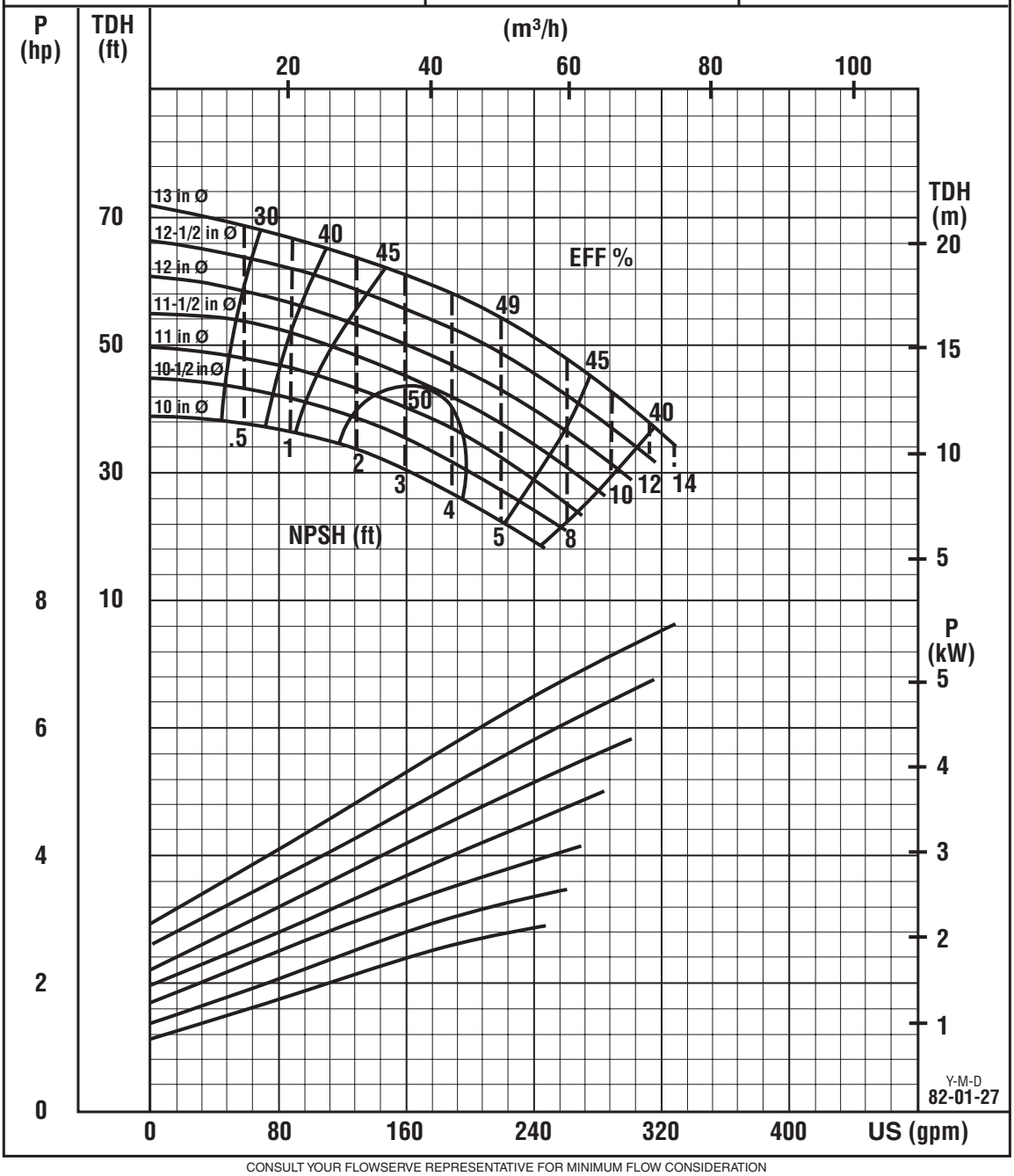
$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	7.51 in²	DURCO Mark III	2K3X2US-13
MAX SPHERE	13/32 in	SPEED	1150 (rpm)
IMPELLER	REVERSE VANE	CURVE NO.	7462V
	STD-N/A		



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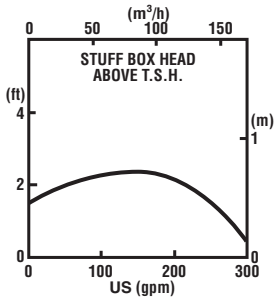

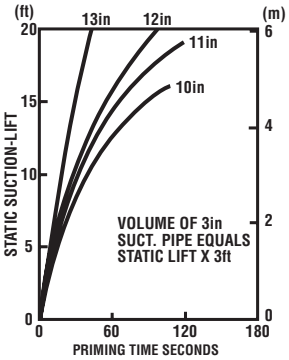

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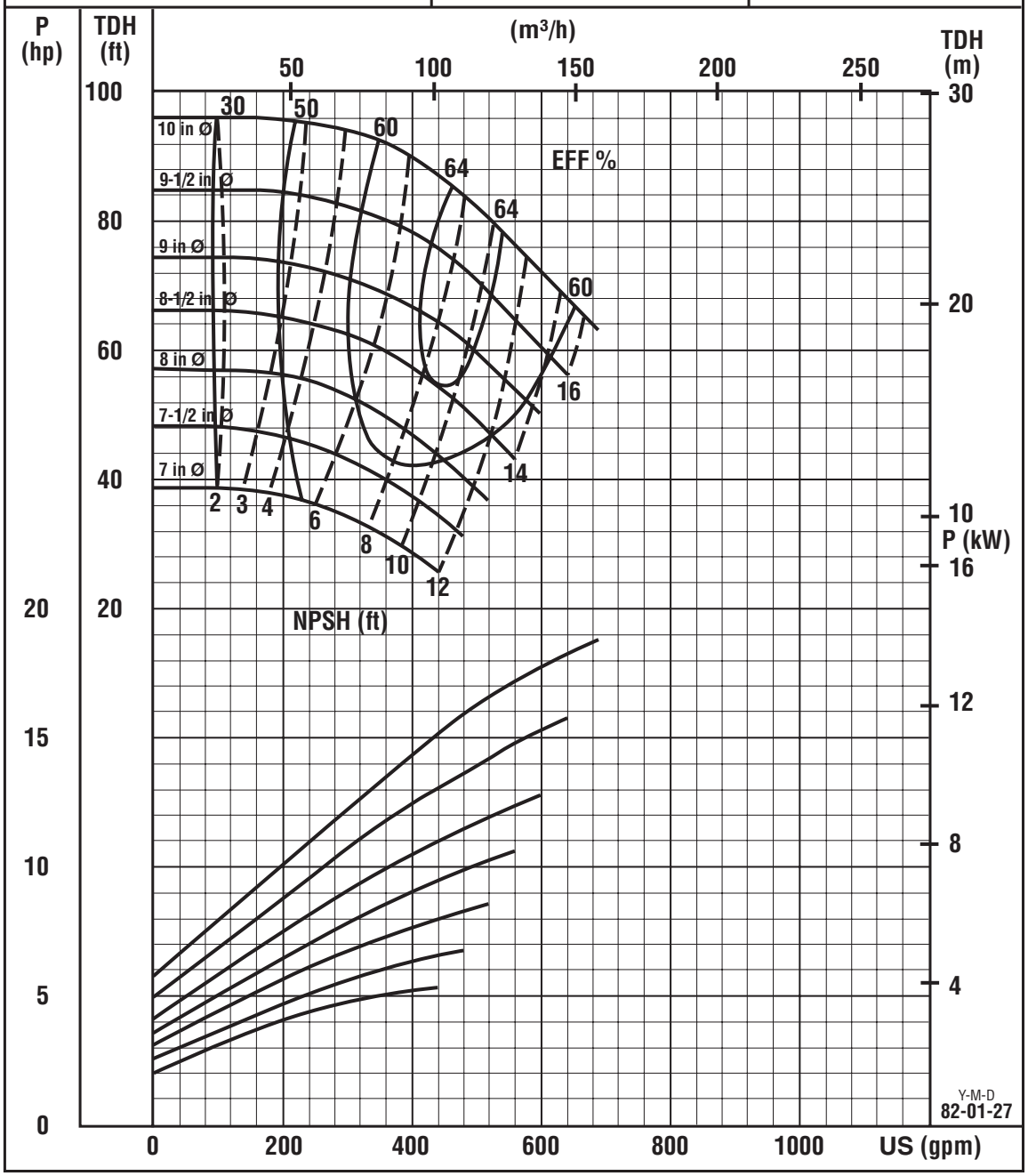
$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

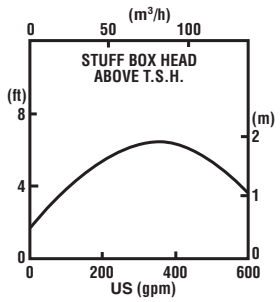
FLOWSERVE

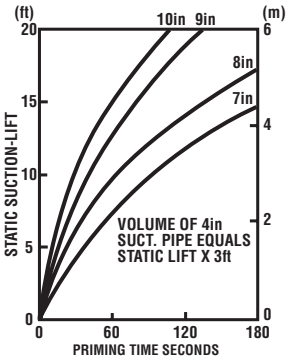
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	13.2 in²
MAX SPHERE	25/32 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K4X3US-10H
SPEED	1750 (rpm)
CURVE NO.	7660V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





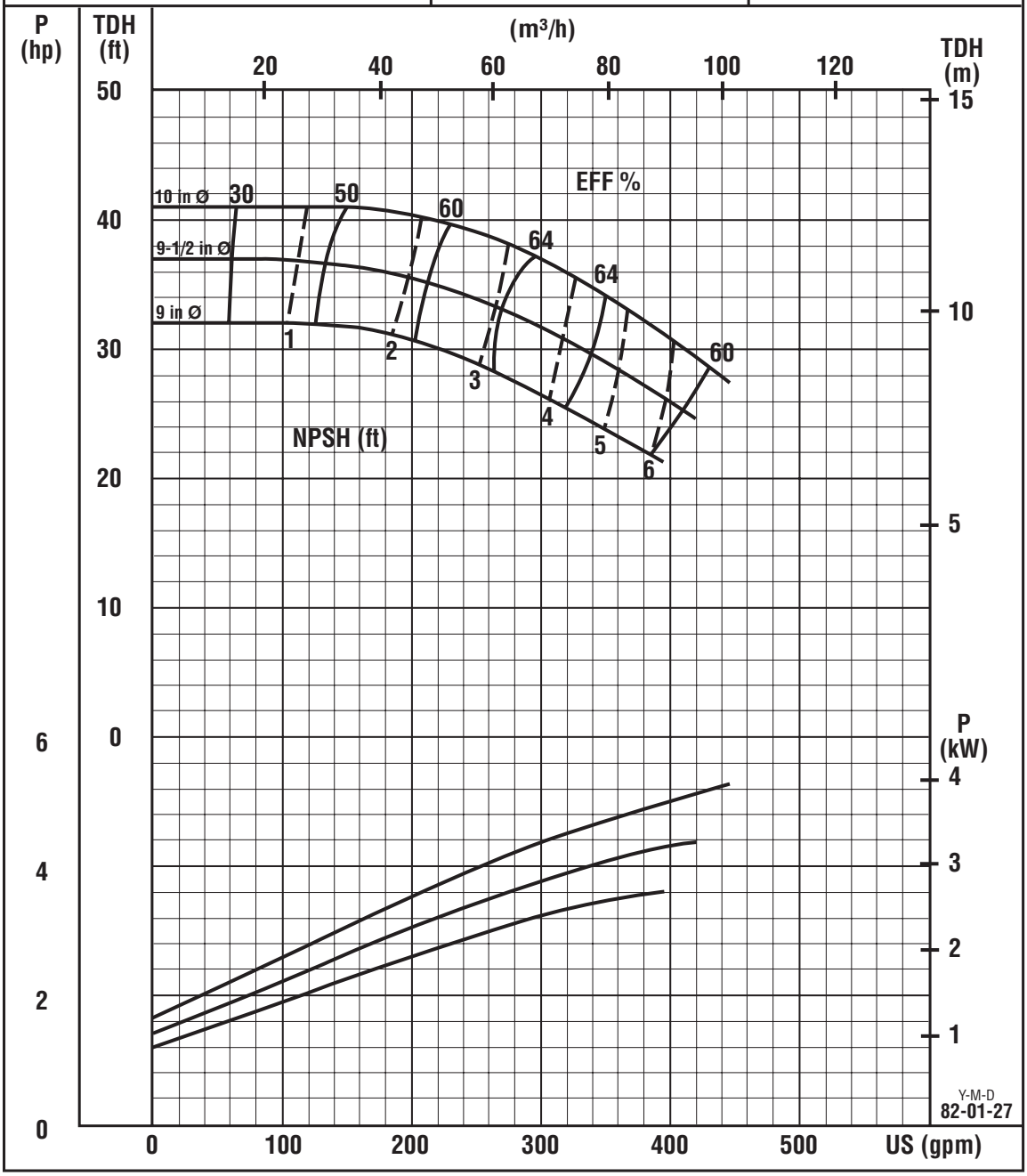
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

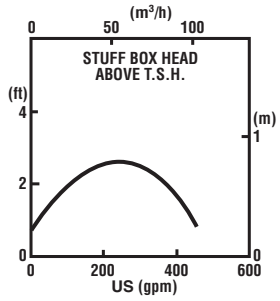
FLOWSERVE

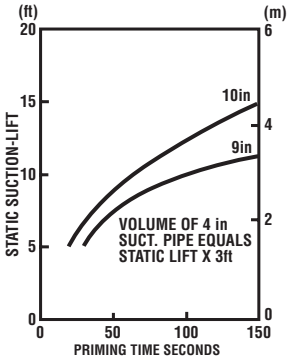
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	13.2 in²	DURCO Mark III	2K4X3US-10H
MAX SPHERE	25/32 in	SPEED	1150 (rpm)
IMPELLER	REVERSE VANE STD-N/A	CURVE NO.	7662V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





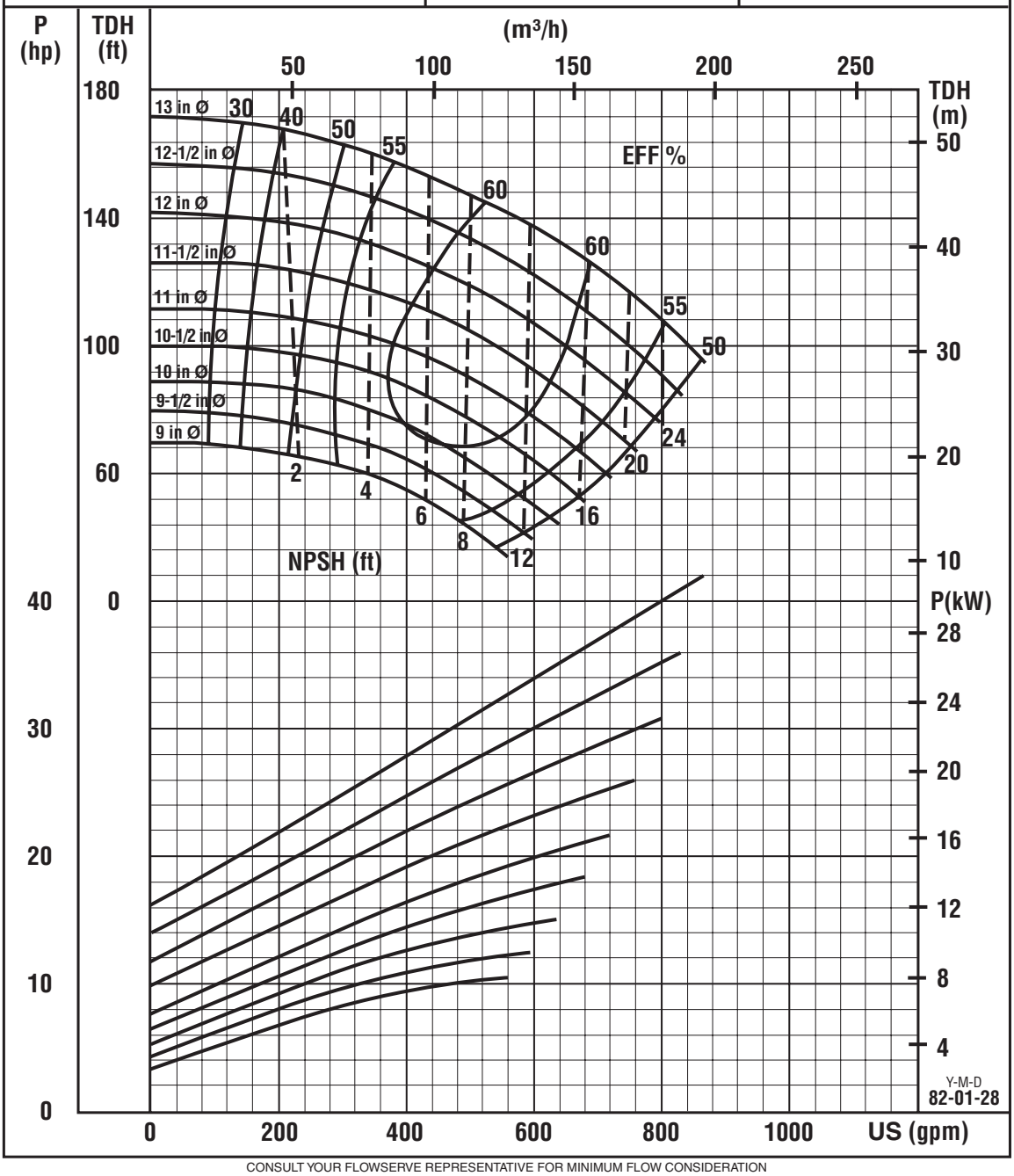
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

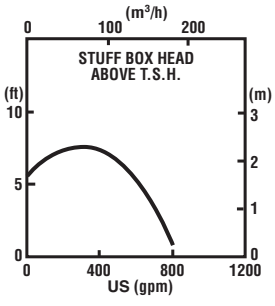
FLOWSERVE

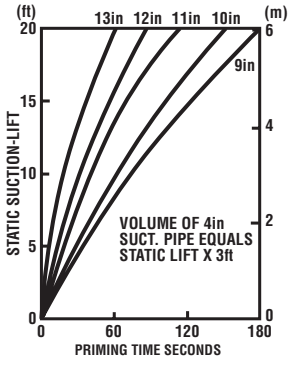
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	13.25 in²	DURCO Mark III	2K4X3US-13
MAX SPHERE	11/16 in	SPEED	1750 (rpm)
IMPELLER	REVERSE VANE STD-N/A	CURVE NO.	7560V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





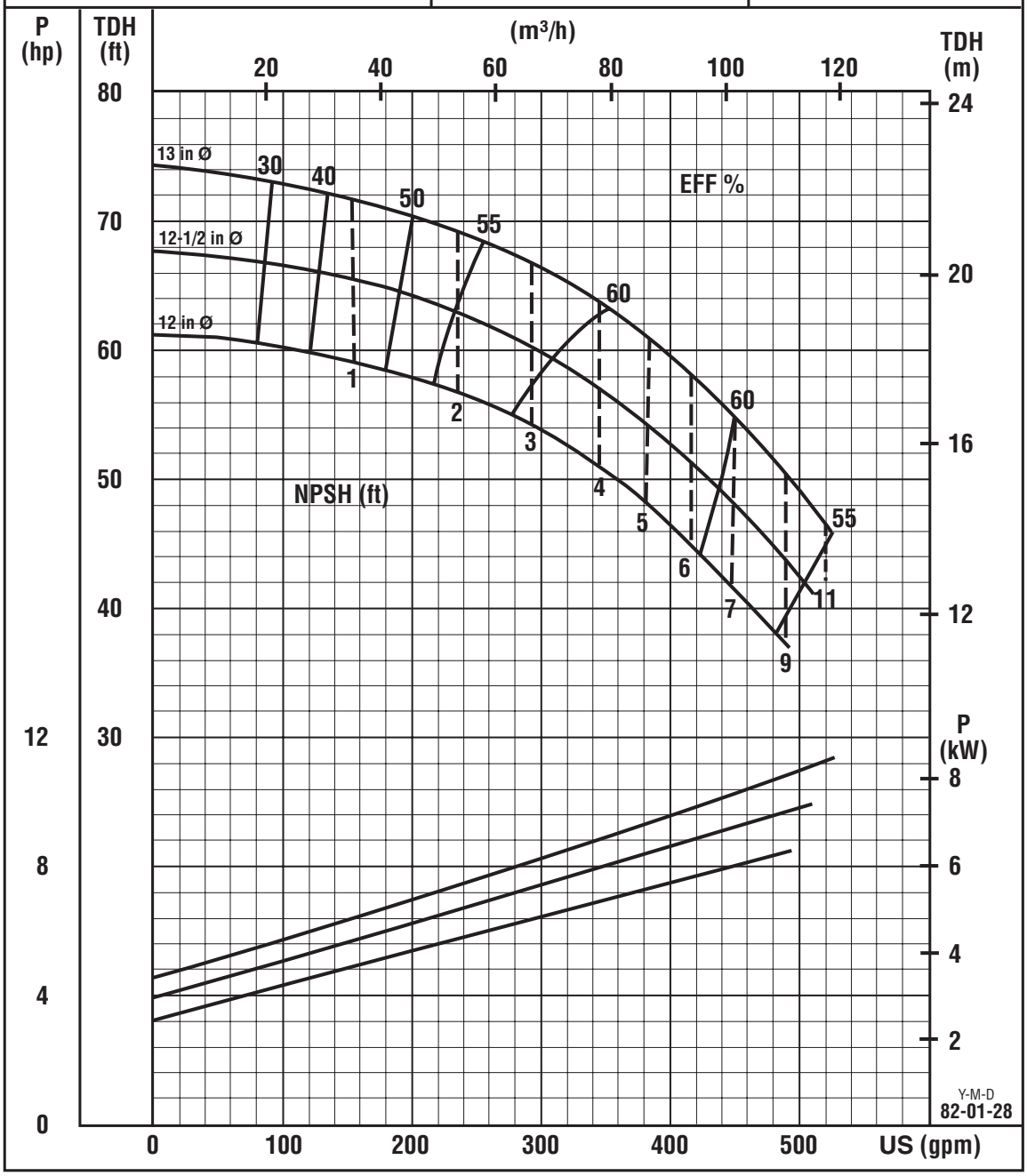
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

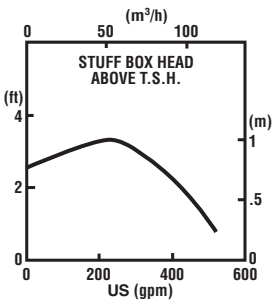
FLOWSERVE

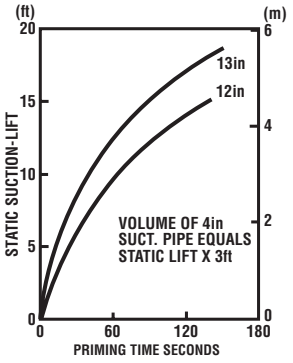
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	13.25 in²
MAX SPHERE	11/16 in
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K4X3US-13
SPEED	1150 (rpm)
CURVE NO.	7562V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





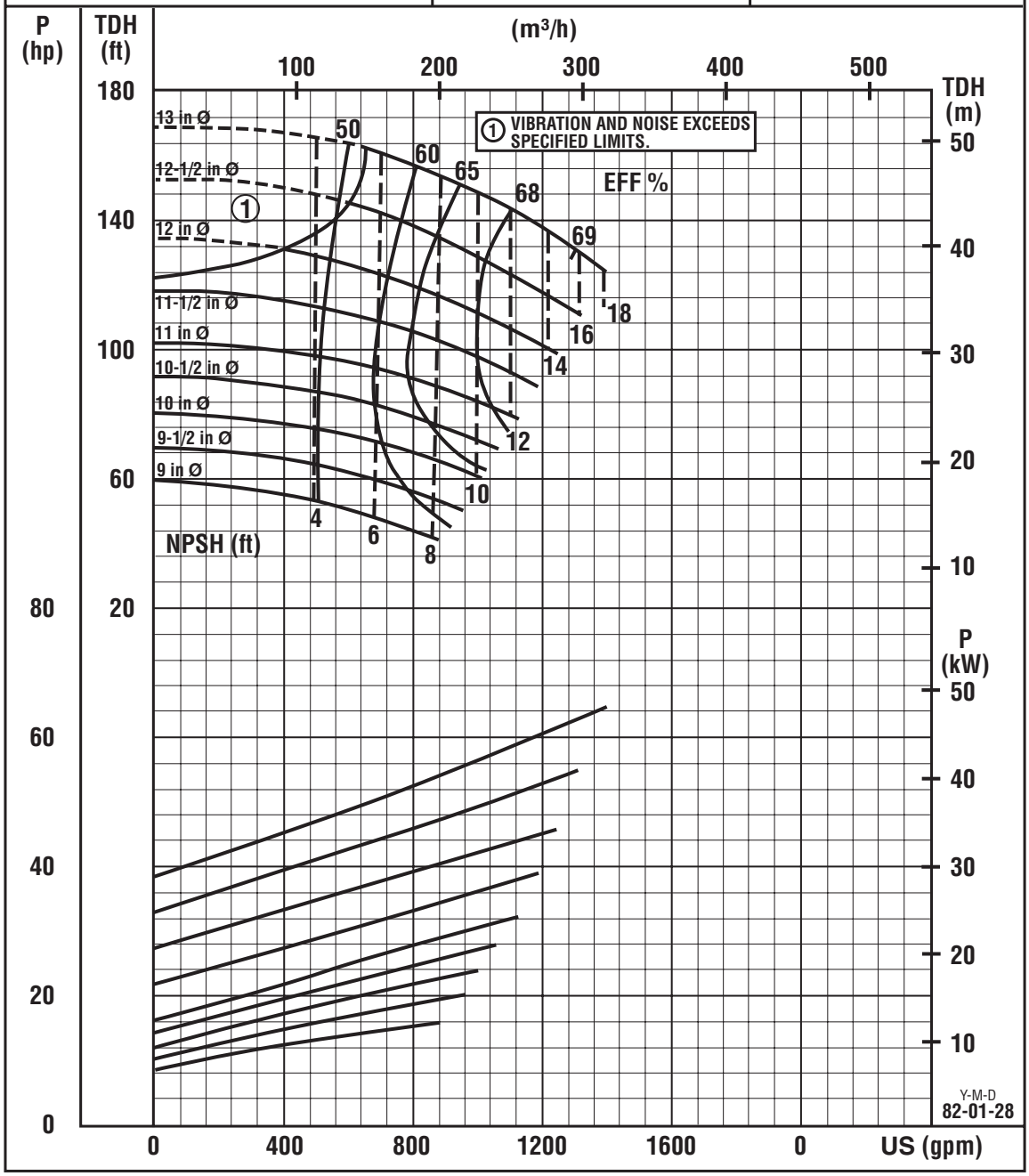
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

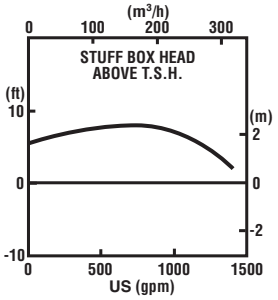
FLOWSERVE

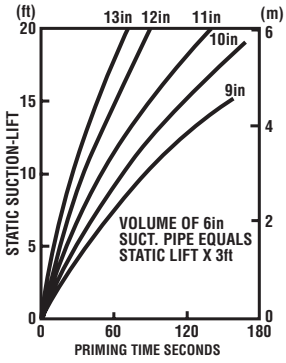
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	29 in²	DURCO Mark III	2K6X4US-13A
MAX SPHERE	1-1/32 in	SPEED	1750 (rpm)
IMPELLER	REVERSE VANE STD-N/A	CURVE NO.	8160V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





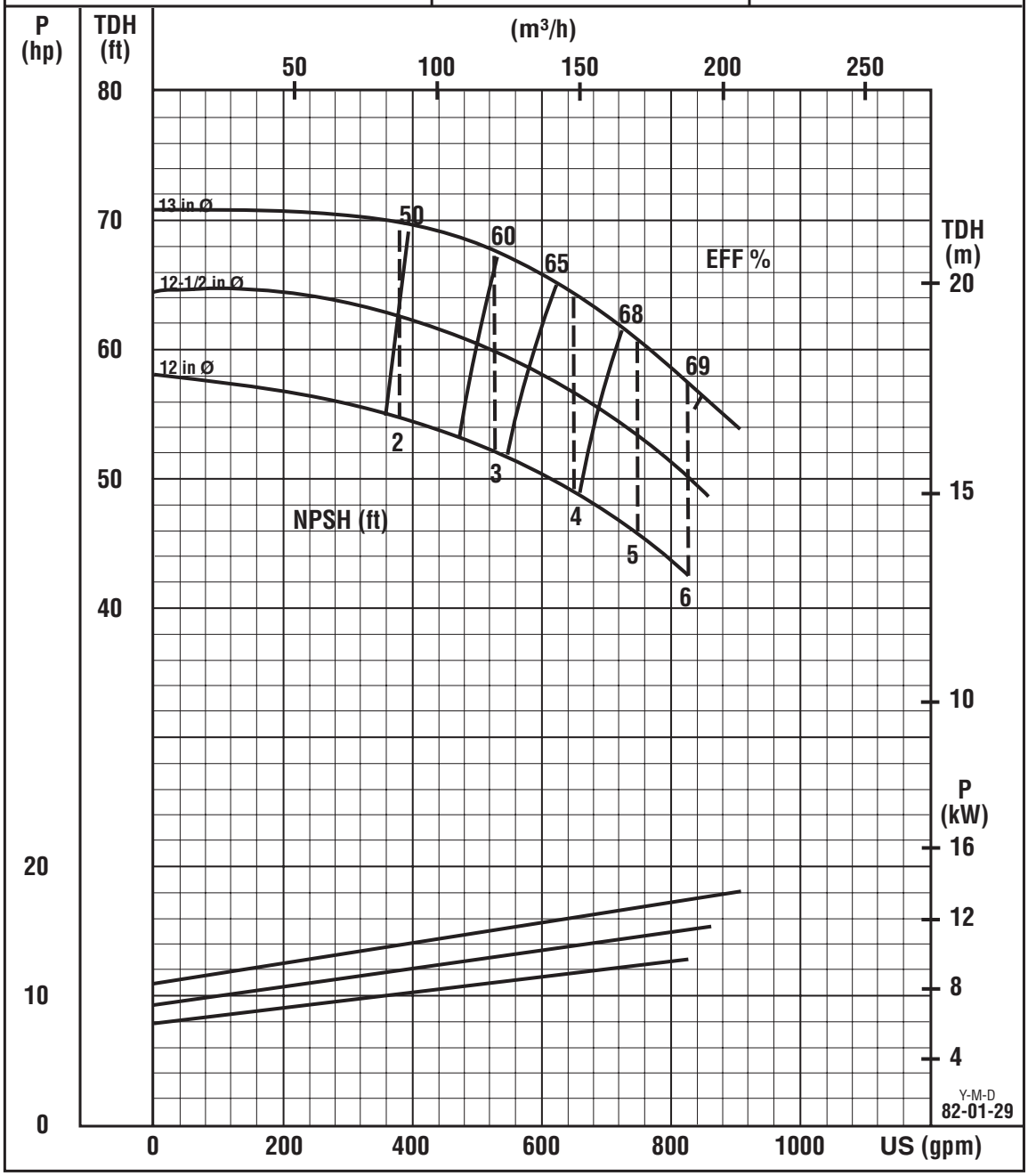
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

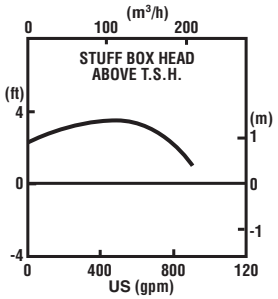
FLOWSERVE

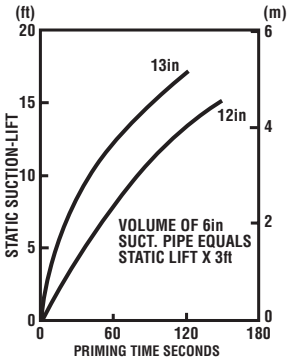
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	29 in²	DURCO Mark III	2K6X4US-13A
MAX SPHERE	1-1/32 in	SPEED	1150 (rpm)
IMPELLER	REVERSE VANE	CURVE NO.	8162V
	STD-N/A		



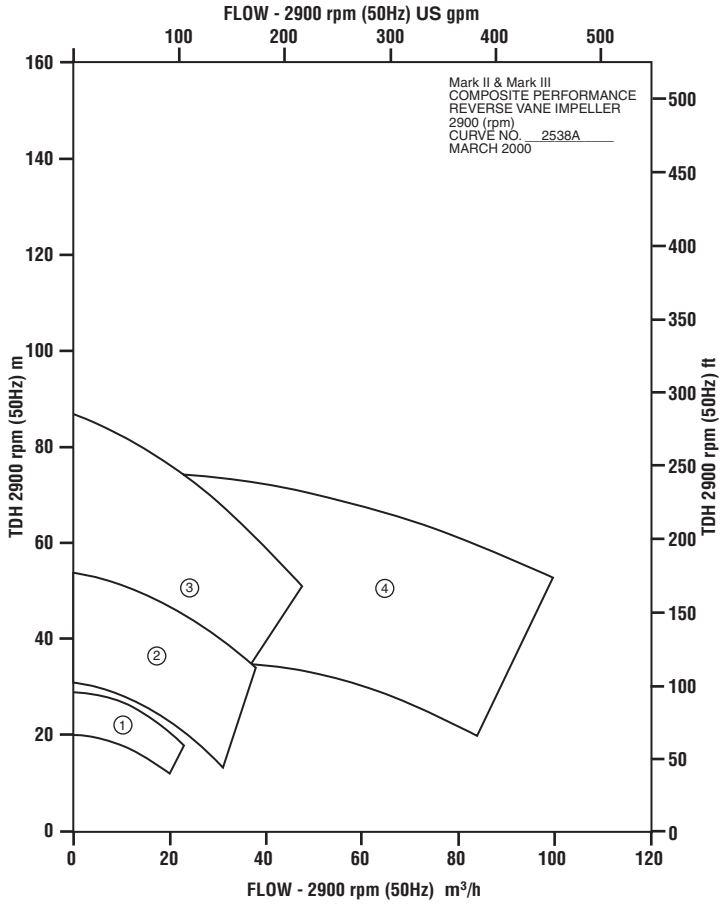
CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION



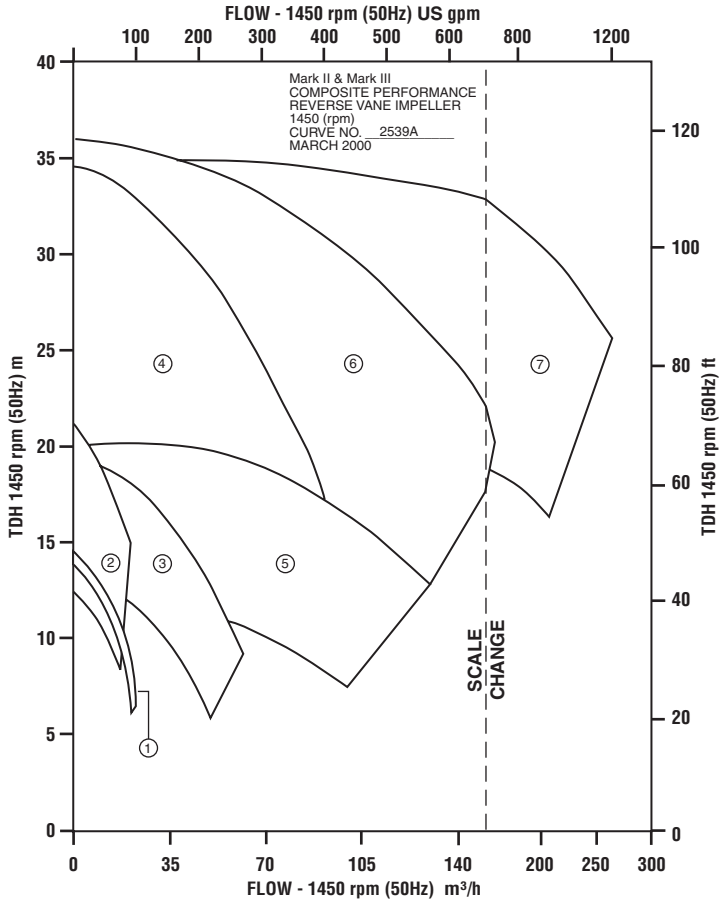


TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$



1. 1J1-1/2X1US-6
2. 1K1-1/2X1-1/2US-82
3. 2K2X1-1/2US-10A
4. 2K3X2US-10

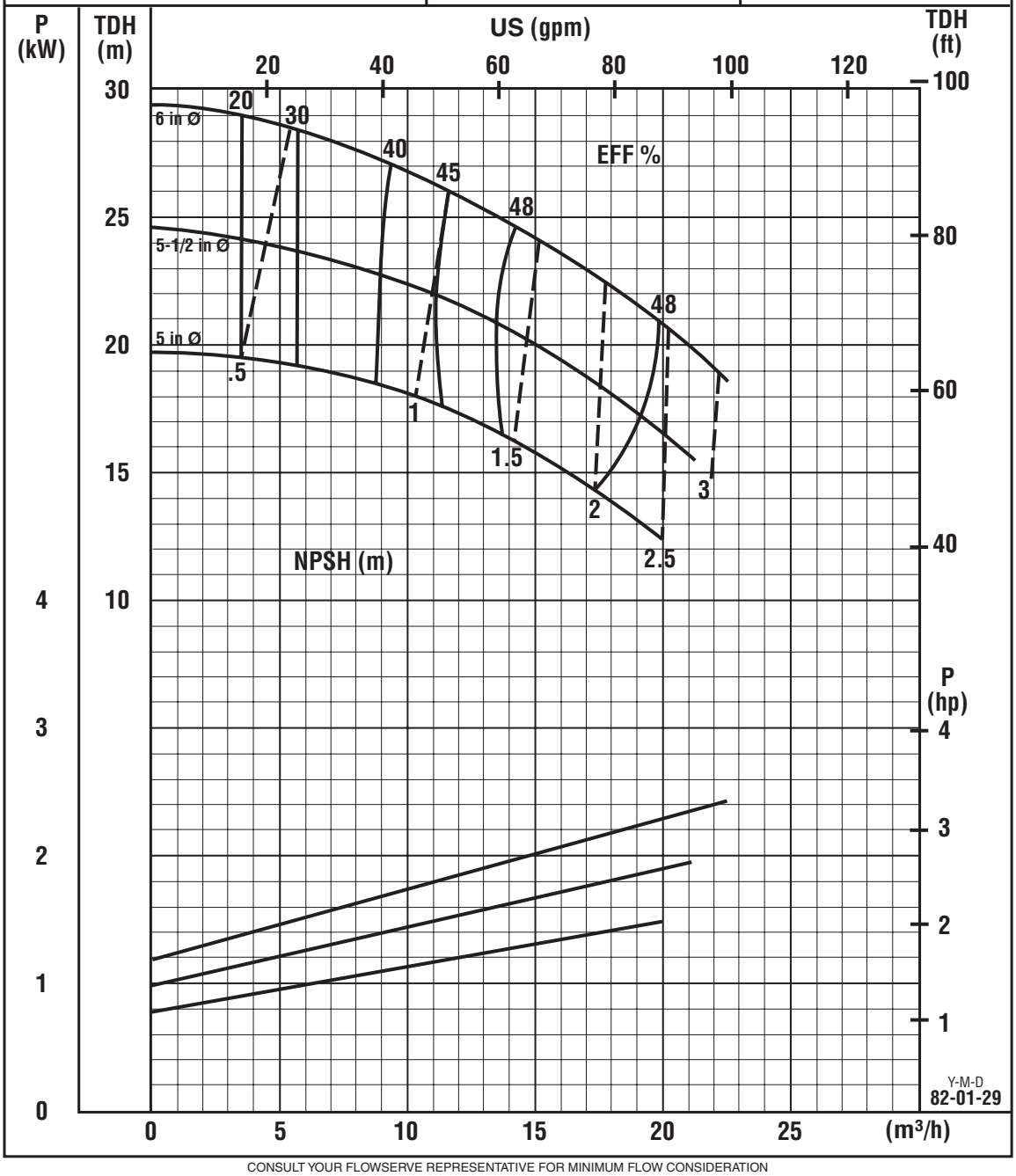


1. 1K1-1/2X1-1/2US-82
2. 2K2X1-1/2US-10A
3. 2K3X2US-10
4. 2K3X2US-13
5. 2K4X3US-10H
6. 2K4X3US-13
7. 2K6X4US-13A

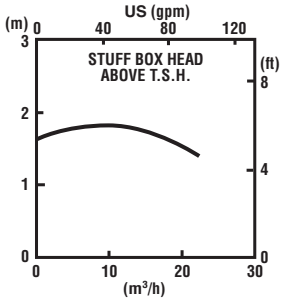
FLOWSERVE

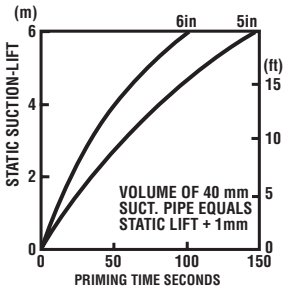
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	17.87 cm²
MAX SPHERE	9.5 mm
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark II	1J1-1/2X1US-6
SPEED	2900 (rpm)
CURVE NO.	7061V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





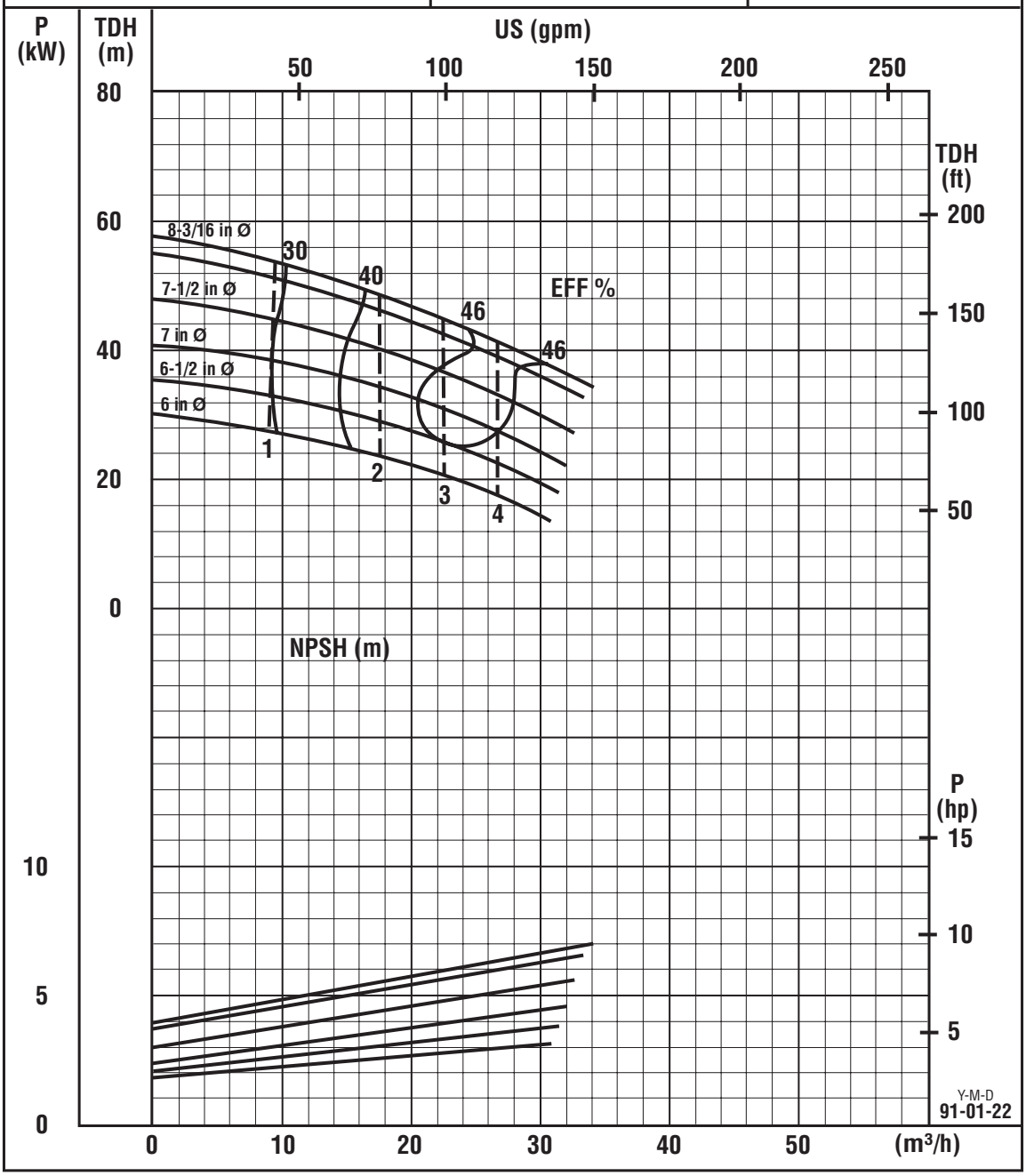
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

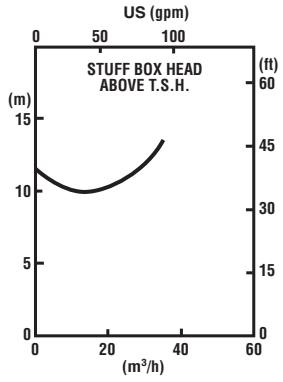
FLOWSERVE

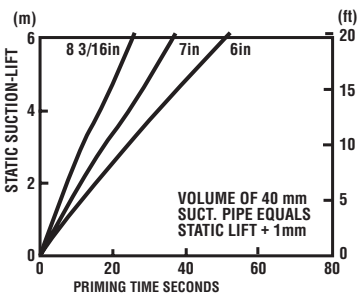
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	20.8 cm²
MAX SPHERE	8/7 mm
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	1K1-1/2X1-1/2US-82
SPEED	2900 (rpm)
CURVE NO.	7261



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





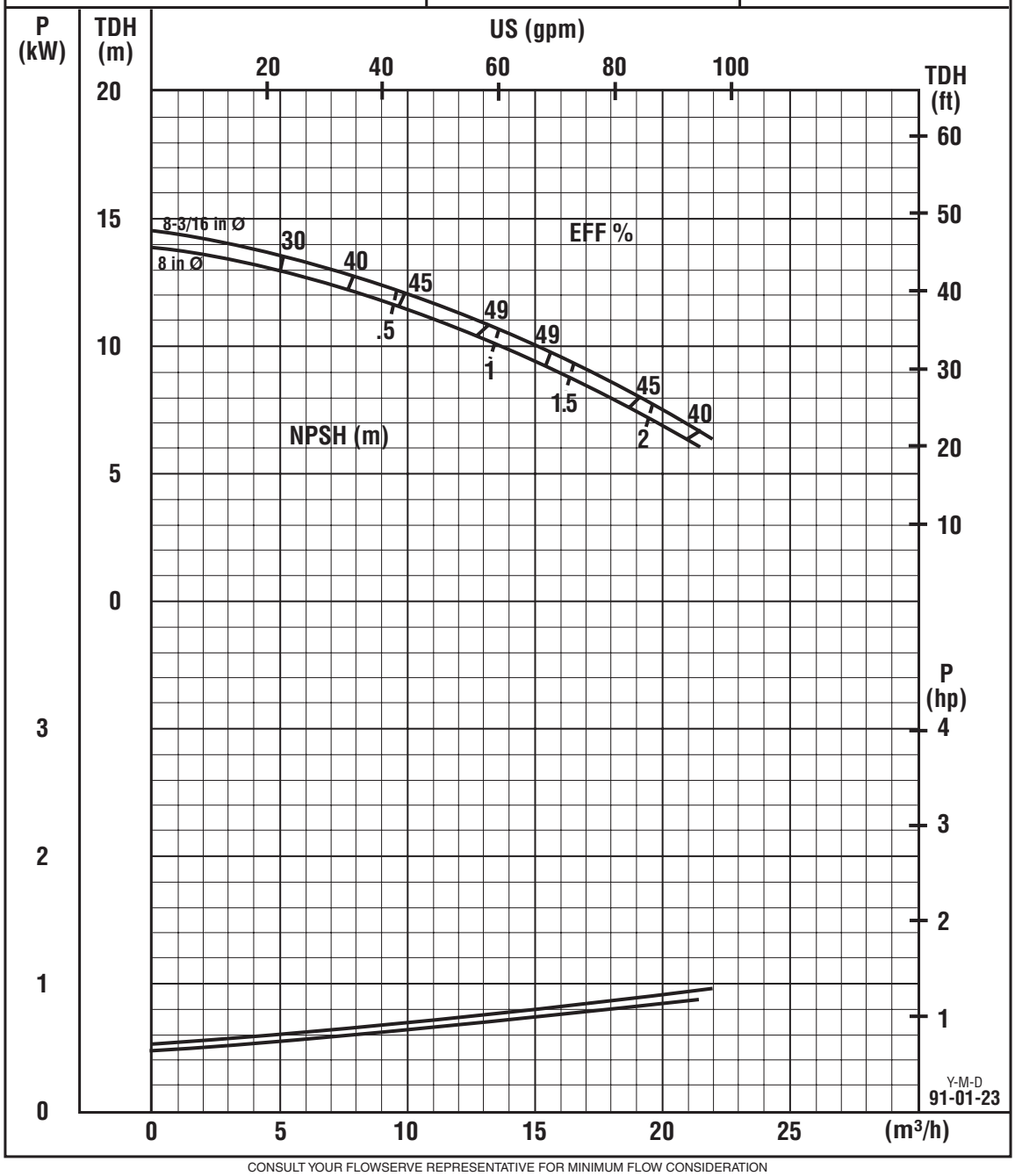
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

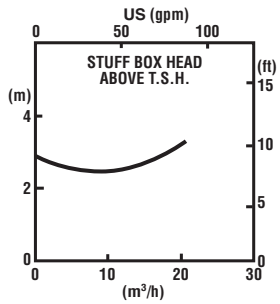
FLOWSERVE

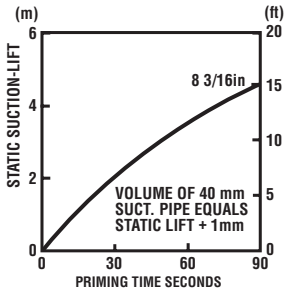
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	20.8 cm²
MAX SPHERE	8/7 mm
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	1K1-1/2X1-1/2US-82
SPEED	1450 (rpm)
CURVE NO.	7263



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





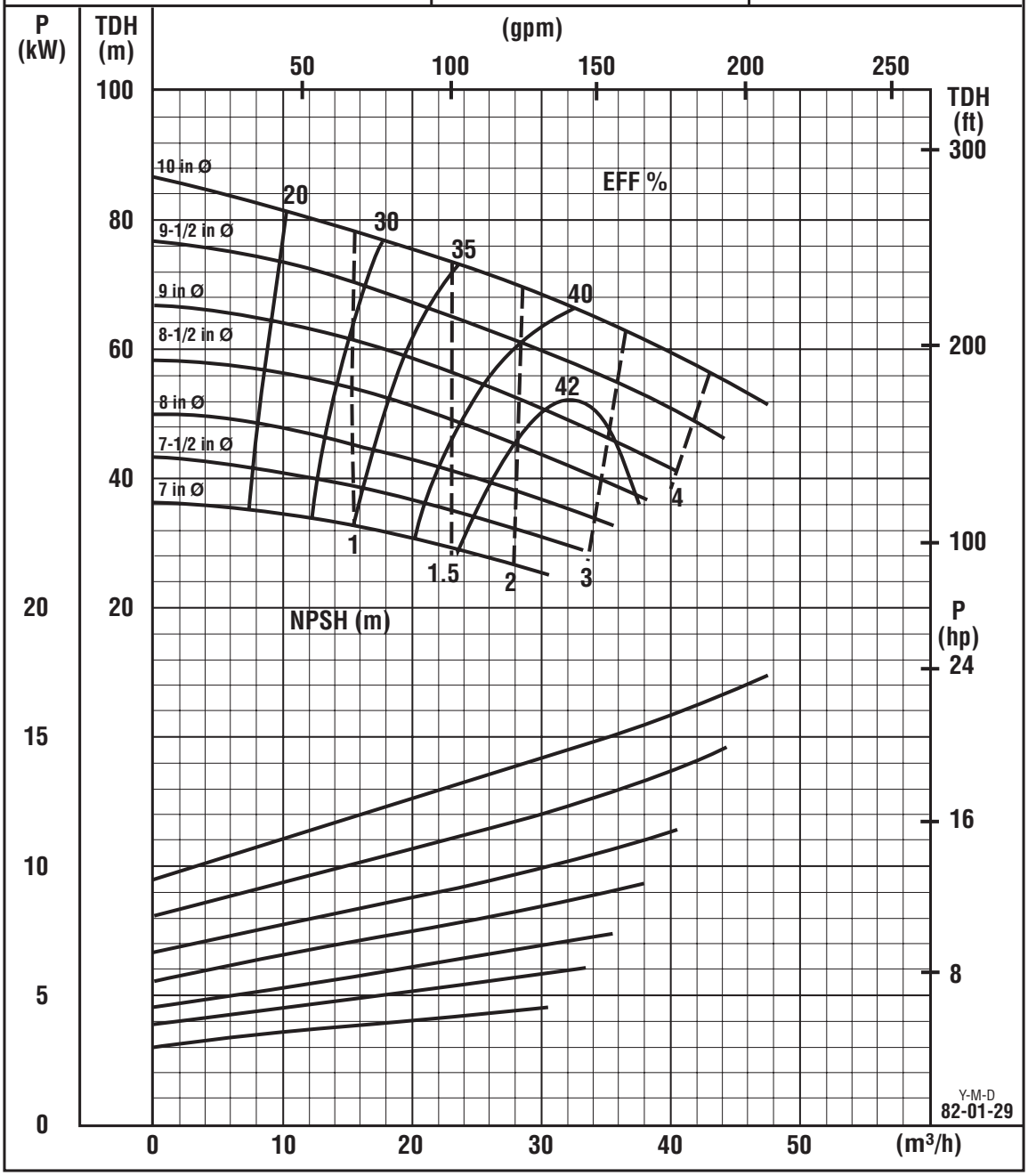
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

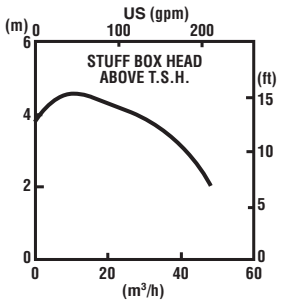
FLOWSERVE

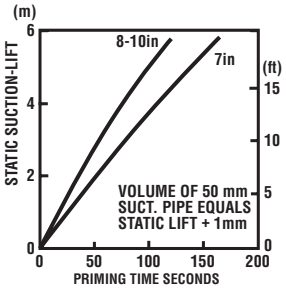
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	22.65 cm²
MAX SPHERE	9.5 mm
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K2X1-1/2US-10A
SPEED	2900 (rpm)
CURVE NO.	8061V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





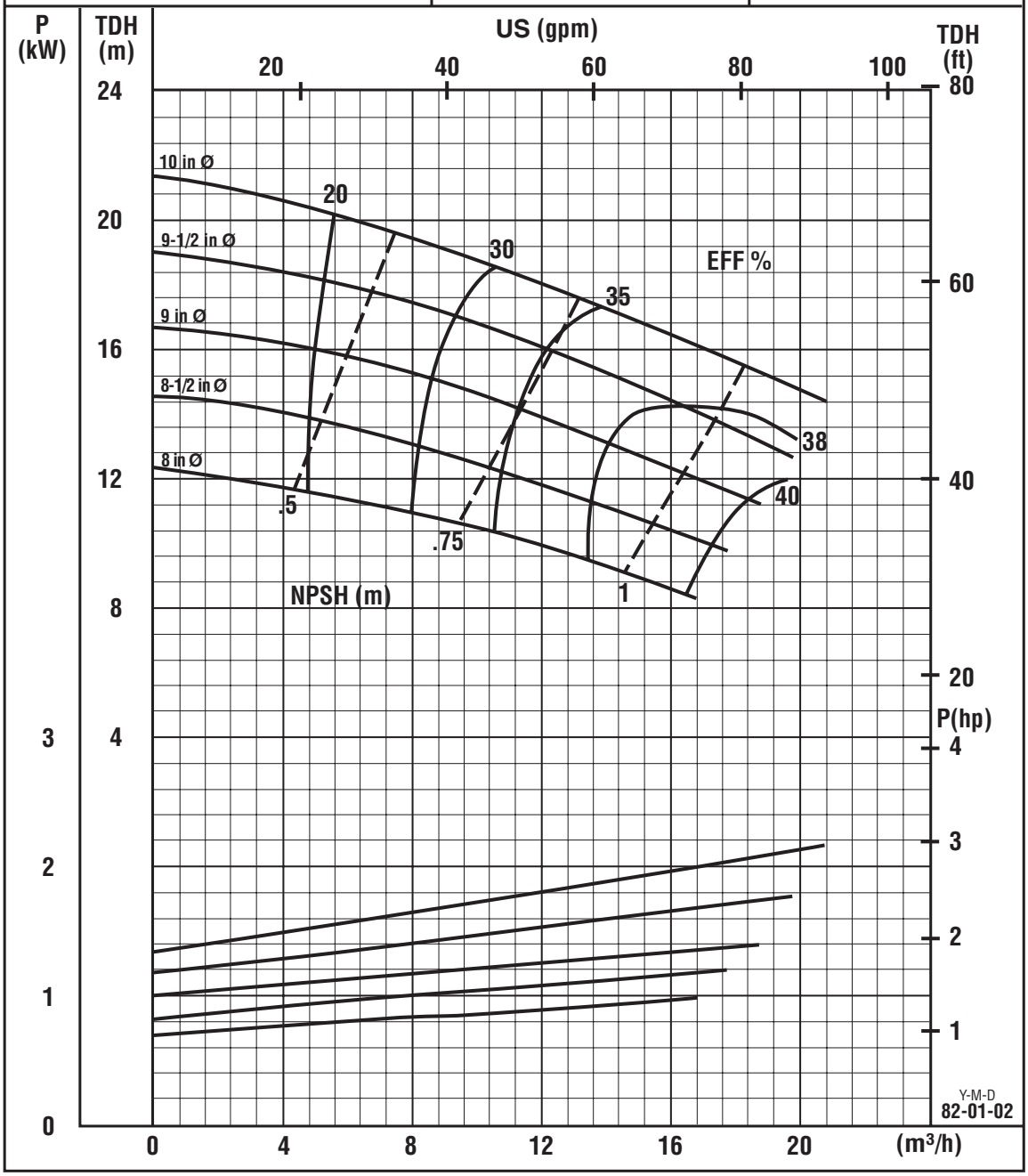
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

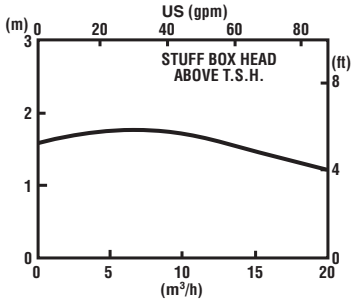
FLOWSERVE

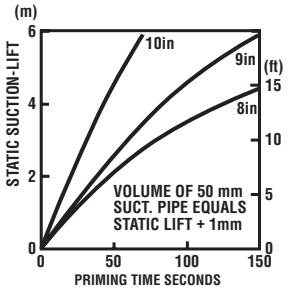
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	22.65 cm²
MAX SPHERE	10.32 mm
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K2X1-1/2US-10A
SPEED	1450 (rpm)
CURVE NO.	8063V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





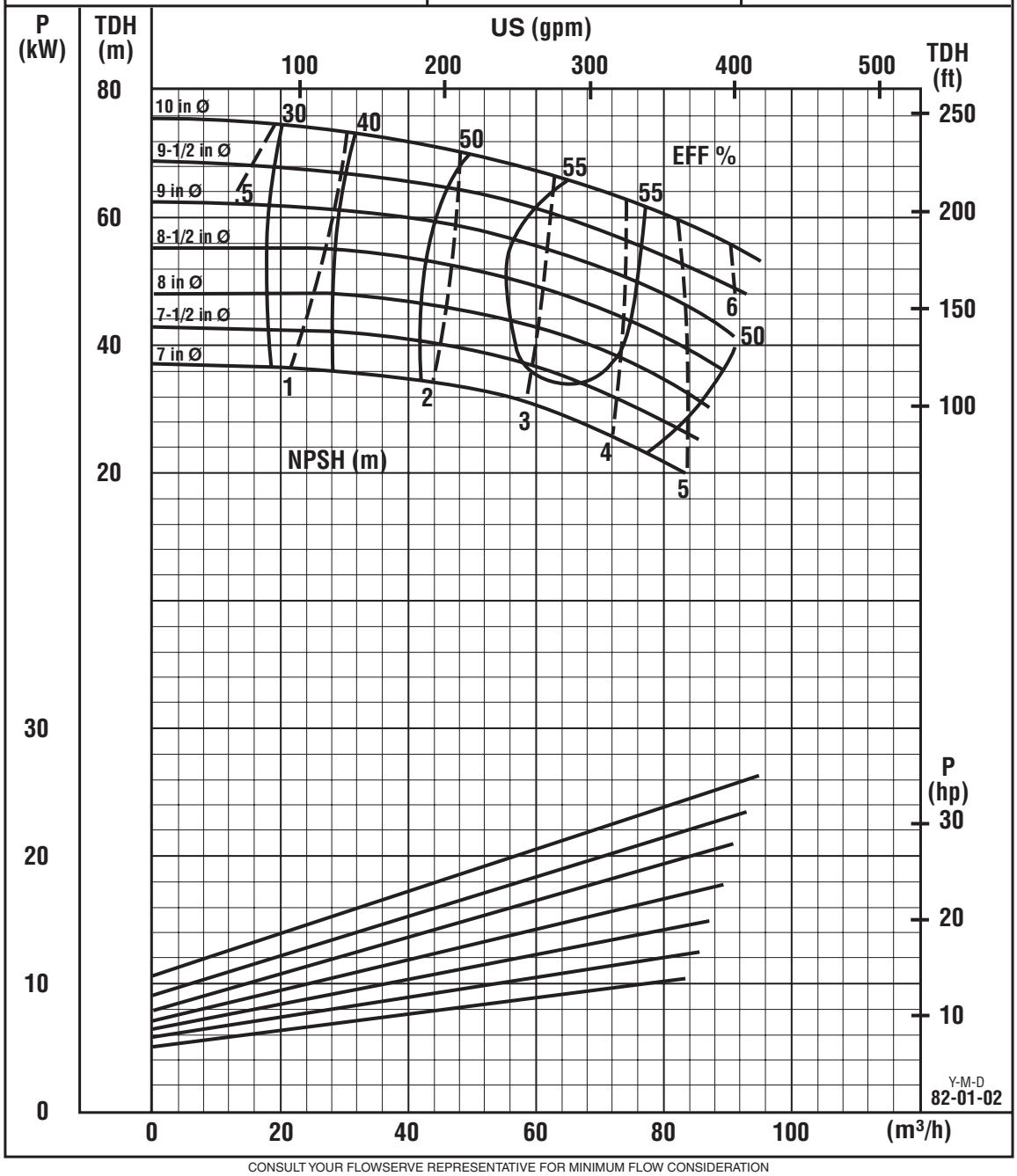
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

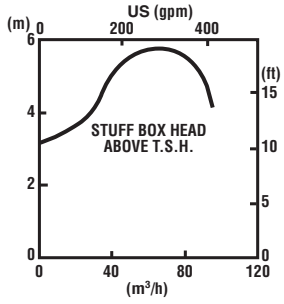
FLOWSERVE

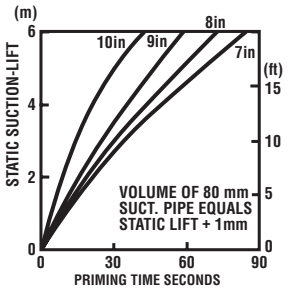
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	48.46 cm²	DURCO Mark III	2K3X2US-10
MAX SPHERE	12.7 mm	SPEED	2900 (rpm)
IMPELLER	REVERSE VANE STD-N/A	CURVE NO.	7861V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





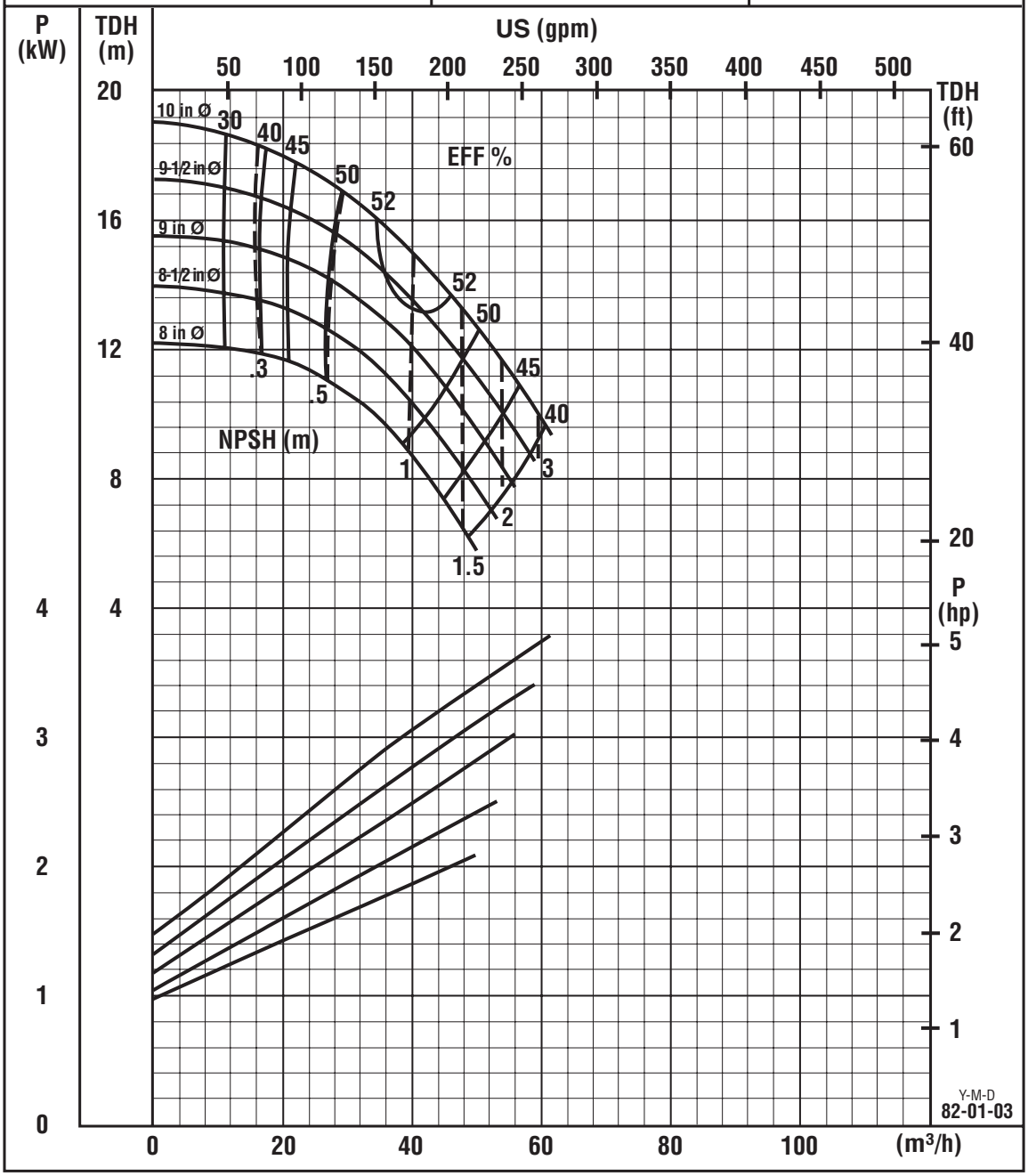
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

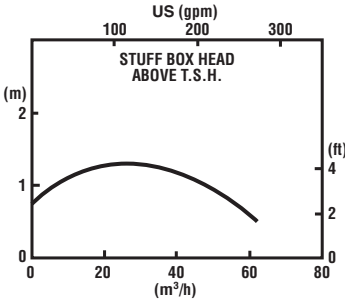
FLOWSERVE

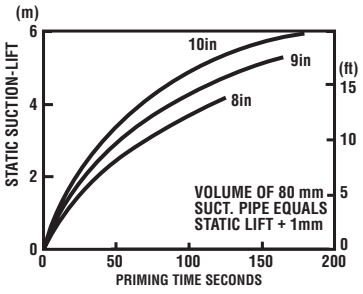
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	48.46 cm²
MAX SPHERE	12.7 mm
IMPELLER	REVERSE VANE
	STD-N/A
DURCO Mark III	2K3X2US-10
SPEED	1450 (rpm)
CURVE NO.	7863V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





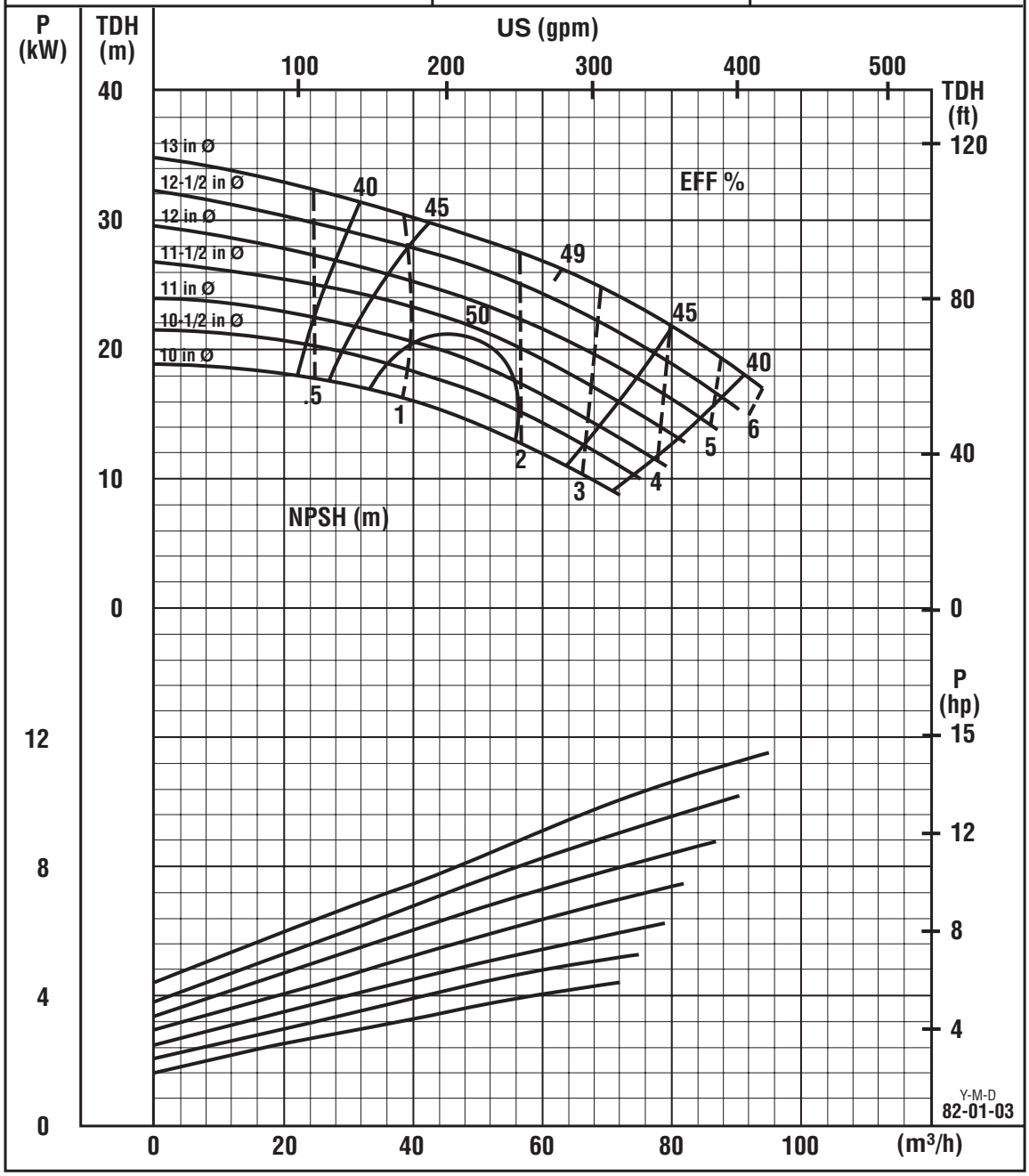
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

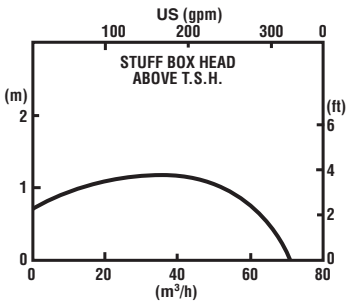
FLOWSERVE

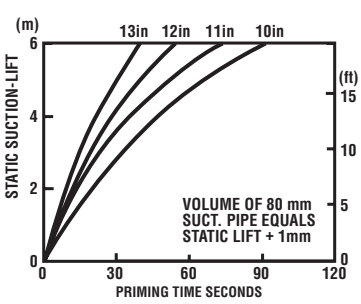
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	48.46 cm²	DURCO Mark III	2K3X2US-13
MAX SPHERE	10.3mm	SPEED	1450 (rpm)
IMPELLER	REVERSE VANE STD-N/A	CURVE NO.	7461V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





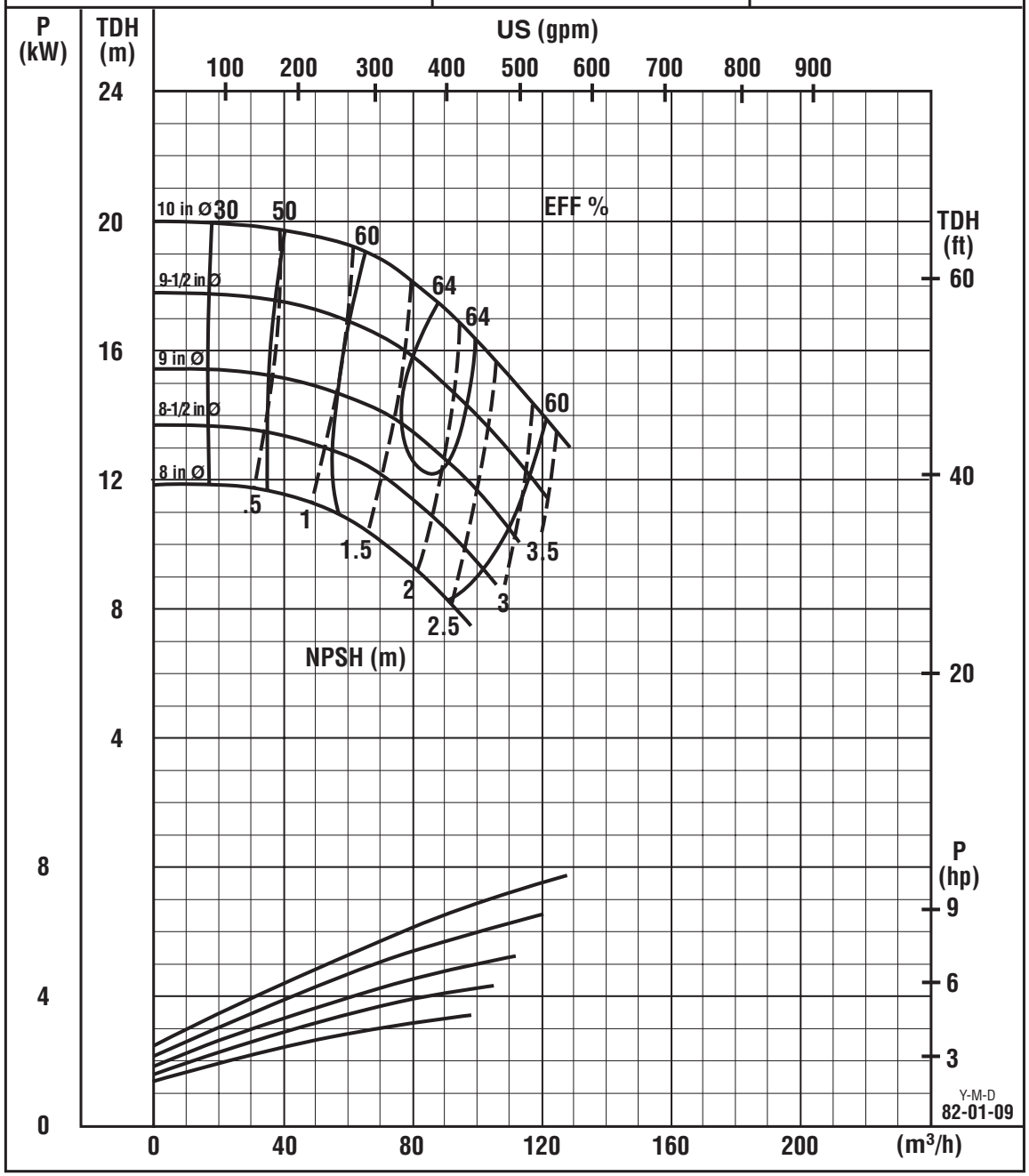
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

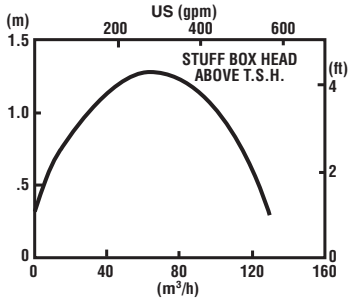
FLOWSERVE

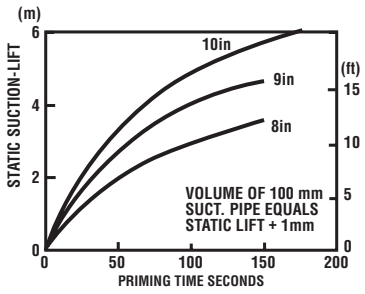
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	85.18 cm²	DURCO Mark III	2K4X3US-10H
MAX SPHERE	19.8 mm	SPEED	1450 (rpm)
IMPELLER	REVERSE VANE STD-N/A	CURVE NO.	7661V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





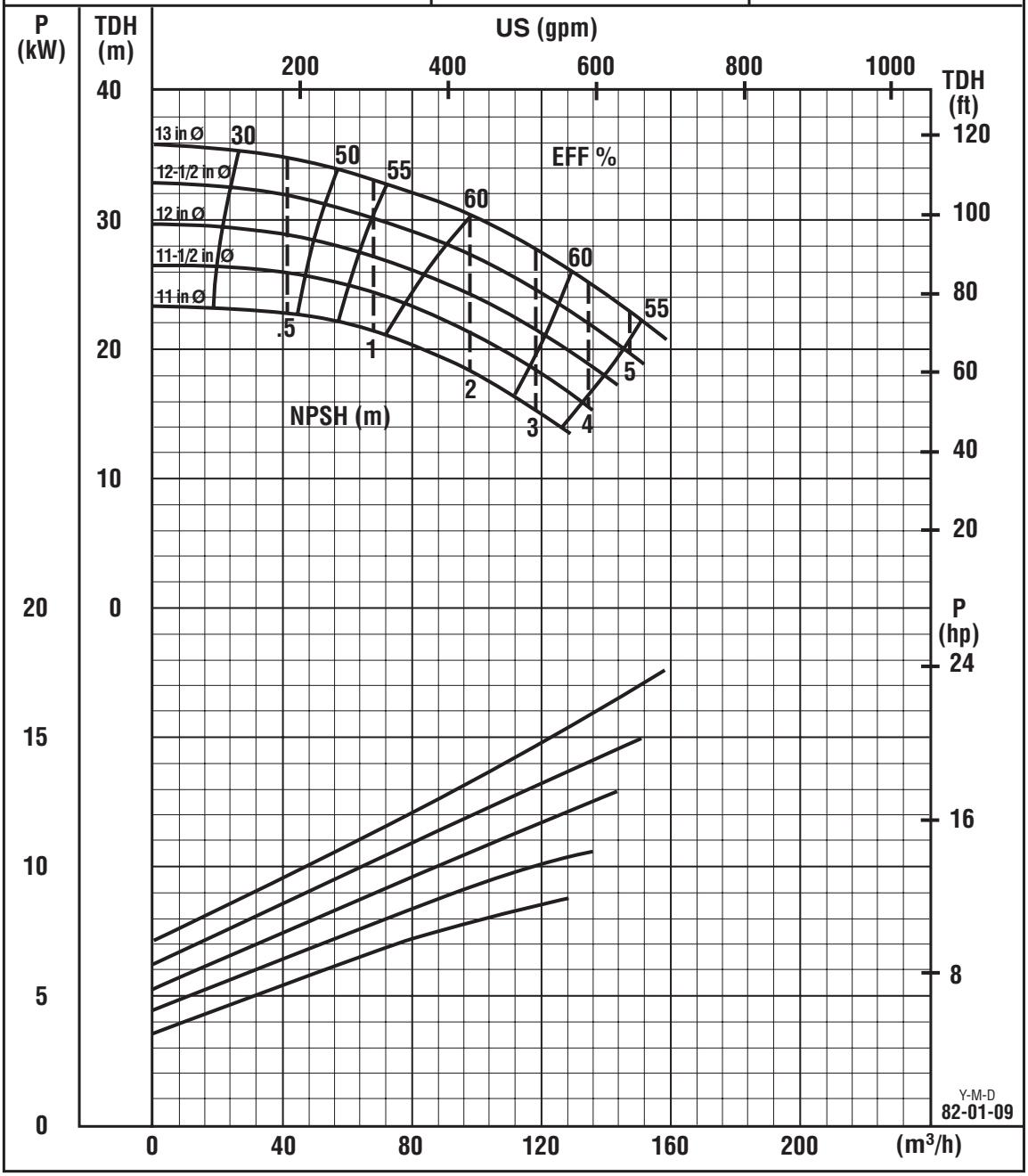
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

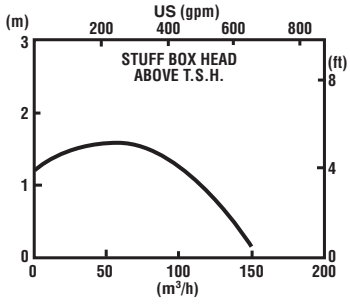
FLOWSERVE

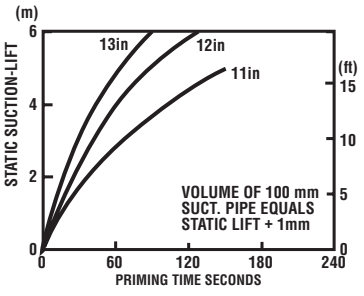
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	85.48 cm²	DURCO Mark III	2K4X3US-13
MAX SPHERE	17.5 mm	SPEED	1450 (rpm)
IMPELLER	REVERSE VANE	CURVE NO.	7561V
	STD-N/A		



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





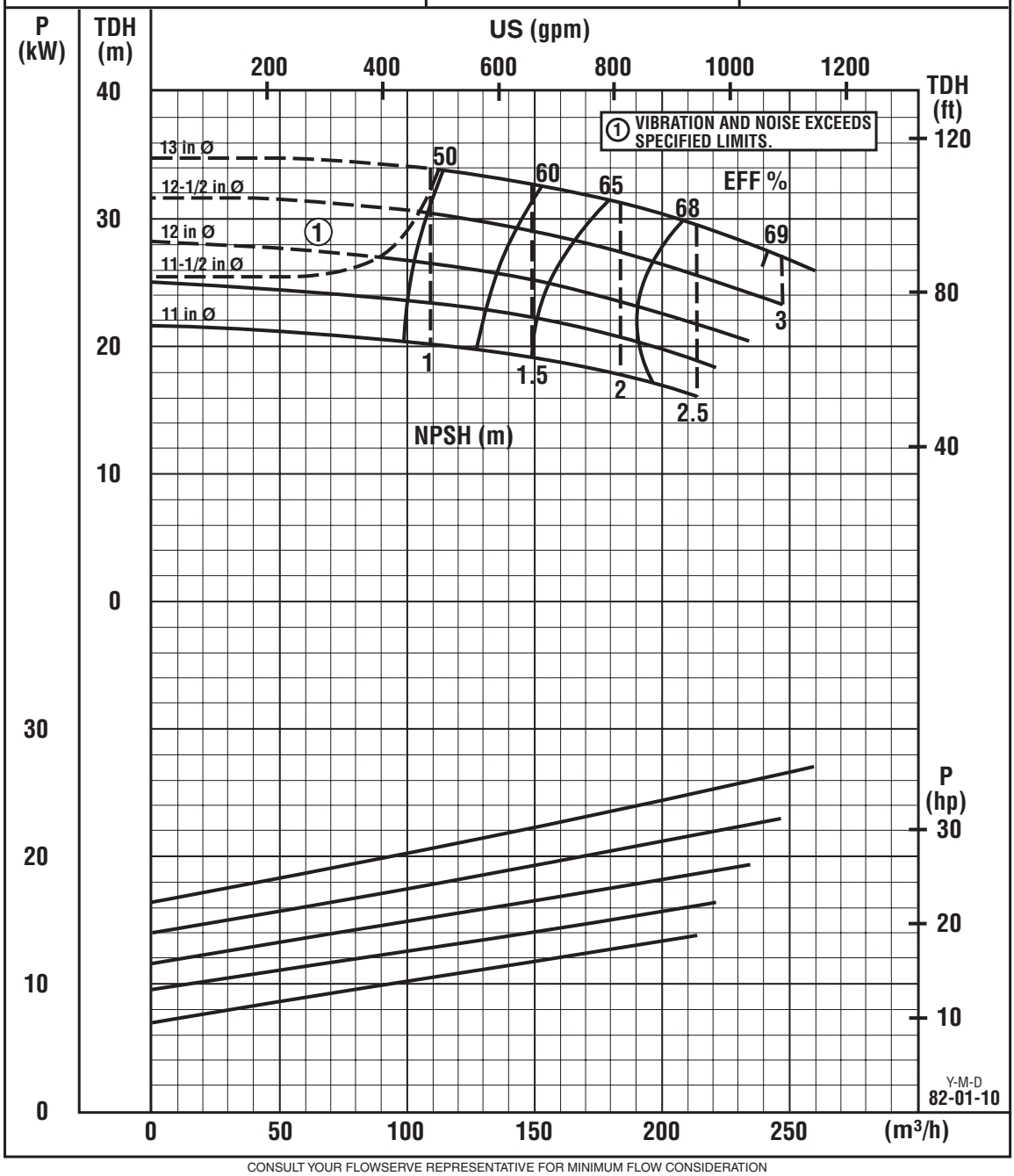
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

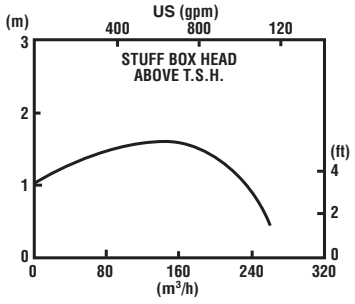
FLOWSERVE

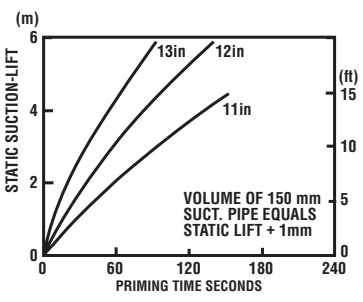
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	187.1 cm²	DURCO Mark III	2K6X4US-13A
MAX SPHERE	26.2 mm	SPEED	1450 (rpm)
IMPELLER	REVERSE VANE STD-N/A	CURVE NO.	8161V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

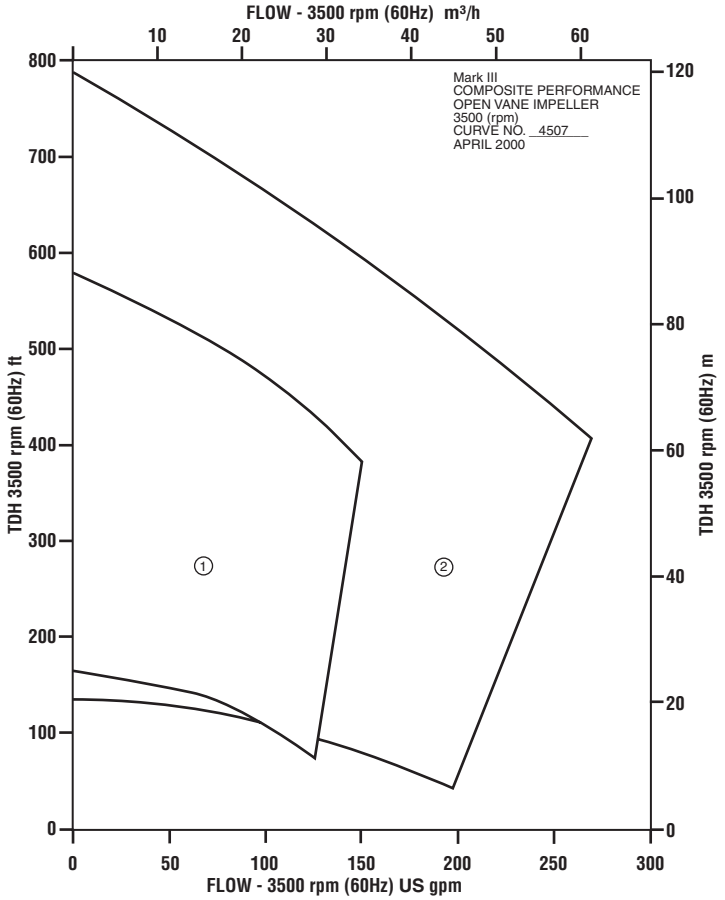
$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

Index-60 Cycle Open Vane Curves

PUMP	SPEED	CURVE #	PAGE
Composite Curves	3500 1750 1150	4507 4505 4504	35 36 36
1K1-1/2X1-1/2US-82	3500 1750	MIII 7270 MIII 7272	37 38
2K2X1-1/2US-10A	3500 1750 1150	MIII 8065V MIII 8067V MIII 8069V	39 40 41
2K3X2US-13	1750 1150	MIII 7463V MIII 7465V	42 43
2K4X3US-10H	1750 1150	MIII 7663V MIII 7665V	44 45
2K4X3US-13	1750 1150	MIII 7563V MIII 7565V	46 47
2K6X4US-13A	1750 1150	MIII 8163V MIII 8165V	48 49

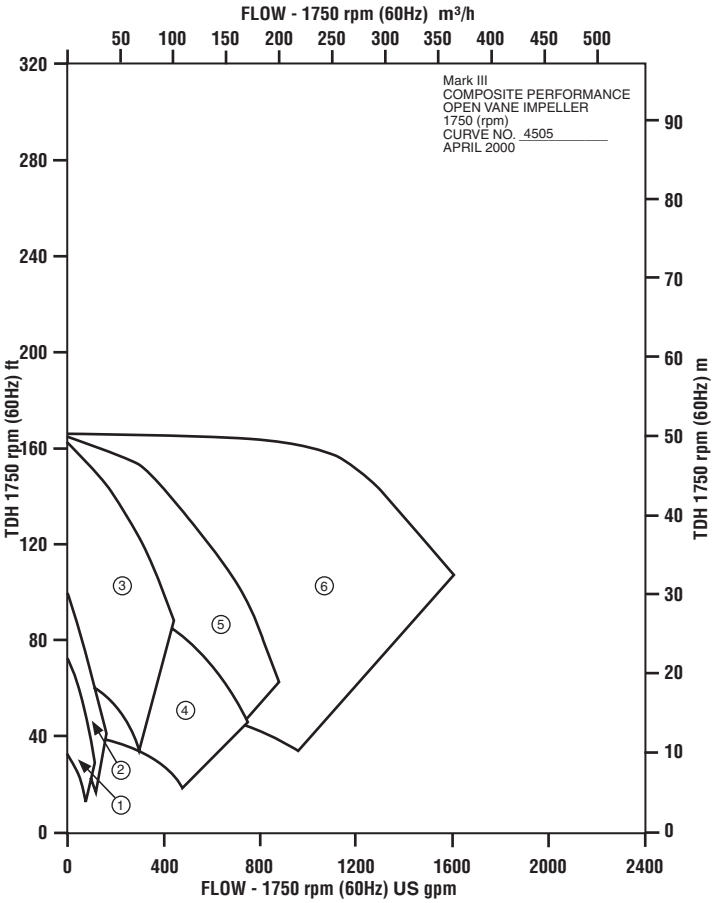
Index-50 Cycle Open Vane Curves

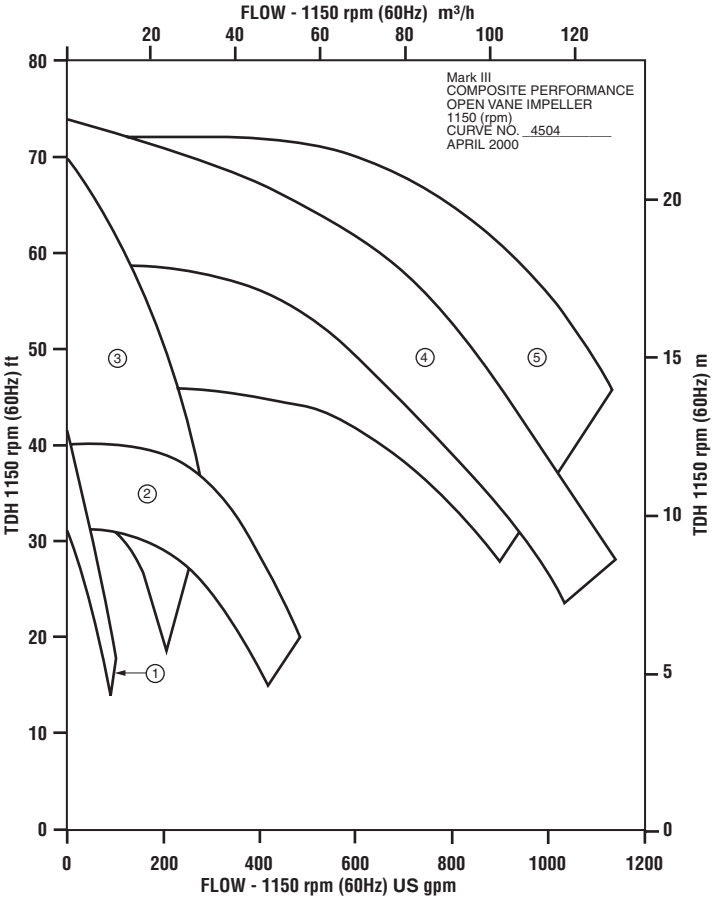
PUMP	SPEED	CURVE #	PAGE
Composite Curves	2900 1450	4506 4508	50 50
1K1-1/2-1/2US-82	2900 1450	MIII 7271 MIII 7273	51 52
2K2X1-1/2US-10A	2900 1450	MIII 8066V MIII 8068V	53 54
2K3X2US-13	1450	MIII 7464V	55
2K4X3US-10H	1450	MIII 7664V	56
2K4X3US-13	1450	MIII 7564V	57
2K6X4US-13A	1450	MIII 8164V	58



① 1K1-1/2X1-1/2US-82

② 2KX1-1/2US-10A

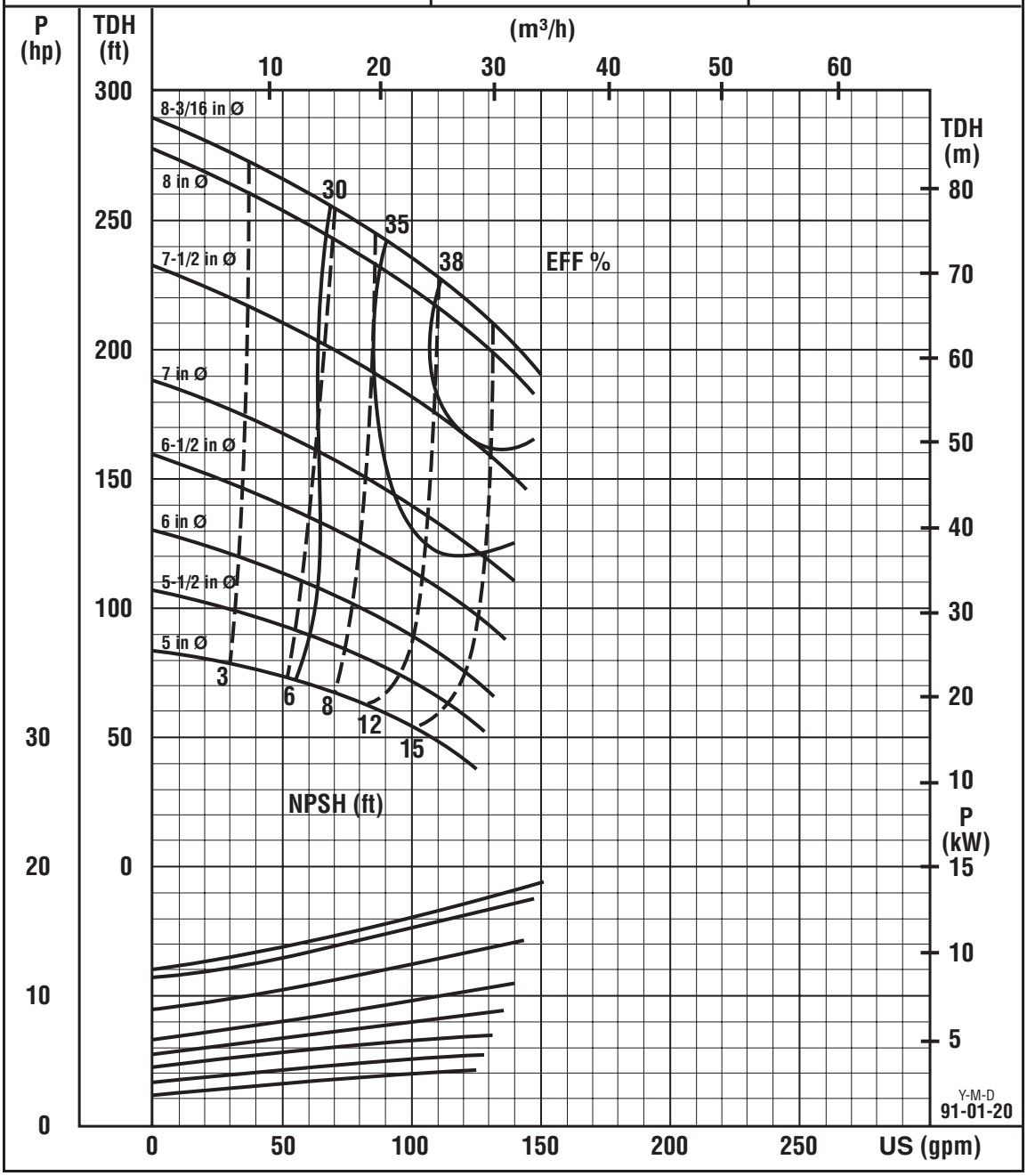

FLOW - 1750 rpm (60Hz) m³/h
50 100 150 200 250 300 350 400 450 500
Mark III
COMPOSITE PERFORMANCE
OPEN VANE IMPELLER
1750 (rpm)
CURVE NO. 4505
APRIL 2000
TDH 1750 rpm (60Hz) ft
320 280 240 200 160 120 80 40 0
TDH 1750 rpm (60Hz) m
90 80 70 60 50 40 30 20 10 0
0 400 800 1200 1600 2000 2400
FLOW - 1750 rpm (60Hz) US gpm
① 1K1-1/2X1-1/2US-82
② 2K2X1-1/2US-10A
③ 2K3X2US-13
④ 2K4X3US-10H
⑤ 2K4X3US-13
⑥ 2K6X4US-13A


FLOW - 1150 rpm (60Hz) m³/h
20 40 60 80 100 120
Mark III
COMPOSITE PERFORMANCE
OPEN VANE IMPELLER
1150 (rpm)
CURVE NO. 4504
APRIL 2000
TDH 1150 rpm (60Hz) ft
80 70 60 50 40 30 20 10 0
TDH 1150 rpm (60Hz) m
20 15 10 5 0
0 200 400 600 800 1000 1200
FLOW - 1150 rpm (60Hz) US gpm
① 2K2X1-1/2US-10A
② 2K3X2US-13
③ 2K4X3US-10H
④ 2K4X3US-13
⑤ 2K6X4US-13A

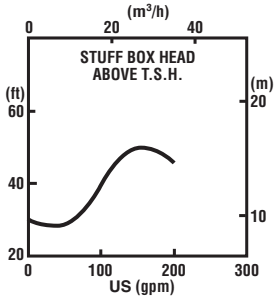
FLOWSERVE

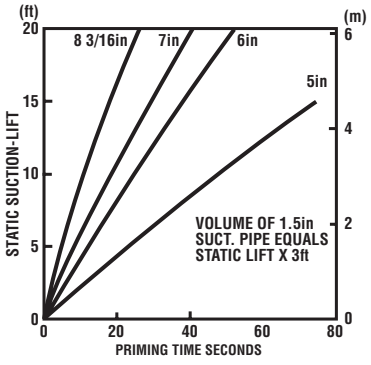
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	3.7 in²
MAX SPHERE	15/32 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	1K1-1/2X1-1/2US-82
SPEED	3500 (rpm)
CURVE NO.	7270



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





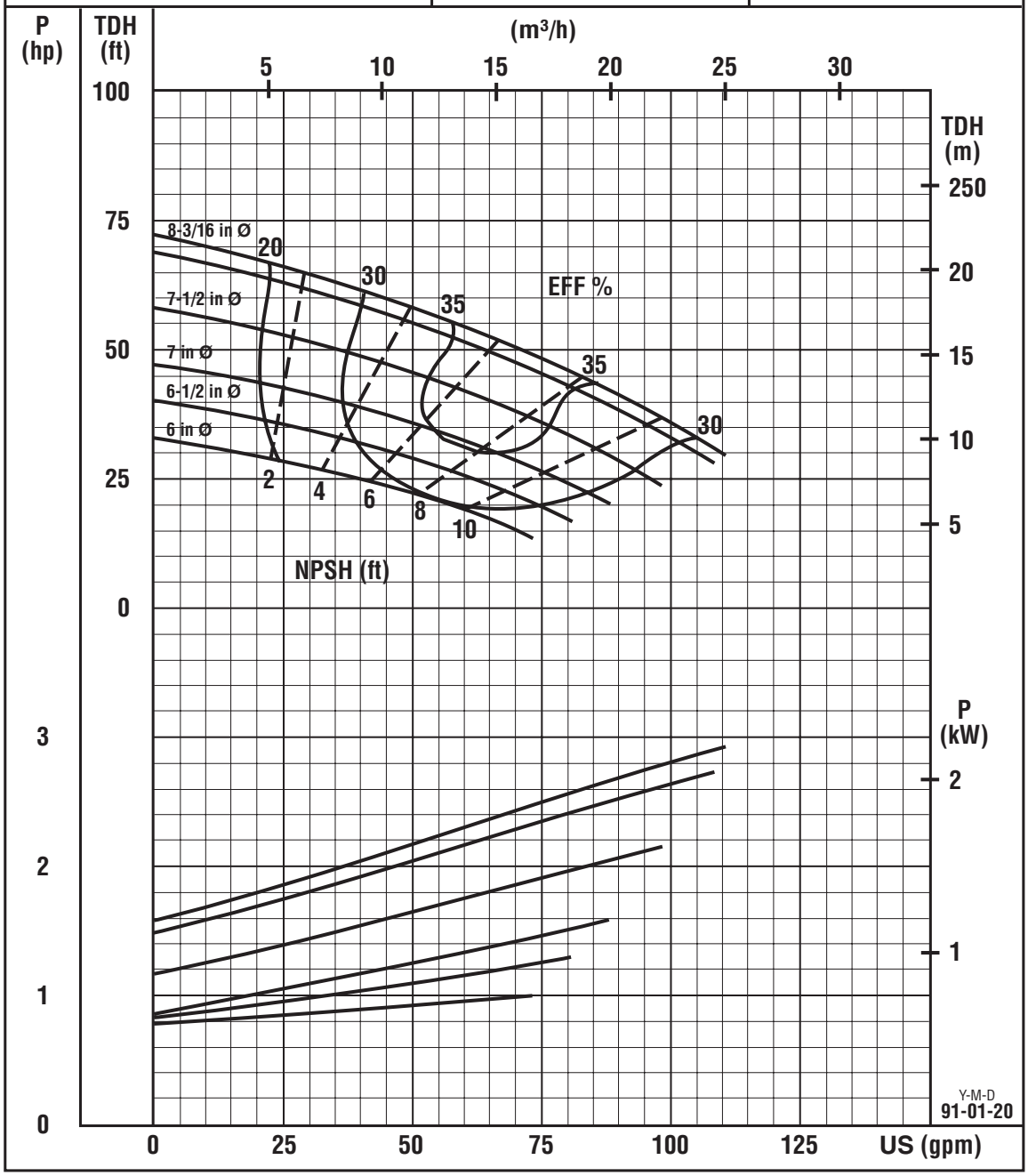
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

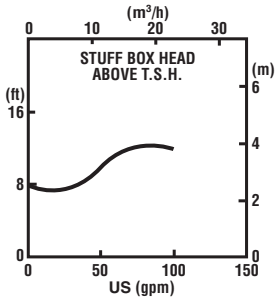
FLOWSERVE

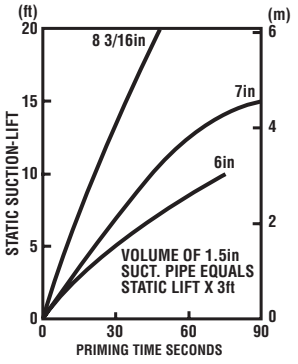
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	3.7 in²
MAX SPHERE	15/32 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	1K1-1/2X1-1/2US-82
SPEED	1750 (rpm)
CURVE NO.	7272



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





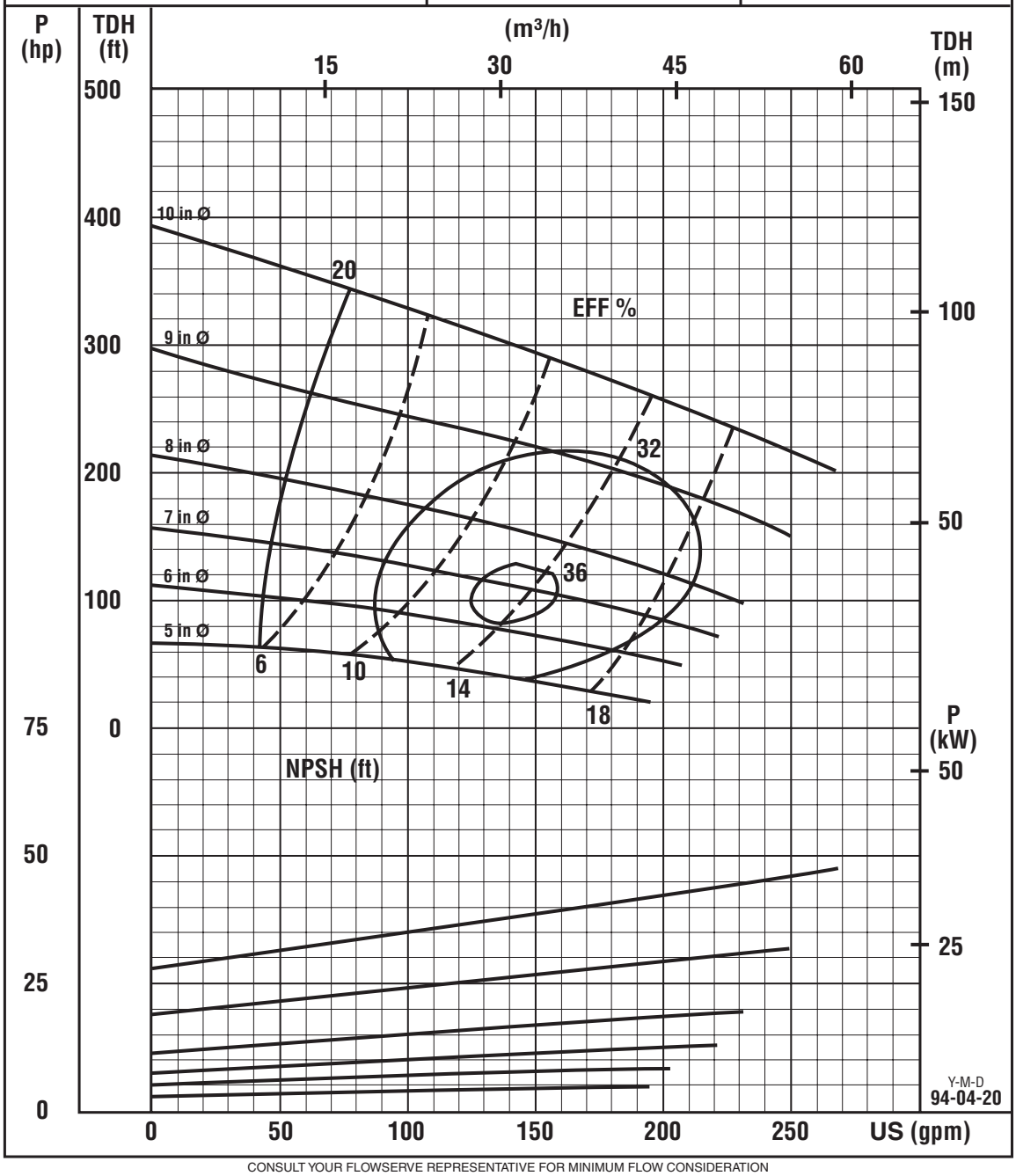
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

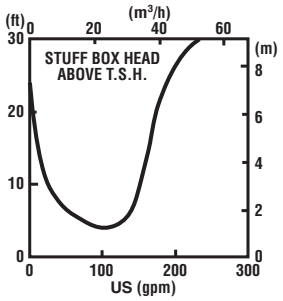
FLOWSERVE

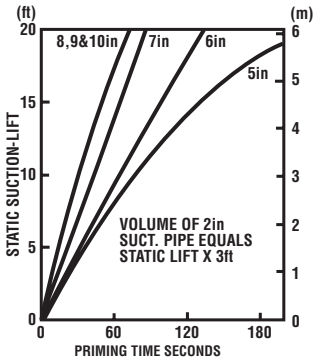
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	4.1 in²
MAX SPHERE	5/16 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	2K2X1-1/2US-10A
SPEED	3500 (rpm)
CURVE NO.	8065V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





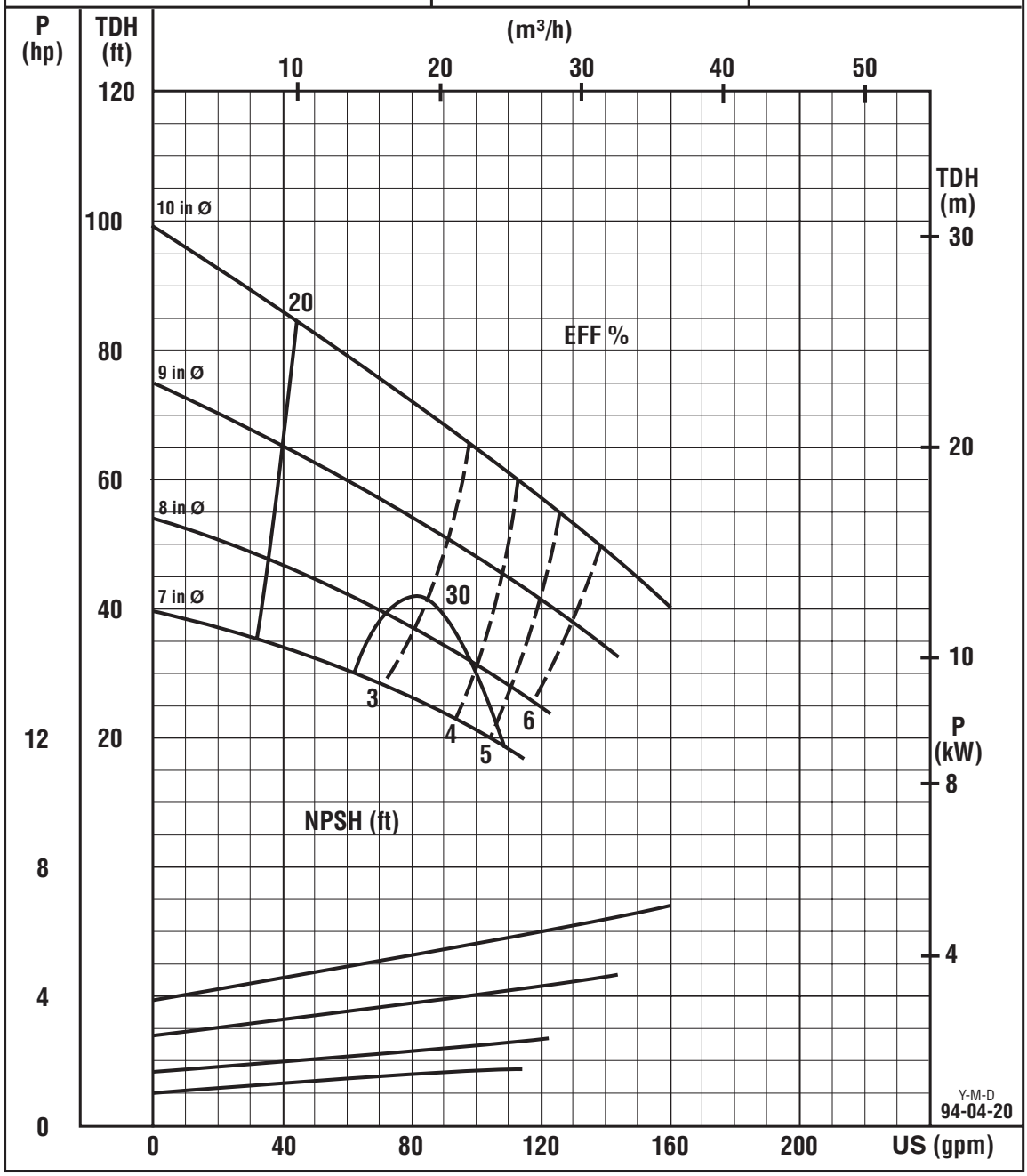
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

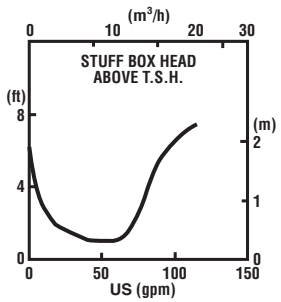
FLOWSERVE

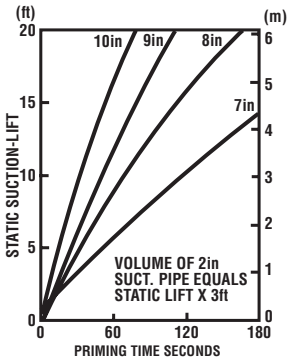
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	4.1 in²
MAX SPHERE	5/16 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	2K2X1-1/2US-10A
SPEED	1750 (rpm)
CURVE NO.	8067V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





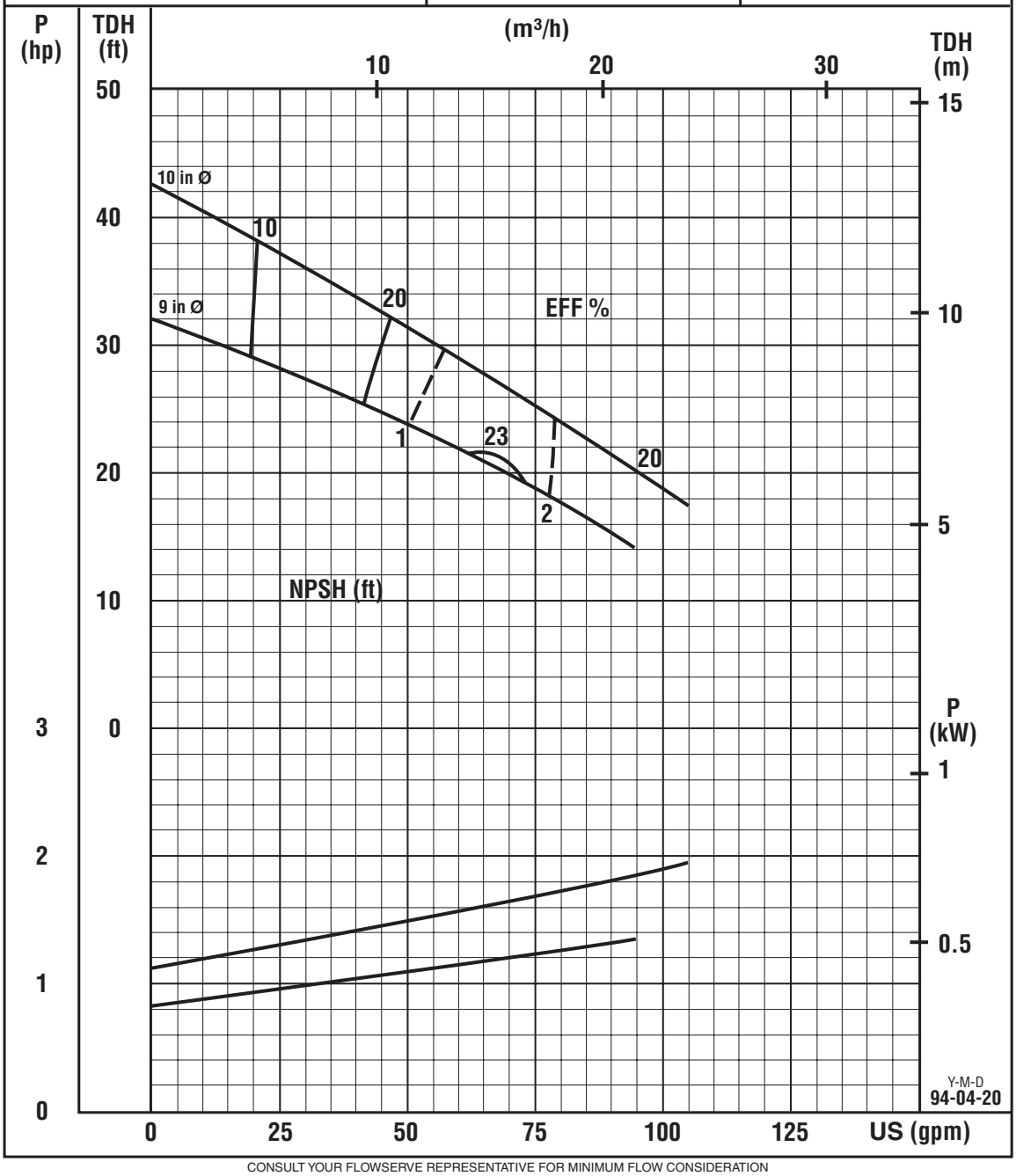
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

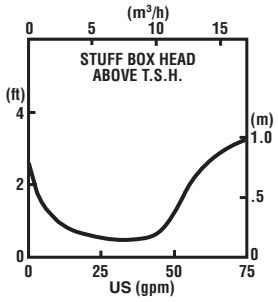
FLOWSERVE

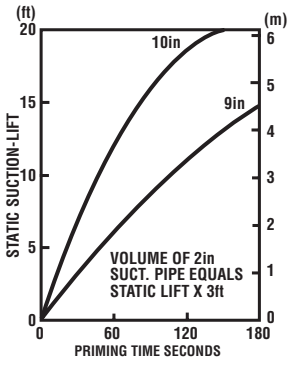
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	4.1 in²
MAX SPHERE	5/16 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	2K2X1-1/2US-10A
SPEED	1150 (rpm)
CURVE NO.	8069V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





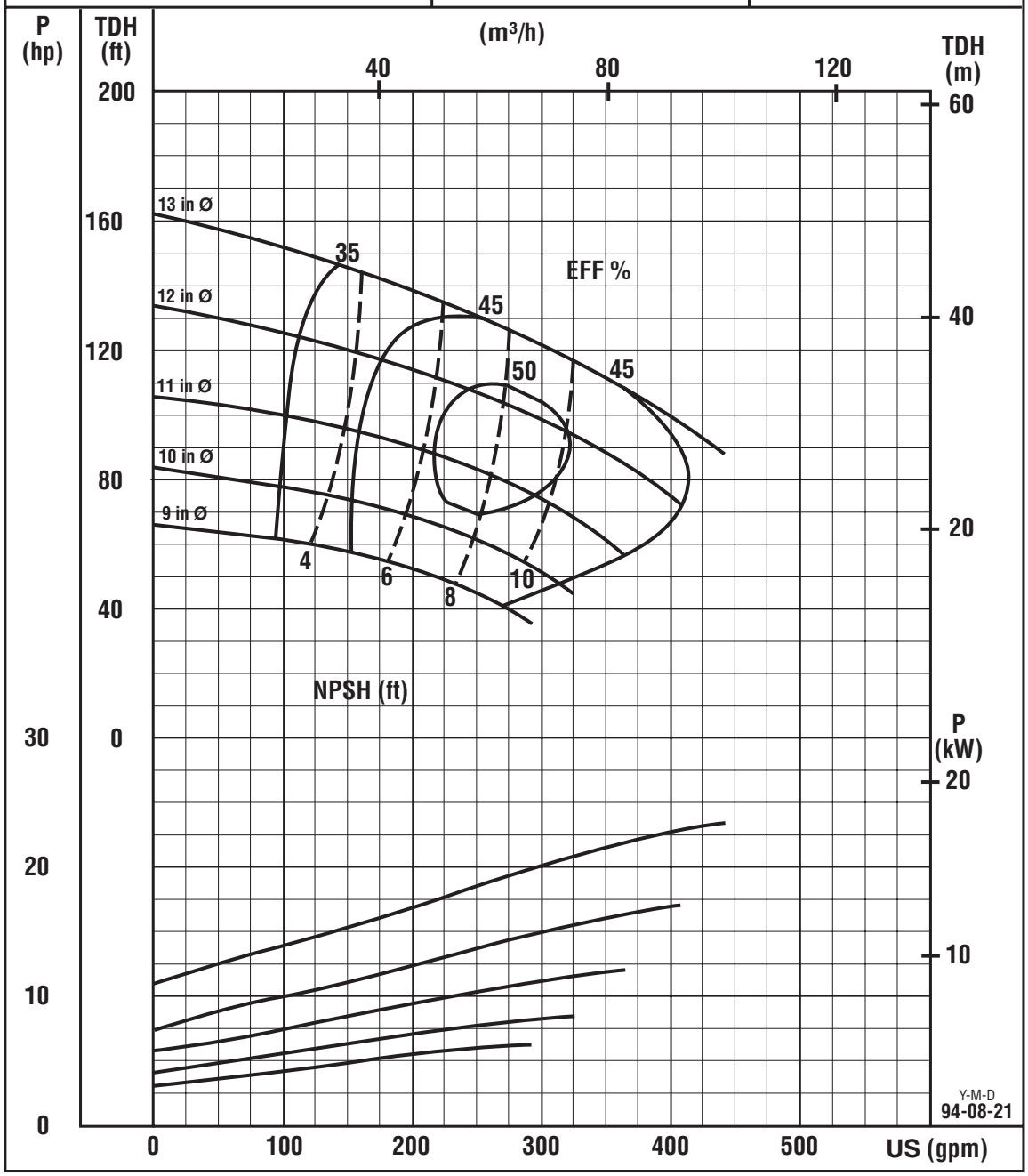
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

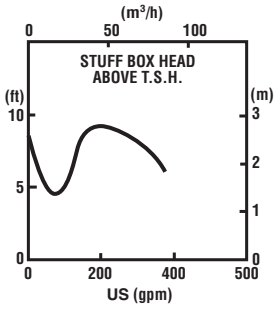
FLOWSERVE

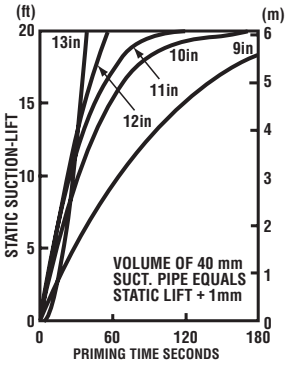
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	7.9 in²	DURCO Mark III	2K3X2US-13
MAX SPHERE	13/32 in	SPEED	1750 (rpm)
IMPELLER	OPEN STD-N/A	CURVE NO.	7463V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





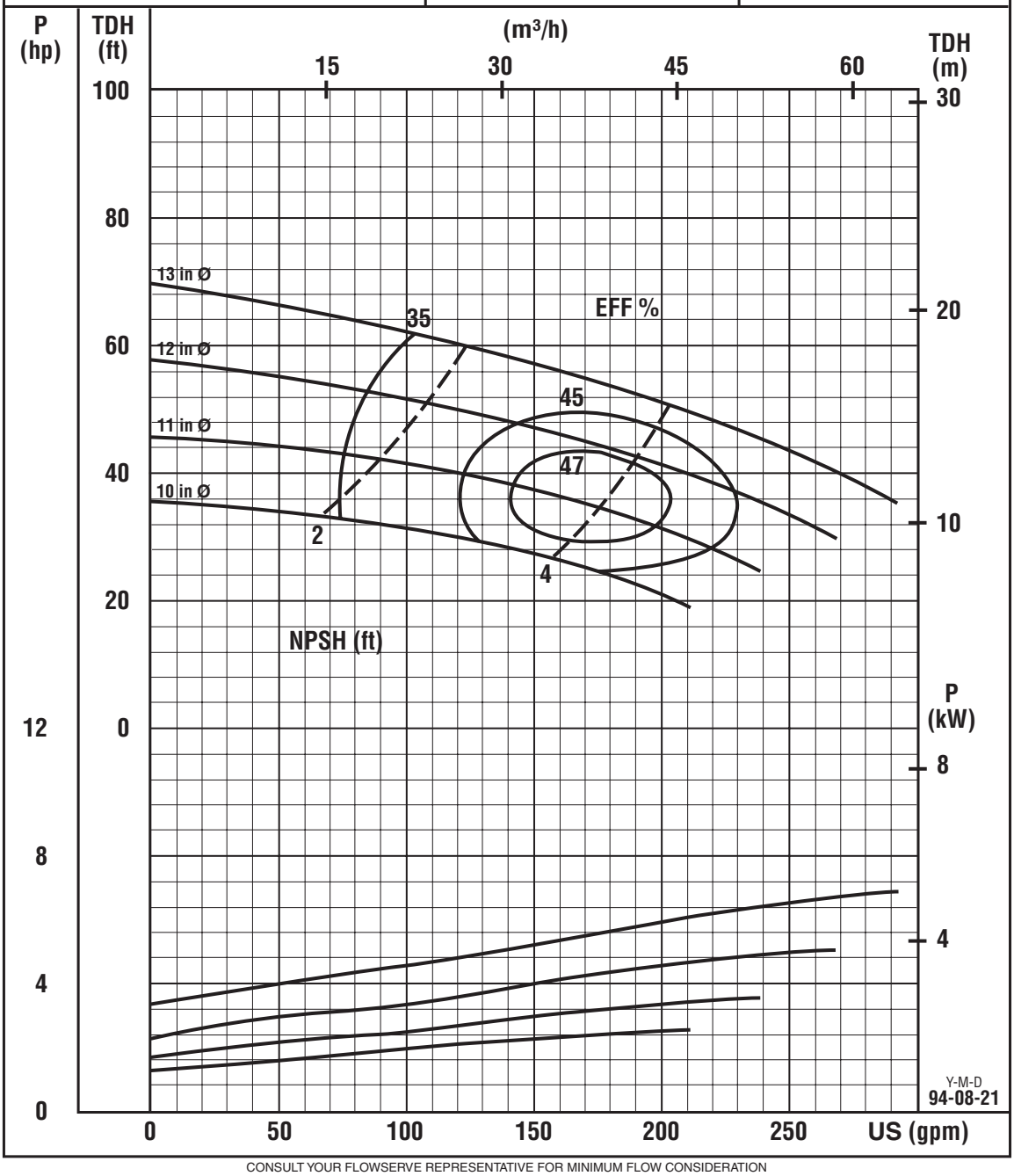
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

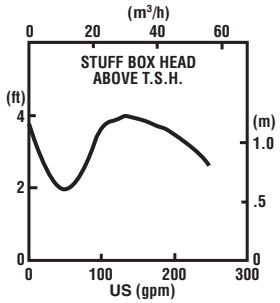
FLOWSERVE

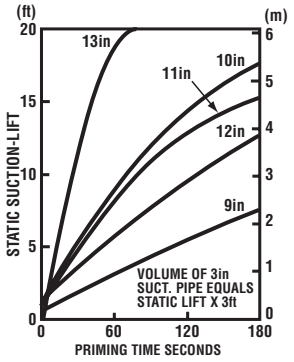
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	7.9 in²	DURCO Mark III	2K3X2US-13
MAX SPHERE	13/32 in	SPEED	1150 (rpm)
IMPELLER	OPEN STD-N/A	CURVE NO.	7465V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





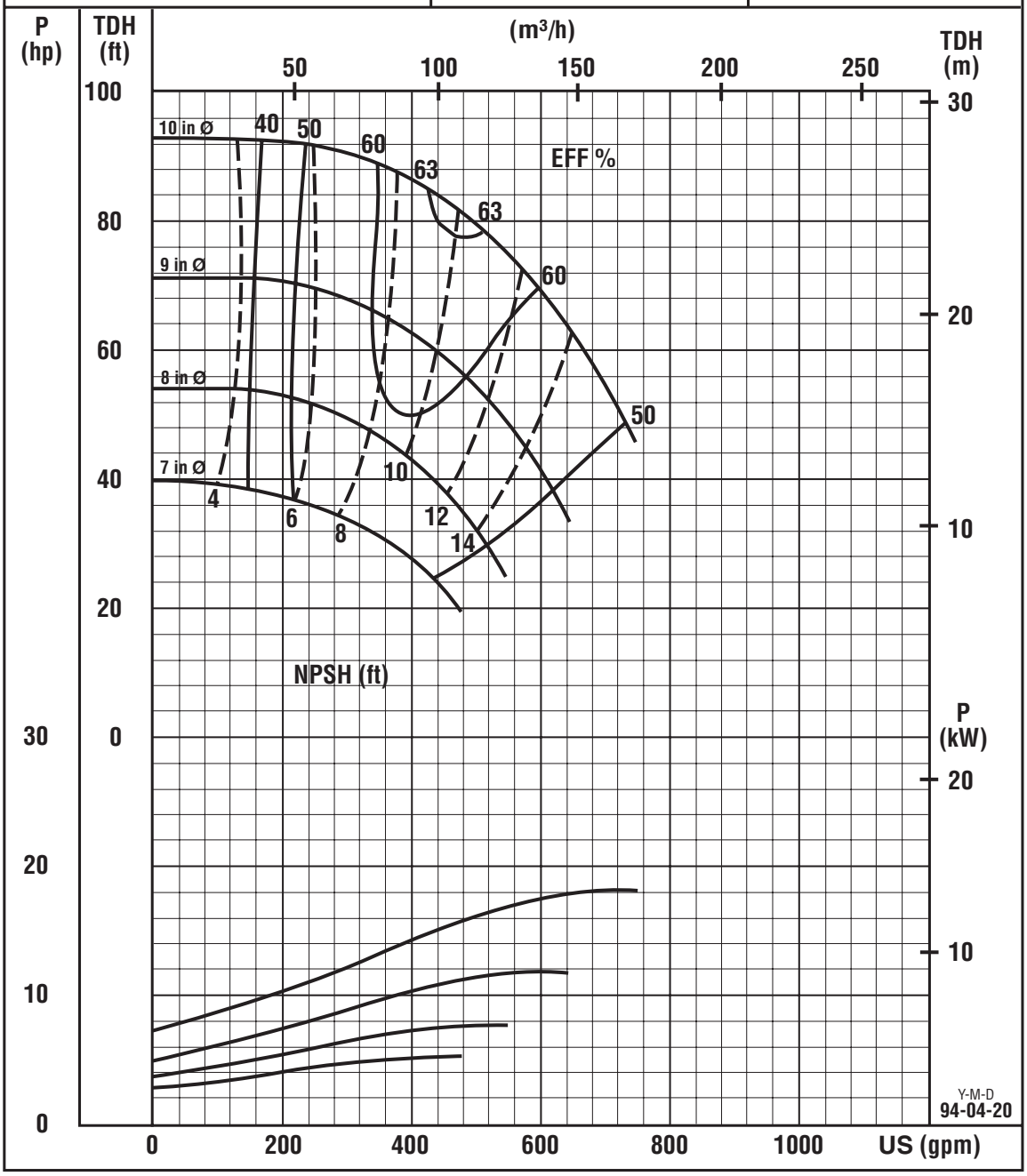
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

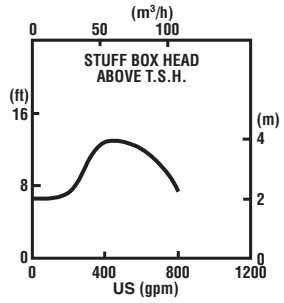
FLOWSERVE

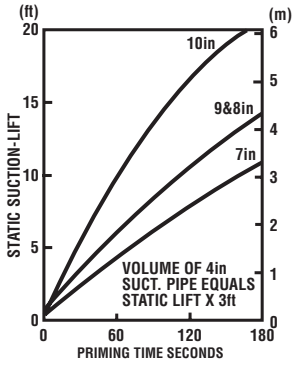
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	10.3 in²
MAX SPHERE	11/16 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	2K4X3US-10H
SPEED	1750 (rpm)
CURVE NO.	7663V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





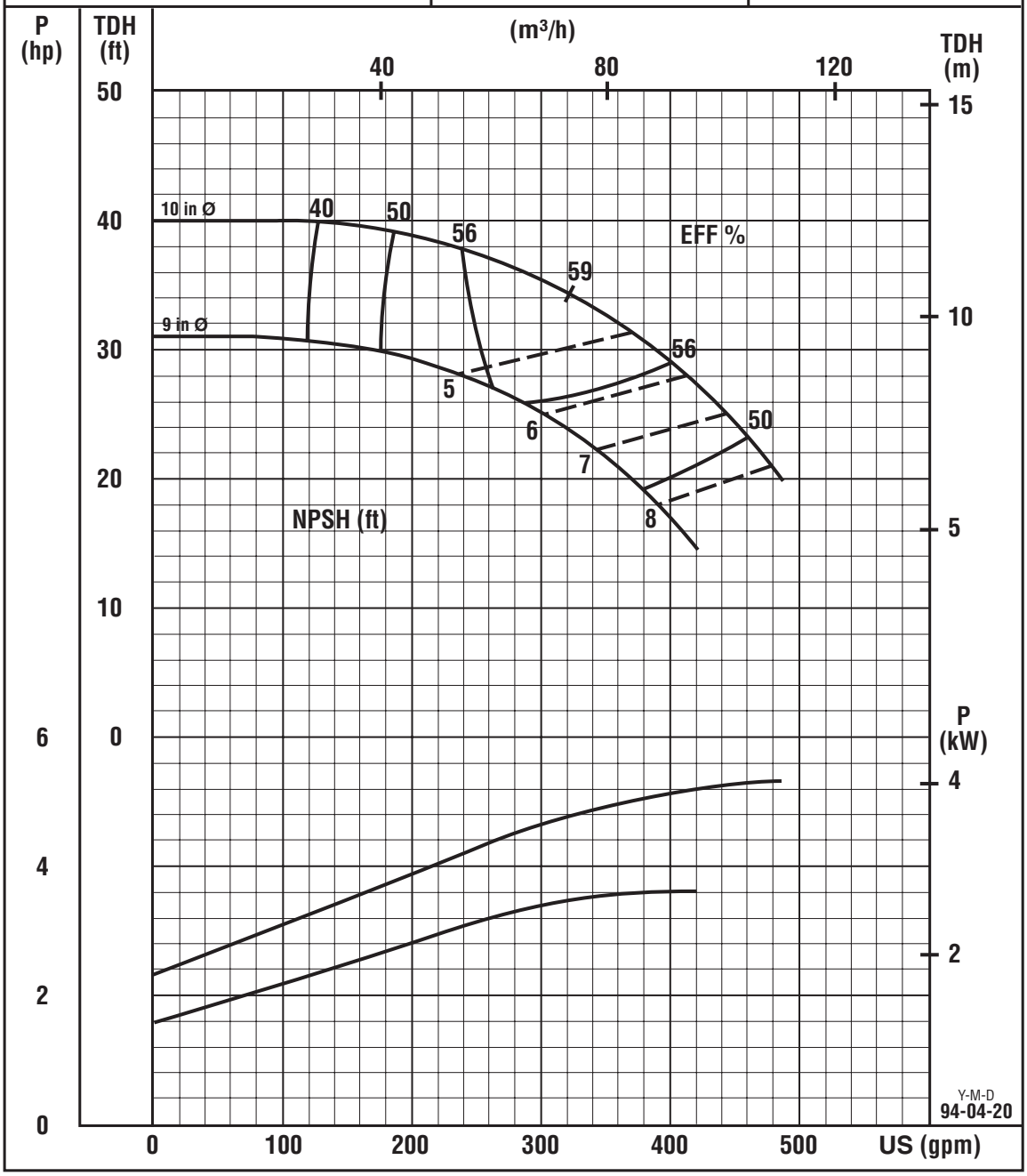
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

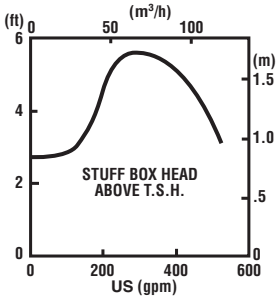
EYE AREA	10.3 in²
MAX SPHERE	11/16 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	2K4X3US-10H
SPEED	1150 (rpm)
CURVE NO.	7665V

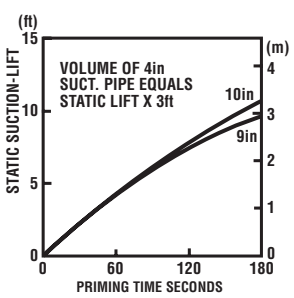


CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION

TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

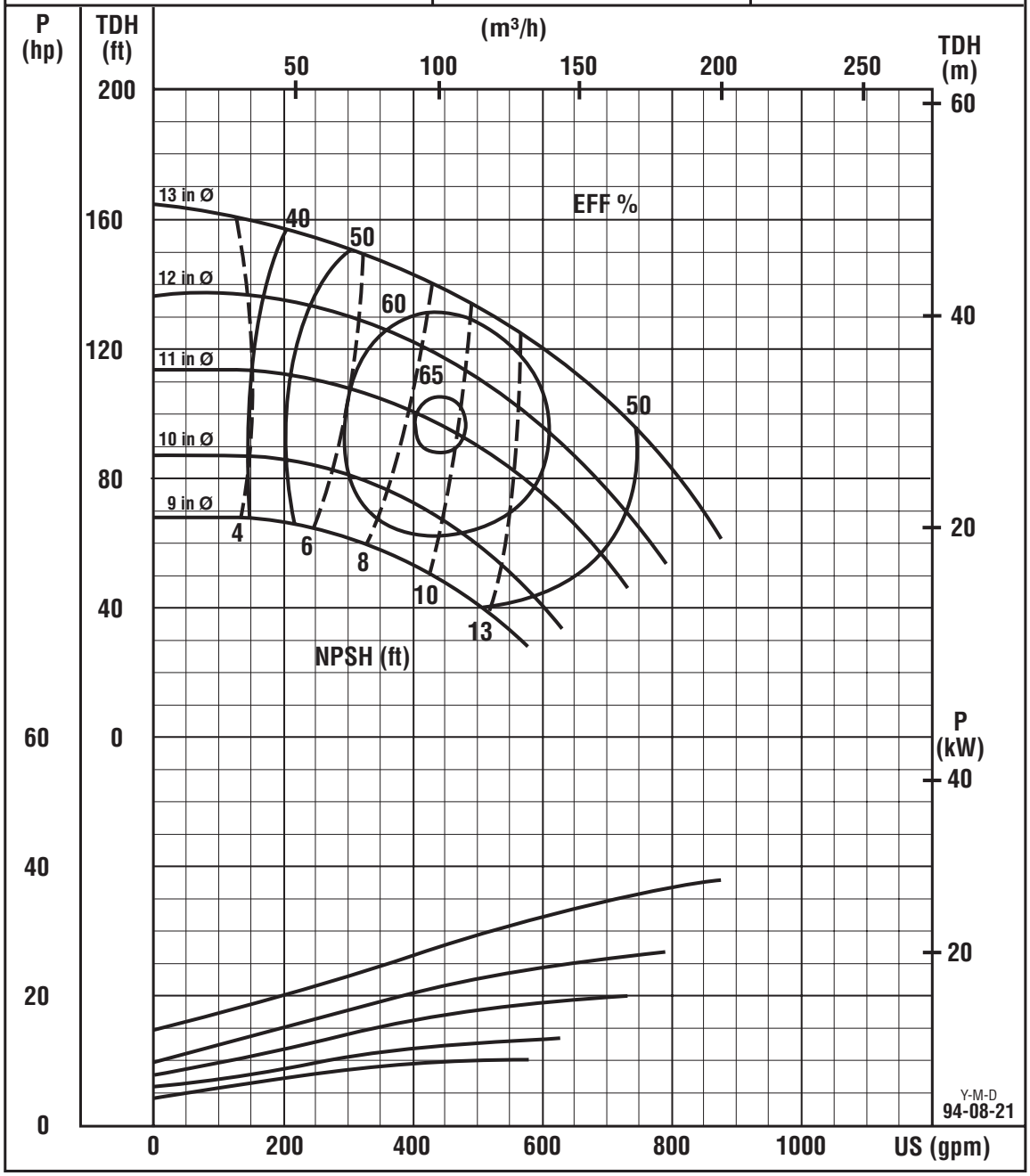




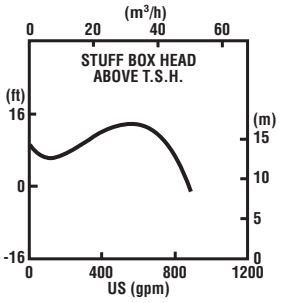
FLOWSERVE

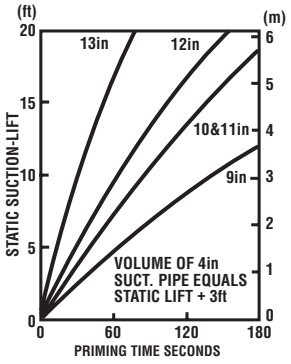
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	12.5 in²
MAX SPHERE	11/16 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	2K4X3US-13
SPEED	1750 (rpm)
CURVE NO.	7563V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





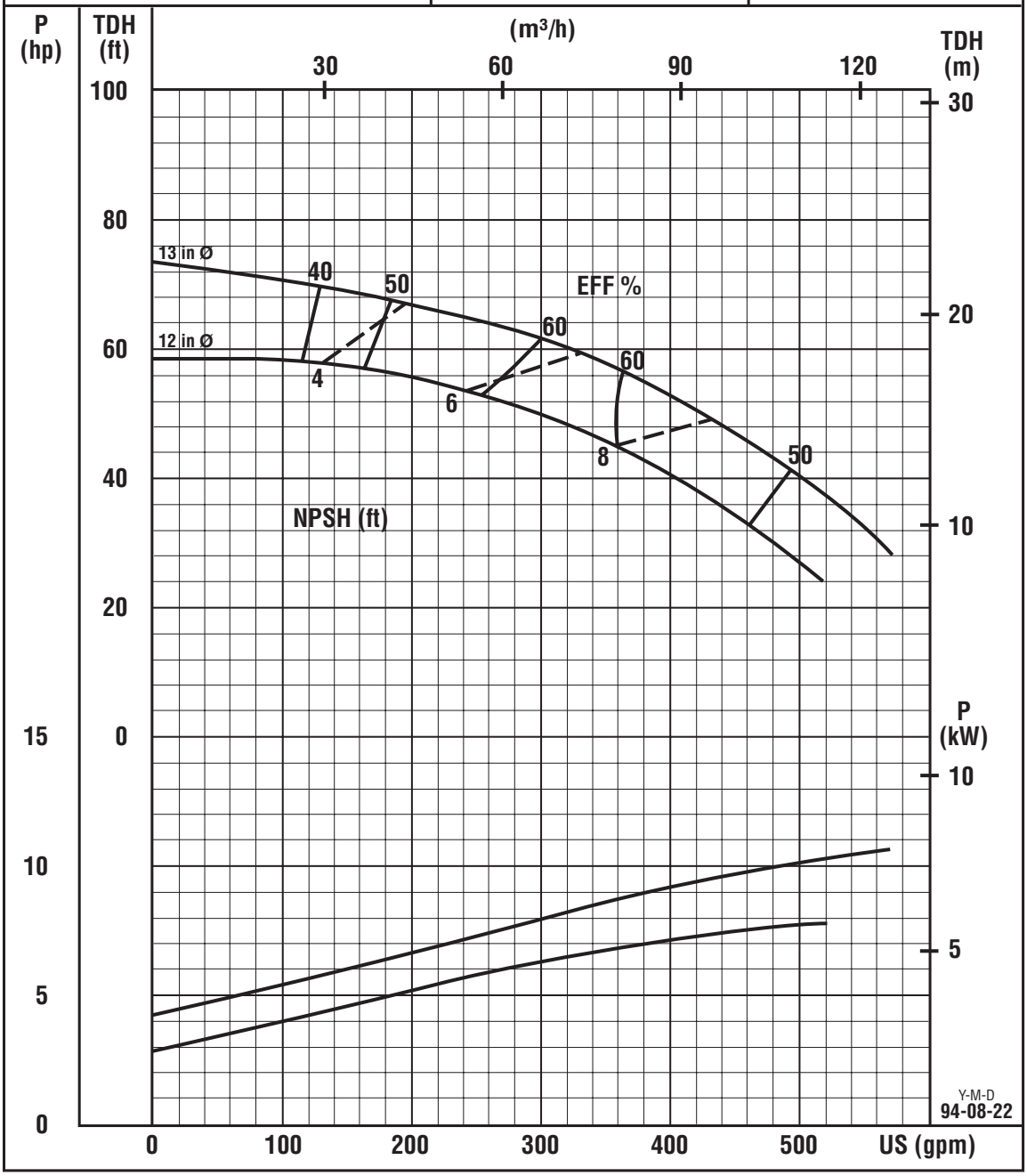
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

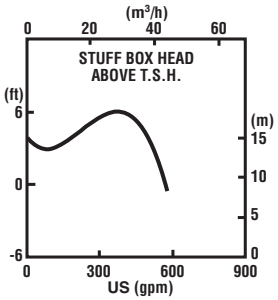
FLOWSERVE

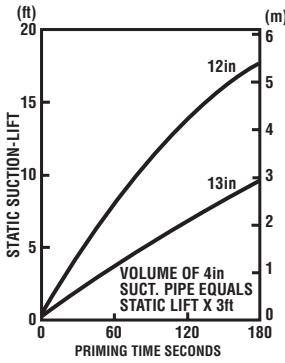
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	12.5 in²	DURCO Mark III	2K4X3US-13
MAX SPHERE	11/16 in	SPEED	1150 (rpm)
IMPELLER	OPEN STD-N/A	CURVE NO.	7565V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





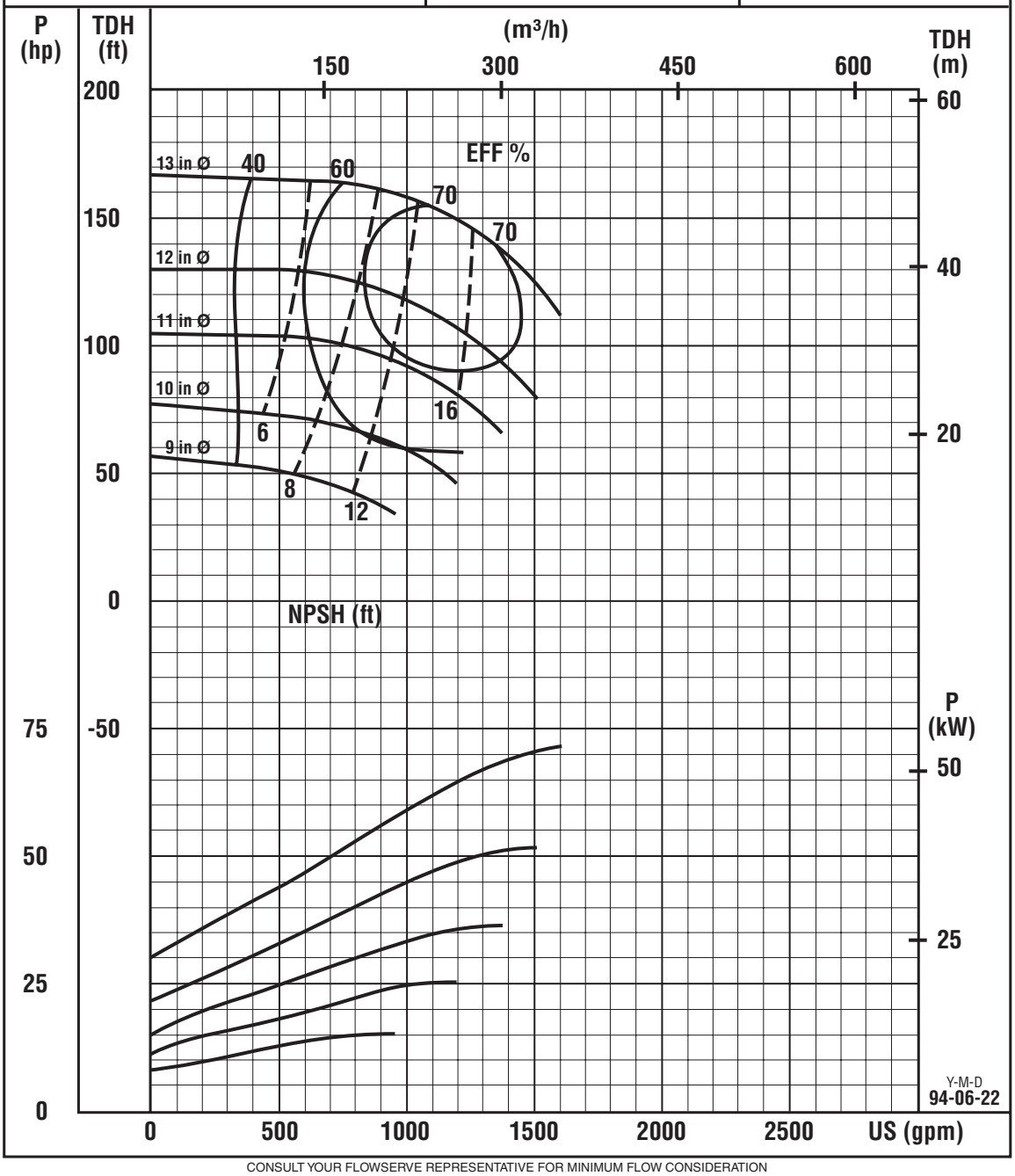
TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

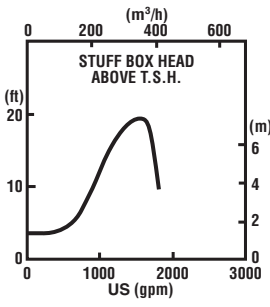
FLOWSERVE

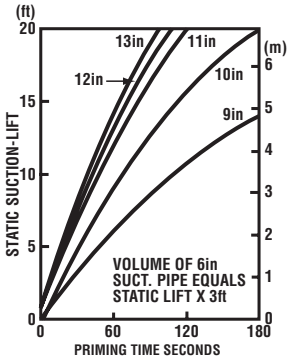
PUMP PERFORMANCE
CHARACTERISTICS

EYE AREA	29.1 in²
MAX SPHERE	1 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	2K6X4US-13A
SPEED	1750 (rpm)
CURVE NO.	8163V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





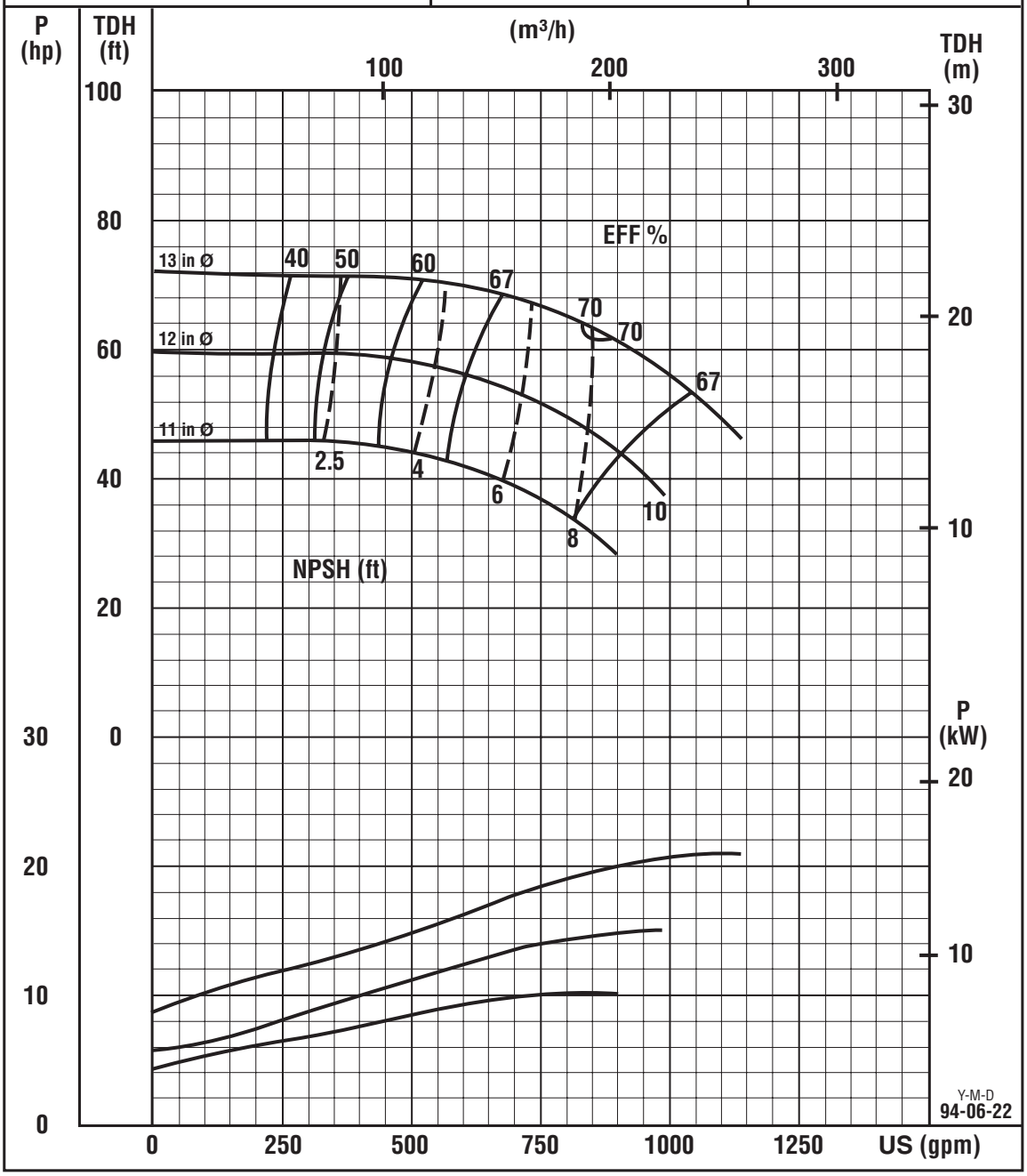
TO CALCULATE EXACT
EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$

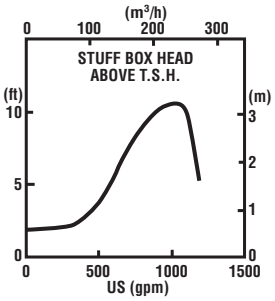
FLOWSERVE

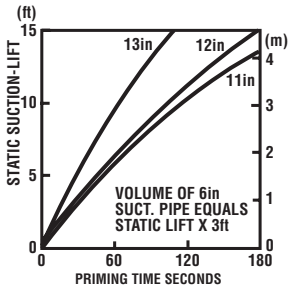
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	29.1 in²
MAX SPHERE	1 in
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	2K6X4US-13A
SPEED	1150 (rpm)
CURVE NO.	8165V



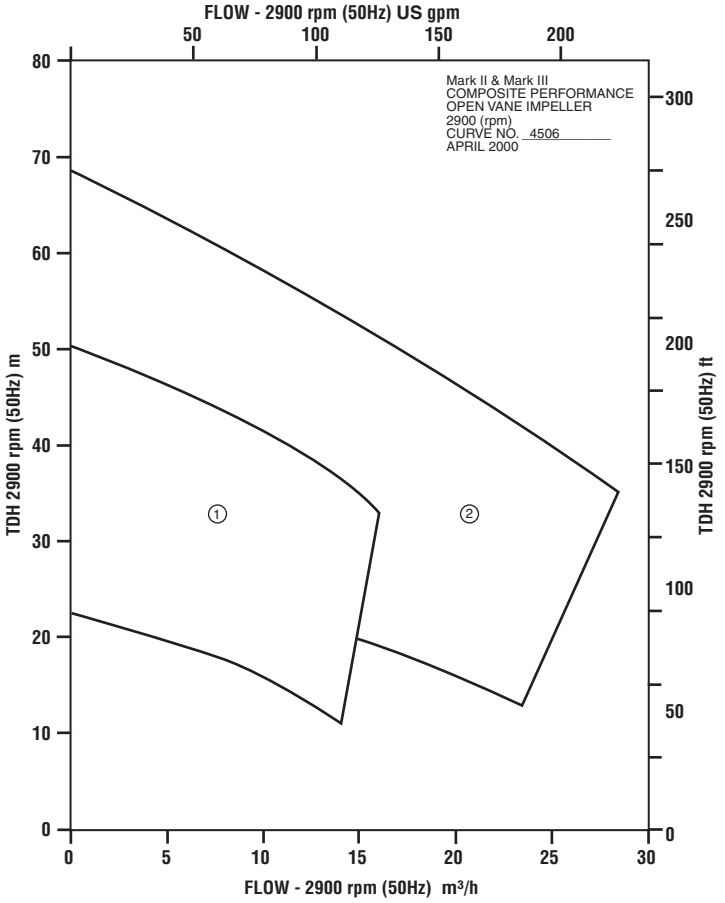
CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION



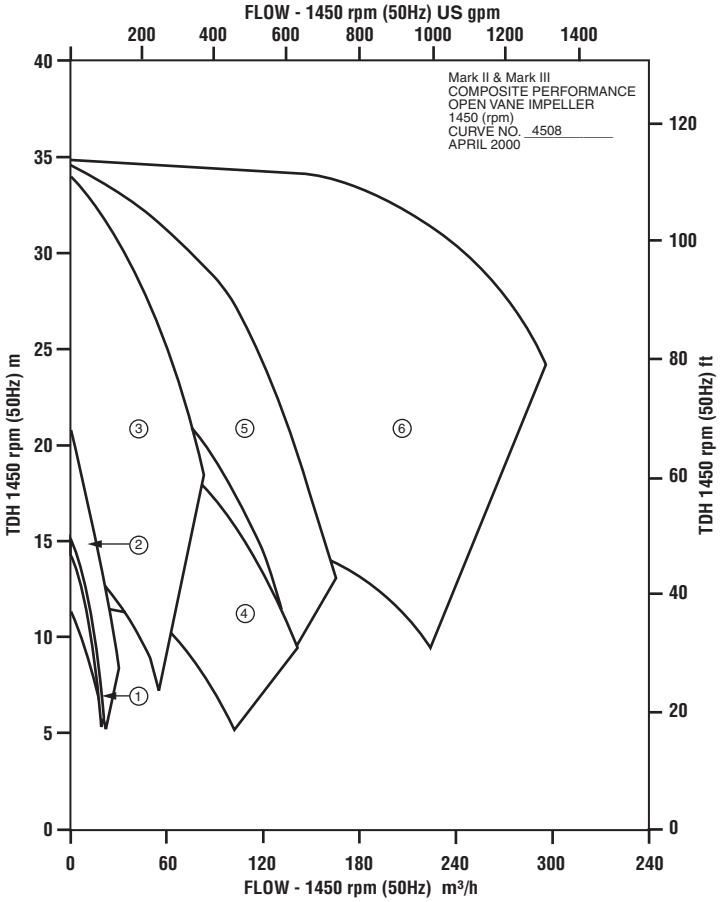


TO CALCULATE EXACT EFFICIENCY USE THE FOLLOWING

$$\% \text{ EFF} = \frac{\text{TDH X GPM}}{\text{HP X 3960}} \text{ X } 100$$



① 1K1-1/2X1-1/2US-82
② 2K2X1-1/2US-10A

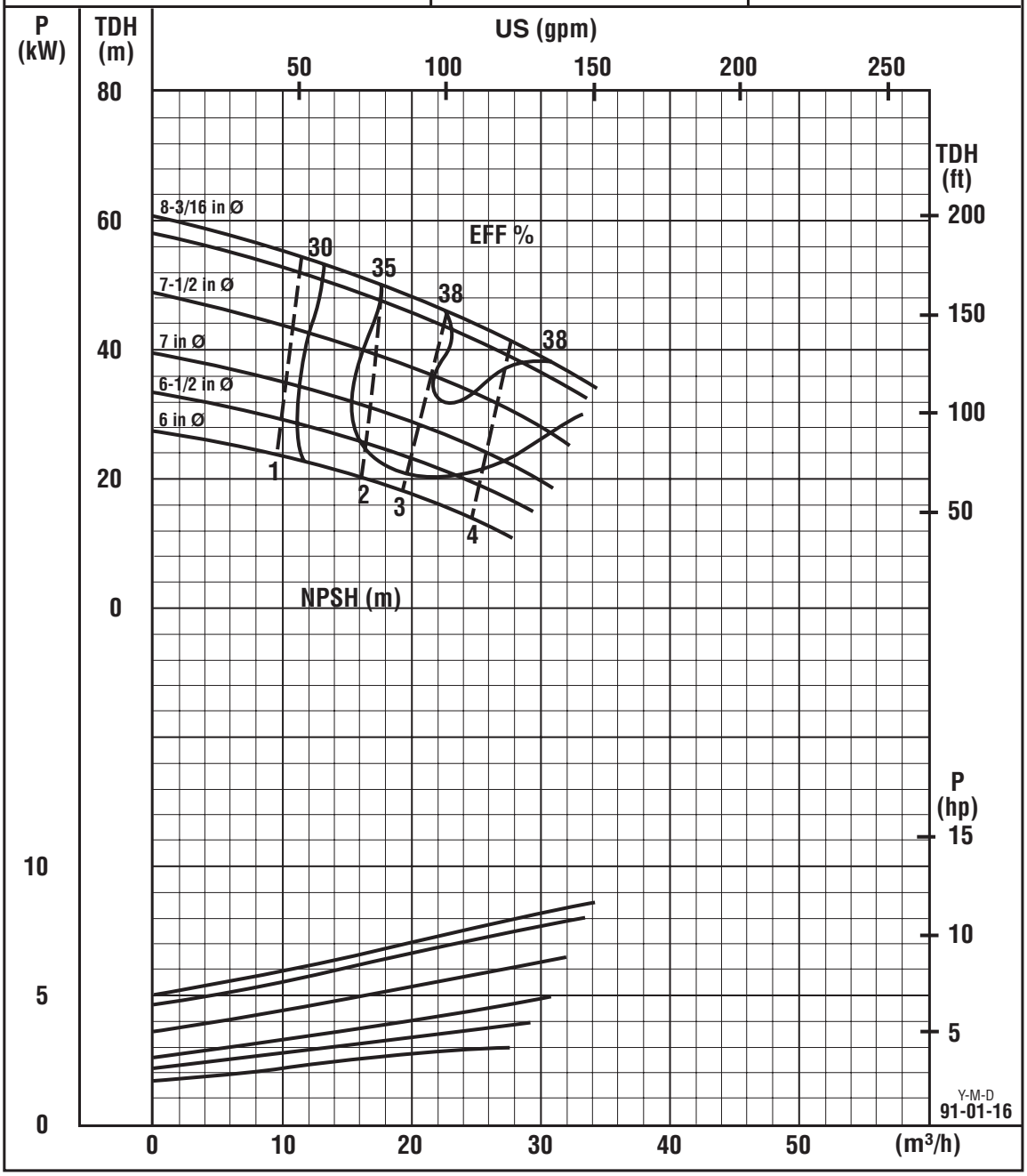


① 1K1-1/2X1-1/2US-82
② 2K2X1-1/2US-10A
③ 2K3X2US-13
④ 2K4X3US-10H
⑤ 2K4X3US-13
⑥ 2K6X4US-13A

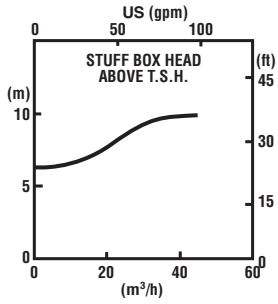
FLOWSERVE

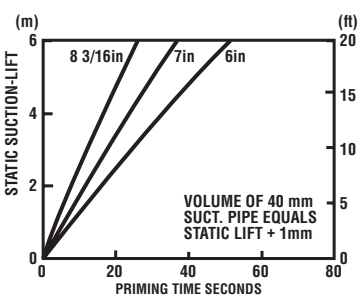
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	23.8 cm²
MAX SPHERE	11/9 mm
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	1K1-1/2X1-1/2US-82
SPEED	2900 (rpm)
CURVE NO.	7271



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





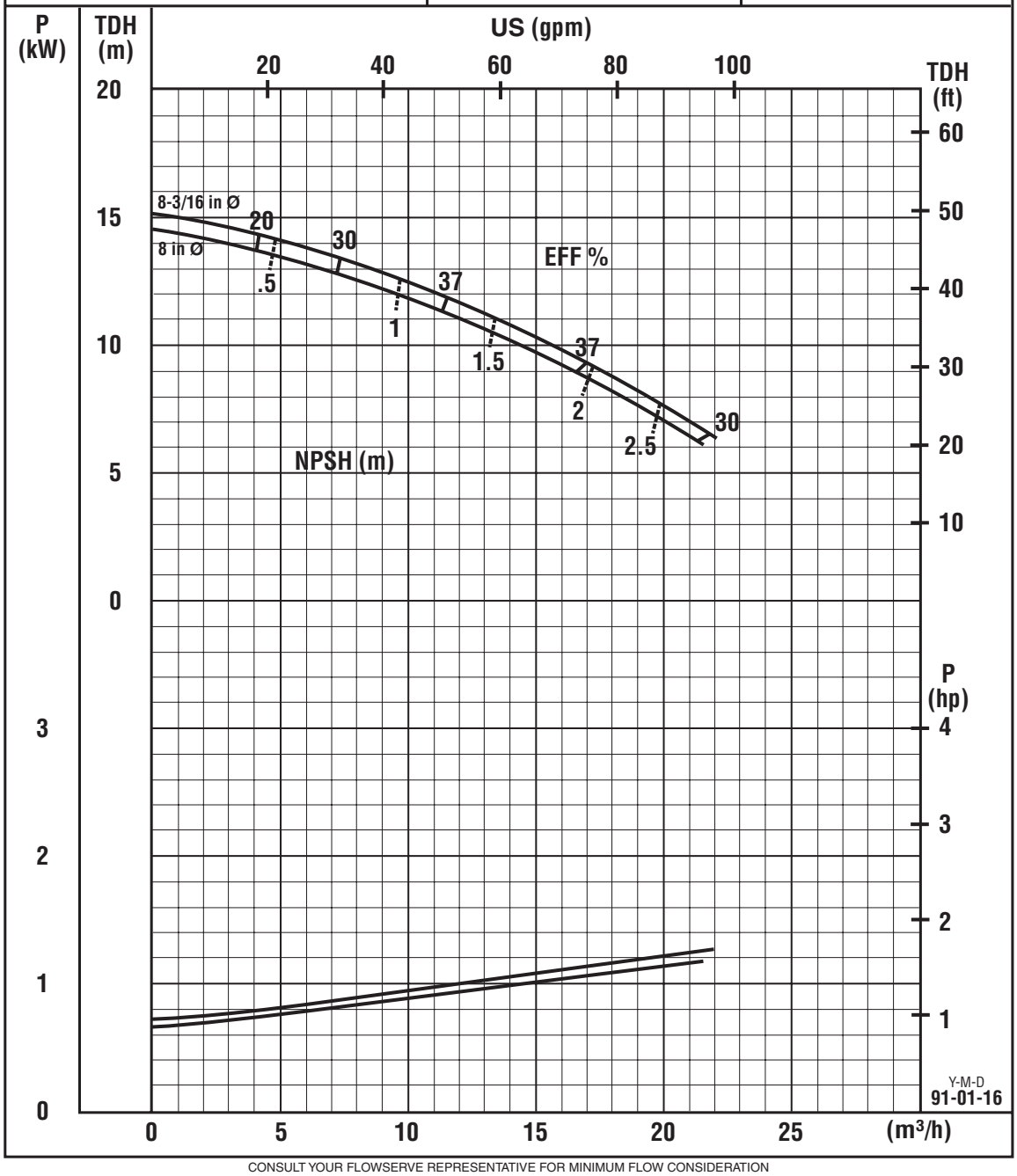
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

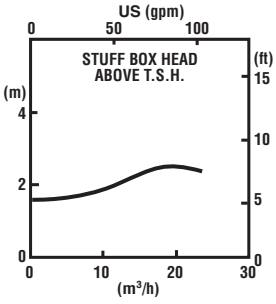
FLOWSERVE

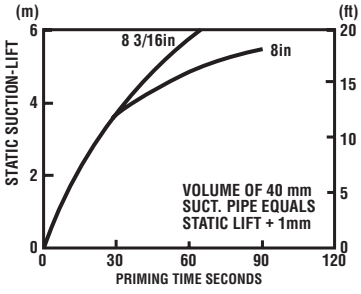
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	23.8 cm²
MAX SPHERE	11/9 mm
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	1K1-1/2X1-1/2US-82
SPEED	1450 (rpm)
CURVE NO.	7273



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





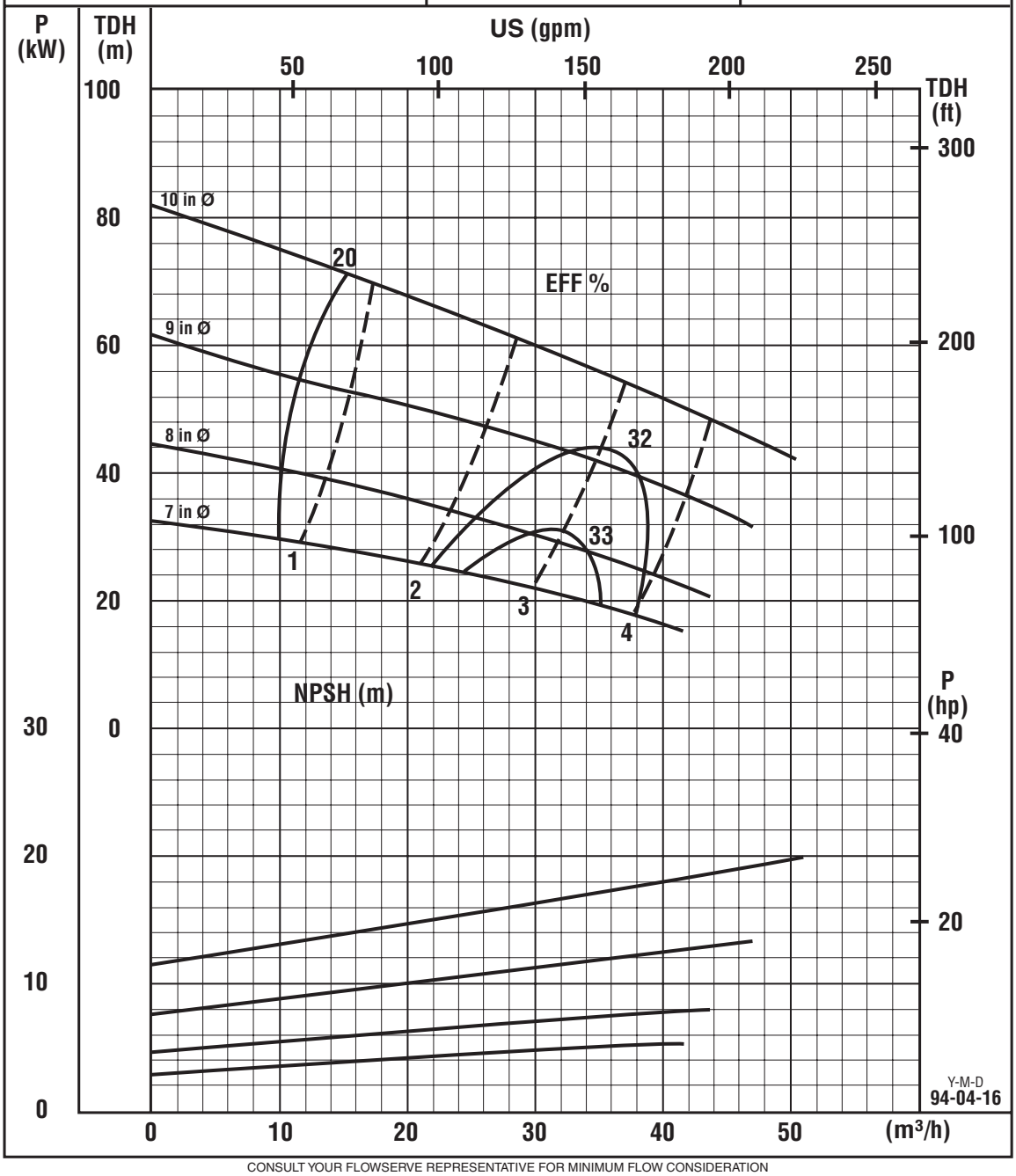
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

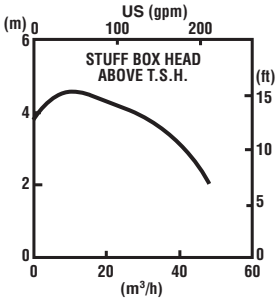
FLOWSERVE

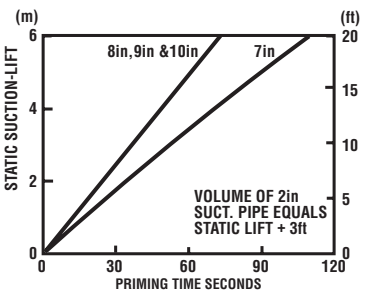
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	26.5 cm²
MAX SPHERE	7/9 mm
IMPELLER	OPEN
	STD-N/A
DURCO Mark III	2K2X1-1/2US-10A
SPEED	2900 (rpm)
CURVE NO.	8066V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

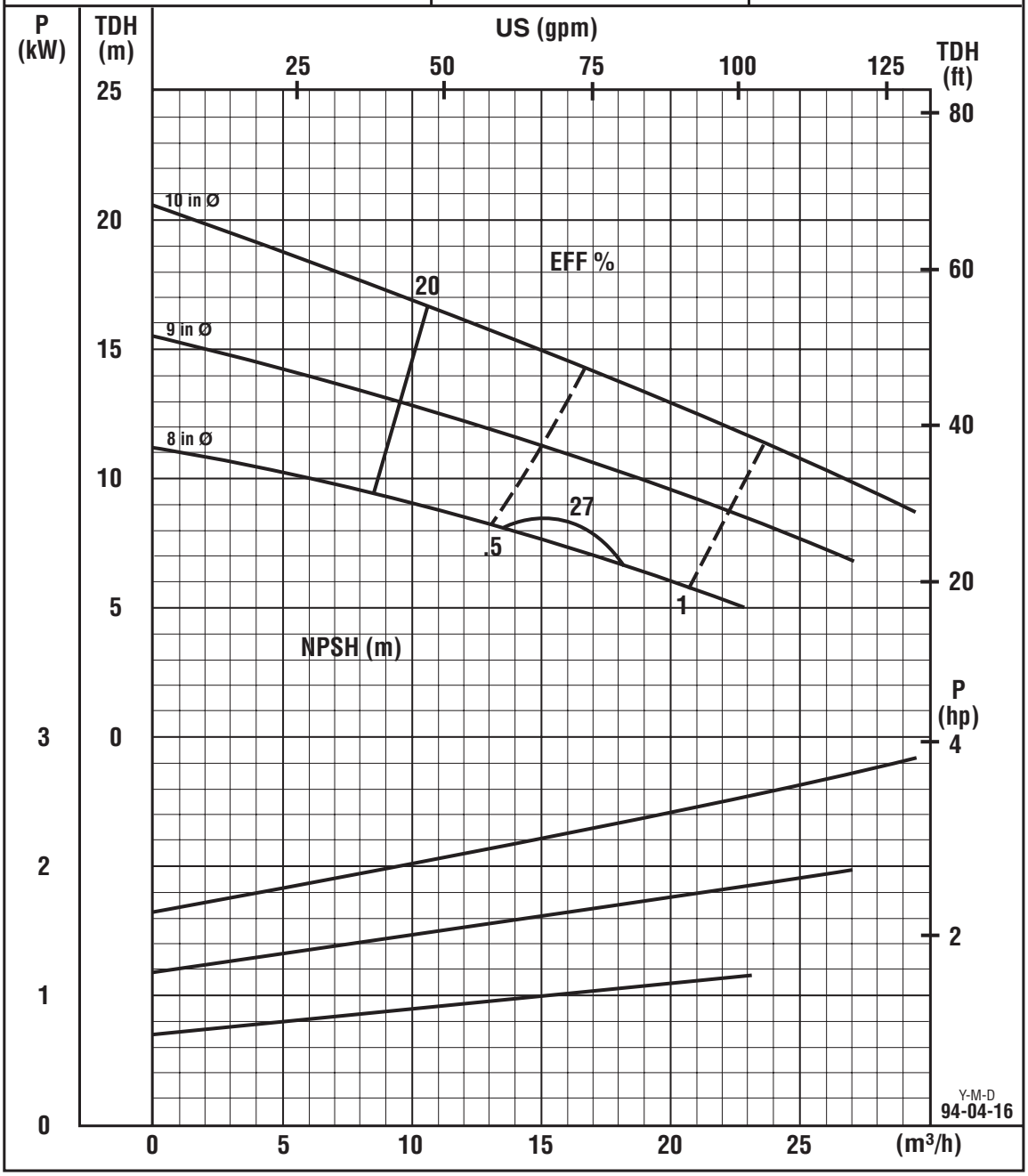
EYE AREA	26.5 cm²
MAX SPHERE	7/9 mm
IMPELLER	OPEN
	STD-N/A

DURCO Mark III

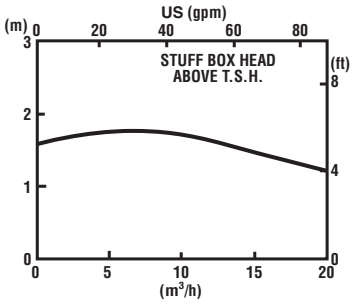
2K2X1-1/2US-10A

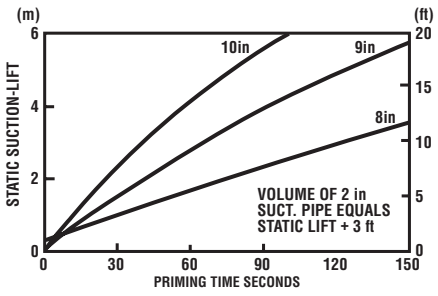
SPEED 1450 (rpm)

CURVE NO. 8068V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





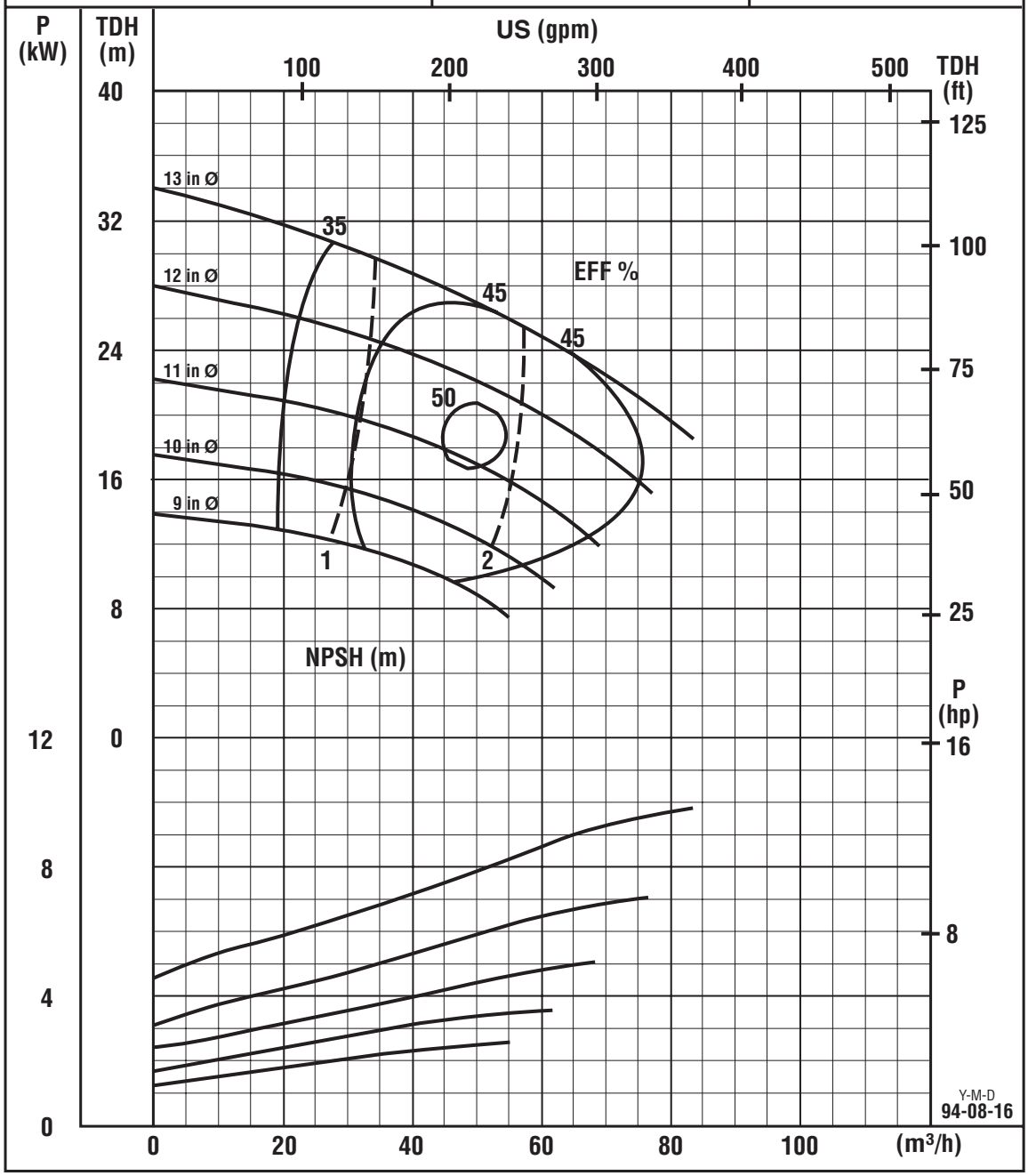
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

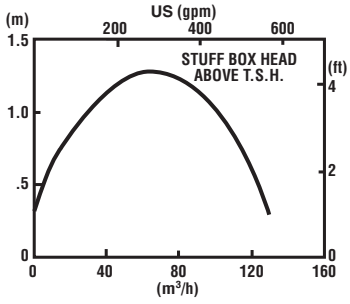
FLOWSERVE

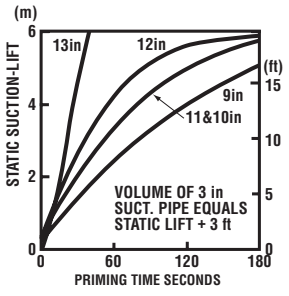
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	51 cm²	DURCO Mark III	2K3X2US-13
MAX SPHERE	10.3 mm	SPEED	1450 (rpm)
IMPELLER	OPEN STD-N/A	CURVE NO.	7464V



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





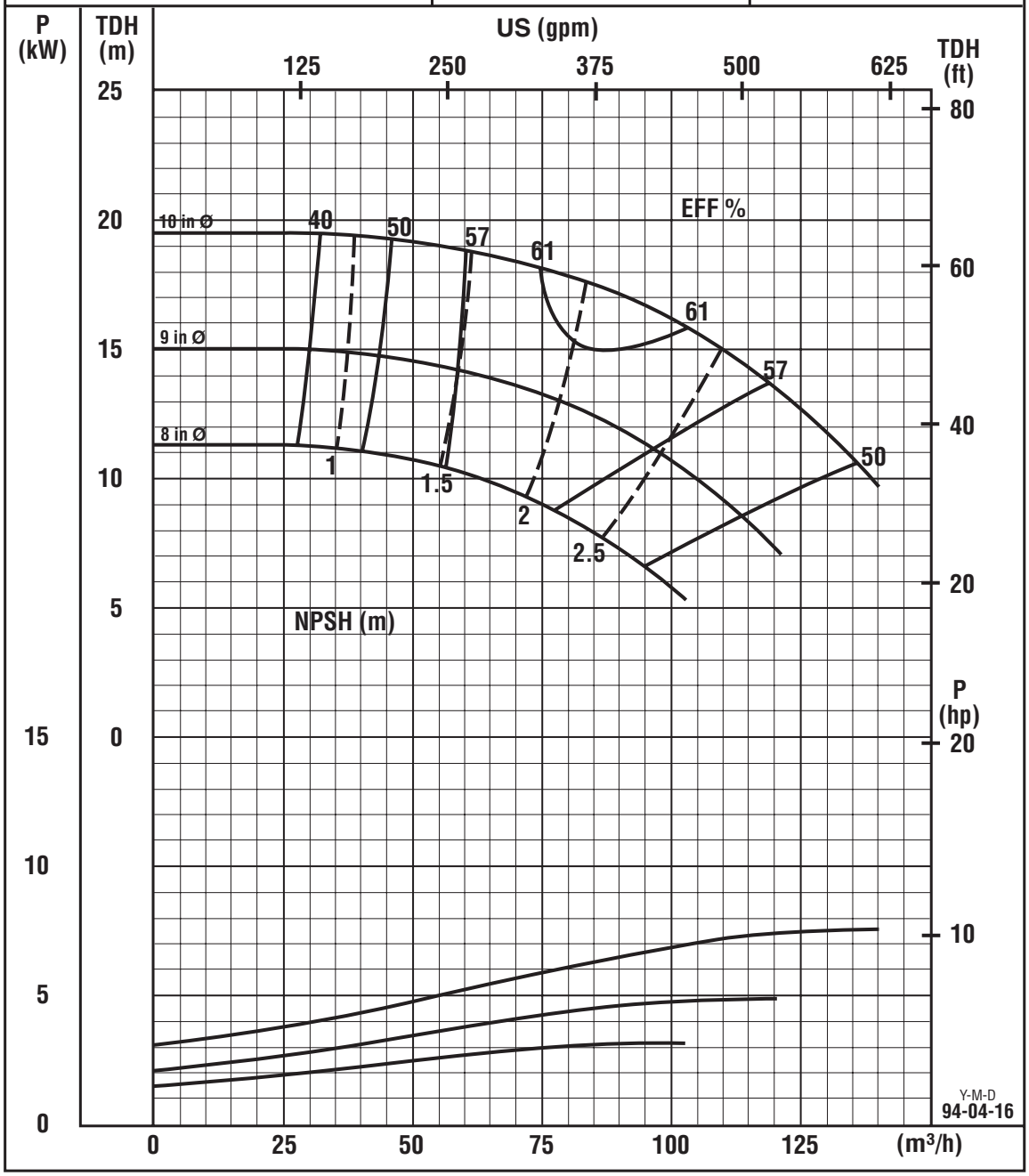
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

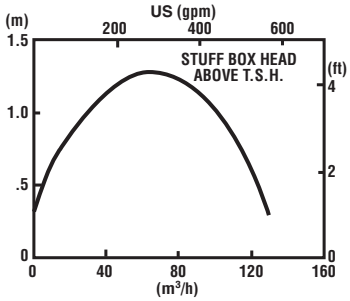
FLOWSERVE

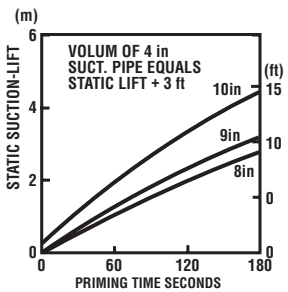
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	66.5 cm²	DURCO Mark III	2K4X3US-10H
MAX SPHERE	17/5 mm	SPEED	1450 (rpm)
IMPELLER	OPEN	CURVE NO.	7664V
	STD-N/A		



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





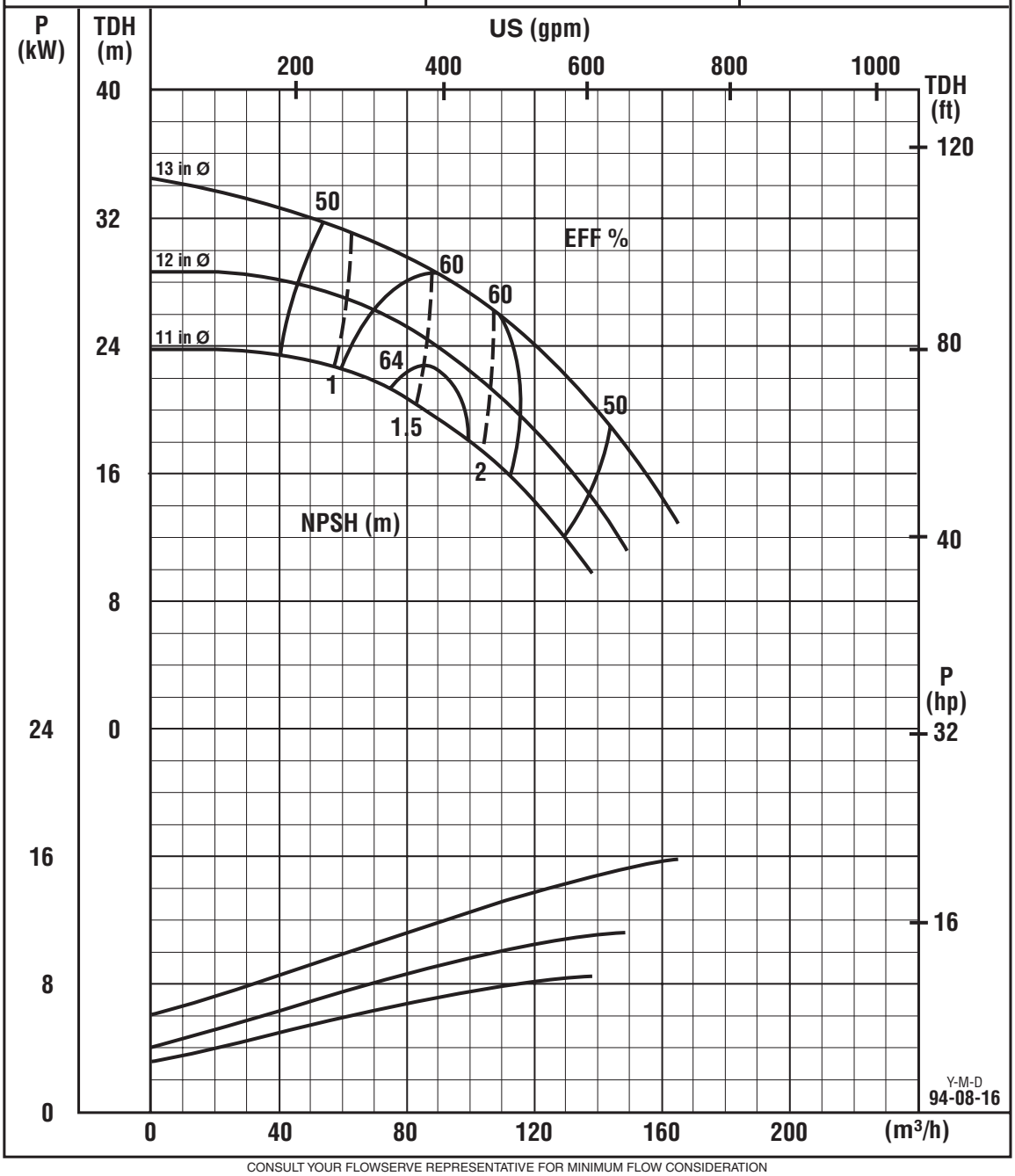
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

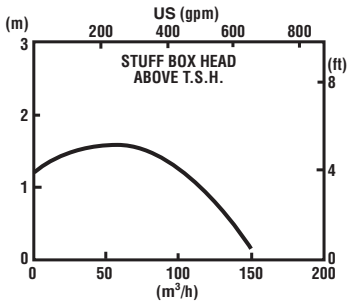
FLOWSERVE

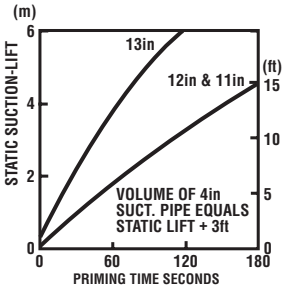
PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	80.6 cm²	DURCO Mark III	2K4X3US-13
MAX SPHERE	17.5 mm	SPEED	1450 (rpm)
IMPELLER	OPEN	CURVE NO.	7564V
	STD-N/A		



CONSULT YOUR FLOWSERVE REPRESENTATIVE FOR MINIMUM FLOW CONSIDERATION





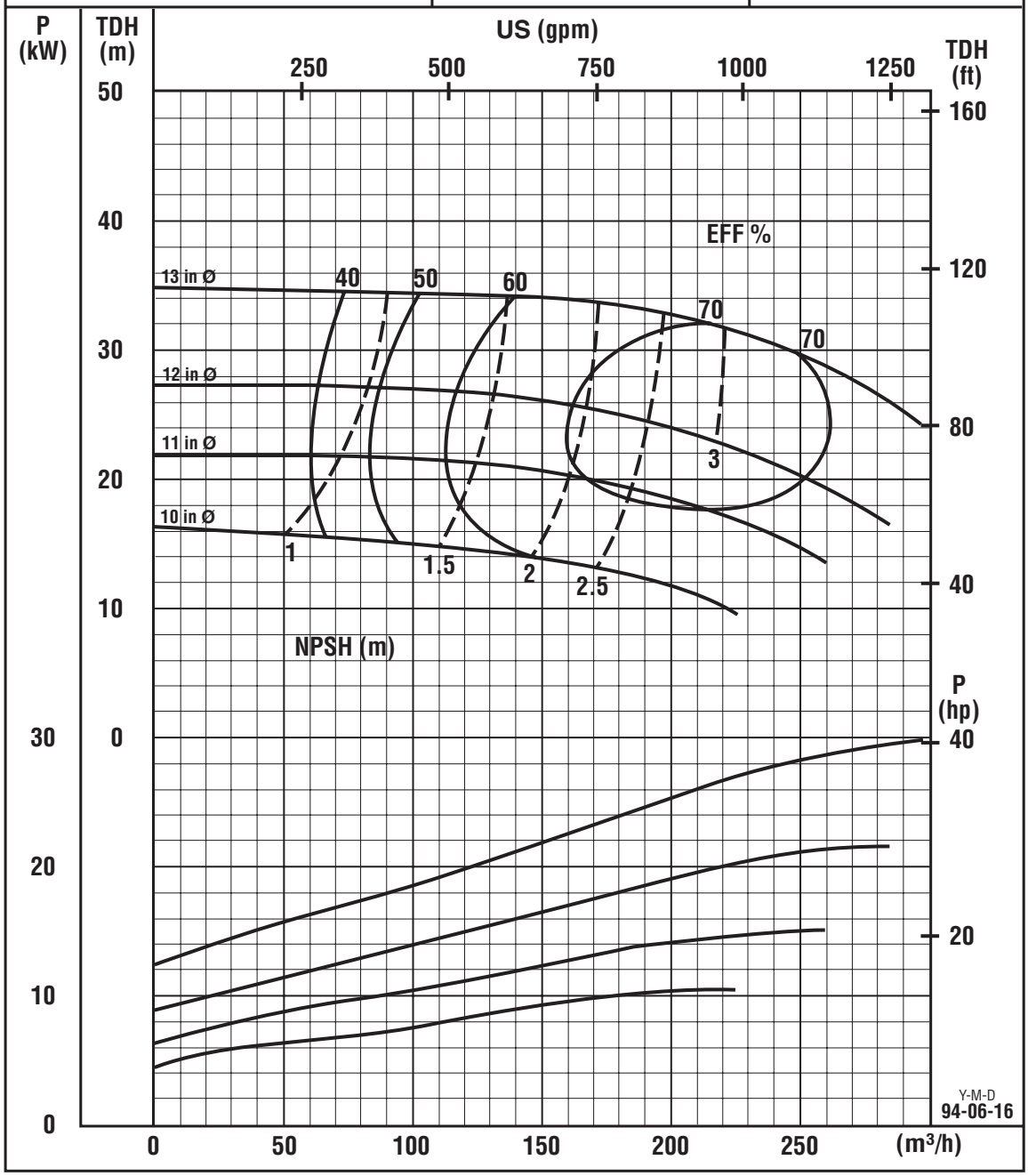
TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

FLOWSERVE

PUMP PERFORMANCE CHARACTERISTICS

EYE AREA	187.8 cm²	DURCO Mark III	2K6X4US-13A
MAX SPHERE	25.4 mm	SPEED	1450 (rpm)
IMPELLER	OPEN STD-A80	CURVE NO.	8164V



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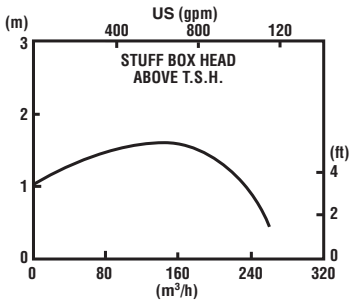

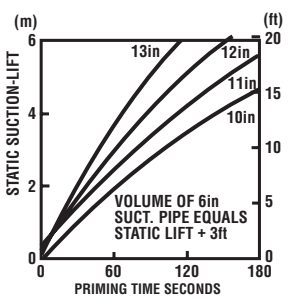

TO CALCULATE EXACT EFFICIENCY USE METRIC UNITS WITH SPECIFIC GRAVITY=1.0 IN THE FOLLOWING EQUATION

$$\% \text{ EFF} = \frac{\text{TDH X CAPACITY}}{\text{kW X 369}} \text{ X } 100$$

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Irving, Texas 75039-5421 USA
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Telefax: 1 972 443 6800

Europe, Middle East, Africa
Flowserve Corporation
Pump Division
Via Rossini 90/92
20033 Desio (Milan), Italy
Telephone: 39 0362 6121
Telefax: 39 0362 303396

FLOWSERVE®
Pump Division

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Telefax: 1 713 803 4497

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