

ITEM	PAGES
Bulletin 7100	
Product Numbering System.....	1 - 6
Construction Data.....	7
Mechanical Data.....	8
Engineering and Hydraulic Data.....	9 - 10
Recommended Lubrication.....	11
Construction of Materials.....	12
Typical Architect / Engineers Specifications - Series 7100.....	13 - 14
Pump Assembly, Fig. 7100	15 - 23
Dimensions, Fig. 7163, 7165, 7166, 7166H, Basic Horizontal Pump.....	25
Dimensions, Fig. 7167, Basic Horizontal Pump	26
Dimensions, Fig. 7168, 7169, Basic Horizontal Pump	27
Dimensions, Fig. 7163, Basic Horizontal Pump	28
Dimensions, Fig. 7165, Basic Horizontal Pump	29
Dimensions, Fig. 7166, Basic Horizontal Pump	30
Dimensions, Fig. 7167, Basic Horizontal Pump	31
Dimensions, Fig. 7168, Basic Horizontal Pump	32 - 33
Dimensions, Fig. 7153, 7155, 7156, 7156H, Vertical Pump with Flexible Drive.....	35
Dimensions, Fig. 7157, 7158, 7159, Vertical Pump with Flexible Drive	36
Dimensions, Fig. 7193, 7195, 7196, 7196H, Vertical Pump with Standard Suction Elbow	37
Dimensions, Fig. 7193, 7195, 7196, Vertical Pump with Long Suction Elbow	38



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Continued →

ITEM	PAGES
Dimensions, Fig. 7197, Vertical Pump with Standard Suction Elbow.....	39
Dimensions, Fig. 7198, 7199, Vertical Pump with Standard Suction Elbow.....	40
Selection Curve, 870RPM	41
Selection Curve, 1150RPM	42
Selection Curve, 1750RPM	43
Performance Curve, Fig. 7150-90, Size 2 x 2 x 7¼ x 1½, 870RPM, 1150RPM, 1750RPM & Various	44 - 45
Performance Curve, Fig. 7150-90, Size 2 x 2 x 9½ x 1½, 870RPM, 1150RPM, 1750RPM & Various	46 - 47
Performance Curve, Fig. 7150-90, Size 4 x 4 x 9½ x 2, 870RPM, 1150RPM, 1750RPM & Various	48 - 49
Performance Curve, Fig. 7150-90, Size 4 x 4 x 12 x 2, 870RPM, 1150RPM, 1750RPM & Various	50 - 51
Performance Curve, Fig. 7150-90, Size 4 x 4 x 7¼ x 3, 870RPM, 1150RPM, 1750RPM & Various	52 - 53
Performance Curve, Fig. 7150-90, Size 4 x 4 x 9½ x 3, 870RPM, 1150RPM, 1750RPM & Various	54 - 55
Performance Curve, Fig. 7150-90, Size 4 x 4 x 12 x 3, 870RPM, 1150RPM, 1750RPM & Various	56 - 57
Performance Curve, Fig. 7150-90, Size 6 x 4 x 12 x 3, 870RPM, 1150RPM, 1750RPM & Various	58 - 59
Performance Curve, Fig. 7150-90, Size 6 x 6 x 12 x 3, 870RPM, 1150RPM, 1750RPM & Various	60 - 61
Performance Curve, Fig. 7150-90, Size 6 x 4 x 15 x 3, 870RPM, 1150RPM, 1750RPM & Various	62 - 63



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Continued →

ITEM	PAGES
Performance Curve, Fig. 7150-90, Size 6 x 6 x 15 x 3, 870RPM, 1150RPM, 1750RPM & Various	64 - 65
Performance Curve, Fig. 7150-90, Size 8 x 8 x 15 x 3, 870RPM & 1150RPM	66
Performance Curve, Fig. 7150-90, Size 8 x 8 x 15 x 4, 870RPM, 1150RPM & 1750RPM.....	67 - 68
Performance Curve, Fig. 7150-90, Size 8 x 8 x 19 x 4, 870RPM & 1150RPM	69
Performance Curve, Fig. 7150-90, Size 10 x 8 x 19 x 4, 700RPM, 870RPM, 1150RPM & Various	70 - 71



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Dry Pit Solids Handling Centrifugal Pumps

The Product Numbering System used, consists of 12 digits, and the following is a description of that system:

0000 - 0000 - 0 - 0 - 0 - 0
 1 thru 4 5 thru 8 9 10 11 12

Digits 1 thru 4 are the Pump Figure Number.		Description			
7153 7155 7156 7156H		Dry-Pit Solids Handling Centrifugal Pumps Vertical Pumps for Flexible Drive with Base & Suction Elbow			
Digits 5 thru 8 describe the Pump Size.					
5 thru 8	Description	5 thru 8	Description	5 thru 8	Description
2036	2 x 2 x 7¼ x 1½	4056	4 x 4 x 9½ x 3	4266	6 x 4 x 12 x 3
2056	2 x 2 x 9½ x 1½	4156	5 x 4 x 9½ x 3	6065	6 x 6 x 12 x 3
4036	4 x 4 x 7¼ x 3	3065	3 x 3 x 12 x 2	6165	8 x 6 x 12 x 3
3055	3 x 3 x 9½ x 2	3165	4 x 3 x 12 x 2	8071	8 x 8 x 15 x 3
3155	4 x 3 x 9½ x 2	4064	4 x 4 x 12 x 2		
4054	4 x 4 x 9½ x 2	4066	4 x 4 x 12 x 3		
Digit 9 describes the Materials of Construction.					
Digit 9		Description			
1		AI Cast Iron			
2		BF Bronze Fitted			
3		AB All Bronze			
Digit 10 describes the Shaft & Sleeve Material.					
Digit 10		Description			
1		4140 shaft, 416 SS sleeve			
2		4140 shaft, 316 SS sleeve			
3		4140 shaft, 440C sleeve			
4		416 SS shaft, 316 SS sleeve			
Digit 11 describes the Sealing Method and the Rotation.					
Digit 11		Description			
0		Standard packing, RH rotation			
1		Standard packing, LH rotation			
2		Double seal, BF2C1, RH rotation			
3		Double seal, BF2C1, LH rotation			
4		Double seal, BF1C1, RH rotation			
5		Double seal, BF1C1, LH rotation			
Digit 12 describes how the Impeller is fitted.					
Digit 12		Description			
1		Without wear ring			
2		With cast iron wear ring			
3		With bronze wear ring			
4		With CA-15 wear ring			
5		With 316SS wear ring			

Fig. 7158

Product Numbering System

Bulletin 7100

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Dry Pit Solids Handling Centrifugal Pumps

The Product Numbering System used, consists of 12 digits, and the following is a description of that system:

0000 - 0000 - 0 - 0 - 0 - 0
1 thru 4 5 thru 8 9 10 11 12

Digits 1 thru 4 are the Pump Figure Number.

1 thru 4	Description
7158	Dry-Pit Solids Handling Centrifugal Pumps Vertical Pumps for Flexible Drive with Base & Suction Elbow

Digits 5 thru 8 describe the Pump Size.

5 thru 8	Description	5 thru 8	Description
4276	6 x 4 x 15 x 3	6186	8 x 6 x 19 x 4
6653	6 x 6 x 15 x 3	8894	8 x 8 x 19 x 4
8854	8 x 8 x 15 x 4	8184	10 x 8 x 19 x 4

Digits 9 describes the Materials of Construction.

Digit 9	Description
1	Al Cast Iron

Digits 10 describes the Shaft & Sleeve Material.

Digit 10	Description
1	4140 shaft, 416 SS sleeve
2	4140 shaft, 316 SS sleeve
3	4140 shaft, 440C sleeve

Digit 11 describes the Sealing Method and the Rotation.

Digit 11	Description
0	Standard packing, RH rotation
1	Standard packing, LH rotation
2	Double seal, BF2C1, RH rotation
3	Double seal, BF2C1, LH rotation
8	Dura Double seal, ERD-VV, RH rotation
9	Dura Double seal, ERD-VV, LH rotation

Digit 12 describes how the Impeller is fitted.

Digit 12	Description
1	Without wear ring
2	With cast iron wear ring
3	With bronze wear ring
4	With CA-15 wear ring
5	With 316SS wear ring

SECTION 45-SS
PAGE 2
DATE 5/18

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Dry Pit Solids Handling Centrifugal Pumps

The Product Numbering System used, consists of 12 digits, and the following is a description of that system:

0000 - 0000 - 0 - 0 - 0 - 0
1 thru 4 5 thru 8 9 10 11 12

Digits 1 thru 4 are the Pump Figure Number.					
1 thru 4		Description			
7163 7165 7166 7166H		Dry-Pit Solids Handling Centrifugal Pumps Horizontal Flexible Coupled			
Digits 5 thru 8 describe the Pump Size.					
5 thru 8	Description	5 thru 8	Description	5 thru 8	Description
2036	2 x 2 x 7¼ x 1½	4056	4 x 4 x 9½ x 3	4266	6 x 4 x 12 x 3
2056	2 x 2 x 9½ x 1½	4156	5 x 4 x 9½ x 3	6065	6 x 6 x 12 x 3
4036	4 x 4 x 7¼ x 3	3065	3 x 3 x 12 x 2	6165	8 x 6 x 12 x 3
3055	3 x 3 x 9½ x 2	3165	4 x 3 x 12 x 2	8071	8 x 8 x 15 x 3
3155	4 x 3 x 9½ x 2	4064	4 x 4 x 12 x 2		
4054	4 x 4 x 9½ x 2	4066	4 x 4 x 12 x 3		
Digits 9 describes the Materials of Construction.					
Digit 9		Description			
1		AI Cast Iron			
2		BF Bronze Fitted			
3		AB All Bronze			
Digits 10 describes the Shaft & Sleeve Material.					
Digit 10		Description			
1		4140 shaft, 416 SS sleeve			
2		4140 shaft, 316 SS sleeve			
3		4140 shaft, 440C sleeve			
4		416 SS shaft, 316 SS sleeve			
Digit 11 describes the Sealing Method and the Rotation.					
Digit 11		Description			
0		Standard packing, RH rotation			
1		Standard packing, LH rotation			
2		Double seal, BF2C1, RH rotation			
3		Double seal, BF2C1, LH rotation			
4		Double seal, BF1C1, RH rotation			
5		Double seal, BF1C1, LH rotation			
Digit 12 describes how the Impeller is fitted.					
Digit 12		Description			
1		Without wear ring			
2		With cast iron wear ring			
3		With bronze wear ring			
4		With CA-15 wear ring			
5		With 316SS wear ring			

Fig. 7168

Product Numbering System

Bulletin 7100

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Dry Pit Solids Handling Centrifugal Pumps

The Product Numbering System used, consists of 12 digits, and the following is a description of that system:

0000 - 0000 - 0 - 0 - 0 - 0
1 thru 4 5 thru 8 9 10 11 12

Digits 1 thru 4 are the Pump Figure Number.

1 thru 4	Description
7168	Dry-Pit Solids Handling Centrifugal Pumps Horizontal Flex-Coupled

Digits 5 thru 8 describe the Pump Size.

5 thru 8	Description	5 thru 8	Description
4276	6 x 4 x 15 x 3	6186	8 x 6 x 19 x 4
6653	6 x 6 x 15 x 3	8894	8 x 8 x 19 x 4
8854	8 x 8 x 15 x 4	8184	10 x 8 x 19 x 4

Digits 9 describes the Materials of Construction.

1	AI Cast Iron

Digits 10 describes the Shaft & Sleeve Material.

1	4140 shaft, 416 SS sleeve
2	4140 shaft, 316 SS sleeve
3	4140 shaft, 440C sleeve

Digit 11 describes the Sealing Method and the Rotation.

0	Standard packing, RH rotation
1	Standard packing, LH rotation
2	Double seal, BF2C1, RH rotation
3	Double seal, BF2C1, LH rotation
8	Dura Double seal, ERD-VV, RH rotation
9	Dura Double seal, ERD-VV, LH rotation

Digit 12 describes how the Impeller is fitted.

1	Without wear ring
2	With cast iron wear ring
3	With bronze wear ring
4	With CA-15 wear ring
5	With 316SS wear ring

SECTION 45-SS
PAGE 4
DATE 5/18

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Dry Pit Solids Handling Centrifugal Pumps

The Product Numbering System used, consists of 12 digits, and the following is a description of that system:

0000 - 0000 - 0 - 0 - 0 - 0
1 thru 4 5 thru 8 9 10 11 12

Digits 1 thru 4 are the Pump Figure Number.					
1 thru 4		Description			
7193 7195 7196 7196H		Dry-Pit Solids Handling Centrifugal Pumps Vertical Flex-Coupled Pumps with Base, Suction Elbow & Motor Stand			
Digits 5 thru 8 describe the Pump Size.					
5 thru 8	Description	5 thru 8	Description	5 thru 8	Description
2036	2 x 2 x 7¼ x 1½	4056	4 x 4 x 9½ x 3	4266	6 x 4 x 12 x 3
2056	2 x 2 x 9½ x 1½	4156	5 x 4 x 9½ x 3	6065	6 x 6 x 12 x 3
4036	4 x 4 x 7¼ x 3	3065	3 x 3 x 12 x 2	6165	8 x 6 x 12 x 3
3055	3 x 3 x 9½ x 2	3165	4 x 3 x 12 x 2	8071	8 x 8 x 15 x 3
3155	4 x 3 x 9½ x 2	4064	4 x 4 x 12 x 2		
4054	4 x 4 x 9½ x 2	4066	4 x 4 x 12 x 3		
Digits 9 describes the Materials of Construction.					
Digit 9		Description			
1		AI Cast Iron			
2		BF Bronze Fitted			
3		AB All Bronze			
Digits 10 describes the Shaft & Sleeve Material.					
Digit 10		Description			
1		Frame 143-145TC			
2		Frame 182-184TC, 213-215TC			
3		Frame 254-256TC			
4		Frame 284-286TC			
5		Frame 324-326TSC, 364-365TSC			
6		Frame 404-405TSC			
7		Frame 444-445TSC			
8		Frame 447-449TSC			
Digit 11 describes the Sealing Method and the Rotation.					
Digit 11		Description			
0		Standard packing, RH rotation			
1		Standard packing, LH rotation			
2		Double seal, BF2C1, RH rotation			
3		Double seal, BF2C1, LH rotation			
4		Double seal, BF1C1, RH rotation			
5		Double seal, BF1C1, LH rotation			
Digit 12 describes how the Impeller is fitted.					
Digit 12		Description			
1		Without wear ring			
2		With cast iron wear ring			
3		With bronze wear ring			
4		With CA-15 wear ring			
5		With 316SS wear ring			

Fig. 7198

Product Numbering System
Bulletin 7100

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Dry Pit Solids Handling Centrifugal Pumps

The Product Numbering System used, consists of 12 digits, and the following is a description of that system:

0000 - 0000 - 0 - 0 - 0 - 0
1 thru 4 5 thru 8 9 10 11 12

Digits 1 thru 4 are the Pump Figure Number.

1 thru 4	Description
7198	Dry-Pit Solids Handling Centrifugal Pumps Vertical Flex-Coupled Pumps with Base, Suction Elbow and Motor Stand

Digits 5 thru 8 describe the Pump Size.

5 thru 8	Description	5 thru 8	Description
4276	6 x 4 x 15 x 3	6186	8 x 6 x 19 x 4
6653	6 x 6 x 15 x 3	8894	8 x 8 x 19 x 4
8854	8 x 8 x 15 x 4	8184	10 x 8 x 19 x 4

Digits 9 describes the Materials of Construction.

Digit 9	Description
1	AI Cast Iron

Digits 10 describes the Shaft & Sleeve Material.

Digit 10	Description
1	Frame 143-145TC
2	Frame 182-184TC, 213-215TC
3	Frame 254-256TC
4	Frame 284-286TC
5	Frame 324-326TSC, 364-365TSC
6	Frame 404-405TSC
7	Frame 444-445TSC
8	Frame 447-449TSC

Digit 11 describes the Sealing Method and the Rotation.

Digit 11	Description
0	Standard packing, RH rotation
1	Standard packing, LH rotation
2	Double seal, BF2C1, RH rotation
3	Double seal, BF2C1, LH rotation
8	Dura Double seal, ERD-VV, RH rotation
9	Dura Double seal, ERD-VV, LH rotation

Digit 12 describes how the Impeller is fitted.

Digit 12	Description
1	Without wear ring
2	With cast iron wear ring
3	With bronze wear ring
4	With CA-15 wear ring
5	With 316SS wear ring

Dry Pit Solids Handling Centrifugal Pumps

Item	Description	Standard	Optional
Type	Fig. 7150 Series, Vertically Mounted Solids Handling, Non-Clog Type, Centrifugal Pump driven through a universal joint type flexible drive shaft.	X	
	Fig. 7160 Series, Horizontally Mounted Solids Handling, Non-Clog Type, Centrifugal Pump with pump and driver mounted on a common base and a flexible coupling.	X	
	Fig. 7190 Series, Vertically Mounted Solids Handling, Non-Clog Type, Centifugal Pump driven with a standard vertical driver and a flexible coupling.	X	
Rotation	Clockwise - viewed from driver end. Counter-Clockwise - viewed from driver end.	X	X
Casing	Vertically split, single volute, end suction design, back pull-out, with handhole and cover in casing volute.	X	
Nozzles	Fig. 7150 and 7190 - Discharge opposite suction in #1 position.	X	
	Other Positions:		X
	Fig. 7160 - Top Vertical in #1 position. Top Horizontal in #2 position. Centerline suction inlet.	X X	X
	Flanged, Standard A.N.S.I. 125 P.S.I.	X	
Impeller	Enclosed, Solids handling, Non-Clog type with pumping vanes on back shroud with hydraulic and static balance. Keyed to straight fit shaft and locked with washer and self-locking cap screw.	X	
Impeller Adjustment	Jack screws provide easy external adjustment of impeller axial clearance without disturbing pump, driver or piping	X	
Wearing Rings	Impeller - easily renewed, L - shape design.		X
	Suction Cover - easily renewed, flat design securely mounted.		X
Shaft	High strength steel, overhung design with straight coupling extension.	X	
Sleeve (Shaft)	Renewable type, keyed to shaft or shrink fit; sealed to prevent leakage under the sleeve. Sleeve extends under the gland.	X	
Packing Box Cover	One piece casting with registered fit. Has in and out connections. Includes 5 rings of Garlock 8913 packing and lantern ring. Grease lubrication or liquid flush.	X	
	Mechanical shaft seal, when specified.		X
Mechanical Seal	Crane or Durametallic, double seal, sleeve mounted, for external flush or bypass lubrication.		X
Gland	Split type with 2 bolt mounting for packing.	X	
	Solid type with 4 bolt mounting for seal.		X
Frame	One piece with machined register fit to assure alignment. Back pull - out.	X	
Bearings	Outboard - Double row, angular contact ball bearing - carries radial load and any unbalanced thrust. Cartridge type mounting.	X	
	Inboard - Single row ball or roller bearing carries radial load. Pressed on shaft and free to float axially in precision bored housing.	X	
	Lubrication - Grease thru Alemite fittings.	X	
	Oil Lubrication - Fig. 7160 Series only.		X
Base	Vertical Pumps - Fig. 7150 and 7190 Series include pedestal type base to support the pump. Includes 2 large access openings.	X	
Baseplate	Horizontal Pumps - Fig. 7160 Series available with fabricated steel base.		X
	Drip Lip type (standard on fig. 7168 - 7169)		X
Couplings	Fig. 7150 Series - Universal joint - flexible shaft.		X
	Fig. 7160 and 7190 Series - Flexible type coupling.		X
Guard	OSHA type.		X
Tappings	Priming, vent, drain and gauge.	X	
Suction Elbow	Furnished with vertical units, has smooth passage way, large handhole and A.N.S.I. 125 P.S.I. Flanges.	X	

Mechanical Data

Horizontal & Vertical Centrifugal Pumps for Sewage
& Wastewater Applications - Bulletin 7100

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Dry Pit Solids Handling Centrifugal Pumps

All Dimensions in Inches						
Frame Size	3	5	6	6H	7	8
Figure Numbers						
Vertical Pump - for Flexible Shaft	7153	7155	7156	7156H	7157	7158
Horizontal Pump - for Base Mount	7163	7165	7166	7166H	7167	7168
Vertical Pump - Frame Mount	7193	7195	7196	7196H	7197	7198
Pump Size - Inches						
Suction, Discharge, Maximum	2 x 2 x 7¼ x 1½	3 x 3 x 9½ x 2	3 x 3 x 12 x 2	8 x 8 x 15 x 3	6 x 6 x 15 x 3	6 x 4 x 15 x 3
Impeller Diameter and	2 x 2 x 9½ x 1½	4 x 3 x 9½ x 2	4 x 3 x 12 x 2		8 x 8 x 15 x 4	6 x 6 x 15 x 3
Maximum Size Spheres	4 x 4 x 7¼ x 3	4 x 4 x 9½ x 3	4 x 4 x 12 x 2			8 x 6 x 15 x 4
		5 x 4 x 9½ x 3	4 x 4 x 12 x 3			8 x 8 x 15 x 4
			6 x 4 x 12 x 3			8 x 6 x 19 x 4
			6 x 6 x 12 x 3			8 x 8 x 19 x 4
			8 x 6 x 12 x 3			10 x 8 x 19 x 4
Packing Box Cover						
Box Bore, Diameter	1⅞"	2½"	3"	3⅞"	3⅞"	4¾"
Box Depth	2⅞"	2⅞"	3⅞"	3⅞"	3⅞"	3½"
Distance - Face to 1st. Obstruction	2⅞"	1⅞"	2⅞"	2⅞"	3"	2¼"
In and Out Connections N.P.T.	¼"	¼"	¼"	¼"	⅜"	¼"
Pumps with Packing						
Sleeve Outside Diameter	1¼"	1¾"	2⅞"	2¼"	3"	3¾"
Packing Size, Square	⅝"	¾"	⅞"	⅞"	⅞"	½"
Number Packing Rings	5"	5"	5"	5"	5"	5"
Number Ahead of Lantern Ring	2"	2"	2"	2"	2"	2"
Width of Lantern Ring	½"	⅝"	¾"	¾"	¾"	¾"
Pumps with Mechanical Seal						
Sleeve Outside, Diameter	1¼"	1¾"	2⅞"	2¼"	3"	3¾"
Shaft Data						
Diameter at Impeller	⅞"	1¼"	1⅝"	1⅝"	2"	2"
Diameter Under Shaft Sleeve	1"	1⅜"	1¾"	2"	2½"	3¼"
Diameter at Inboard Bearing	1.578"	1.766"	2.359"	2.359"	2.916"	3.547"
Diameter Between Bearings	1¾"	2¼"	2½"	2½"	3¼"	3⅝"
Diameter at Outboard Bearing		1.969"	2.156"	2.156"	2.559"	3.156"
Diameter at Coupling	1"	1¼"	1½"	1½"	2⅞"	2⅞"
Max. Deflection at face of Box	.0025	.0035	.005	.005	.005	.005

Dry Pit Solids Handling Centrifugal Pumps

Engineering and Hydraulic Data								
Frame Size	3			5				
Pump Size	2 x 2 x 7¼	2 x 2 x 9½	4 x 4 x 7¼	3 x 3 x 9½	4 x 3 x 9½	4 x 4 x 9½	4 x 4 x 9½	5 x 4 x 9½
Spheres, Max. Dia. - Inches	1½	1½	3	2	2	2	3	3
Size Code	2036	2056	4036	3055	3155	4054	4056	4156
Suction - Inches	2	2	4	3	4	4	4	5
Discharge - Inches	2	2	4	3	3	4	4	4
Impeller, Max. Dia. - Inches	7¼	9½	7¼	9½	9½	9½	9½	9½
Maximum Ratings								
Discharge Pressure - P.S.I.	75	100	75	100	100	100	100	100
Hydro test Pressure - P.S.I.	115	150	115	150	150	150	150	150
Suction Pressure - P.S.I.	50	50	50	50	50	50	50	50
Operating Speed - R.P.M.	1800	1800	1800	1800	1800	1800	1800	1800
	225	225	225	225	225	225	225	225
WR ² - Effect - LB., FT ² (less motor - full dia. impeller - wet)	0.33	0.62	0.52	1.09	1.09	1.09	1.31	1.31
Casing thickness - Inches	5/16	¾	¾	¾	¾	¾	¾	¾
Casing Handhole Size	-----	-----	3.06	2.56	2.56	2.56	3.06	3.06
Impeller Clearance - Inches								
Front - min.	7/32	7/32	7/32	9/32	9/32	9/32	9/32	9/32
Back - min.	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32
Gauge Taps - N.P.T.								
Suction	¼	¼	¼	¼	¼	¼	¼	¼
Discharge	¼	¼	¼	¼	¼	¼	¼	¼
Vent and Drain	¼	¼	¼	¼	¼	¼	¼	¼
Pump Weight - Lbs. (approx.)								
Fig. 7150	228	270	275	295	305	325	325	350
Fig. 7160	168	210	202	225	225	245	245	245
Fig. 7190 (less motor)	263	305	310	330	340	360	360	365

Frame Size	6							6H
Pump Size	3 x 3 x 12	4 x 3 x 12	4 x 4 x 12	4 x 4 x 12	6 x 4 x 12	6 x 6 x 12	8 x 6 x 12	8 x 8 x 15
Spheres, Max. Dia. - Inches	2	2	2	3	3	3	3	3
Size Code	3065	3165	4064	4066	4266	6065	6165	8071
Suction - Inches	3	4	4	4	6	6	8	8
Discharge - Inches	3	3	4	4	4	6	6	8
Impeller, Max. Dia. - Inches	12	12	12	12	12	12	12	15
Maximum Ratings								
Discharge Pressure - P.S.I.	100	100	100	100	100	100	100	100
Hydro test Pressure - P.S.I.	150	150	150	150	150	150	150	150
Suction Pressure - P.S.I.	50	50	50	50	50	50	50	50
Operating Speed - R.P.M.	1800	1800	1800	1800	1800	1800	1800	1800
	225	225	225	225	225	225	225	225
WR ² - Effect - LB., FT ² (less motor - full dia. impeller - wet)	3.13	3.13	3.13	3.49	3.26	3.26	3.26	6.41
Casing thickness - Inches	7/16	7/16	7/16	½	½	9/16	9/16	9/16
Casing Handhole Size	2.56	2.56	2.56	3.06	4.06	4.06	4.06	4.06
Impeller Clearance - Inches								
Front - min.	.020	.020	.020	.020	.020	.020	.020	.020
Back - min.	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32
Gauge Taps - N.P.T.								
Suction	¼	¼	¼	¼	¼	¼	¼	¼
Discharge	¼	¼	¼	¼	¼	¼	¼	¼
Vent and Drain	¼	¼	¼	¾	¾	¾	¾	¾
Pump Weight - Lbs. (approx.)								
Fig. 7150	410	420	450	450	455	510	605	805
Fig. 7160	340	340	360	360	360	405	425	625
Fig. 7190 (less motor)	445	455	475	485	490	545	640	840

Engineering and Hydraulic Data

Horizontal & Vertical Centrifugal Pumps for Sewage
& Wastewater Applications - Bulletin 7100

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Dry Pit Solids Handling Centrifugal Pumps

Engineering and Hydraulic Data

Frame Size	7		8					
Pump Size	6 x 6 x 15	8 x 8 x 15	6 x 4 x 15	6 x 6 x 15	8 x 6 x 15	8 x 6 x 19	8 x 8 x 19	10 x 8 x 19
Spheres, Max. Dia. - Inches	3	4	3	3	4	4	4	4
Size Code	6653	8854	4276	6653	6177	6186	8894	8184
Suction - Inches	6	8	6	6	8	8	8	10
Discharge - Inches	6	8	4	6	6	6	8	8
Impeller, Max. Dia. - Inches	15	15	15	15	15	19	19	19
Maximum Ratings								
Discharge Pressure - P.S.I.	100	100	100	100	100	80	80	80
Hydrotest Pressure - P.S.I.	150	150	150	150	150	100	100	100
Suction Pressure - P.S.I.	75	75	75	75	75	75	75	75
Operating Speed - R.P.M.	1800	1800	1800	1800	1800	1800	1800	1200
	225	225	225	225	225	225	225	225
WR ² - Effect - LB., FT ² (less motor - full dia. impeller - wet)	7.9	8.4	7.9	7.9	8.4	27.0	27.0	25.7
Casing Thickness - Inches	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{9}{16}$
Casing Handhole Size	5.06	6.06	4.06	5.06	5.06	5.06	6.06	6.06
Impeller Clearance - Inches								
Front - min.	$\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$
Back - min.	$\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$
Gauge Taps - N.P.T.								
Suction	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Discharge	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Vent and Drain	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Pump Weight - Lbs. (approx.)								
Fig. 7150	1370	1560	1325	1370	1360	1520	1810	1820
Fig. 7160	1145	1350	1100	1145	1135	1310	1500	1510
Fig. 7190 (less motor)	1645	1920	1600	1645	1635	1900	2200	2200

SECTION 45-SS
PAGE 10
DATE 5/18

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Dry Pit Solids Handling Centrifugal Pumps

Double mechanical seals require clear liquid, under suitable pressure, to force the sealing faces to close and provide the sealing faces with a clear cool lubricant. The sealing liquid may be clear water or other compatible liquid. For the seals shown below, operating with maximum liquid pumping temperature up to 160° F, the following methods of seal lubrication are recommended.

1. Dead end lubrication with liquid from the pump casing piped thru a filter assembly to the seal cavity of the packing box cover. A pressure gauge, installed outboard from the seal cavity, will indicate a plugged filter or seal leakage if the normal gauge pressure drops.
2. Liquid circulated thru the seal chamber from the pump casing at 1/4 to 1/2 gpm, piped thru a filter assembly to the seal cavity. A pressure gauge and control valve should be installed on the outlet packing box cover to control the flow and pressure.

3. Flow - thru lubrication flushing of the seal, cavity with a liquid from a separate source, such as clean water or from a water seal unit, with approximately 1 to 2 gpm at 5 to 20 p.s.i. above the highest expected (system) pressure at the inboard seal.

Where clean water under pressure or water seal unit is not available, mineral oil, kerosene or ethylene glycol may be used as lubricant. A pressurized reservoir or pressurizing unit is required.

For liquid temperatures above 160° F or applications containing high concentration of abrasives, other seal codes, heat exchanger, filters or pressurizing systems may be required.

Frame Size	Pump Size	Pump Speed	Max (1) P.S.I. at Inboard Seal	Max (2) P.S.I. at Seal Cavity	Standard Seals		Recommended Seal Lubrication
					CRANE Type - Code -	DURA Type - Code -	
3	2 x 2 x 7 1/4 x 1 1/2	1750	24	29	1 1/4" Type 1 BF2C1	1 1/4" CRO EX5-00	1 or 2
		1150	11	16			
	2 x 2 x 9 1/2 x 1 1/2	1750	42	47			
		1150	19	24			
	4 x 4 x 7 1/4 x 3	1750	24	29			
		1150	10	15			
5	4 x 4 x 9 1/2 x 2	1750	41	46	1 3/4" Type 1 BF2C1	1 3/4" CRO EX5-00	1 or 2
		1150	18	23			
	4 x 4 x 9 1/2 x 3	1750	39	44			
	5 x 4 x 9 1/2 x 3	1150	17	22			
6	4 x 4 x 12 x 2	1750	67	72	2 1/8" Type 1 BF2C1	2 1/8" CRO EX5-00	1 or 2
		1150	30	35			
	4 x 4 x 12 x 3	1750	63	68			
		1150	27	32			
		870	15	20			
	6 x 4 x 12 x 3	1750	60	65			
	6 x 6 x 12 x 3	1150	26	31			
	8 x 6 x 12 x 3	870	15	20			
6H	8 x 8 x 15 x 3	1750	40	45	2 1/4" Type 1 BF2C1	2 1/4" CRO EX5-00	1 or 2
		870	23	23			
7	6 x 6 x 15 x 3	1150	42	47	3" Type 1 BF2C1	3" CRO EX5-00	3
	8 x 8 x 15 x 3	1150	40	45			
8	6 x 4 x 15 x 3	1750	100	105	3 3/4" Type 8-1	3 3/4" BRO	3
		1150	44	49			
		870	26	31			
	6 x 6 x 15 x 3	1750	95	100			
		1150	40	45			
		870	23	28			
	8 x 8 x 15 x 4	1750	94	99			
	8 x 8 x 19 x 4	1750	90	95			
		1150	40	45			
	10 x 8 x 19 x 4	1150	63	68			

1. Normal pressure against the inboard seal is approximately equal to the pumping head for which the pump is selected.

2. Pressure in the seal chamber of the packing box cover must be at least 5 p.s.i. higher than the normal pump operating pressure to assume proper contact of the seal faces.

Dry Pit Solids Handling Centrifugal Pumps

Item No.	Name of Part	Standard All Iron	Standard Options
1	Casing	Cast Iron	Cast iron
2	Impeller	Cast Iron	No. 8 Bronze
6	Pump Shaft	SAE 4140 Steel	SAE 4140 Steel
8	Impeller Wearing Ring (where used)	Cast Iron	No. 8 Bronze
			316 Stainless Steel
			416 Stainless Steel
9	Suction Cover	Cast Iron	Cast Iron
11	Stuffing Box Cover	Cast Iron	Cast Iron
13	Packing	Asbestos Free	Asbestos Free
14	Shaft Sleeves	416 Stainless Steel	SAE 660 Bronze
17	Split Glands	Cast Iron	Cast Iron
19	Frame	Cast Iron	Cast Iron
25	Suction Cover Wearing Ring (where used)	Cast Iron	No. 8 Bronze
			316 Stainless Steel
			416 Stainless Steel
26	Impeller Screw	Stainless Steel	Stainless Steel
29	Lantern Rings (where used)	Teflon	Teflon
30	Impeller Gasket	Coated Fiber	Coated Fiber
32	Impeller key	Steel	Steel
38	Shaft Sleeve Gasket	Coated Fiber	Coated Fiber
53	Base	Cast Iron	Cast Iron
57	Suction Elbow	Cast Iron	Cast Iron
73	Casing Gasket	Coated Fiber	Coated Fiber
209	Studs & Nuts	Stainless Steel	Stainless Steel
217	O-Ring	Buna N	Buna N
220	O-Ring	Buna N	Buna N
227	Elbow Gasket	Rubber	Rubber
270	Impeller Washer	Stainless Steel	Stainless Steel
272	O-Ring	Buna N	Buna N

Nominal Casting Composition

Type	Nearest ASTM Number	% Comp.	% Comp.	% Comp.	% Comp.	BHN
No. 8 Bronze	B584 C83600	85 Cu	5 Sn	5 Pb	5 Zn	50 - 60
Cast Iron	A48 Class 30	3.3 - 3.6 C	.5 - .8 Mn	2.1 - 2.8 Si	.05 P	179 - 228
316 St. Stl.	A743 CF8M	9 - 12 Ni	18 - 21 Cr	1.5 Mn	1.5 Si	135 - 185

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Dry Pit Solids Handling Centrifugal Pumps

General

The contractor shall furnish and install, as shown on the plans, _____ Deming Solids Handling Dry Pit, Non-Clog Type Centrifugal Pumps, Fig. _____, size _____ (horizontal)(vertical) mounted as specified herein:

Each pump shall be rated for continuous duty while pumping (raw sewage)(sludge)(effluent) and designed to pass a sphere not less than _____ inches diameter, with the following operating conditions.

Primary Conditions

_____	GPM
_____	Ft. Head
_____	Shut Off Head
_____	RPM
_____	% Min. Efficiency
_____	Ft. NPSH Available
_____	°F Max. Temperature

Secondary Conditions

_____	GPM
_____	Ft. Head
_____	RPM

Pump(s) shall be (clockwise)(counter clockwise) rotation when viewed from driver end.

Construction Details

Each pump shall be of standard all iron construction. Castings shall conform to ASTM-A48, Class 30 iron with tensile strength of 30,000 psi and capable of withstanding hydrostatic test pressure 1½ times maximum working pressure. All assembly points shall be of machine register fit to assure proper pump alignment. Suction and discharge flanges shall be 125lbs. ANSI standard as indicated on the plans.

Mounting

Fig. 7160 Series Horizontal - The pump and driver shall be mounted on a heavy fabricated steel base (with grout hole)(with drip lip). Flexible shaft coupling (spacer type) shall connect driver to the pump. Coupling shall be enclosed in OSHA type coupling guard. Pump and driver must be aligned after base has been installed and grouted.

Fig. 7150 and 7190 Series Vertical

The pump base shall be designed to support the assembled weight of the pump and accessories and shall safely withstand all stresses imposed on it and all possible direct and eccentric loads. The height of the base shall

be such that the flange of the suction elbow will clear the foundation. The base opening shall be large enough to permit easy access to the suction elbow and clean out hand hole. Suction elbow shall conform to the American National Standard flanged fitting dimensions and include contoured hand hole cover.

Fig. 7150

A universal joint type flexible drive shaft shall be installed between the pump and driver in accordance with the dimensions shown on the plans. Steady bearings shall be installed according to manufacturers recommendations. Driver base shall be furnished to mount the driver as shown on the plans.

Fig. 7190

A motor pedestal shall be furnished to mount the motor on the pump frame. It shall be cast integral with the frame or as a separate casting, with register fit to insure alignment of the motor shaft and pump shaft. Shafts shall be connected with flexible shaft coupling.

Impeller

The impeller shall be of the single suction enclosed type, cast in one piece and accurately balanced. Exterior surfaces shall be machined accurately and interior surfaces shall have smooth water ways to prevent clogging. Vanes shall be rounded at the periphery and designed for minimal noise. Pumping vanes on the neck shroud, to prevent accumulation of solids behind the impeller, shall be standard construction. The impeller shall be keyed to a straight fit shaft and secured with a gasketed washer and self-locking impeller screw with o-ring seal. External jack screws shall be provided for adjustment of the impeller axial clearance without disturbing pump, piping, or driver.

Motor

The motor shall be not less than _____ hp _____ RPM, NEMA design B squirrel cage type, (drip proof)(TEFC) EISA efficiency motor with (1.15)(1.0) service factor and suitable for operation on (115)(230) volt, 1 phase, (50)(60) Hertz power supply OR (200)(230)(460)(575) volt, 3 phase, 60 hertz power supply. Motor size shall be sufficient to prevent overloading at operating conditions or at the lowest listed head conditions whichever point requires greater horsepower. Following installation, grouting and connection of all piping, pump and motor must be checked for alignment in accordance with standards of the Hydraulic Institute.

Typical Architects/Engineers Spec.

Horizontal & Vertical Centrifugal Pumps for Sewage & Wastewater Applications - Bulletin 7100

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Dry Pit Solids Handling Centrifugal Pumps

Casing

The pump casing shall be of the end suction single volute design, cast in one piece and designed for handling solids. Large handhole cover shall be provided in the discharge nozzle for access to the pump impeller. Prime, vent, drain and gauge connections shall be included. Provision for casing rotation, to facilitate piping and back pull-out of the pump rotation assembly shall be standard construction.

Suction Cover

The suction cover shall be designed and accurately machined to fit the casing. The inlet contour shall match the impeller entrance to insure maximum performance. Suction cover shall be machined to receive suction elbow and base when used in vertical position.

Wear Rings

Renewable type wear rings shall be furnished for the impeller and suction cover to maintain pump efficiency. These rings shall be (bronze)(type 416 st. stl.)(type 316 st. stl.)

Shaft And Sleeve

The shaft shall be made of ASTM A193 Grade 4140 steel, accurately ground and polished, of sufficient diameter and bearing span to minimize deflection. A renewable shaft sleeve of (ANSI 440C)(ANSI 416 st. stl.) shall protect the shaft against corrosion and wear. Sleeve shall be positioned against a shoulder on the pump shaft and against the impeller hub with a gasket seal between the end of the sleeve and the impeller hub. Sleeve shall be suitably locked to the pump shaft.

Packing Box Cover

The packing box cover shall be a heavy, one piece casting with rabbeted flange for positive alignment. It shall be deep enough to accept (five rings of packing, lantern ring and have removable split type gland)(double mechanical shaft seal with suitable gland) and arranged for (grease lubrication)(water seal from an outside source). Inlet and outlet connections shall be provided in the packing box cover.

Power Frame

The power frame shall be high strength one piece construction, precision bored and machined to assure positive alignment of the rotating assembly. The rotating assembly shall include heavy duty regreasable ball or roller bearings, designed for maximum pump loads and thoroughly protected against dirt and moisture. Outboard bearing shall be double row angular contact type, cartridge mounted, locked in position by bearing lock nut and protected by a bearing cover. Inboard bearings shall be mounted on the shaft and free to move axially in the bearing house.

Motor

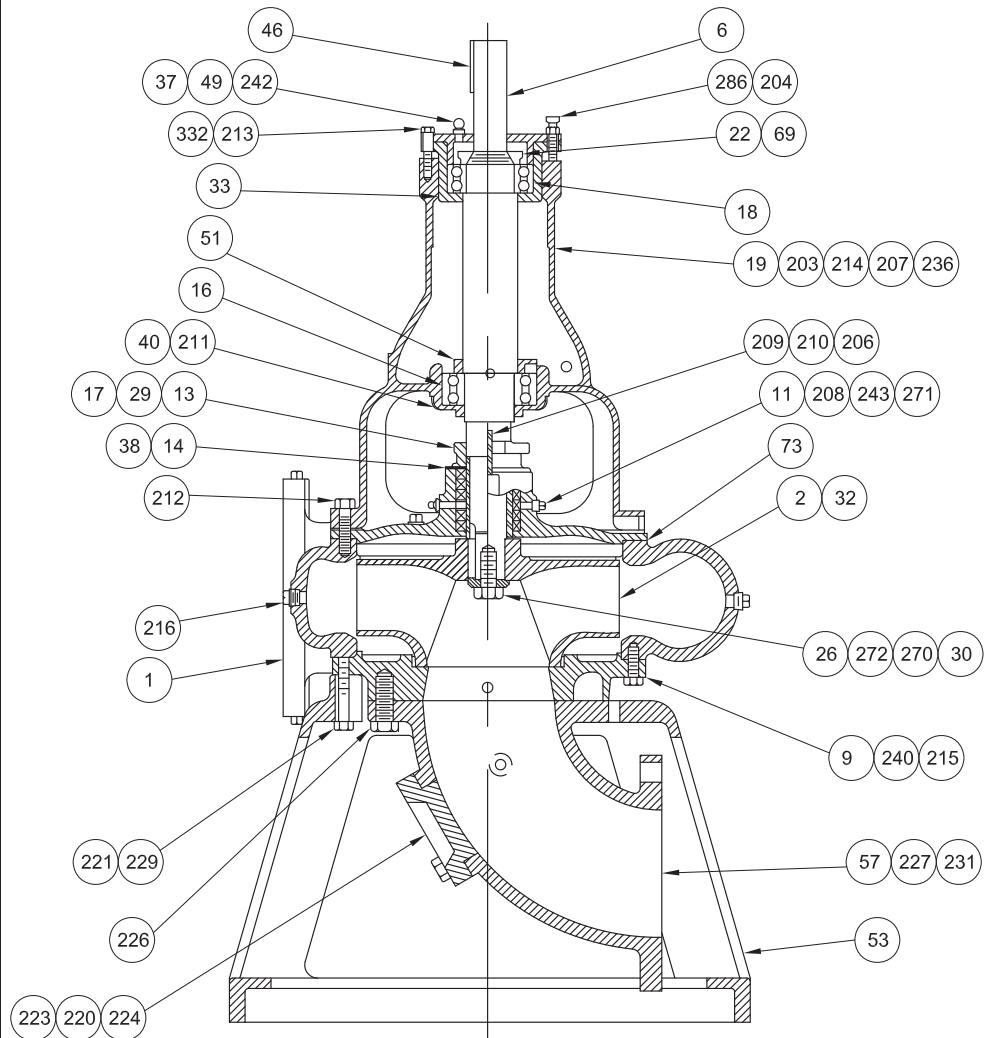
The motor shall be not less than _____ hp _____ RPM, NEMA design B squirrel cage type, (drip proof)(TEFC) EISA efficiency motor with (1.15)(1.0) service factor and suitable for operation on (115)(230) volt, 1 phase, (50)(60) Hertz power supply OR (200)(230)(460)(575) volt, 3 phase, 60 hertz power supply. Motor size shall be sufficient to prevent overloading at operating conditions or at the lowest listed head conditions whichever point requires greater horsepower. Following installation, grouting and connection of all piping, pump and motor must be checked for alignment in accordance with standards of the Hydraulic Institute.

Dry Pit Solids Handling Centrifugal Pumps

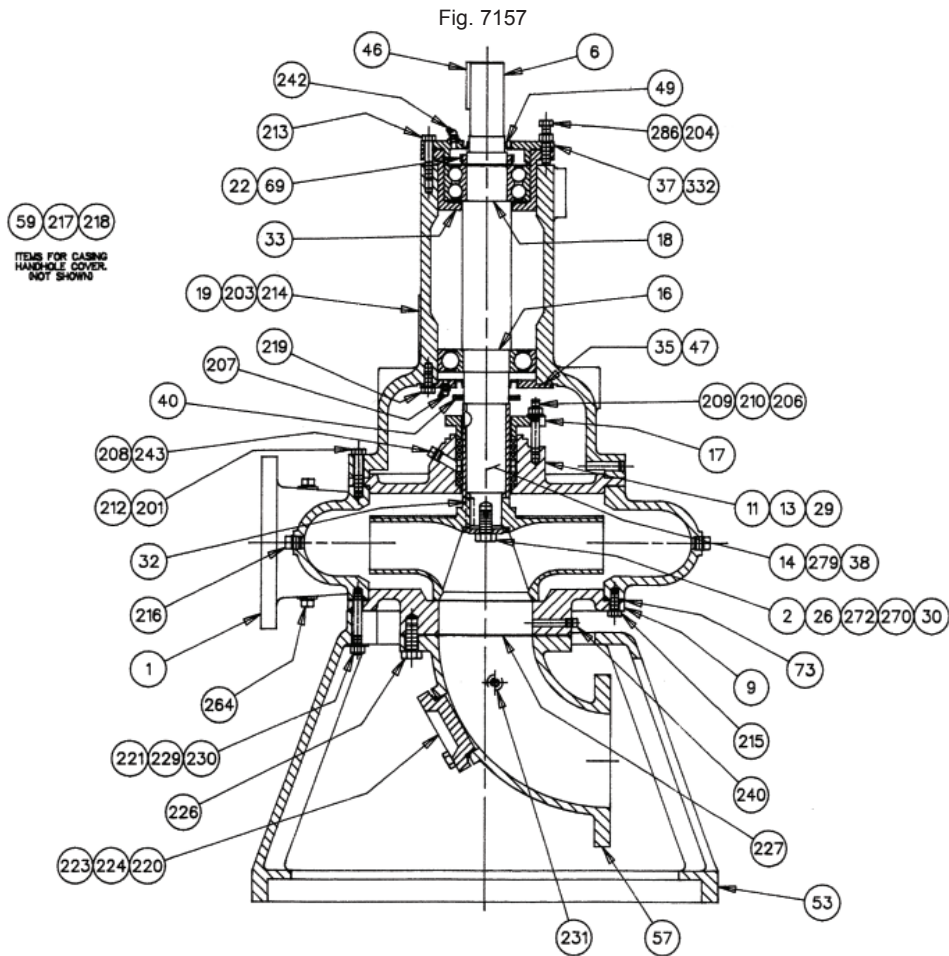
Fig. 7153, 7155, 7156, 7156H

Item No.	Name of Part
1	Casing
2	Impeller
6	Pump Shaft
9	Suction Cover
11	Packing Box Cover
* 13	Packing
* 14	Shaft Sleeve
* 16	Ball Bearing (Inboard)
17	Split Gland
* 18	Ball Bearing (Outboard)
19	Frame
22	Bearing Locknut
* 26	Impeller Screw - Self Locking
* 29	Lantern Ring
* 30	Impeller Washer Gasket
32	Impeller Key
33	Bearing Housing (Outboard)
37	Bearing Cover (Outboard)
* 38	Shaft Sleeve Gasket
40	Deflector
46	Coupling Key
49	Lip Seal (Outboard)
51	Grease Retainer
53	Base
57	Suction Elbow
59	Handhole Cover
69	Bearing Lockwasher
* 73	Casing Gasket
203	Nameplate
204	Adjusting Locknut
206	Split Gland Clip
207	Grease Fitting
208	Pipe Plug
209	Machine Bolt
210	Hex Nut
211	Set Screw
212	Cap Screw
213	Cap Screw
214	Drive Screw - Nameplate
215	Cap Screw
216	Pipe Plug
* 217	Handhole "O" Ring
218	Cap Screw
* 220	"O" Ring
221	Cap Screw
223	Handhole Cover
224	Cap Screw
226	Cap Screw
* 227	Suction Elbow Gasket
229	Washer
231	Pipe Plug
236	Pipe Plug
240	Pipe Plug
242	Grease Fitting
243	Grease Fitting
270	Impeller Washer
271	Pipe Plug
* 272	Impeller Screw "O" Ring
286	Cap Screw
332	Cap Screw

* Recommended spare parts



Dry Pit Solids Handling Centrifugal Pumps



Item No.	Name of Part	Item No.	Name of Part	Item No.	Name of Part
1	Casing	46	Coupling Key	* 217	"O" Ring
2	Impeller	* 47	Lip Seal (Inboard)	218	Cap Screw
6	Pump Shaft	* 49	Lip Seal (Outboard)	219	Cap Screw
9	Suction Cover	53	Base	* 220	"O" Ring
11	Packing Box Cover	57	Suction Elbow	221	Cap Screw
* 13	Packing	59	Handhole Cover	223	Handhole Cover
* 14	Shaft Sleeve	69	Bearing Lockwasher	224	Cap Screw
* 16	Ball Bearing (Inboard)	* 73	Casing Gasket	226	Cap Screw
17	Split Gland	201	Cap Screw	* 227	Suction Elbow Gasket
* 18	Ball Bearing (Outboard)	203	Nameplate	229	Washer
19	Frame	204	Adjusting Locknut	230	Hex Nut
22	Bearing Locknut	206	Split Gland Clip	231	Pipe Plug
* 26	Impeller Screw - Self Locking	207	Grease Fitting	240	Pipe Plug
29	Lantern Ring	208	Pipe Plug	242	Grease Fitting
* 30	Impeller Washer Gasket	209	Machine Bolt	243	Grease Fitting
32	Impeller Key	210	Hex Nut	264	Pipe Plug
33	Bearing Housing (Outboard)	212	Cap Screw	270	Impeller Washer
35	Bearing Cover (Inboard)	213	Cap Screw	* 272	Impeller Screw "O" Ring
37	Bearing Cover (Outboard)	214	Drive Screw - Nameplate	279	Shaft Sleeve Key
* 38	Shaft Sleeve Gasket	215	Cap Screw	286	Cap Screw
40	Deflector	216	Pipe Plug	332	Cap Screw

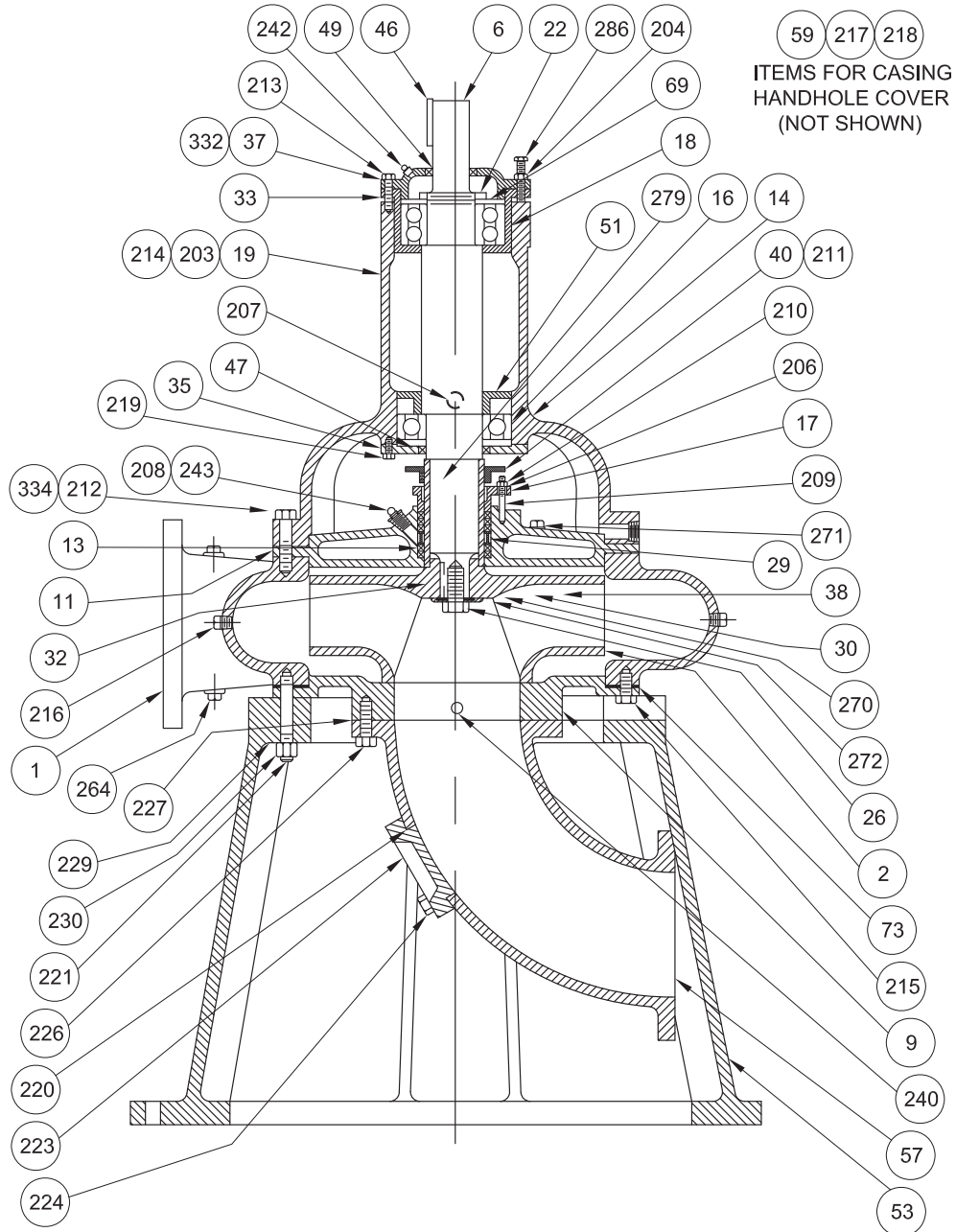
* Recommended spare parts

Dry Pit Solids Handling Centrifugal Pumps

Fig. 7158, 7159

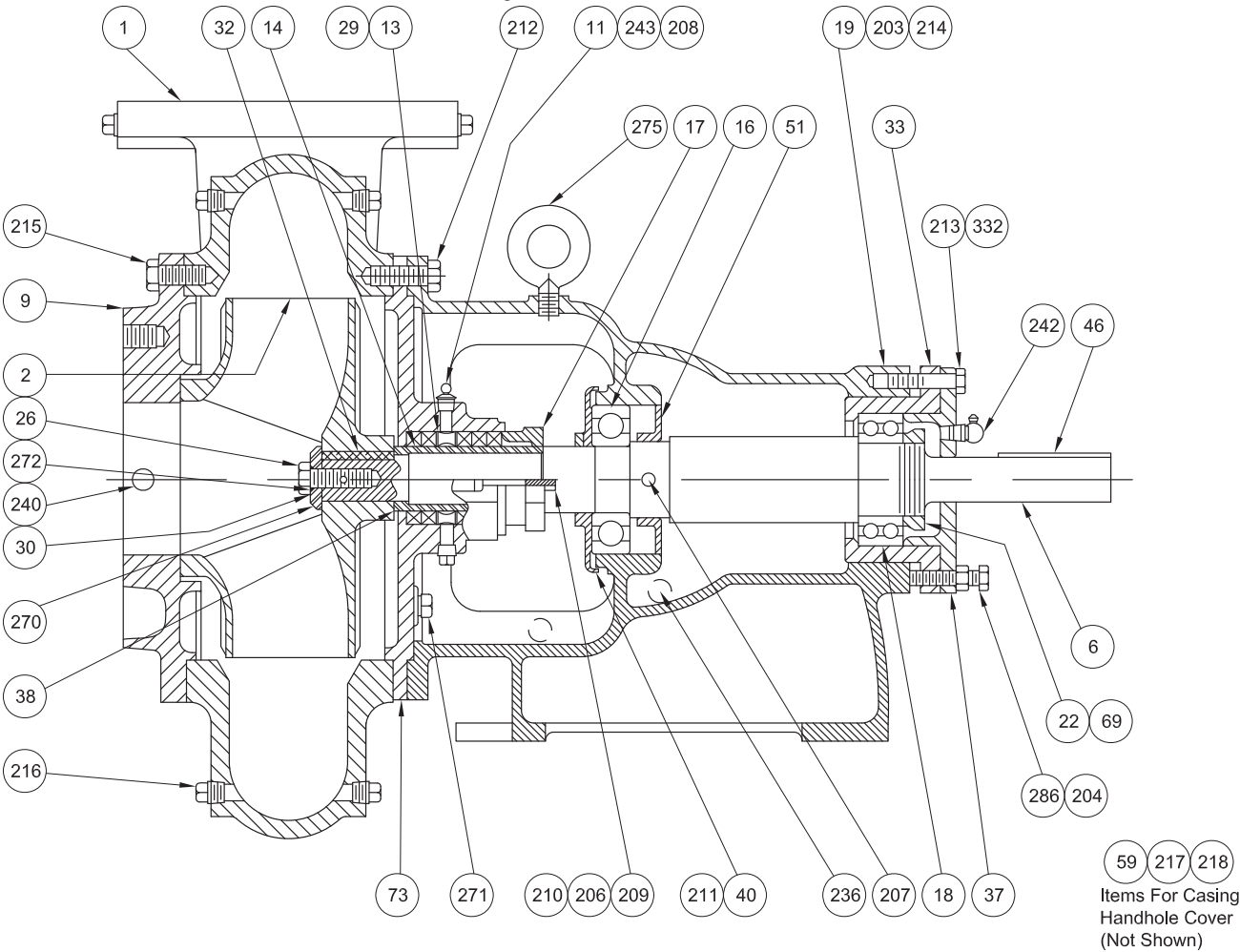
Item No.	Name of Part
1	Casing
2	Impeller
6	Pump Shaft
9	Suction Cover
11	Packing Box Cover
* 13	Packing
* 14	Shaft Sleeve
* 16	Ball Bearing (Inboard)
17	Split Gland
* 18	Ball Bearing (Outboard)
19	Frame
22	Bearing Locknut
* 26	Impeller Screw - Self Locking
29	Lantern Ring
* 30	Impeller Washer Gasket
* 32	Impeller Key
33	Bearing Housing (Outboard)
35	Bearing Cover (Inboard)
37	Bearing Cover (Outboard)
* 38	Shaft Sleeve Gasket
40	Deflector
46	Coupling Key
47	Lip Seal (Inboard)
49	Lip Seal (Outboard)
51	Grease Retainer
53	Base
57	Suction Elbow
59	Handhole Cover
69	Bearing Lockwasher
* 73	Casing Gasket
203	Nameplate
204	Adjusting Locknut
206	Split Gland Clip
207	Grease Fitting
208	Pipe Plug
209	Machine Bolt
210	Hex Nut
211	Set Screw
212	Cap Screw
213	Cap Screw
214	Drive Screw - Nameplate
215	Cap Screw
216	Pipe Plug
* 217	"O" Ring
218	Cap Screw
219	Cap Screw
* 220	"O" Ring
221	Cap Screw
223	Handhole Cover
224	Cap Screw
226	Cap Screw
* 227	Suction Elbow Gasket
229	Washer
230	Hex Nut
240	Pipe Plug
242	Grease Fitting
243	Grease Fitting
264	Pipe Plug
270	Impeller Washer
271	Pipe Plug
* 272	Impeller Screw "O" Ring
279	Shaft Sleeve Key
286	Screw
332	Cap Screw
334	Cap Screw

* Recommended spare parts



Dry Pit Solids Handling Centrifugal Pumps

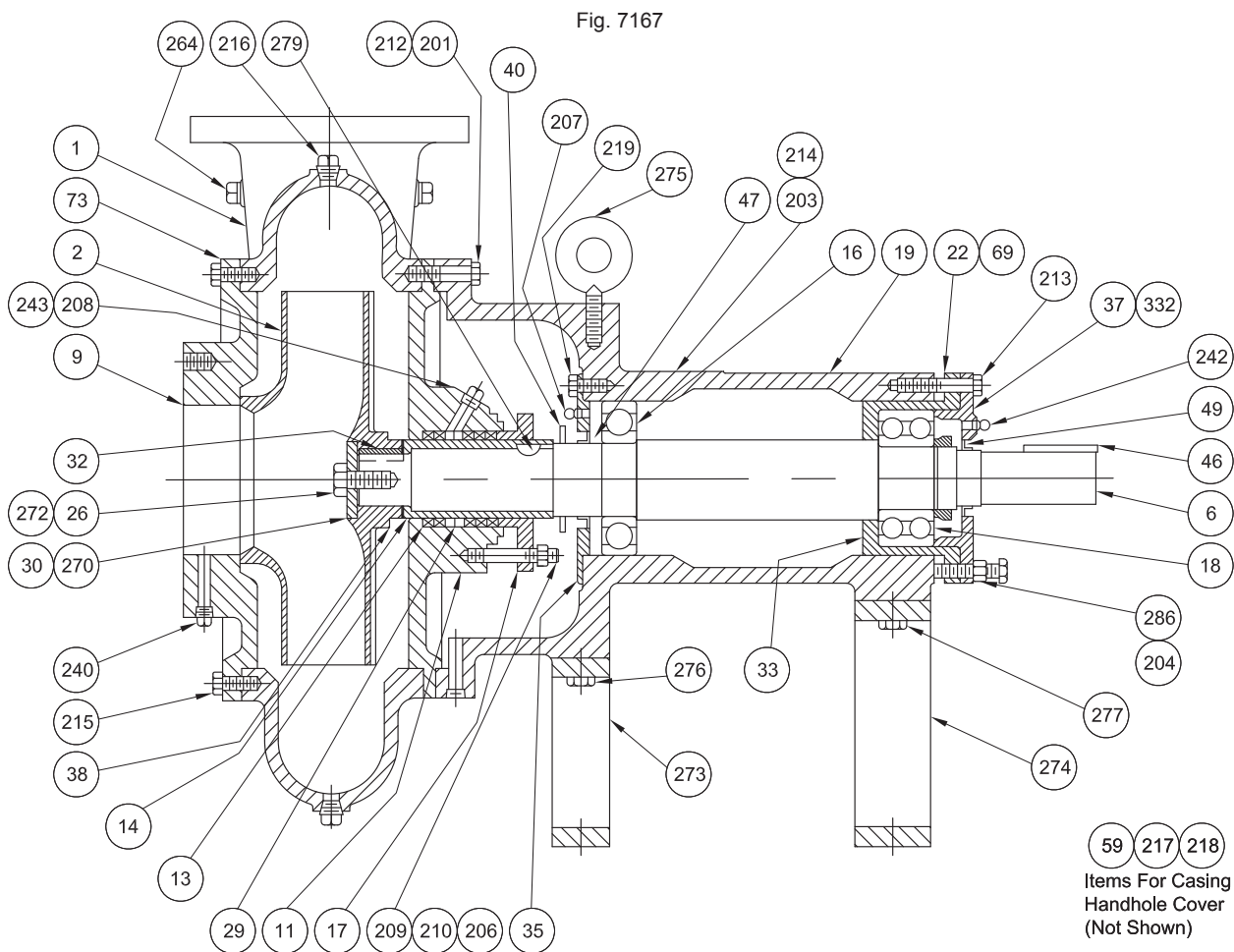
Fig. 7163, 7165, 7166, 7166H



Item No.	Name of Part	Item No.	Name of Part	Item No.	Name of Part
1	Casing	37	Bearing Cover (Outboard)	213	Cap Screw
2	Impeller	* 38	Shaft Sleeve Gasket	214	Drive Screw - Nameplate
6	Pump Shaft	40	Deflector	215	Cap Screw
9	Suction Cover	46	Coupling Key	216	Pipe Plug
11	Packing Box Cover	51	Grease Retainer	* 217	Handhole "O" Ring
* 13	Packing	59	Handhole Cover	218	Cap Screw
* 14	Shaft Sleeve	69	Bearing Lockwasher	236	Pipe Plug
* 16	Ball Bearing (Inboard)	* 73	Casing Gasket	240	Pipe Plug
17	Split Gland	203	Nameplate	242	Grease Fitting
* 18	Ball Bearing (Outboard)	204	Adjusting Locknut	243	Grease Fitting
19	Frame	206	Split Gland Clip	270	Impeller Washer
22	Bearing Locknut	207	Grease Fitting	271	Pipe Plug
* 26	Impeller Screw - Self Locking	208	Pipe Plug	* 272	Impeller Screw "O" Ring
* 29	Lantern Ring	209	Machine Bolt	275	Eye Bolt
* 30	Impeller Washer Gasket	210	Hex Nut	286	Cap Screw
* 32	Impeller Key	211	Set Screw	332	Cap Screw
33	Bearing Housing (Outboard)	212	Cap Screw		

* Recommended spare parts

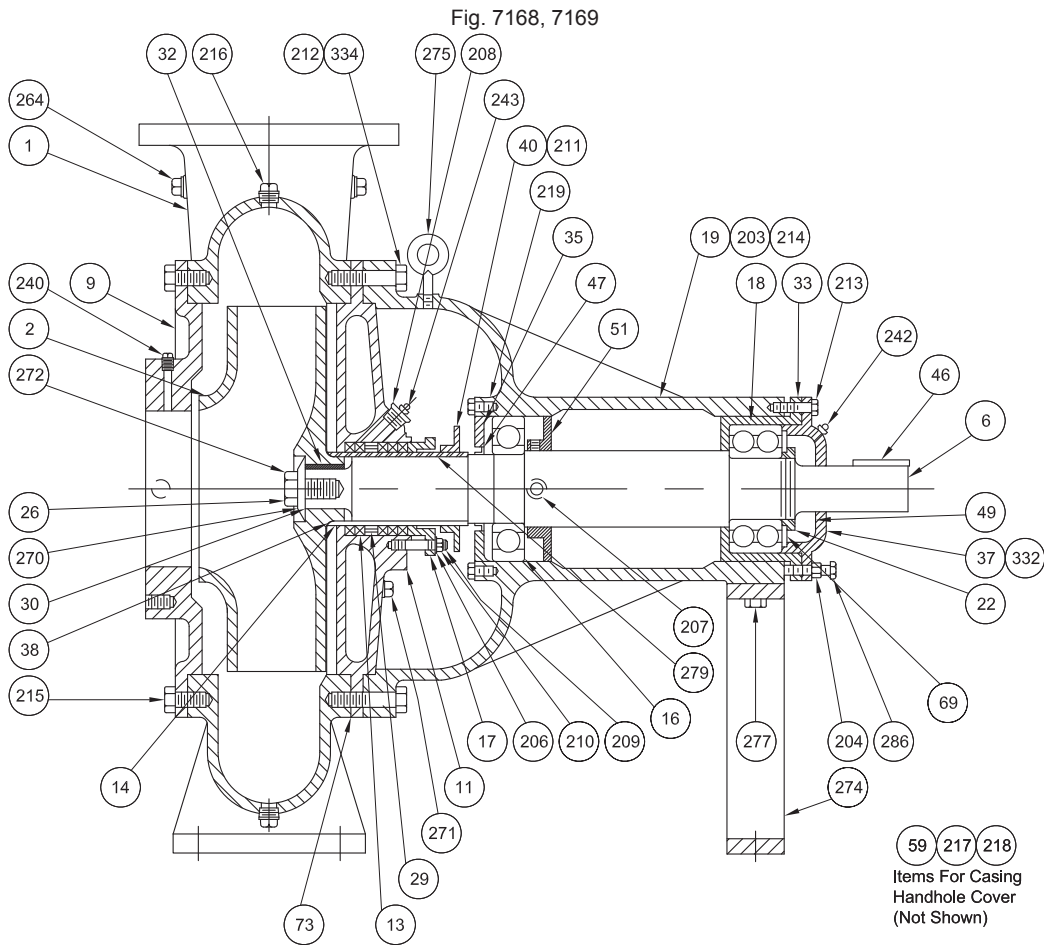
Dry Pit Solids Handling Centrifugal Pumps



Item No.	Name of Part	Item No.	Name of Part	Item No.	Name of Part
1	Casing	* 38	Shaft Sleeve Gasket	215	Cap Screw
2	Impeller	40	Deflector	216	Pipe Plug
6	Pump Shaft	46	Coupling Key	* 217	Handhole "O" Ring
9	Suction Cover	47	Lip Seal (Inboard)	218	Cap Screw
11	Packing Box Cover	49	Lip Seal (Outboard)	219	Cap Screw
* 13	Packing	59	Handhole Cover	240	Pipe Plug
* 14	Shaft Sleeve	69	Bearing Lockwasher	242	Grease Fitting
* 16	Ball Bearing (Inboard)	* 73	Casing Gasket	243	Grease Fitting
17	Split Gland	201	Cap Screw	264	Pipe Plug
* 18	Ball Bearing (Outboard)	203	Nameplate	270	Impeller Washer
19	Frame	204	Adjusting Locknut	* 272	Impeller Screw "O" Ring
22	Bearing Locknut	206	Split Gland Clip	273	Frame Foot (Front)
* 26	Impeller Screw - Self Locking	207	Grease Fitting	274	Frame Foot (Rear)
* 29	Lantern Ring	208	Pipe Plug	275	Eye Bolt
* 30	Impeller Washer Gasket	209	Machine Bolt	276	Cap Screw
* 32	Impeller Key	210	Hex Nut	277	Cap Screw
33	Bearing Housing (Outboard)	212	Cap Screw	279	Woodruff Key
35	Bearing Cover (Inboard)	213	Cap Screw	286	Cap Screw
37	Bearing Cover (Outboard)	214	Drive Screw - Nameplate	332	Cap Screw

* Recommended spare parts

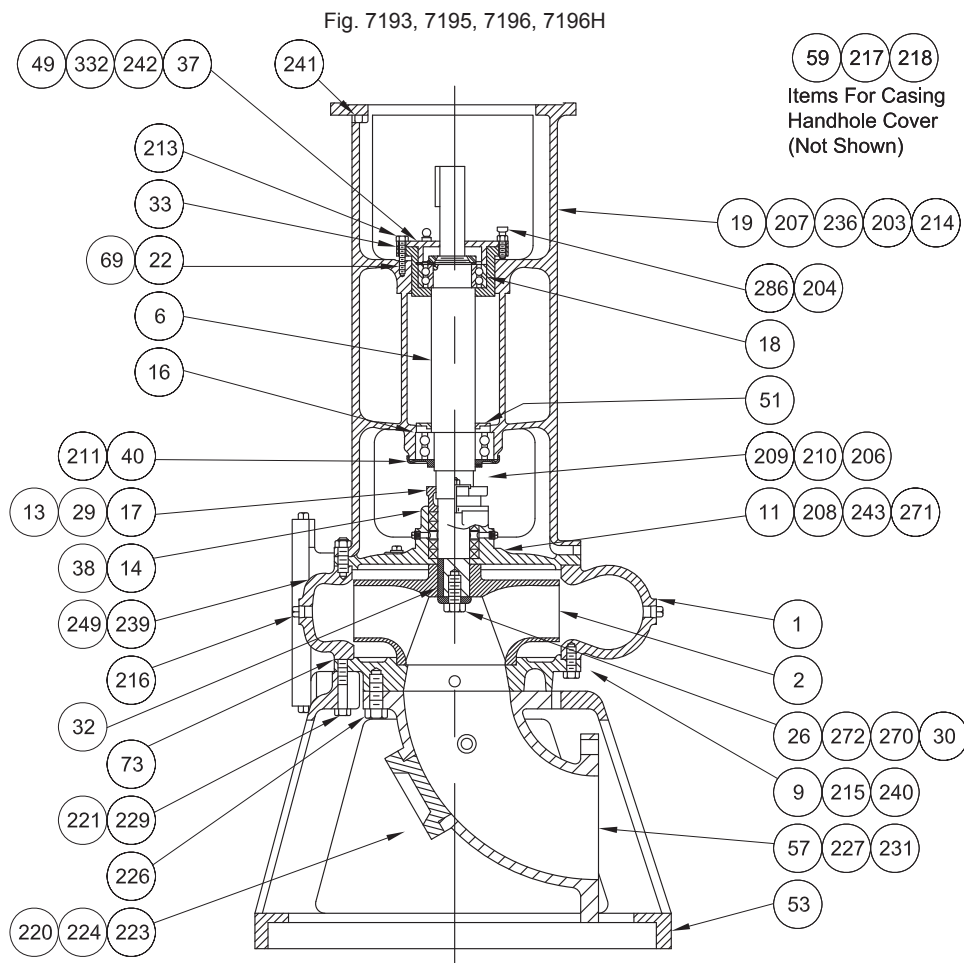
Dry Pit Solids Handling Centrifugal Pumps



Item No.	Name of Part	Item No.	Name of Part	Item No.	Name of Part
1	Casing	40	Deflector	215	Cap Screw
2	Impeller	46	Coupling Key	216	Pipe Plug
6	Pump Shaft	47	Lip Seal (Inboard)	* 217	Handhole "O" Ring
9	Suction Cover	49	Lip Seal (Outboard)	218	Cap Screw
11	Packing Box Cover	51	Grease Retainer	219	Cap Screw
* 13	Packing	59	Handhole Cover	240	Pipe Plug
* 14	Shaft Sleeve	69	Bearing Lockwasher	242	Grease Fitting
* 16	Ball Bearing (Inboard)	* 73	Casing Gasket	243	Grease Fitting
17	Split Gland	203	Nameplate	264	Pipe Plug
* 18	Ball Bearing (Outboard)	204	Adjusting Locknut	270	Impeller Washer
19	Frame	206	Split Gland Clip	271	Pipe Plug
22	Bearing Locknut	207	Grease Fitting	* 272	Impeller Screw "O" Ring
* 26	Impeller Screw - Self Locking	208	Pipe Plug	274	Frame Foot
* 29	Lantern Ring	209	Machine Bolt	275	Eye Bolt
* 30	Impeller Washer Gasket	210	Hex Nut	277	Cap Screw
* 32	Impeller Key	211	Set Screw	279	Shaft Sleeve Key
33	Bearing Housing (Outboard)	212	Cap Screw	286	Jack Screw
35	Bearing Cover (Inboard)	213	Cap Screw	332	Cap Screw
37	Bearing Cover (Outboard)	214	Drive Screw - Nameplate	334	Cap Screw
* 38	Shaft Sleeve Gasket				

* Recommended spare parts

Dry Pit Solids Handling Centrifugal Pumps



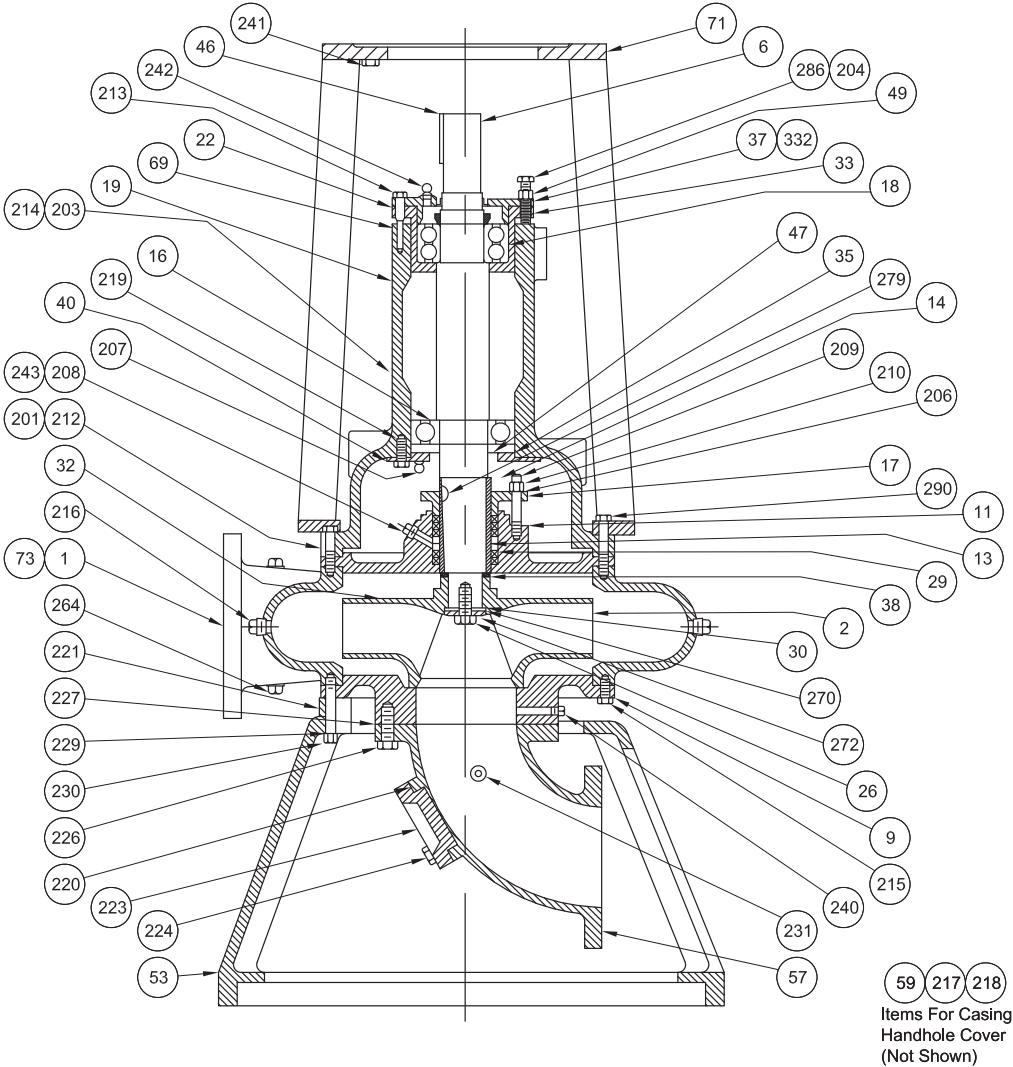
Item No.	Name of Part	Item No.	Name of Part	Item No.	Name of Part
1	Casing	49	Lip Seal (Outboard)	218	Cap Screw
2	Impeller	51	Grease Retainer	* 220	"O" Ring
6	Pump Shaft	53	Base	221	Cap Screw
9	Suction Cover	57	Suction Elbow	223	Handhole Cover
11	Packing Box Cover	59	Handhole Cover	224	Cap Screw
* 13	Packing	69	Bearing Lockwasher	226	Cap Screw
* 14	Shaft Sleeve	* 73	Casing Gasket	* 227	Suction Elbow Gasket
* 16	Ball Bearing (Inboard)	203	Nameplate	229	Washer
17	Split Gland	204	Adjusting Locknut	231	Pipe Plug
* 18	Ball Bearing (Outboard)	206	Split Gland Clip	236	Pipe Plug
19	Frame	207	Grease Fitting	239	Stud
22	Bearing Locknut	208	Pipe Plug	240	Pipe Plug
* 26	Impeller Screw - Self Locking	209	Machine Bolt	241	Cap Screw
* 29	Lantern Ring	210	Hex Nut	242	Grease Fitting
* 30	Impeller Washer Gasket	211	Set Screw	243	Grease Fitting
* 32	Impeller Key	213	Cap Screw	249	Hex Nut
33	Bearing Housing (Outboard)	214	Drive Screw - Nameplate	270	Impeller Washer
37	Bearing Cover (Outboard)	215	Cap Screw	271	Pipe Plug
* 38	Shaft Sleeve Gasket	216	Pipe Plug	* 272	Impeller Screw "O" Ring
40	Deflector	* 217	Handhole "O" Ring	286	Cap Screw
				332	Cap Screw

* Recommended spare parts

Dry Pit Solids Handling Centrifugal Pumps

Fig. 7197

Item No.	Name of Part
1	Casing
2	Impeller
6	Pump Shaft
9	Suction Cover
11	Packing Box Cover
* 13	Packing
* 14	Shaft Sleeve
* 16	Ball Bearing (Inboard)
17	Split Gland
* 18	Ball Bearing (Outboard)
19	Frame
22	Bearing Locknut
* 26	Impeller Screw - Self Locking
29	Lantern Ring
* 30	Impeller Washer Gasket
32	Impeller Key
33	Bearing Housing (Outboard)
35	Bearing Cover (Inboard)
37	Bearing Cover (Outboard)
* 38	Shaft Sleeve Gasket
40	Deflector
46	Coupling Key
* 47	Lip Seal (Inboard)
49	Lip Seal (Outboard)
53	Vertical Base
57	Suction Elbow
59	Handhole Cover
69	Bearing Lockwasher
71	Motor Adapter
* 73	Casing Gasket
201	Cap Screw
203	Nameplate
204	Adjusting Locknut
206	Split Gland Clip
207	Grease Fitting
208	Pipe Plug
209	Machine Bolt
210	Hex Nut
212	Set Screw
213	Cap Screw
214	Drive Screw - Nameplate
215	Cap Screw
216	Pipe Plug
* 217	Handhole "O" Ring
218	Cap Screw
219	Cap Screw
* 220	"O" Ring
221	Cap Screw
223	Handhole Cover
224	Cap Screw
226	Cap Screw
* 227	Suction Elbow Gasket
229	Washer
230	Nut
231	Pipe Plug
240	Pipe Plug
241	Cap Screw
242	Grease Fitting
243	Grease Fitting
264	Pipe Plug
270	Impeller Washer
* 272	Impeller Screw "O" Ring
279	Woodruff Key
286	Cap Screw
290	Cap Screw
332	Cap Screw

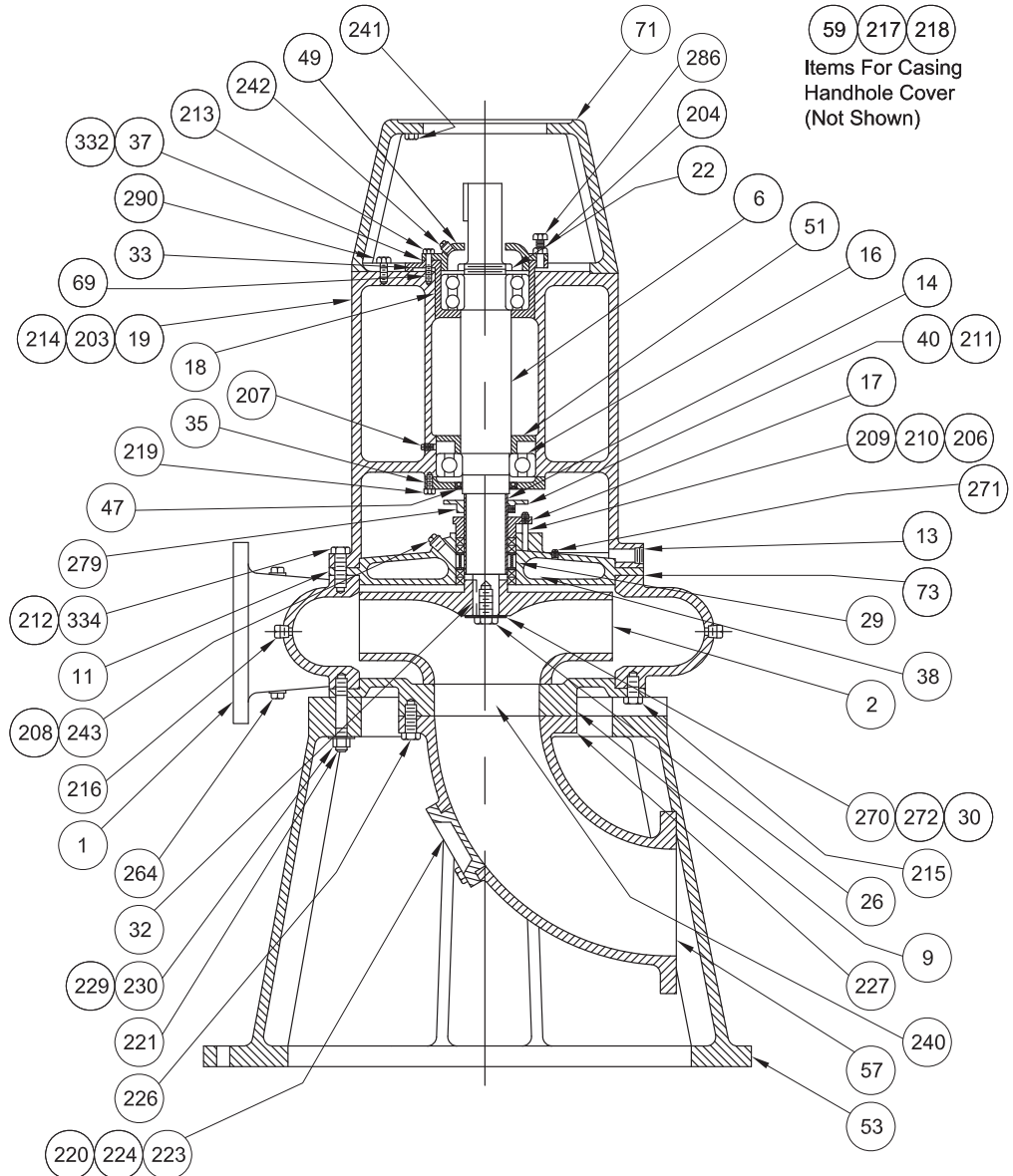


* Recommended spare parts

Dry Pit Solids Handling Centrifugal Pumps

Fig. 7198, 7199

Item No.	Name of Part
1	Casing
2	Impeller
6	Pump Shaft
9	Suction Cover
11	Packing Box Cover
* 13	Packing
* 14	Shaft Sleeve
* 16	Ball Bearing (Inboard)
17	Split Gland
* 18	Ball Bearing (Outboard)
19	Frame
22	Bearing Locknut
* 26	Impeller Screw - Self Locking
* 29	Lantern Ring
* 30	Impeller Washer Gasket
* 32	Impeller Key
33	Bearing Housing (Outboard)
35	Bearing Cover (Inboard)
37	Bearing Cover (Outboard)
* 38	Shaft Sleeve Gasket
40	Deflector
47	Lip Seal (Inboard)
49	Lip Seal (Outboard)
51	Grease Retainer
53	Base
57	Suction Elbow
59	Handhole Cover
69	Bearing Lockwasher
71	Motor Adapter
* 73	Casing Gasket
203	Nameplate
204	Adjusting Locknut
206	Split Gland Clip
207	Grease Fitting
208	Pipe Plug
209	Machine Bolt
210	Hex Nut
211	Set Screw
212	Cap Screw
213	Cap Screw
214	Drive Screw - Nameplate
215	Cap Screw
216	Pipe Plug
* 217	"O" Ring
218	Cap Screw
219	Cap Screw
220	"O" Ring
221	Stud/Cap Screw
223	Handhole Cover
224	Cap Screw
226	Cap Screw
227	Suction Elbow Gasket
229	Lockwasher
230	Hex Nut
240	Pipe Plug
241	Cap Screw
242	Grease Fitting
243	Grease Fitting
264	Pipe Plug
270	Impeller Washer
271	Pipe Plug
* 272	Impeller Screw "O" Ring
279	Shaft Sleeve Key
286	Jack Screw
290	Cap Screw
332	Cap Screw
334	Cap Screw

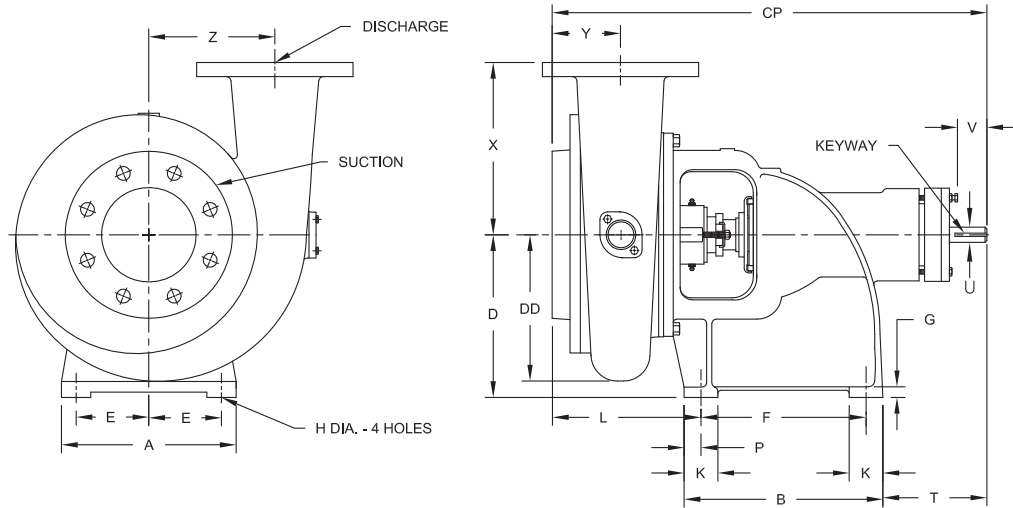


For 7199, Liquid End components are not available, frame parts only
 * Recommended spare parts

Dry Pit Solids Handling Centrifugal Pumps

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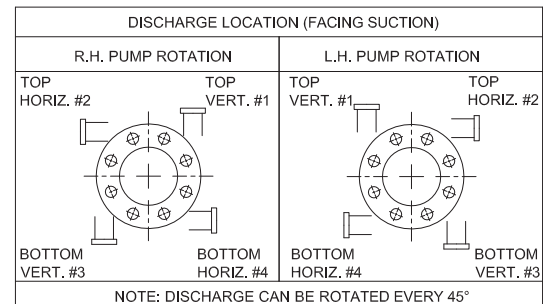
Dry Pit Solids Handling Centrifugal Pumps



SUCTION	DISCHARGE	MAX. IMP. DIA.	SOLIDS	FRAME	DIMENSIONS IN INCHES																	
					A	B	CP	D	DD	E	F	G	H	K	L	P	T	U	V	X	Y	Z
2	2	7¼	1½	3	7	10½	21 ¹³ / ₁₆	6¼	5 ¹³ / ₁₆	3	8¼	⁷ / ₁₆	⁷ / ₁₆	2	7¾	1⅞	4¾	1	1⅞	5½	3⅞	4⅞
4	4	7¼	3	3	7	10½	23⅞	6¼	8⅞	3	8¼	⁷ / ₁₆	⁷ / ₁₆	2	9 ⁹ / ₁₆	1⅞	4¾	1	1⅞	8	4⅞	7
2	2	9½	1½	3	7	10½	22⅞	6¼	7	3	8¼	⁷ / ₁₆	⁷ / ₁₆	2	8 ¹ / ₁₆	1⅞	4¾	1	1⅞	6½	3¼	5¼
3	3	9½	2	5	8	11½	25⅞	7	7 ⁹ / ₁₆	3⅞	8½	½	⅝	2⅝	9¼	1½	5⅞	1¼	3¼	6¾	3⅞	6⅞
4	3	9½	2	5	8	11½	25⅞	7	7 ⁹ / ₁₆	3⅞	8½	½	⅝	2⅝	9¼	1½	5⅞	1¼	3¼	6¾	3⅞	6⅞
4	4	9½	2	5	8	11½	25⅞	7	7 ⁹ / ₁₆	3⅞	8½	½	⅝	2⅝	9¼	1½	5⅞	1¼	3¼	8	3⅞	6⅞
4	4	9½	3	5	8	11½	26⅞	7	9⅞	3⅞	8½	½	⅝	2⅝	10¼	1½	5⅞	1¼	3¼	10	4⅞	7⅞
5	4	9½	3	5	8	11½	26¼	7	9⅞	3⅞	8½	½	⅝	2⅝	10⅞	1½	5⅞	1¼	3¼	10	4½	7⅞
3	3	12	2	6	10	14	29 ⁹ / ₁₆	9	9 ³ / ₁₆	4¼	11	¾	¾	2⅝	9½	1½	7 ⁹ / ₁₆	1½	3½	8	4⅞	7⅞
4	3	12	2	6	10	14	29 ⁹ / ₁₆	9	9 ³ / ₁₆	4¼	11	¾	¾	2⅝	9½	1½	7 ⁹ / ₁₆	1½	3½	8	4⅞	7⅞
4	4	12	2	6	10	14	29 ⁹ / ₁₆	9	9 ³ / ₁₆	4¼	11	¾	¾	2⅝	9½	1½	7 ⁹ / ₁₆	1½	3½	9½	4⅞	7⅞
4	4	12	3	6	10	14	30 ⁹ / ₁₆	9	11	4¼	11	¾	¾	2⅝	10½	1½	7 ⁹ / ₁₆	1½	3½	12	4⅞	9
6	4	12	3	6	10	14	30 ⁹ / ₁₆	9	11	4¼	11	¾	¾	2⅝	10½	1½	7 ⁹ / ₁₆	1½	3½	12	4⅞	9
6	6	12	3	6	10	14	30 ⁹ / ₁₆	9	11⅞	4¼	11	¾	¾	2⅝	10½	1½	7 ⁹ / ₁₆	1½	3½	9½	4⅞	9½
8	6	12	3	6	10	14	30 ⁹ / ₁₆	9	11⅞	4¼	11	¾	¾	2⅝	10½	1½	7 ⁹ / ₁₆	1½	3½	9½	4⅞	9½
8	8	15	3	6H	10	14	31 ⁹ / ₁₆	9	14 ⁹ / ₁₆	4¼	11	¾	¾	2⅝	11½	1½	7 ⁹ / ₁₆	1½	3½	15½	5⅞	11¼

KEYWAYS	$\frac{1}{4} \times \frac{1}{8} \times 2$ LG	$\frac{1}{4} \times \frac{1}{8} \times 3\frac{1}{2}$ LG	$\frac{3}{8} \times \frac{3}{16} \times 3\frac{1}{2}$ LG
PUMP SIZE	2 x 2 x 7 $\frac{1}{4}$ x 1 $\frac{1}{2}$	3 x 3 x 9 $\frac{1}{2}$ x 2	3 x 3 x 12 x 2
	4 x 4 x 7 $\frac{1}{4}$ x 3	4 x 3 x 9 $\frac{1}{2}$ x 2	4 x 3 x 12 x 2
	2 x 2 x 9 $\frac{1}{2}$ x 1 $\frac{1}{2}$	4 x 4 x 9 $\frac{1}{2}$ x 2	4 x 4 x 12 x 2
		4 x 4 x 9 $\frac{1}{2}$ x 3	4 x 4 x 12 x 3
		5 x 4 x 9 $\frac{1}{2}$ x 3	6 x 4 x 12 x 3
			6 x 6 x 12 x 3
			8 x 6 x 12 x 3
			8 x 8 x 15 x 3

1. Suction and Discharge Flanges Fit 125# A.S.A. Standard



Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

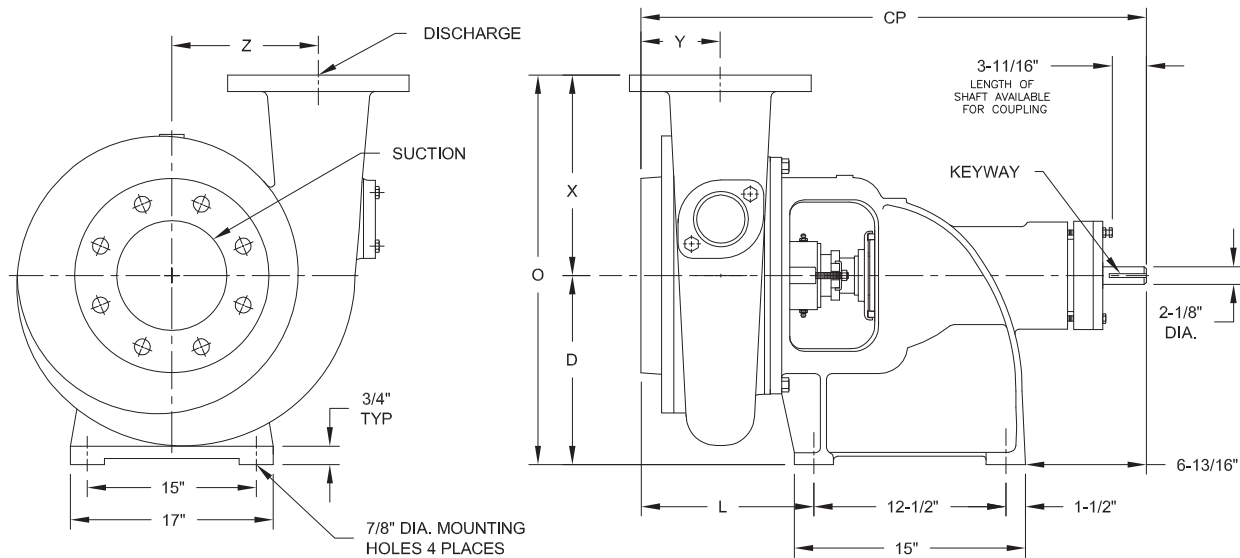
Fig. 7167

Basic Horizontal Pump
Bulletin 7100

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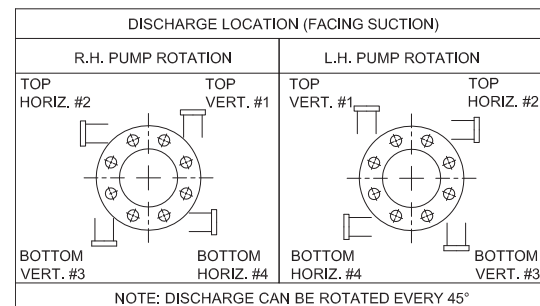
Dry Pit Solids Handling Centrifugal Pumps



DIMENSIONS IN INCHES

SIZE	SUCTION	DIS-CHARGE	FRAME	L	O	X	Y	Z	CP	D
6 x 6 x 15 x 3	6	6	7	15 ³ / ₄ "	29 ¹ / ₂ "	14 ¹ / ₂ "	5 ⁷ / ₈ "	12 ¹ / ₄ "	36 ⁹ / ₁₆ "	15"
8 x 8 x 15 x 4	8	8	7	16 ³ / ₈ "	31 ¹ / ₂ "	16 ¹ / ₂ "	6 ¹ / ₈ "	13 ¹ / ₂ "	37 ³ / ₁₆ "	15"

SHAFT KEYWAY: 1/2" x 1/4" x 2¹³/₁₆" LONG



1. Suction and Discharge Flanges Fit 125# A.S.A. Standard

Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

SECTION 45-SS
PAGE 26
DATE 4/15

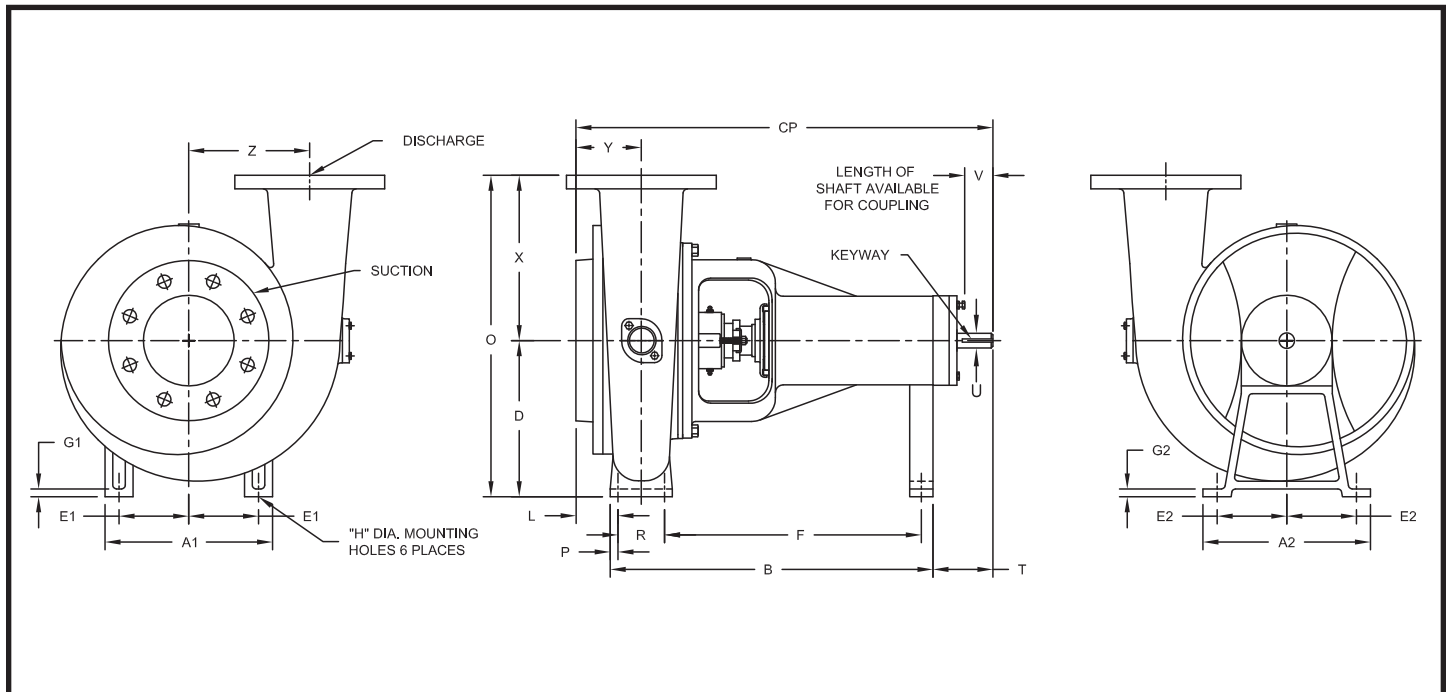
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Dry Pit Solids Handling Centrifugal Pumps



SUCTION	DISCHARGE	MAX. IMP. DIA.	SOLIDS	FRAME SIZE	DIMENSIONS IN INCHES																				
					A1	A2	B	CP	D	E1	E2	F	G1	G2	H	L	O	P	R	T	U	V	X	Y	Z
6	4	15	3	8	18½	17	29¾	36¾	15	7½	7½	21¾	¾	¾	⅞	1⅞	28	1	5	6⅞ ₁₆	2%	3%	13	4%	10½
6	6	15	3	8	18½	17	30¼	39%	15	7½	7½	22¾	¾	¾	⅞	3¾	29½	1	5	6½	2%	3%	14½	5%	12¼
8	6	15	4	8	18½	17	30¼	39	15	7½	7½	22¾	¾	¾	⅞	3¾	29½	1	5	6⅞ ₁₆	2%	3%	14½	5%	12¼
8	8	15	4	8	20½	18	32%	39¾	19	8	8	21¾	1	¾	⅞	2¼	35½	1¼	7½	6⅞ ₁₆	2%	3%	16½	6	13½
8	6	19	4	8	20½	18	31%	39	19	8	8	21¾	1	¾	⅞	2	36	1¼	7½	6 ¹³ / ₁₆	2%	3%	17	5¼	13½
8	8	19	4	8	20½	18	32	39 ¹⁵ / ₁₆	19	8	8	21¼	1	¾	⅞	2	38	1¼	7½	6⅞ ₁₆	2%	3%	19	6%	15
10	8	19	4	8	20½	18	32	39 ¹⁵ / ₁₆	19	8	8	21¼	1	¾	⅞	2%	38	1¼	7½	6%	2%	3%	19	6%	15

KEYWAYS	5/8 x 5/16 x 2¾
PUMP SIZE	6 x 4 x 15 x 3
	6 x 6 x 15 x 3
	8 x 6 x 15 x 4
	8 x 8 x 15 x 4
	8 x 6 x 19 x 4
	8 x 8 x 19 x 4
	10 x 8 x 19 x 4

DISCHARGE LOCATION (FACING SUCTION)			
R.H. PUMP ROTATION		L.H. PUMP ROTATION	
TOP HORIZ. #2	TOP VERT. #1	TOP VERT. #1	TOP HORIZ. #2
NOTE: DISCHARGE CAN BE ROTATED EVERY 45°			

1. Suction and Discharge Flanges Fit 125# A.S.A. Standard

Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

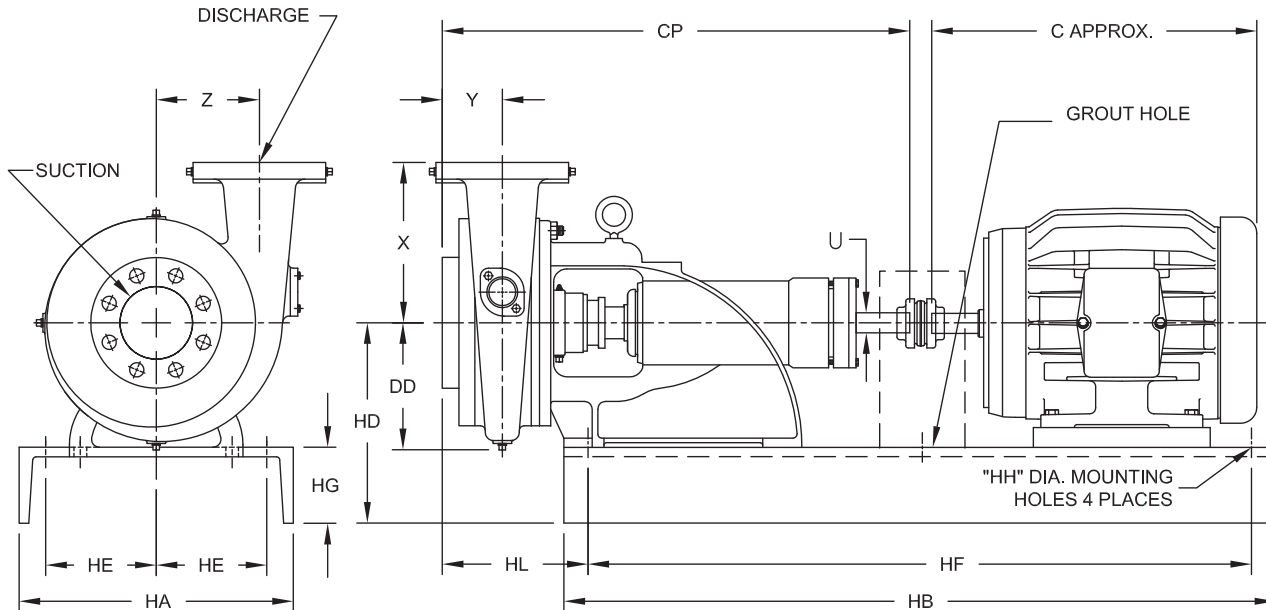
Fig. 7163

Basic Horizontal Pump
Bulletin 7100

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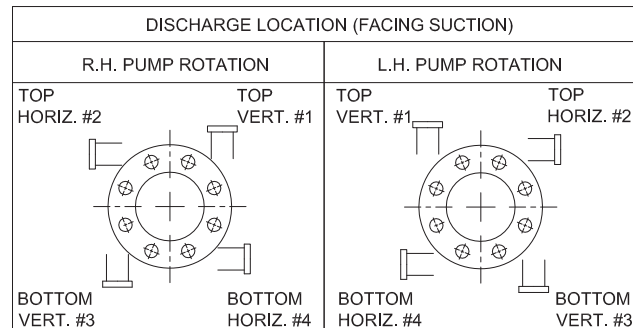
Dry Pit Solids Handling Centrifugal Pumps



DIMENSIONS IN INCHES

PUMP SIZE	SOLIDS	SUCTION #125				DISCHARGE #125				CP	DD	HL	U	X	Y	Z
		SIZE	DIA. FIG.	# - BOLTS	B.C.	SIZE	DIA. FIG.	# - BOLTS	B.C.							
2 x 2 x 7¼	1½	2	6	4 - ½	4¾	2	6	4 - ½	4¾	21 ¹³ / ₁₆	5 ¹³ / ₁₆	7 ⁷ / ₈	1	5½	3 ³ / ₈	4 ⁵ / ₈
4 x 4 x 7¼	3	4	9	8 - ½	7½	4	9	8 - ½	7½	23 ³ / ₈	8 ⁵ / ₈	9 ¹¹ / ₁₆	1	8	4 ¹ / ₈	7
2 x 2 x 9½	1½	2	6	4 - ½	4¾	2	6	4 - ½	4¾	22 ¹ / ₂	7	8 ³ / ₁₆	1	6½	3¼	5¼

FRAME	143T	145T	182T	184T	213T	215T	254T	256T
BASE NO.	27501	27501	27502	27502	27503	27503	27504	27504
C	13 ³ / ₈	13 ³ / ₈	14 ¹ / ₂	15 ¹ / ₂	17 ¹ / ₄	19 ¹ / ₄	22 ¹ / ₂	24 ¹ / ₂
HA	12	12	12	12	12	12	15	15
HB	28	28	32	32	36	36	40	40
HD	9¼	9¼	9¼	9¼	9¼	9¼	9 ⁵ / ₈	9 ⁵ / ₈
HE	4¾	4¾	4¾	4¾	4¾	4¾	6	6
HF	25½	25½	29½	29½	33½	33½	37½	37½
HG	3	3	3	3	3	3	3 ³ / ₈	3 ³ / ₈
HH	¾	¾	¾	¾	¾	¾	¾	¾



BOTTOM HORIZONTAL AND VERTICAL DISCHARGES AVAILABLE
ONLY WITH SPECIAL FABRICATED BASES
NOTE: DISCHARGE CAN BE ROTATED EVERY 45°

1. Suction and Discharge Flanges Fit 125# A.S.A. Standard
2. "HL" Dimensions is to Base Mounting Holes/Frame Foot is Flush with Edge of Base

Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

SECTION 45-SS
PAGE 28
DATE 7/07

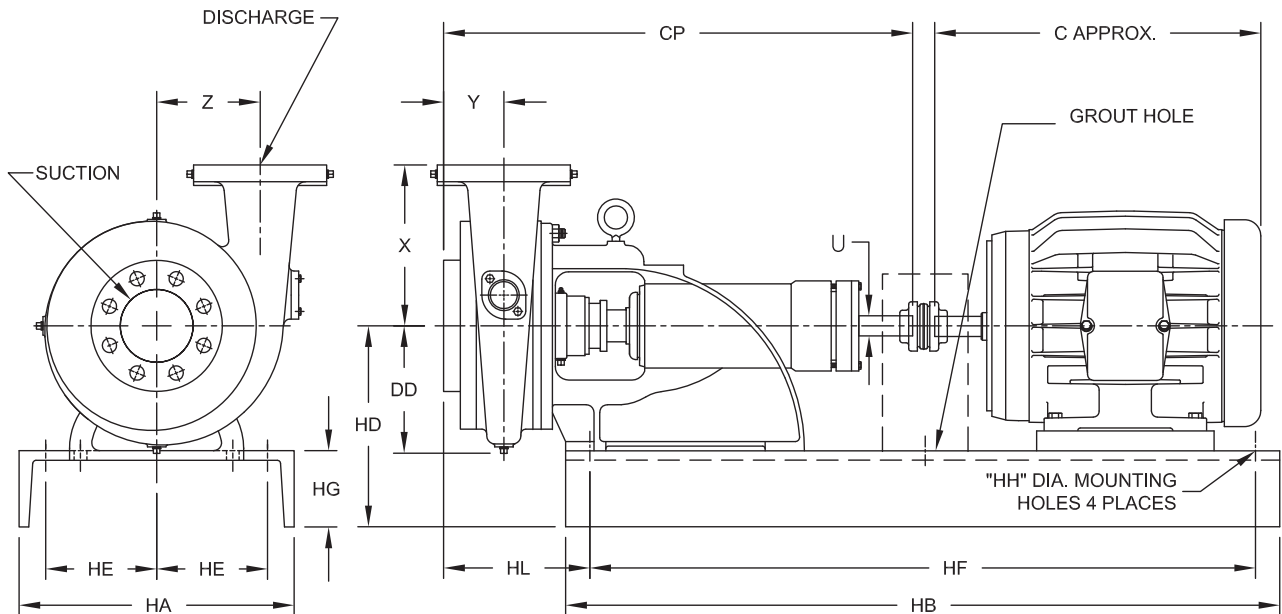
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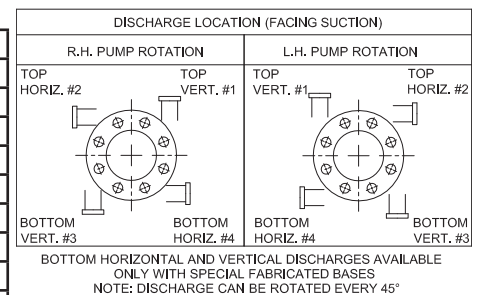
Dry Pit Solids Handling Centrifugal Pumps



DIMENSIONS IN INCHES

PUMP SIZE	SOLIDS	SUCTION #125				DISCHARGE #125				CP	DD	HL	U	X	Y	Z
		SIZE	DIA. FIG.	#-BOLTS	B.C.	SIZE	DIA. FIG.	#-BOLTS	B.C.							
3 x 3 x 9½	2	3	7½	4 - ⅝	6	3	7½	4 - ⅝	6	25½	7⅞	9	1¼	6¼	3⅝	6⅝
4 x 3 x 9½	2	4	9	8 - ⅝	7½	3	7½	4 - ⅝	6	25½	7⅞	9	1¼	6¼	3⅝	6⅝
4 x 4 x 9½	2	4	9	8 - ⅝	7½	4	9	8 - ⅝	7½	25½	7⅞	9	1¼	8	3⅝	6⅝
*4 x 4 x 9½	3	4	9	8 - ⅝	7½	4	9	8 - ⅝	7½	26½	9⅝	10	1¼	10	4⅝	7⅝
*5 x 4 x 9½	3	5	10	8 - ¾	8½	4	9	8 - ⅝	7½	26¼	9⅝	10⅝	1¼	10	4½	7⅝

FRAME	143T	145T	182T	184T	213T	215T	254T	256T	284TS	284T	286TS	286T
BASE NO.	27501	27502	27502	27503	27503	27503	27504	27505	27504	27505	27505	27505
C	13⅝	13⅝	14⅝	15⅝	17⅝	19¼	22⅝	24⅝	23⅞	24⅞	24⅞	26⅞
HA	12	12	12	12	12	12	15	15	15	15	15	15
HB	28	32	32	36	36	36	40	43	40	43	43	43
HD	10	10	10	10	10	10	10⅝	10⅝	10⅝	10⅝	10⅝	10⅝
HE	4¾	4¾	4¾	4¾	4¾	4¾	6	6	6	6	6	6
HF	25½	29½	29½	33½	33½	33½	37½	40½	37½	40½	40½	40½
HG	3	3	3	3	3	3	3⅝	3⅝	3⅝	3⅝	3⅝	3⅝
HH	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾
*HD	12	12	12	12	12	12	12⅝	12⅝	12⅝	12⅝	12⅝	12⅝
*HD	12	12	12	12	12	12	12⅝	12⅝	12⅝	12⅝	12⅝	12⅝



1. Suction and Discharge Flanges Fit 125# A.S.A. Standard
2. "HL" Dimensions is to Base Mounting Holes/Frame Foot is Flush with Edge of Base

Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

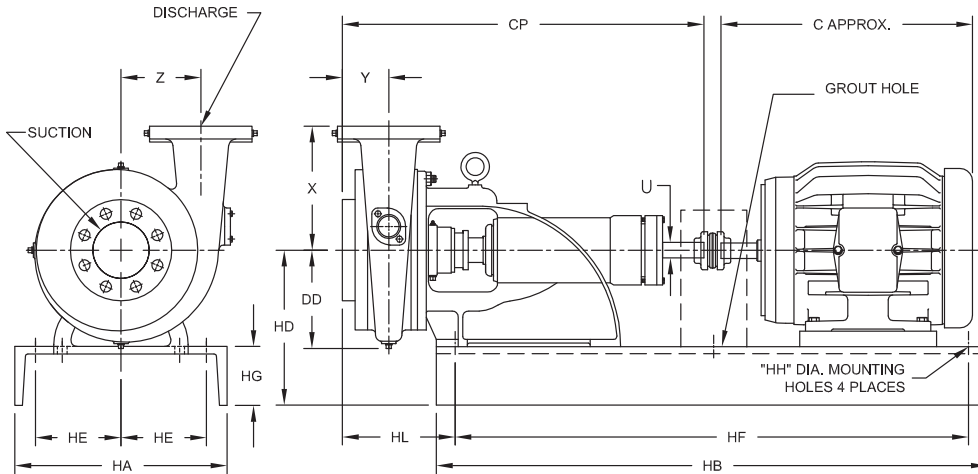
Fig. 7166

Basic Horizontal Pump
Bulletin 7100

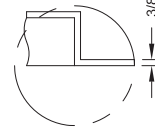
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+ FOR FRAME 404 AND LARGER ADD
1/4" TO "HL" DIMENSION

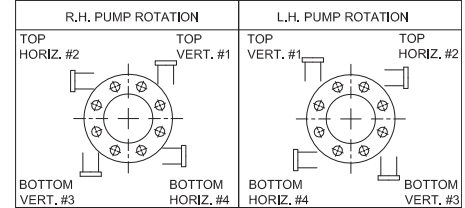


THIS STYLE BASE WITH GROUT HOLE
ON FRAME 404 AND LARGER

DIMENSIONS IN INCHES

PUMP SIZE	SOLIDS	SUCTION #125				DISCHARGE #125				CP	DD	HL	U	X	Y	Z
		SIZE	DIA. FIG.	#- BOLTS	B.C.	SIZE	DIA. FIG.	#- BOLTS	B.C.							
3 x 3 x 12	2	3	7 1/2	4 - 5/8	6	3	7 1/2	4 - 5/8	6	29 9/16	9 3/16	9 1/4	1 1/2	8	4 1/8	7 5/8
4 x 3 x 12	2	4	9	8 - 5/8	7 1/2	3	7 1/2	4 - 5/8	6	29 9/16	9 3/16	9 1/4	1 1/2	8	4 1/8	7 5/8
4 x 4 x 12	2	4	9	8 - 5/8	7 1/2	4	9	8 - 5/8	7 1/2	29 9/16	9 3/16	9 1/4	1 1/2	9 1/2	4 1/8	7 5/8
4 x 4 x 12	3	4	9	8 - 5/8	7 1/2	4	9	8 - 5/8	7 1/2	30 9/16	11	10 1/4	1 1/2	12	4 1/8	9
6 x 4 x 12	3	6	11	8 - 3/4	9 1/2	4	9	8 - 5/8	7 1/2	30 9/16	11	10 1/4	1 1/2	12	4 1/8	9
6 x 6 x 12	3	6	11	8 - 3/4	9 1/2	6	11	8 - 3/4	9 1/2	30 9/16	11 1/8	10 1/4	1 1/2	9 1/2	4 1/8	9 1/2
8 x 6 x 12	3	8	13 1/2	8 - 3/4	11 1/4	6	11	8 - 3/4	9 1/2	30 9/16	11 1/8	10 1/4	1 1/2	9 1/2	4 1/8	9 1/2
*8 x 8 x 15	3	8	13 1/2	8 - 3/4	11 1/4	8	13 1/2	8 - 3/4	11 1/4	31 9/16	14 9/16	11 1/4	1 1/2	15 1/2	5 1/8	11 3/4

DISCHARGE LOCATION (FACING SUCTION)



BOTTOM HORIZONTAL AND VERTICAL DISCHARGES AVAILABLE
ONLY WITH SPECIAL FABRICATED BASES
NOTE: DISCHARGE CAN BE ROTATED EVERY 45°

FRAME	213T	215T	254T	256T	284TS	284T	286TS	286T	324TS	324T	326TS	326T	364TS	364T	365TS	365T	404TS	404T	405TS	405T
BASE NO.	27504	27504	27505	27506	27506	27506	27506	27506	27508	27508	27508	27508	27508	27508	27508	27508	27510	27511	27510	27511
C	17 3/4	19 1/4	22 1/2	24 1/2	23 3/16	24 9/16	24 11/16	26 1/16	25 11/16	27 3/16	27 3/16	28 11/16	30 15/16	33 1/16	31 1/16	34 1/16	34 3/16	37 3/16	35 11/16	38 1/2
HA	15	15	15	15	15	15	15	15	18	18	18	18	18	18	18	18	25	25	25	25
HB	40	40	43	47	47	47	47	47	51	51	51	51	51	51	51	51	50	57	50	57
HD	12 3/8	12 3/8	12 3/8	12 3/8	12 3/8	12 3/8	12 3/8	12 3/8	13	13	13	13	13	13	13	13	14 1/2	14 1/2	14 1/2	14 1/2
HE	6	6	6	6	6	6	6	6	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	11 1/4	11 1/4	11 1/4	11 1/4
HF	37 1/2	37 1/2	40 1/2	44 1/2	44 1/2	44 1/2	44 1/2	44 1/2	48 1/2	48 1/2	48 1/2	48 1/2	48 1/2	48 1/2	48 1/2	48 1/2	47	54	47	54
HG	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	4	4	4	4	4	4	4	4	4 1/2	4 1/2	4 1/2	4 1/2
HH	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	7/8	7/8	7/8	7/8
*HD 8 x 8 x 15	15 3/8	15 3/8	15 3/8	15 3/8	15 3/8	15 3/8	15 3/8	15 3/8	15	15	15	15	15	15	15	15	15 1/2	15 1/2	15 1/2	15 1/2

1. Suction and Discharge Flanges Fit 125# A.S.A. Standard
2. "HL" Dimensions is to Base Mounting Holes/Frame Foot is Flush with Edge of Base

Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

SECTION 45-SS
PAGE 30
DATE 7/07

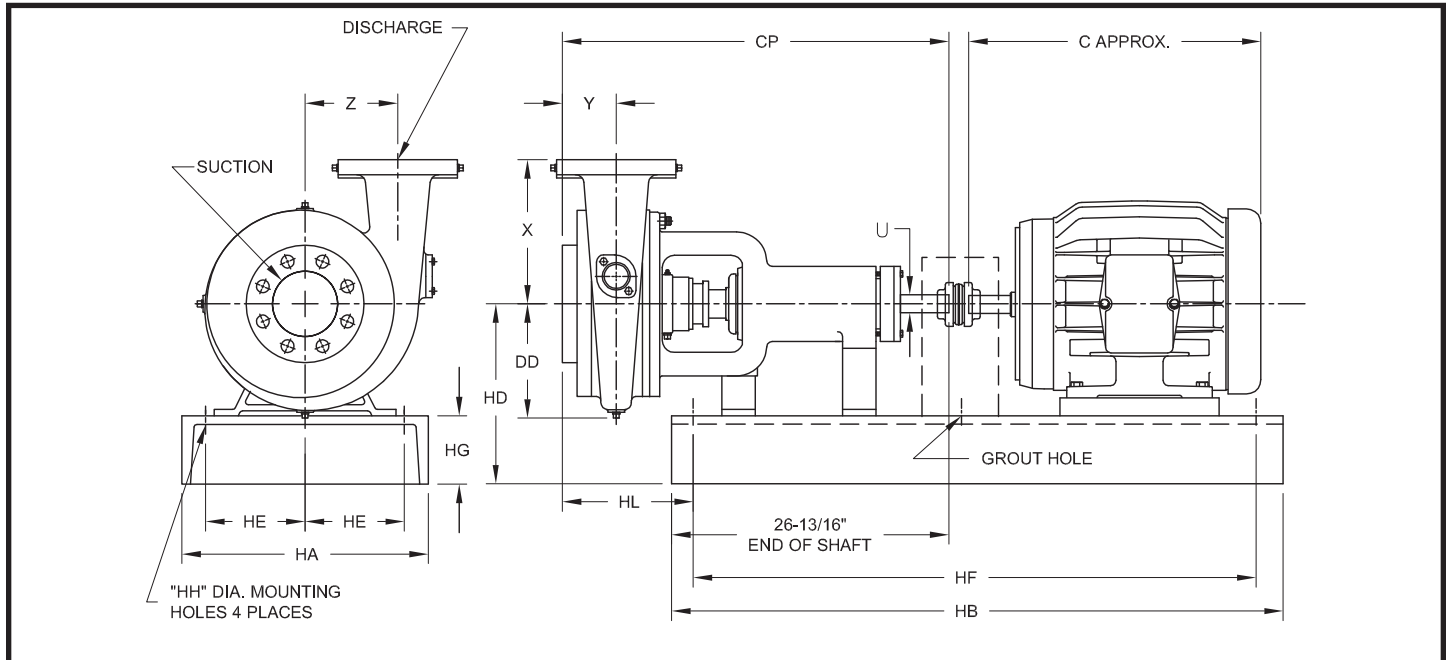
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Dry Pit Solids Handling Centrifugal Pumps

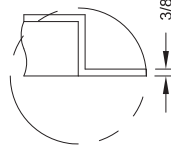


DIMENSIONS IN INCHES

PUMP SIZE	SOLIDS	SUCTION #125				DISCHARGE #125				CP	+ HL	U	X	Y	Z
		SIZE	DIA. FIG.	#- BOLTS	B.C.	SIZE	DIA. FIG.	#- BOLTS	B.C.						
6 x 6 x 15	3	6	11	8 - 3/4"	9 1/2	6	11	8 - 3/4"	9 1/2	36 9/16	11	2 1/8	14 1/2	5 1/8	12 1/4
8 x 8 x 15	4	8	13 1/2	8 - 3/4"	11 1/4	8	13 1/2	8 - 3/4"	11 1/4	37 3/16	11 5/8	2 1/8	16 1/2	6 1/8	13 1/2

FRAME	284T	286T	324T	324TS	326T	326TS	364T	364TS	365T	365TS	404T	404TS	405T	405TS
BASENO.	27508	27508	27509	27509	27509	27509	27509	27509	27509	27509	27511	27511	27511	27511
C	24 9/16	26 1/16	27 3/16	25 11/16	28 11/16	27 3/16	33 1/16	30 15/16	34 1/16	31 15/16	37 3/16	34 3/16	38 7/8	35 11/16
HA	18	18	18	18	18	18	18	18	18	18	25	25	25	25
HB	51	51	56	56	56	56	56	56	56	56	57	57	57	57
HD	19	19	19	19	19	19	19	19	19	19	19 1/2	19 1/2	19 1/2	19 1/2
HE	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	11 1/4	11 1/4	11 1/4	11 1/4
HF	48 1/2	48 1/2	53 1/2	53 1/2	53 1/2	53 1/2	53 1/2	53 1/2	53 1/2	53 1/2	54	54	54	54
HG	4	4	4	4	4	4	4	4	4	4	4 1/2	4 1/2	4 1/2	4 1/2
HH	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	7/8	7/8	7/8	7/8

+ FOR FRAME 404 AND LARGER ADD
1/4" TO "HL" DIMENSION



THIS STYLE BASE WITH GROUT HOLE
ON FRAME 404 AND LARGER

1. Suction and Discharge Flanges Fit 125# A.S.A. Standard
2. "HL" Dimensions is to Base Mounting Holes

DISCHARGE LOCATION (FACING SUCTION)

R.H. PUMP ROTATION		L.H. PUMP ROTATION	
TOP HORIZ. #2	TOP VERT. #1	TOP VERT. #1	TOP HORIZ. #2

NOTE: DISCHARGE CAN BE ROTATED EVERY 45°

Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

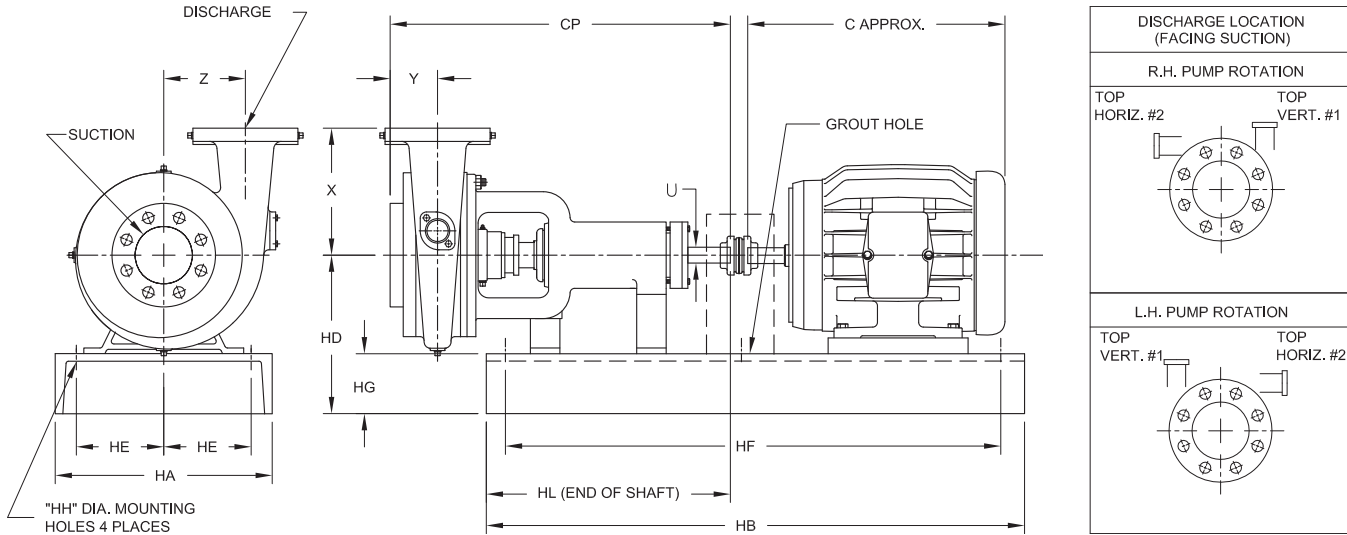
Fig. 7168

Basic Horizontal Pump
Bulletin 7100

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DIMENSIONS IN INCHES

PUMP SIZE	SOLIDS	SUCTION #125				DISCHARGE #125				CP	+ HL	U	X	Y	Z
		SIZE	DIA. FIG.	# - BOLTS	B.C.	SIZE	DIA. FIG.	# - BOLTS	B.C.						
6 x 4 x 15	3	6	11	8 - 3/4	9 1/2	4	9	8 - 5/8	7 1/2	32 7/16	39 5/8	2 3/8	13	4 3/8	10 1/2
6 x 6 x 15	3	6	11	8 - 3/4	9 1/2	6	11	8 - 3/4	9 1/2	39 5/8	39 5/8	2 3/8	14 1/2	5 3/8	12 1/4
8 x 6 x 15	4	8	13 1/2	8 - 3/4	11 1/4	6	11	8 - 3/4	9 1/2	39	39 5/8	2 3/8	14 1/2	5 3/8	12 1/4

FRAME	254T	256T	284T	284TS	286T	286TS	324TS	326TS	364TS	365TS	404TS	405TS	444TS	445TS
BASENO.	41868	41868	41868	41868	41868	41868	41868	41868	41869	41869	41869	41869	41869	41869
C	22 3/8	24 3/8	24 9/16	23 3/16	26 1/16	24 11/16	25 11/16	27 3/16	30 15/16	31 15/16	34 3/16	35 11/16	38 3/8	40 3/8
HA	32	32	32	32	32	32	32	32	32	32	32	32	32	32
HB	72	72	72	72	72	72	72	72	81	81	81	81	81	81
HD	21	21	21	21	21	21	21	21	21	21	21	21	21	21
HE	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2
HF	20	20	20	20	20	20	20	20	23	23	23	23	23	23
HG	6	6	6	6	6	6	6	6	6	6	6	6	6	6
HH	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8

1. Suction and Discharge Flanges Fit 125# A.S.A. Standard

Customer				Shop Order No.				Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal		
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted	

SECTION 45-SS
PAGE 32
DATE 4/15

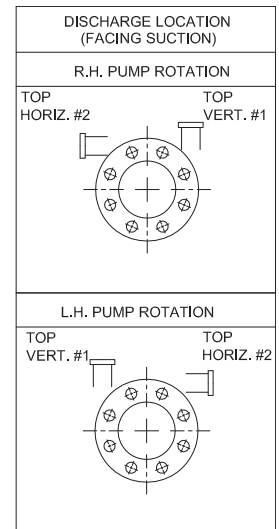
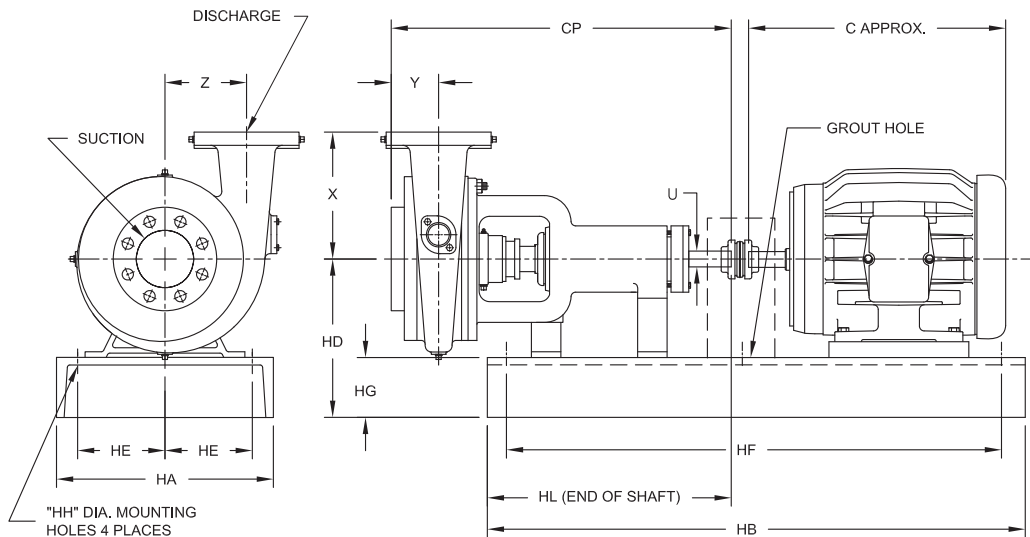
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Dry Pit Solids Handling Centrifugal Pumps



DIMENSIONS IN INCHES

PUMP SIZE	SOLIDS	SUCTION #125				DISCHARGE #125				CP	HL	U	X	Y	Z
		SIZE	DIA. FIG.	# - BOLTS	B.C.	SIZE	DIA. FIG.	# - BOLTS	B.C.						
8 x 8 x 15	4	8	13½	8 - ¾	11¼	8	13½	8 - ¾	11¼	39¾	39¾	2¾	16½	6	13½
8 x 6 x 19	4	8	13½	8 - ¾	11¼	8	11	8 - ¾	9½	39	39¾	2¾	17	5¼	13½
8 x 8 x 19	4	8	13½	8 - ¾	11¼	8	13½	8 - ¾	11¼	39½	39¾	2¾	19	6¾	15
10 x 8 x 19	4	10	16	12 - ¾	14¼	8	13½	8 - ¾	11¼	39½	39¾	2¾	19	6¾	15

FRAME	254T	256T	284T	284TS	286T	286TS	324TS	326TS	364TS	365TS	404TS	405TS	444TS	445TS	447TS	449TS
BASE NO.	41870	41870	41870	41870	41870	41870	41870	41870	41870	41870	41870	41870	41870	41870	41871	41871
C	22¾	24¾	24¾	23¾	26½	24½	25½	27¾	30½	31½	34¾	35½	38¾	40¾	39¾	44¾
HA	32	32	32	32	32	32	32	32	32	32	32	32	32	32	34	34
HB	81	81	81	81	81	81	81	81	81	81	81	81	81	81	87	87
HD	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
HE	14½	14½	14½	14½	14½	14½	14½	14½	14½	14½	14½	14½	14½	14½	15½	15½
HF	23	23	23	23	23	23	23	23	23	23	23	23	23	23	25	25
HG	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
HH	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾

1. Suction and Discharge Flanges Fit 125# A.S.A. Standard

Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

Dry Pit Solids Handling Centrifugal Pumps

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Dry Pit Solids Handling Centrifugal Pumps

SUCTION	DISCH.	MAX. IMP. DIA.	SOLIDS	FRAME SIZE	DIMENSIONS IN INCHES																	KEYWAY	
					A	B	CP	E	G	H	S	U	V	VD	VS	VY	W	X	Y	Z	BF		
+2	2	7¼	1½	3	10 ¹¹ / ₁₆	12	30 ⁵ / ₁₆	13	1½	⅝	3 ¹⁵ / ₁₆	1	1⅝	11⅝	7 ¹¹ / ₁₆	4½	18 ¹¹ / ₁₆	5½	3⅝	4⅝	14½	¼ x ⅝ x 2 LG	
4	4	7¼	3	3	15½	18	35⅝	19½	1½	¾	5 ⁷ / ₁₆	1	1⅝	16 ³ / ₁₆	10¾	6½	19½	8	4⅝	7	21¼		
+2	2	9½	1½	3	10 ¹¹ / ₁₆	12	30⅝	13	1½	⅝	3 ¹⁵ / ₁₆	1	1⅝	11¾	7 ¹³ / ₁₆	4½	18⅞	6½	3¾	5¼	14½		¼ x ⅝ x 3½ LG
3	3	9½	2	5	15½	18	37⅞	19½	1½	¾	6 ⁷ / ₁₆	1¼	3¼	15⅞	9 ⁷ / ₁₆	5½	21¼	6¾	3⅞	6⅝	21¼		
4	3	9½	2	5	15½	18	37⅞	19½	1½	¾	5 ⁷ / ₁₆	1¼	3¼	15⅞	10 ⁷ / ₁₆	6½	21¼	6¾	3⅞	6⅝	21¼		
4	4	9½	2	5	15½	18	37⅞	19½	1½	¾	5 ⁷ / ₁₆	1¼	3¼	15⅞	10 ⁷ / ₁₆	6½	21¼	8	3⅞	6⅝	21¼		
4	4	9½	3	5	15½	18	38⅞	19½	1½	¾	5 ⁷ / ₁₆	1¼	3¼	16⅝	10 ¹⁵ / ₁₆	6½	21¼	10	4⅞	7⅞	21¼		
5	4	9½	3	5	19 ¹³ / ₁₆	24	41¼	25½	2	¾	7½	1¼	3¼	19½	12	7½	21¼	10	4½	7⅞	27¼		
3	3	12	2	6	15½	18	41 ⁷ / ₁₆	19½	1½	¾	6 ⁵ / ₁₆	1½	3½	16	9 ¹¹ / ₁₆	5½	25 ⁷ / ₁₆	8	4⅝	7⅞	21¼		
4	3	12	2	6	15½	18	41 ⁷ / ₁₆	19½	1½	¾	5 ⁵ / ₁₆	1½	3½	16	10 ¹¹ / ₁₆	6½	25 ⁷ / ₁₆	8	4⅝	7⅞	21¼		
4	4	12	2	6	15½	18	41 ⁷ / ₁₆	19½	1½	¾	5 ⁵ / ₁₆	1½	3½	16	10 ¹¹ / ₁₆	6½	25 ⁷ / ₁₆	9½	4⅝	7⅞	21¼		
4	4	12	3	6	15½	18	42 ⁷ / ₁₆	19½	1½	¾	5 ⁵ / ₁₆	1½	3½	16½	11 ³ / ₁₆	6½	25 ¹⁵ / ₁₆	12	4⅝	9	21¼		
6	4	12	3	6	19 ¹³ / ₁₆	24	45 ⁹ / ₁₆	25½	2	¾	6 ¹⁵ / ₁₆	1½	3½	19½	12 ¹¹ / ₁₆	8	25 ¹⁵ / ₁₆	12	4⅝	9	27¼		
6	6	12	3	6	19 ¹³ / ₁₆	24	45 ⁹ / ₁₆	25½	2	¾	6 ¹⁵ / ₁₆	1½	3½	19½	12 ¹¹ / ₁₆	8	25 ¹⁵ / ₁₆	9½	4⅝	9½	27¼		
8	6	12	3	6	24⅞	30	48 ¹ / ₁₆	32	2	⅞	8 ⁷ / ₁₆	1½	3½	22½	13 ¹¹ / ₁₆	9	25 ¹⁵ / ₁₆	9½	4⅝	9½	34¼		
8	8	15	3	6H	24⅞	30	49 ¹ / ₁₆	32	2	⅞	8 ⁷ / ₁₆	1½	3½	22⅝	14 ³ / ₁₆	9	26 ⁷ / ₁₆	15½	5⅝	11¼	34¼		

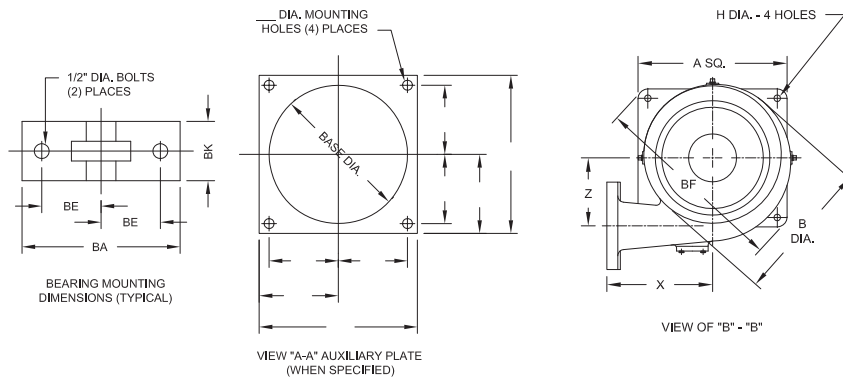
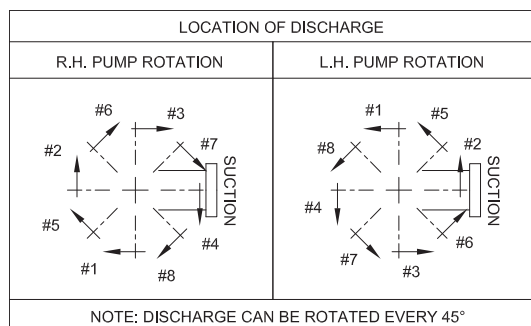
+ No Handhole in Casing

FRAME	143TC	145TC	182TC	184TC	213TC	215TC	254TC	256TC	284TC	286TC	324TSC	326TSC	364TSC	365TSC	404TSC	405TSC	444TSC	445TSC
AG	9 $\frac{1}{8}$	10 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	13 $\frac{1}{2}$	15	17 $\frac{1}{8}$	19 $\frac{1}{8}$	19 $\frac{1}{8}$	20 $\frac{1}{8}$	21 $\frac{1}{8}$	22 $\frac{1}{8}$	23 $\frac{1}{8}$	24 $\frac{1}{8}$	25 $\frac{1}{8}$	27 $\frac{1}{8}$	29 $\frac{1}{8}$	31 $\frac{1}{8}$
P	7 $\frac{1}{8}$	7 $\frac{1}{8}$	9 $\frac{1}{8}$	9 $\frac{1}{8}$	10 $\frac{1}{8}$	10 $\frac{1}{8}$	13 $\frac{1}{8}$	13 $\frac{1}{8}$	14 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	16 $\frac{1}{8}$	18 $\frac{1}{8}$	18 $\frac{1}{8}$	20 $\frac{1}{8}$	20 $\frac{1}{8}$	22 $\frac{1}{2}$	22 $\frac{1}{2}$
AH	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	4 $\frac{3}{8}$	4 $\frac{3}{8}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	4	4	4 $\frac{1}{2}$	4 $\frac{1}{2}$
T	9 $\frac{3}{4}$	9 $\frac{3}{4}$	10 $\frac{3}{4}$	10 $\frac{3}{4}$	10 $\frac{3}{4}$	10 $\frac{3}{4}$	10 $\frac{3}{4}$	10 $\frac{3}{4}$	12 $\frac{3}{4}$	12 $\frac{3}{4}$	13 $\frac{7}{16}$	13 $\frac{7}{16}$	13 $\frac{7}{16}$	13 $\frac{7}{16}$	16 $\frac{3}{4}$	16 $\frac{3}{4}$	18 $\frac{3}{4}$	18 $\frac{3}{4}$

FLEXIBLE SHAFT (BY CUSTOMER)

NO.	BA	BD	BE APPROX.	BZ APPROX.	BK	BU
31 - 37	6 $\frac{1}{4}$	11 $\frac{1}{16}$	2 $\frac{5}{16}$	8	2 $\frac{1}{32}$	1 $\frac{3}{16}$
41	6 $\frac{11}{16}$	1 $\frac{7}{8}$	2 $\frac{17}{32}$	8	1 $\frac{1}{4}$	1 $\frac{7}{16}$
48	7 $\frac{3}{4}$	2 $\frac{1}{8}$	3 $\frac{1}{16}$	9	2 $\frac{9}{32}$	1 $\frac{11}{16}$

* To Clear Spicer Joint



1. Suction and Discharge Flanges Fit 125# A.S.A. Standard

Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

Fig. 7157, 7158, 7159

Vertical Pump with Flexible Drive
Bulletin 7100

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Dry Pit Solids Handling Centrifugal Pumps

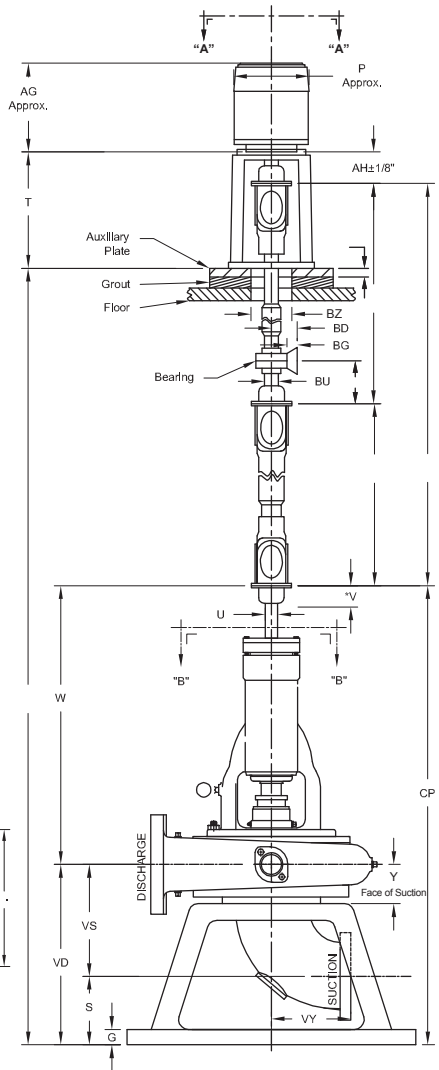
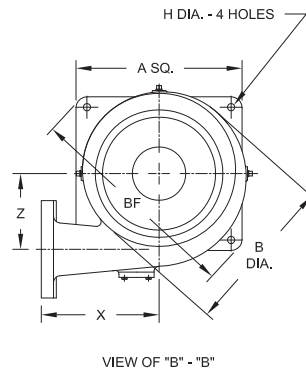
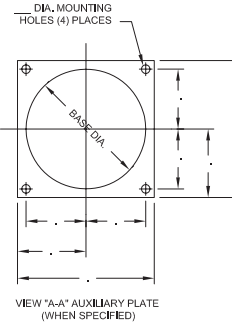
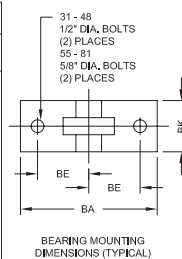
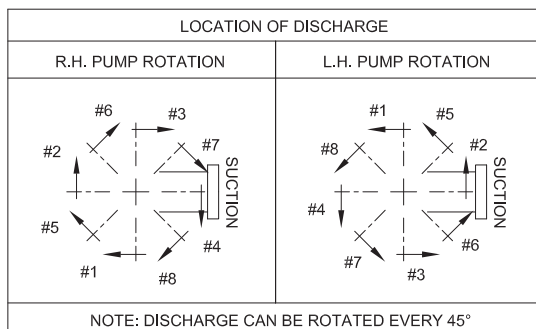
SUCTION	DISCH.	MAX. IMP.	DIA.	SOLIDS	FRAME SIZE	DIMENSIONS IN INCHES																	KEYWAY
						A	B	CP	E	G	H	S	U	V	VD	VS	VY	W	X	Y	Z	BF	
6	6	15	3	7	24 ⁷ / ₈	30	53 ³ / ₄	32	2	⁷ / ₈	9 ¹ / ₁₆	2 ¹ / ₂	3 ¹ / ₁₆	22 ³ / ₄	13 ¹³ / ₁₆	8	30 ³ / ₄	14 ¹ / ₂	5 ¹ / ₂	12 ¹ / ₄	34 ¹ / ₄	¹ / ₂ x ¹ / ₄ x 2 ¹³ / ₁₆ LG	
8	8	15	4	7	24 ⁷ / ₈	30	54 ³ / ₄	32	2	⁷ / ₈	8 ¹ / ₂	2 ¹ / ₂	3 ¹ / ₁₆	23 ³ / ₄	15 ¹ / ₂	9	31 ¹ / ₂	16 ¹ / ₂	6 ¹ / ₂	13 ¹ / ₂	34 ¹ / ₄		
6	4	15	3	8	24 ⁷ / ₈	30	54 ⁷ / ₁₆	32	2	⁷ / ₈	9 ⁹ / ₁₆	2 ³ / ₄	3 ³ / ₈	22	12 ⁷ / ₁₆	8	32 ⁷ / ₁₆	13	4 ³ / ₄	10 ¹ / ₂	34 ¹ / ₄		
6	6	15	3	8	24 ⁷ / ₈	30	56 ¹ / ₂	32	2	⁷ / ₈	9	2 ³ / ₄	3 ³ / ₈	22 ¹ / ₂	13 ³ / ₈	8	33 ³ / ₄	14 ¹ / ₂	5 ¹ / ₂	12 ¹ / ₄	34 ¹ / ₄		
8	8	15	4	8	31 ¹ / ₄	40	66	40	1 ¹ / ₂	1	12 ³ / ₁₆	2 ³ / ₄	3 ³ / ₈	32 ⁵ / ₁₆	20 ¹ / ₂	14	33 ¹ / ₁₆	16 ¹ / ₂	6	13 ¹ / ₂	43		
8	6	19	4	8	31 ¹ / ₄	40	65 ¹ / ₂	40	1 ¹ / ₂	1	12 ¹ / ₁₆	2 ³ / ₄	3 ³ / ₈	31 ¹⁵ / ₁₆	19 ¹ / ₂	14	33 ³ / ₁₆	17	5 ¹ / ₄	13 ¹ / ₂	43		
8	8	19	4	8	31 ¹ / ₄	40	66 ¹ / ₂	40	1 ¹ / ₂	1	12 ¹ / ₁₆	2 ³ / ₄	3 ³ / ₈	32 ¹ / ₂	20 ⁷ / ₁₆	14	33 ³ / ₈	19	6 ¹ / ₂	15	43		
10	8	19	4	8	31 ¹ / ₄	40	66 ⁵ / ₁₆	40	1 ¹ / ₂	1	9 ¹³ / ₁₆	2 ³ / ₄	3 ³ / ₈	32 ⁹ / ₁₆	22 ³ / ₄	20	33 ³ / ₄	19	6 ¹ / ₂	15	43		
																							⁵ / ₈ x ⁵ / ₁₆ x 2 ³ / ₄ LG

FRAME	254TC	256TC	284TC	286TC	324TSC	326TSC	364TSC	365TSC	404TSC	405TSC	444TSC	445TSC	264VP	266VP	324VP	326VP
AG	17 $\frac{1}{2}$	19 $\frac{1}{2}$	19 $\frac{1}{2}$	20 $\frac{1}{2}$	21 $\frac{1}{2}$	22 $\frac{1}{2}$	23 $\frac{1}{2}$	24 $\frac{1}{2}$	25 $\frac{1}{2}$	27 $\frac{1}{2}$	29 $\frac{1}{2}$	31 $\frac{1}{2}$	27 $\frac{1}{2}$	27 $\frac{1}{2}$	30 $\frac{3}{16}$	30 $\frac{3}{16}$
P	13 $\frac{1}{2}$	13 $\frac{1}{2}$	14 $\frac{1}{4}$	14 $\frac{1}{4}$	16 $\frac{1}{4}$	16 $\frac{1}{4}$	18 $\frac{1}{2}$	18 $\frac{1}{2}$	20 $\frac{1}{2}$	20 $\frac{1}{2}$	22 $\frac{1}{2}$	22 $\frac{1}{2}$	14 $\frac{9}{16}$	14 $\frac{9}{16}$	17	17
AH	3 $\frac{3}{4}$	3 $\frac{3}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	4	4	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$
T	11 $\frac{1}{4}$	11 $\frac{1}{4}$	12 $\frac{1}{2}$	12 $\frac{1}{2}$	12	12	12	12	12	12	11 $\frac{1}{4}$	11 $\frac{1}{4}$	12	12	12	12

FRAME	364VP	365VP	404VP	405VP	444VP	445VP
AG	32 $\frac{1}{2}$	32 $\frac{1}{2}$	37 $\frac{15}{16}$	37 $\frac{15}{16}$	41 $\frac{11}{16}$	41 $\frac{11}{16}$
P	18 $\frac{1}{4}$	18 $\frac{1}{4}$	21 $\frac{3}{16}$	21 $\frac{3}{16}$	23 $\frac{3}{4}$	23 $\frac{3}{4}$
AH	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$
T	12	12	12	12	12	12

FLEXIBLE SHAFT (BY CUSTOMER)

NO.	BA	BD	BE APPROX.	BZ APPROX.	BG	BK	BU
31 - 37	6 $\frac{1}{4}$	11 $\frac{1}{16}$	2 $\frac{5}{16}$	8	2 $\frac{1}{32}$	1 $\frac{1}{2}$	1 $\frac{3}{16}$
41	6 $\frac{11}{16}$	1 $\frac{1}{8}$	2 $\frac{17}{32}$	8	$\frac{3}{4}$	1 $\frac{1}{4}$	1 $\frac{7}{16}$
48	7 $\frac{1}{4}$	2 $\frac{1}{2}$	3 $\frac{1}{16}$	9	2 $\frac{9}{32}$	2	1 $\frac{11}{16}$



1. Suction and Discharge Flanges Fit 125# A.S.A. Standard

Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

SECTION 45-SS
PAGE 36
DATE 5/18

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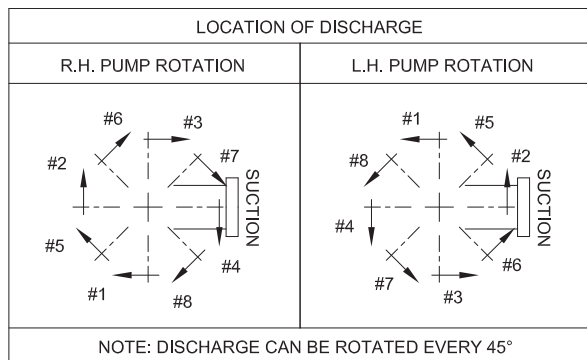
Dry Pit Solids Handling Centrifugal Pumps

SUCTION	DISCH.	MAX. IMP. DIA.	SOLIDS FRAME SIZE	DIMENSIONS IN INCHES																KEYWAY
				A	B	E	G	H	S	U	VD	VS	VY	*W	X	Y	Z	BF		
+2	2	7¼	1½	3	10 ¹¹ / ₁₆	12	13	1½	⅝	3 ¹⁵ / ₁₆	1	11⅝	7 ¹¹ / ₁₆	4½	23 ¹⁵ / ₁₆	5½	3⅝	4⅝	14½	¼ x ⅝ x 2 LG
4	4	7¼	3	3	15½	18	19½	1½	¾	5 ⁷ / ₁₆	1	16 ³ / ₁₆	10¾	6½	24 ¹¹ / ₁₆	8	4⅝	7	21¼	
+2	2	9½	1½	3	10 ¹¹ / ₁₆	12	13	1½	⅝	3 ¹⁵ / ₁₆	1	11¼	7 ¹³ / ₁₆	4½	24 ¹¹ / ₁₆	6½	3¾	5¾	14½	¼ x 1½ x 3½ LG
3	3	9½	2	5	15½	18	19½	1½	¾	6 ⁷ / ₁₆	1¼	15⅝	9 ⁷ / ₁₆	5½	24⅞	6¾	3⅝	6⅝	21¼	
4	3	9½	2	5	15½	18	19½	1½	¾	5 ⁷ / ₁₆	1¼	15⅝	10 ⁷ / ₁₆	6½	24⅞	6¾	3⅝	6⅝	21¼	¼ x 1½ x 3½ LG
4	4	9½	2	5	15½	18	19½	1½	¾	5 ⁷ / ₁₆	1¼	15⅝	10 ⁷ / ₁₆	6½	24⅞	8	3⅝	6⅝	21¼	
4	4	9½	3	5	15½	18	19½	1½	¾	5 ⁷ / ₁₆	1¼	16⅝	10 ¹⁵ / ₁₆	6½	25⅝	10	4⅝	7⅞	21¼	¾ x 1½ x 3½ LG
5	4	9½	3	5	19 ¹³ / ₁₆	24	25½	2	¾	7½	1¼	19½	12	7½	25⅝	10	4½	7⅞	27¼	
3	3	12	2	6	15½	18	19½	1½	¾	6 ⁵ / ₁₆	1½	16	9 ¹¹ / ₁₆	5½	29	8	4⅝	7⅞	21¼	¾ x 3½ LG
4	3	12	2	6	15½	18	19½	1½	¾	5 ⁵ / ₁₆	1½	16	10 ¹¹ / ₁₆	6½	29	8	4⅝	7⅞	21¼	
4	4	12	2	6	15½	18	19½	1½	¾	5 ⁵ / ₁₆	1½	16	10 ¹¹ / ₁₆	6½	29	9½	4⅝	7⅞	21¼	¾ x 3½ LG
4	4	12	3	6	15½	18	19½	1½	¾	5 ⁵ / ₁₆	1½	16½	11 ³ / ₁₆	6½	29½	12	4⅝	9	21¼	
6	4	12	3	6	19 ¹³ / ₁₆	24	25½	2	¾	6 ¹⁵ / ₁₆	1½	19½	12 ¹¹ / ₁₆	8	29½	12	4⅝	9	27¼	¾ x 3½ LG
6	6	12	3	6	19 ¹³ / ₁₆	24	25½	2	¾	6 ¹⁵ / ₁₆	1½	19½	12 ¹¹ / ₁₆	8	29½	9½	4⅝	9½	27¼	
8	6	12	3	6	24⅞	30	32	2	⅞	8 ⁷ / ₁₆	1½	22½	13 ¹¹ / ₁₆	9	29½	9½	4⅝	9½	34¼	¾ x 3½ LG
8	8	15	3	6H	24⅞	30	32	2	⅞	8 ⁷ / ₁₆	1½	22½	14 ³ / ₁₆	9	29½	15½	5⅝	11¼	34¼	

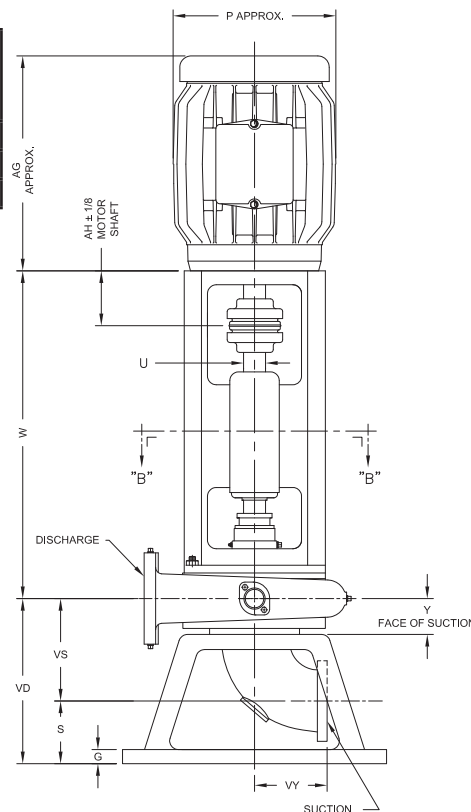
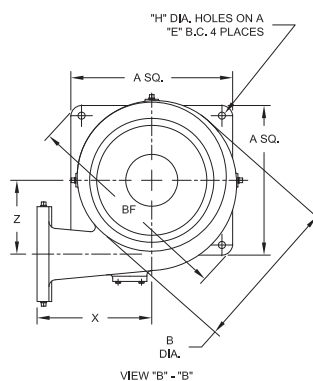
+ No Handhole in Casing

* Add .375" for 143-145TC Motor Frames

FRAME	143TC	145TC	182TC	184TC	213TC	215TC	254TC	256TC	284TC	284TSC	286TC	286TSC	324TSC	326TSC	364TSC	365TSC	404TSC	405TSC
AG	9%	10%	11%	12%	13 1/2	15	17%	19%	19%	19%	20%	20%	21%	22%	23%	24%	25%	27%
P	7%	7%	9%	9%	10%	10%	13%	13%	14%	14%	14%	14%	16%	16%	18%	18%	20%	20%
AH	2%	2%	2%	2%	3%	3%	3%	3%	4%	3	4%	3	3 1/2	3 1/2	3 1/2	3 1/2	4	4



1. Suction and Discharge Flanges Fit 125# A.S.A. Standard



Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

Fig. 7193, 7195, 7196

Vertical Pump with Long Suction Elbow
Bulletin 7100

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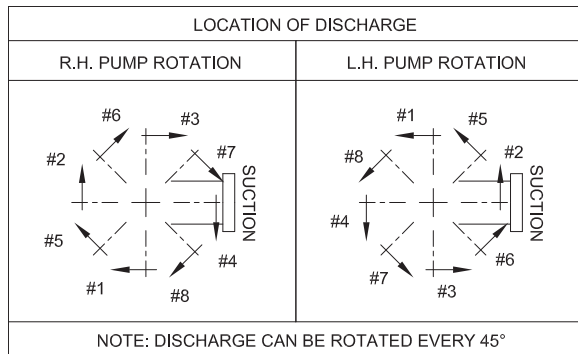
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Dry Pit Solids Handling Centrifugal Pumps

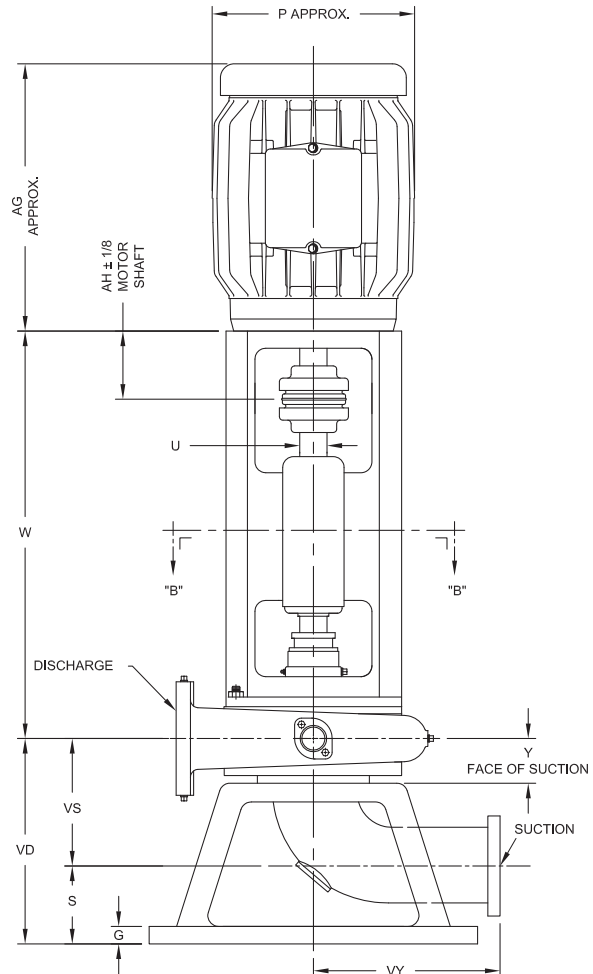
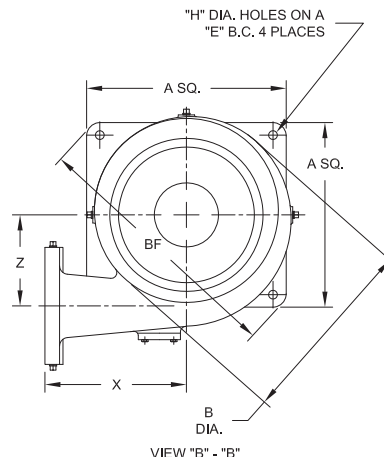
SUCTION	DISCH.	MAX. IMP. DIA.	SOLIDS FRAME SIZE	DIMENSIONS IN INCHES																KEYWAY
				A	B	E	G	H	S	U	VD	VS	VY	*W	X	Y	Z	BF		
4	4	7¼	3	3	15½	18	19½	1½	¾	5 ⁷ / ₁₆	1	16 ³ / ₁₆	10¾	13¼	24 ¹¹ / ₁₆	8	4⅝	7	21¼	¼ x ⅝ x 2 LG
4	3	9½	2	5	15½	18	19½	1½	¾	5 ⁷ / ₁₆	1¼	15⅝	10 ⁷ / ₁₆	13¼	24 ⁷ / ₈	6¾	3⅝	6⅝	21¼	
4	4	9½	2	5	15½	18	19½	1½	¾	5 ⁷ / ₁₆	1¼	15⅝	10 ⁷ / ₁₆	13¼	24 ⁷ / ₈	8	3⅝	6⅝	21¼	
4	4	9½	3	5	15½	18	19½	1½	¾	5 ⁷ / ₁₆	1¼	16⅝	10 ¹⁵ / ₁₆	13¼	25⅜	10	4⅝	7⅝	21¼	¼ x ⅝ x 3⅝ LG
4	3	12	2	6	15½	18	19½	1½	¾	5 ⁵ / ₁₆	1½	16	10 ¹¹ / ₁₆	13¼	29	8	4⅝	7⅝	21¼	
4	4	12	2	6	15½	18	19½	1½	¾	5 ⁵ / ₁₆	1½	16	10 ¹¹ / ₁₆	13¼	29	9½	4⅝	7⅝	21¼	
4	4	12	3	6	15½	18	19½	1½	¾	5 ⁵ / ₁₆	1½	16½	11 ³ / ₁₆	13¼	29½	12	4⅝	9	21¼	⅜ x ⅜ ₁₆ x 3½ LG

* Add .375" for 143-145TC Motor Frames

FRAME	143TC	145TC	182TC	184TC	213TC	215TC	254TC	256TC	284TC	284TSC	286TC	286TSC	324TSC	326TSC
AG	9 ¹ / ₈	10 ¹ / ₈	11 ¹ / ₈	12 ¹ / ₈	13 ¹ / ₂	15	17 ¹ / ₈	19 ¹ / ₈	19 ¹ / ₈	19 ¹ / ₈	20 ¹ / ₈	20 ¹ / ₈	21 ¹ / ₈	22 ¹ / ₈
P	7 ¹ / ₈	7 ¹ / ₈	9 ¹ / ₄	9 ¹ / ₄	10 ¹ / ₈	10 ¹ / ₈	13 ¹ / ₈	13 ¹ / ₈	14 ¹ / ₄	14 ¹ / ₄	14 ¹ / ₄	14 ¹ / ₄	16 ¹ / ₄	16 ¹ / ₄
AH	2 ¹ / ₈	2 ¹ / ₈	2 ¹ / ₈	2 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₄	3 ¹ / ₄	4 ¹ / ₈	3	4 ¹ / ₈	3	3 ¹ / ₂	3 ¹ / ₂



1. Suction and Discharge Flanges Fit 125# A.S.A. Standard



Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

SECTION 45-SS
PAGE 38
DATE 4/15

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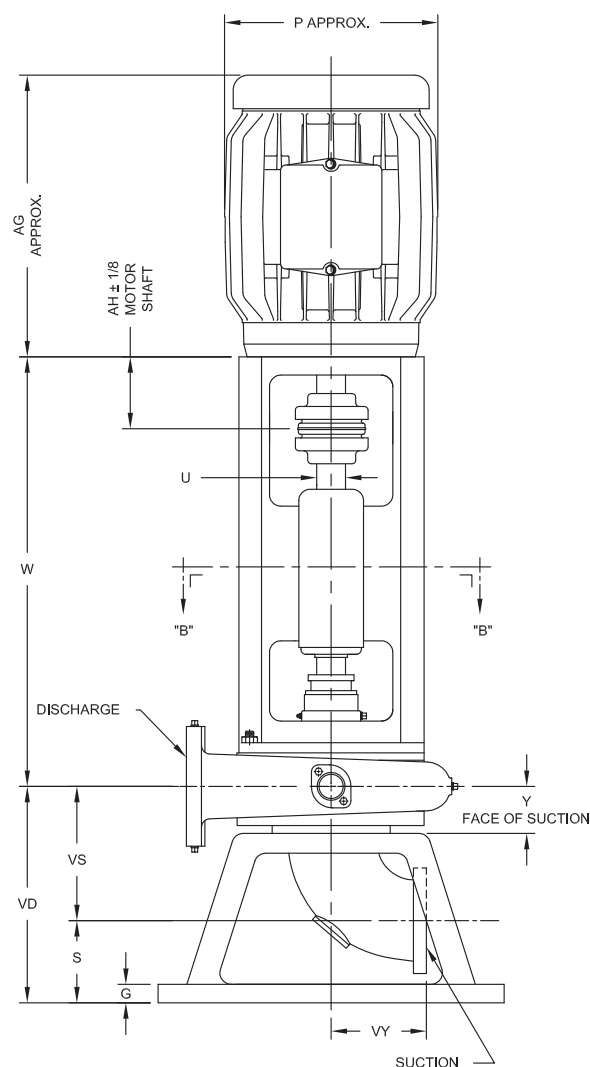
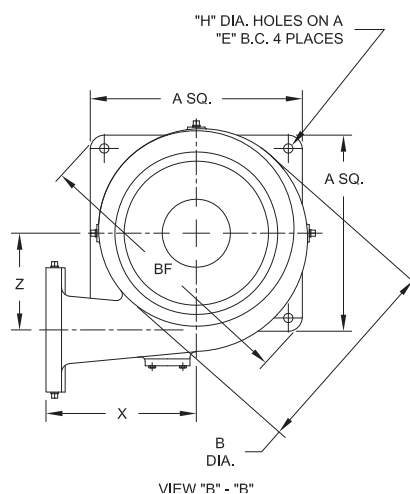
Dry Pit Solids Handling Centrifugal Pumps

SECTION	DISCH.	MAX. MP.	DIA.	SOLIDS	FRAME	SIZE	DIMENSIONS IN INCHES													
							A	B	E	G	H	S	U	VD	VS	VY	X	Y	Z	BF
6	6	15	3	7	24 $\frac{3}{8}$	30	32	2	$\frac{7}{8}$	9 $\frac{1}{16}$	2 $\frac{1}{8}$	22 $\frac{1}{8}$	13 $\frac{13}{16}$	8	14 $\frac{1}{2}$	5 $\frac{1}{8}$	12 $\frac{1}{4}$	34 $\frac{1}{4}$	$\frac{1}{2}$ x $\frac{1}{4}$ x 2 $\frac{13}{16}$ LG	
8	8	15	4	7	24 $\frac{3}{8}$	30	32	2	$\frac{7}{8}$	8 $\frac{1}{8}$	2 $\frac{1}{8}$	23 $\frac{1}{4}$	15 $\frac{1}{8}$	9	16 $\frac{1}{2}$	6 $\frac{1}{8}$	13 $\frac{1}{2}$	34 $\frac{1}{4}$		

FRAME	254TC	256TC	284TC	284TSC	286TC	286TSC	324TSC	326TSC	364TSC	365TSC
AG	17%	19%	19%	19%	20%	20%	21%	22%	23%	24%
P	13%	13%	14%	14%	14%	14%	16%	16%	18%	18%
AH	3%	3%	4%	3	4%	3	3½	3½	3½	3½
W	34 ¹ / ₁₆	34 ¹ / ₁₆	35 ⁹ / ₁₆	35 ⁹ / ₁₆	35 ⁹ / ₁₆	35 ⁹ / ₁₆	34 ¹¹ / ₁₆	34 ¹¹ / ₁₆	34 ¹¹ / ₁₆	34 ¹¹ / ₁₆
W	35 ⁹ / ₁₆	35 ⁹ / ₁₆	35 ¹⁵ / ₁₆	35 ¹⁵ / ₁₆	35 ¹⁵ / ₁₆	35 ¹⁵ / ₁₆	35 ¹ / ₁₆	35 ¹ / ₁₆	35 ¹ / ₁₆	35 ¹ / ₁₆

LOCATION OF DISCHARGE	
R.H. PUMP ROTATION	L.H. PUMP ROTATION
NOTE: DISCHARGE CAN BE ROTATED EVERY 45°	

1. Suction and Discharge Flanges Fit 125# A.S.A. Standard



Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

Fig. 7198, 7199

Vertical Pump with Standard Suction Elbow
Bulletin 7100

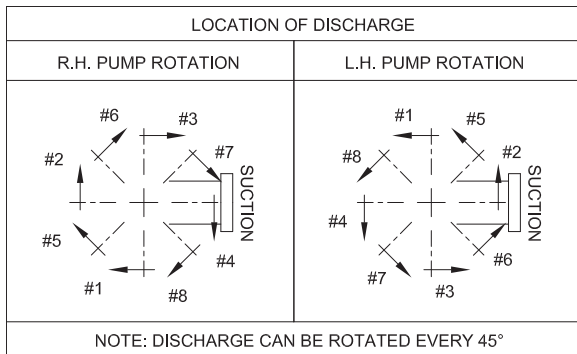
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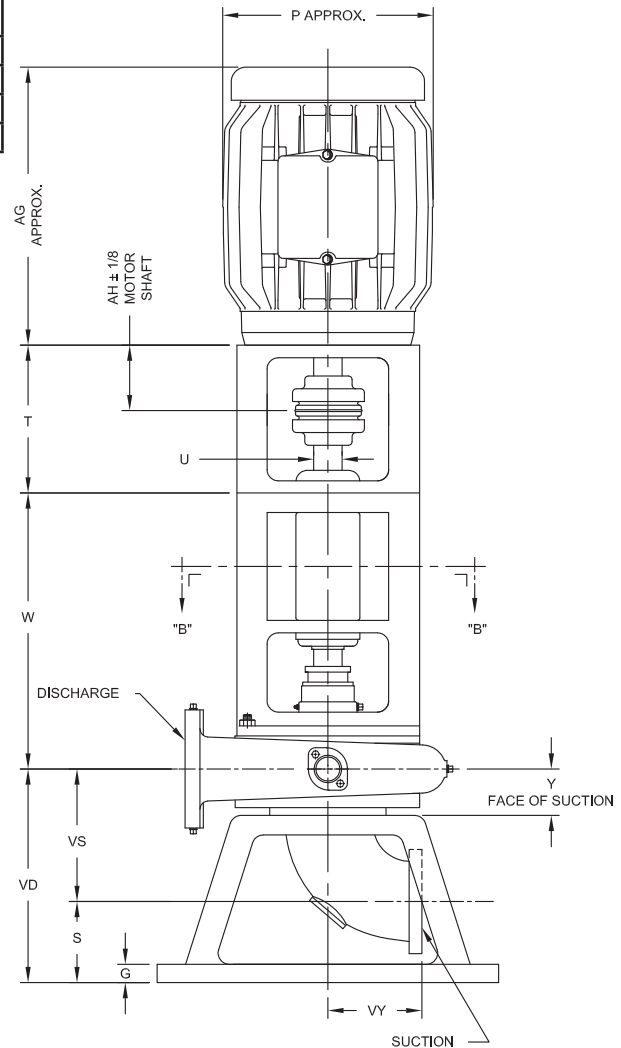
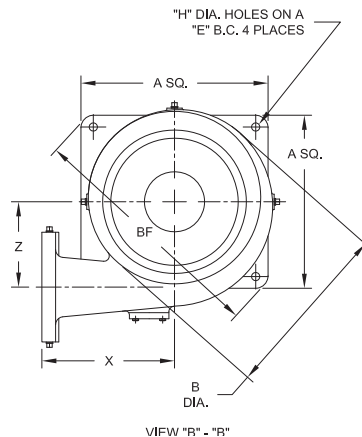
Dry Pit Solids Handling Centrifugal Pumps

SUCTION	DISCH.	MAX. IMP.	DIA.	SOLIDS	FRAME SIZE	DIMENSIONS IN INCHES															KEYWAY
						A	B	E	G	H	S	U	VD	VS	VY	W	X	Y	Z	BF	
6	4	15	3	8	24 ⁷ / ₈	30	32	2	⁷ / ₈	9 ⁹ / ₁₆	2 ³ / ₈	22	12 ⁷ / ₁₆	8	25 ⁵ / ₈	13	4 ³ / ₈	10 ¹ / ₂	34 ¹ / ₄	9" X 5 ⁵ / ₁₆ " X 2 ³ / ₄ " LG	
6	6	15	3	8	24 ⁷ / ₈	30	32	2	⁷ / ₈	9	2 ³ / ₈	22 ⁷ / ₈	13 ³ / ₈	8	26 ⁵ / ₈	14 ¹ / ₂	5 ³ / ₈	12 ¹ / ₄	34 ¹ / ₄		
8	8	15	4	8	31 ¹ / ₄	40	40	1 ¹ / ₂	1	12 ³ / ₁₆	2 ³ / ₈	32 ⁵ / ₁₆	20 ¹ / ₂	14	27	16 ¹ / ₂	6	13 ¹ / ₂	43		
8	6	19	4	8	31 ¹ / ₄	40	40	1 ¹ / ₂	1	12 ¹ / ₁₆	2 ³ / ₈	31 ¹⁵ / ₁₆	19 ³ / ₈	14	26 ¹ / ₄	17	5 ³ / ₈	13 ¹ / ₂	43		
8	8	19	4	8	31 ¹ / ₄	40	40	1 ¹ / ₂	1	12 ¹ / ₁₆	2 ³ / ₈	32 ¹ / ₂	20 ⁷ / ₁₆	14	26 ³ / ₈	19	6 ³ / ₈	15	43		
10	8	19	4	8	31 ¹ / ₄	40	40	1 ¹ / ₂	1	9 ¹³ / ₁₆	2 ³ / ₈	32 ⁹ / ₁₆	22 ³ / ₄	20	26 ³ / ₈	19	6 ³ / ₈	15	43		

FRAME	254TC	256TC	284TC	284TSC	286TC	286TSC	324TSC	326TSC	364TSC	365TSC	404TSC	405TSC	444TSC	445TSC
AG	17 ¹ / ₂	19 ¹ / ₂	19 ¹ / ₂	19 ¹ / ₂	20 ¹ / ₂	20 ¹ / ₂	21 ¹ / ₂	22 ¹ / ₂	23 ¹ / ₂	24 ¹ / ₂	25 ¹ / ₂	27 ¹ / ₂	29 ¹ / ₂	31 ¹ / ₂
P	13 ¹ / ₄	13 ¹ / ₄	14 ¹ / ₄	14 ¹ / ₄	14 ¹ / ₄	14 ¹ / ₄	16 ¹ / ₄	16 ¹ / ₄	18 ¹ / ₄	18 ¹ / ₄	20 ¹ / ₄	20 ¹ / ₄	22 ¹ / ₄	22 ¹ / ₄
AH	3 ³ / ₄	3 ³ / ₄	4 ³ / ₄	3	4 ³ / ₄	3	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	4	4	4 ¹ / ₂	4 ¹ / ₂
T	11 ¹ / ₄	11 ¹ / ₄	12 ¹ / ₄	11	12 ¹ / ₄	11	11 ¹ / ₄	11 ¹ / ₄	11 ¹ / ₄	11 ¹ / ₄	11 ¹ / ₄	11 ¹ / ₄	11 ¹ / ₄	11 ¹ / ₄



1. Suction and Discharge Flanges Fit 125# A.S.A. Standard



Customer				Shop Order No.			Date:		By:	
Pump Data	Fig. No.	Size	Curve No.	GPM	Head	Sp. Gr.	Temp.	Rotation	Packing/Seal	
Motor Data	MFGR	Hp	RPM	Phase-Cycle Voltage		Frame	Enclosure	Insulation	Furnished by	Mounted

SECTION 45-SS
PAGE 40
DATE 5/18

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Dry Pit Solids Handling Centrifugal Pumps

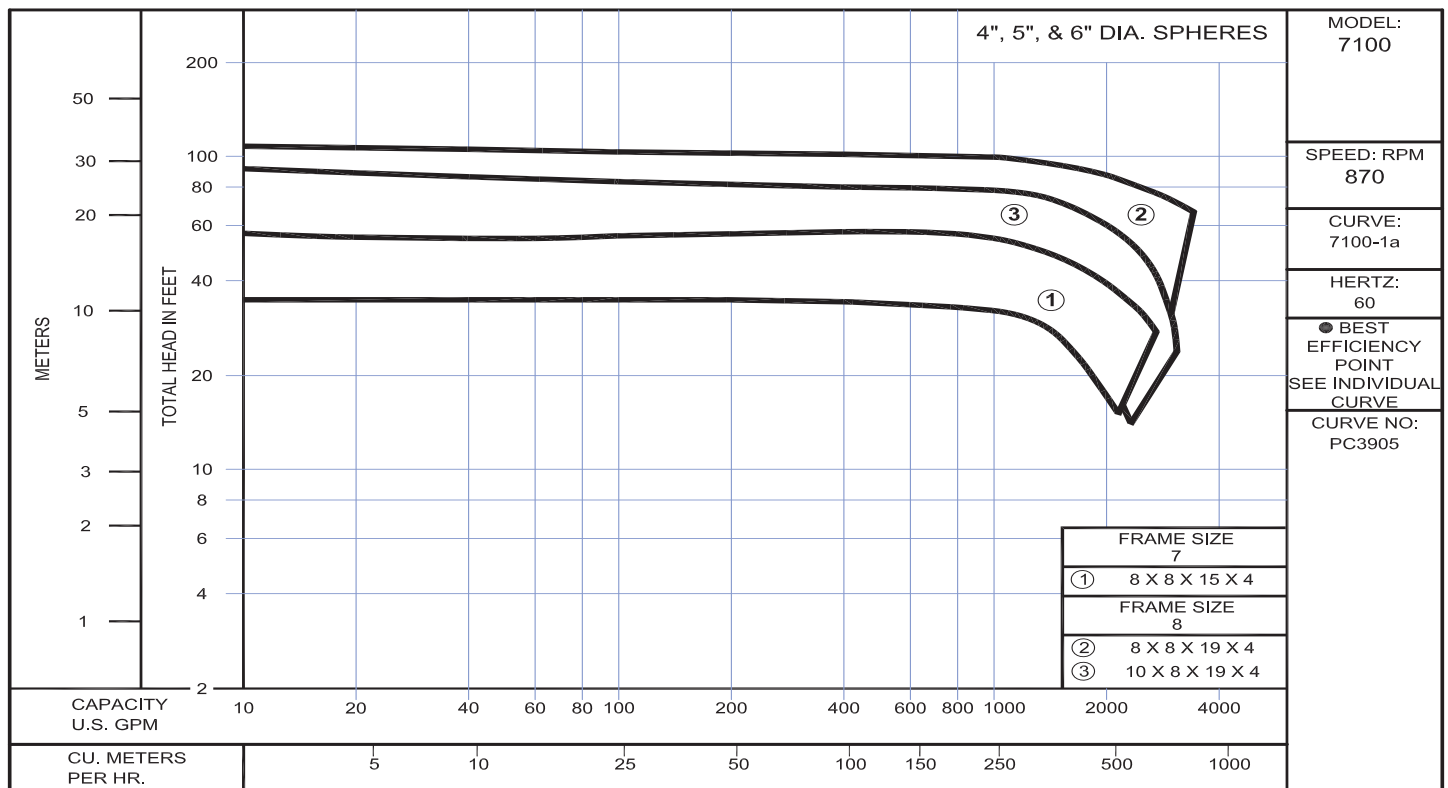
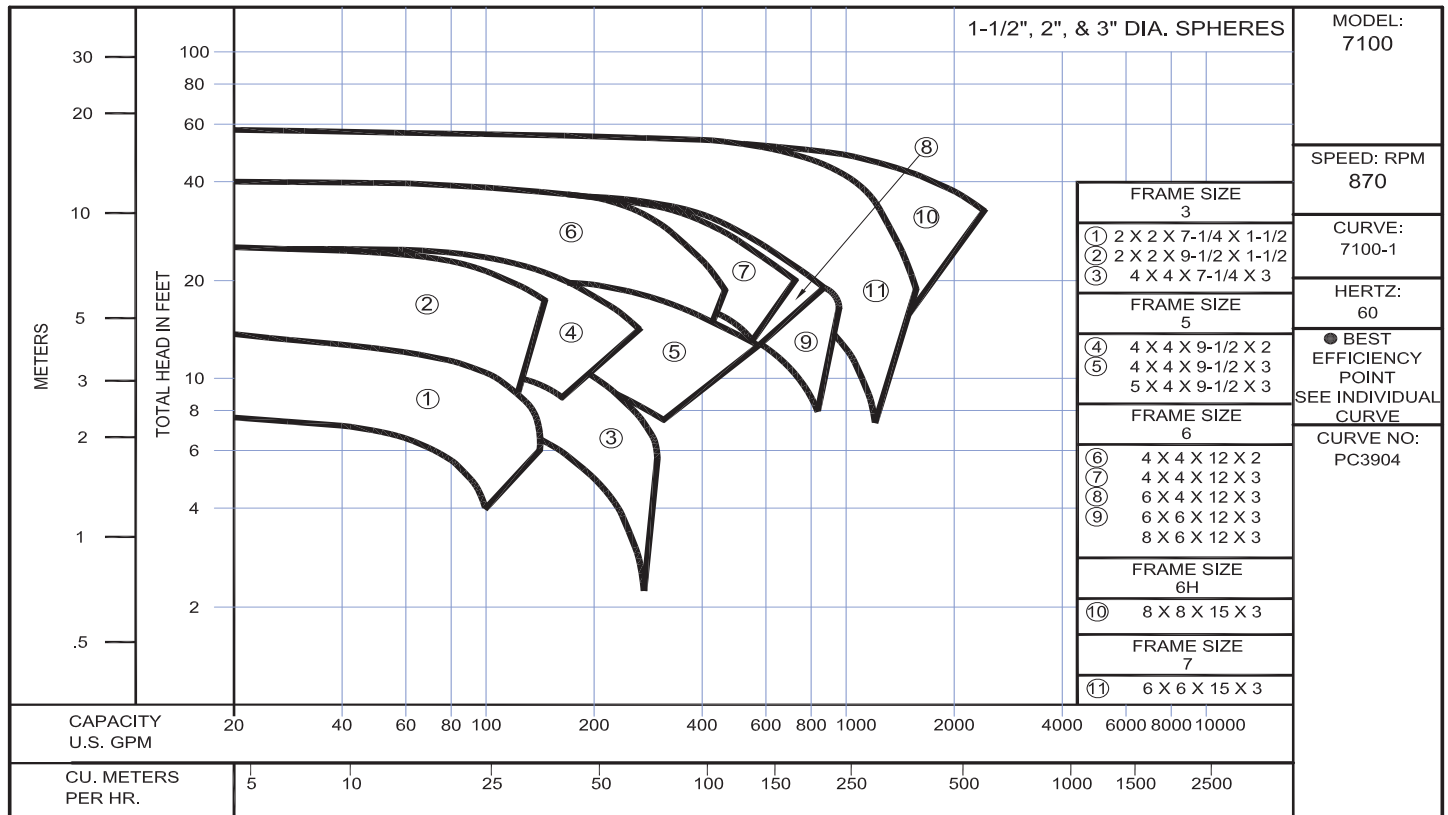
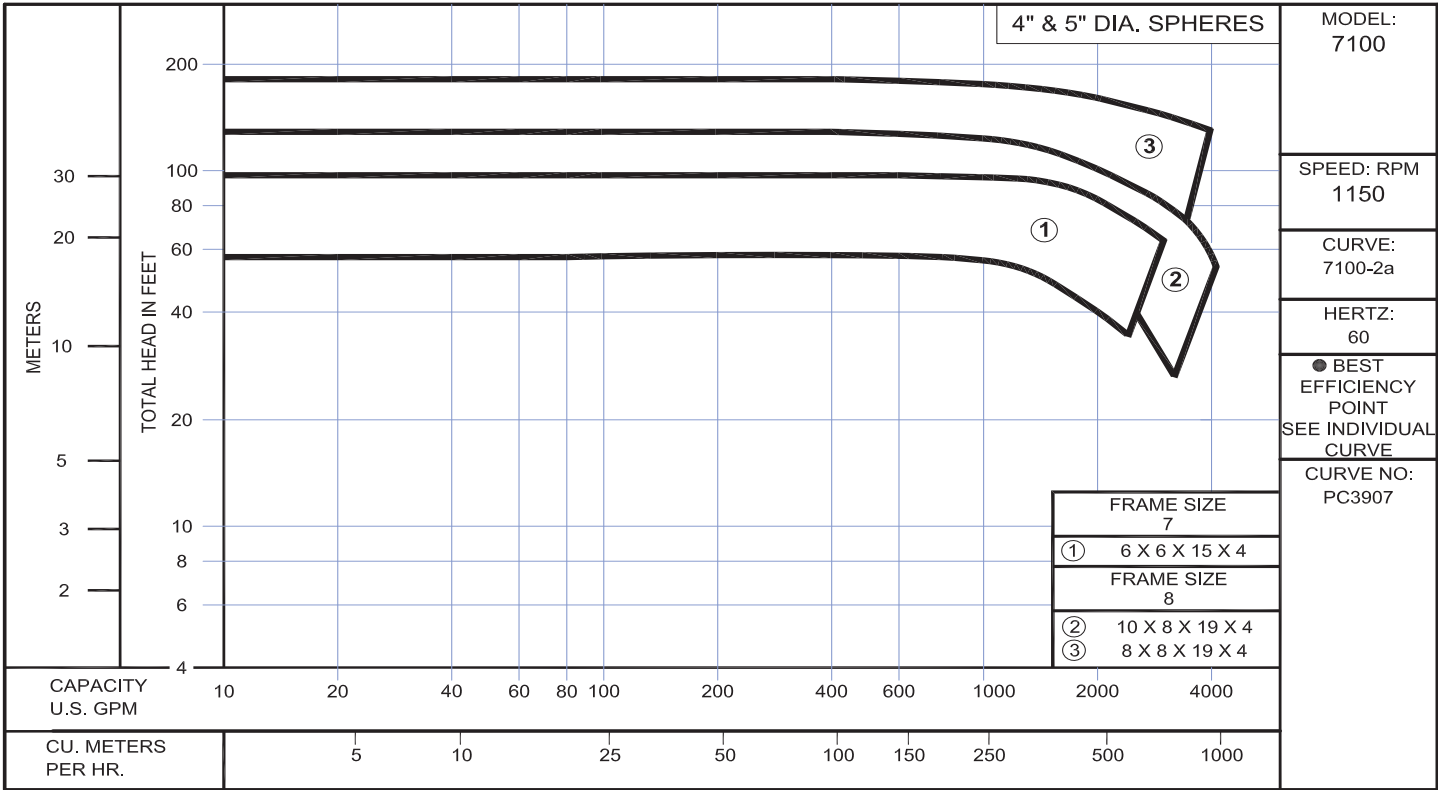
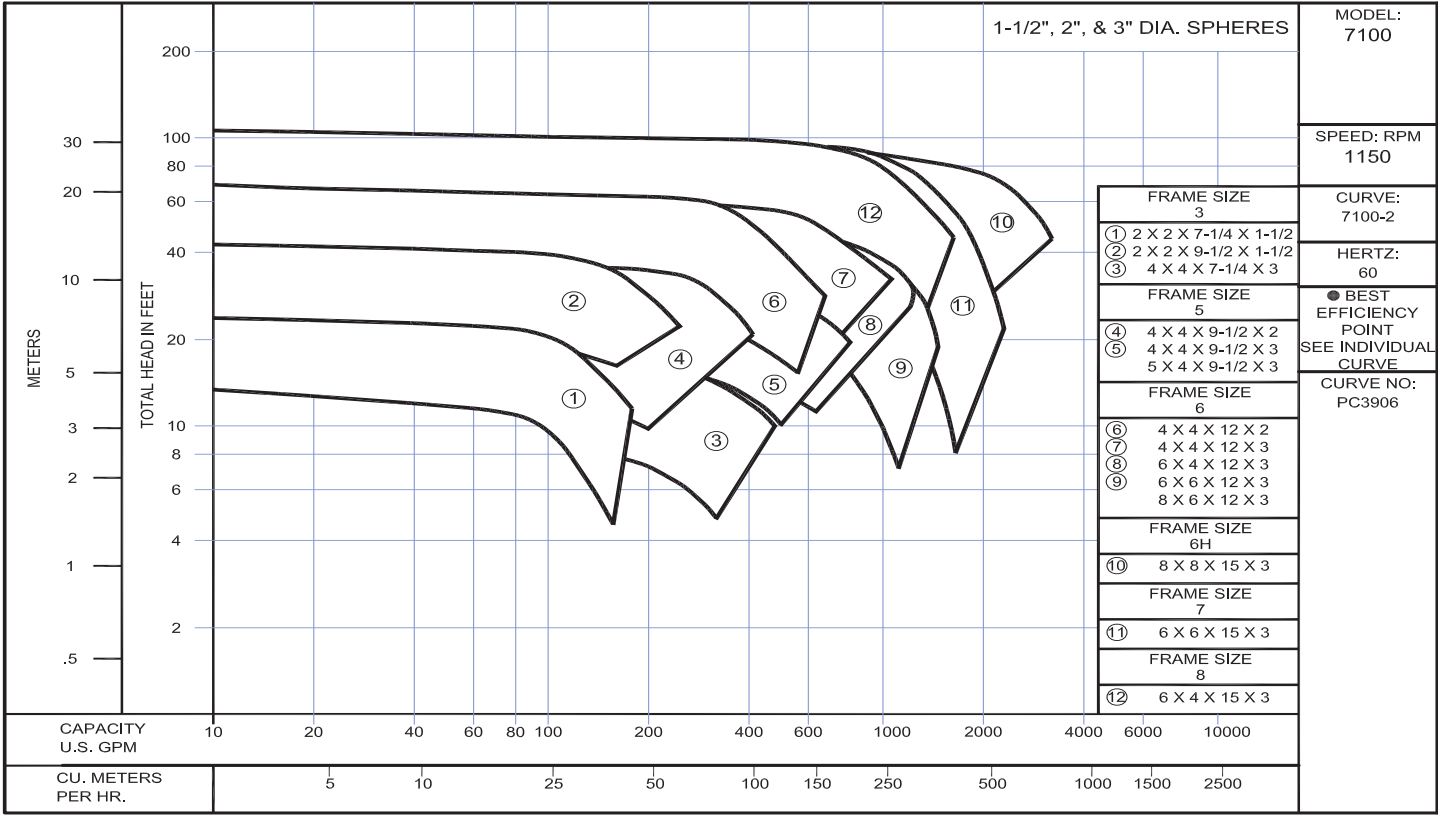


Fig. 7100

Selection Curves, 1150RPM
Bulletin 7100

Dry Pit Solids Handling Centrifugal Pumps



Dry Pit Solids Handling Centrifugal Pumps

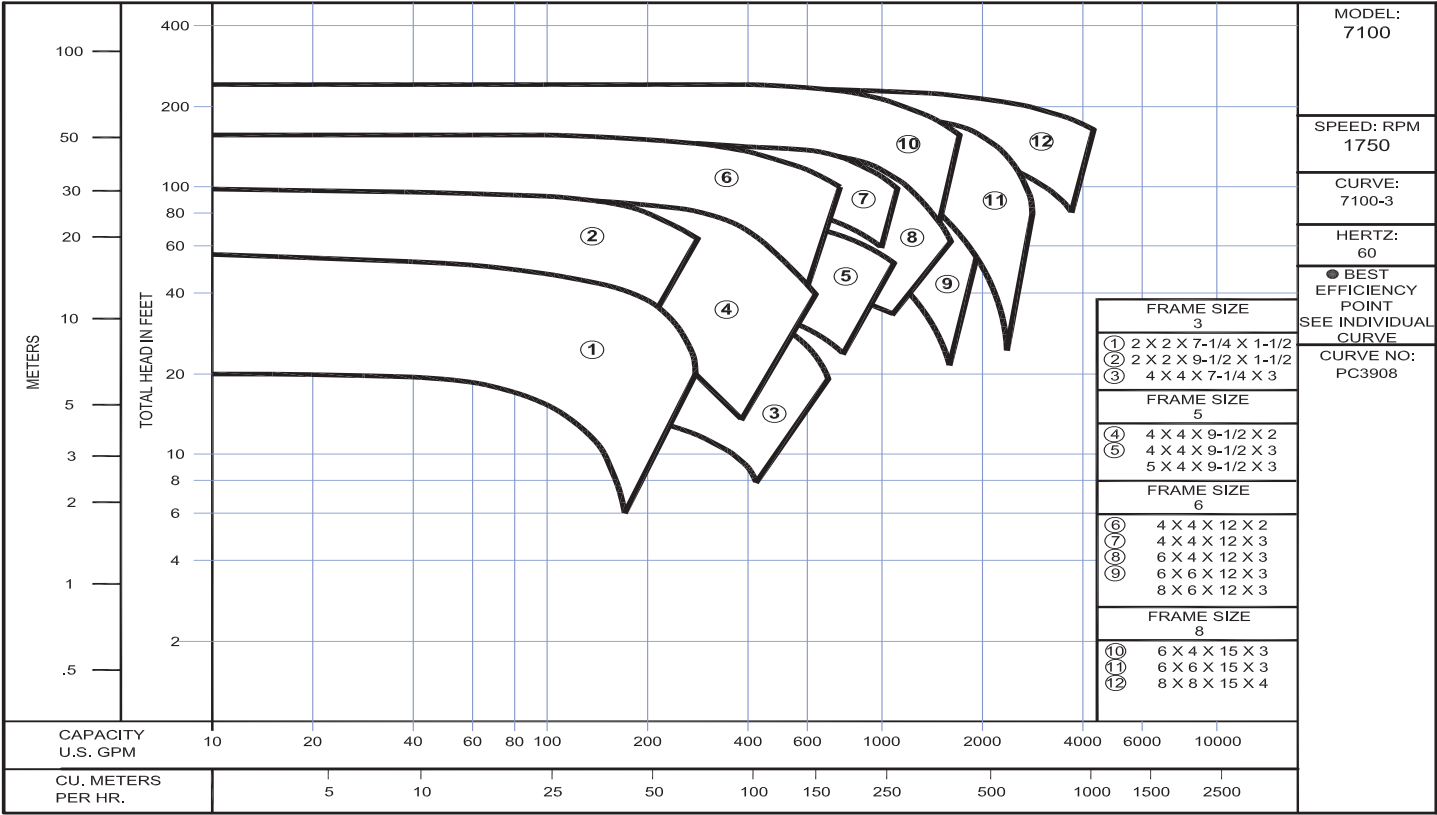


Fig. 7150-90

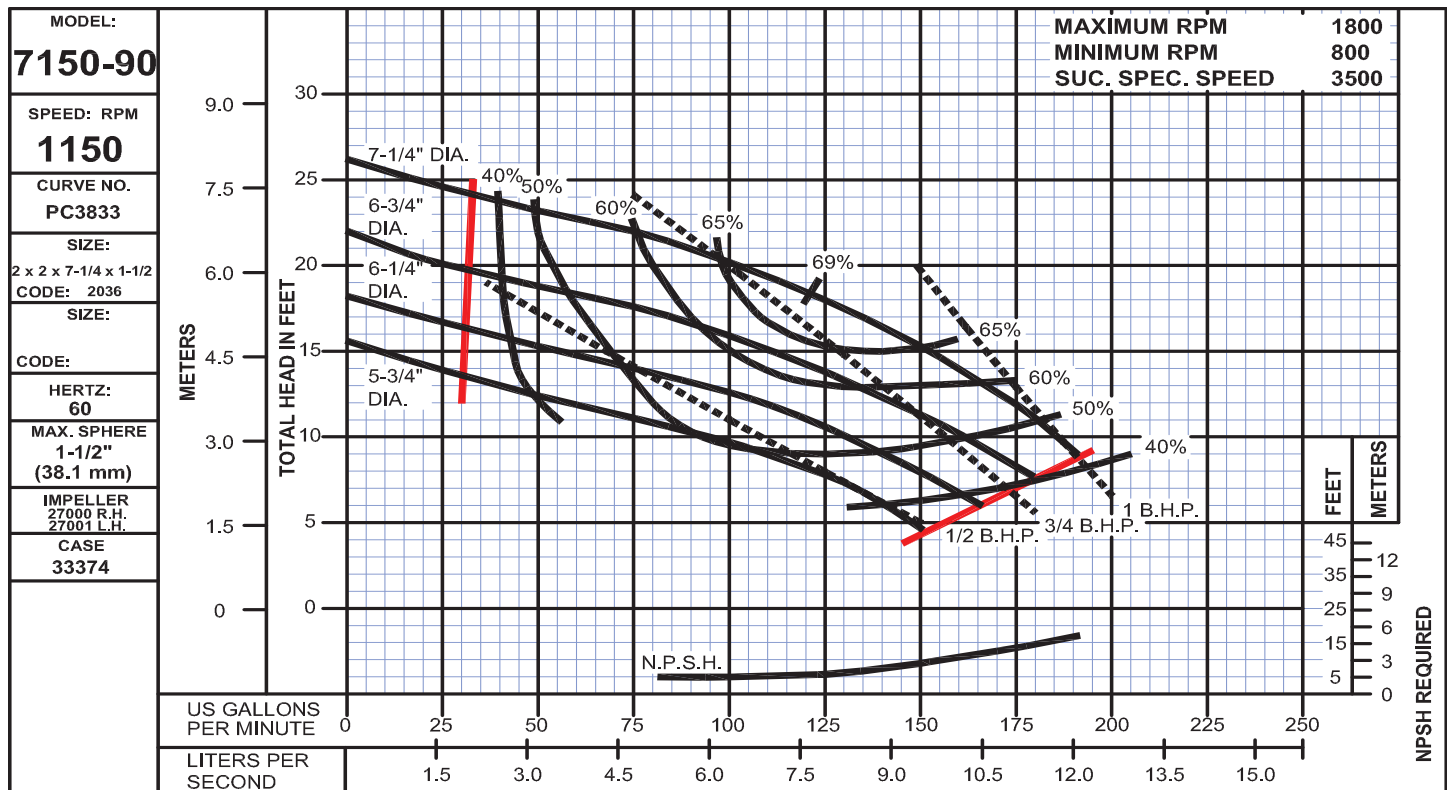
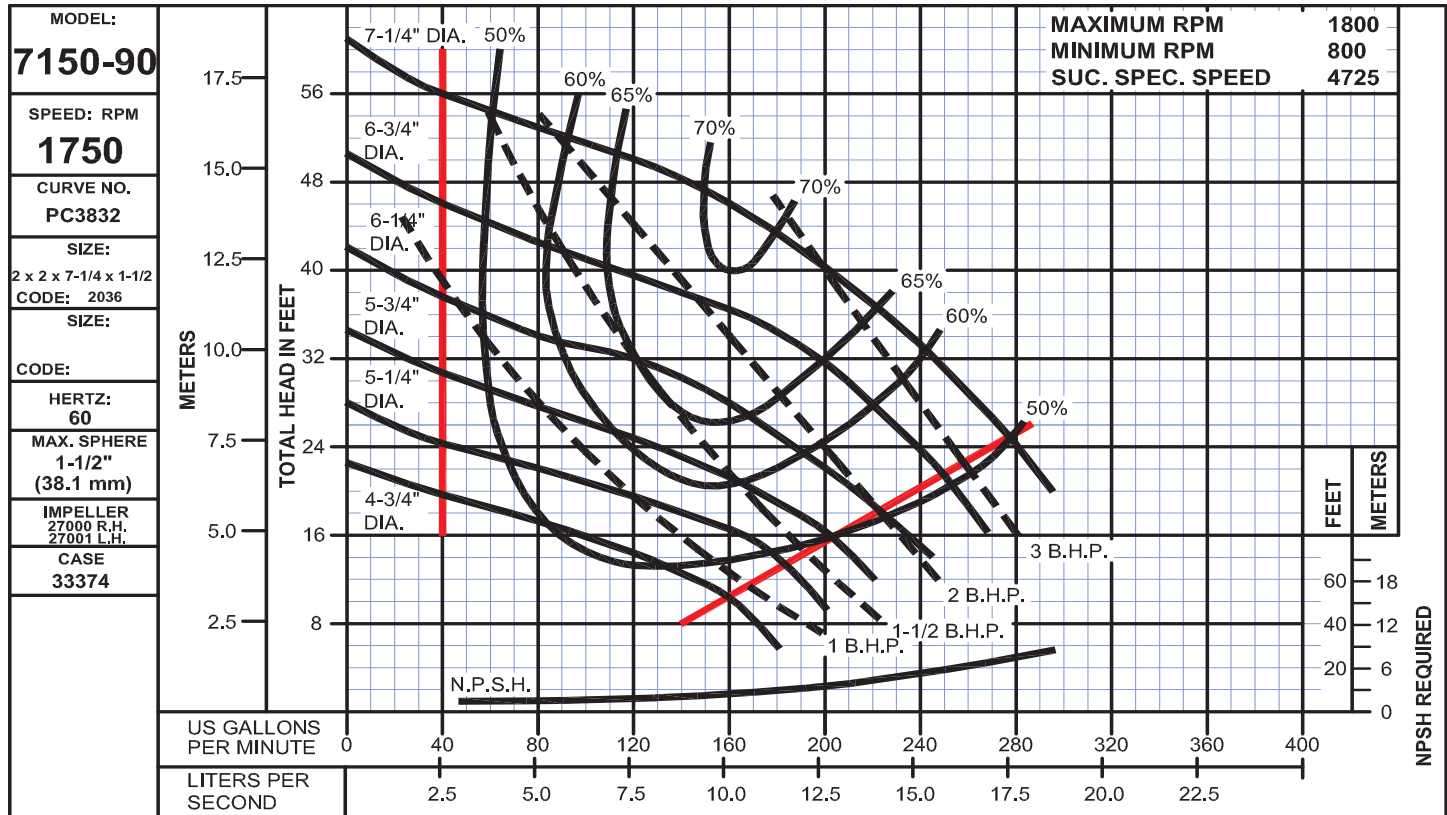
Sizes: 2 x 2 x 7¼ x 1½, 1150 & 1750RPM

Bulletin 7100

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SECTION 45-SS
 PAGE 44
 DATE 7/07

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Curves shown performance with liquid having
 Specific Gravity - 1.0, Viscosity - 30 SSU

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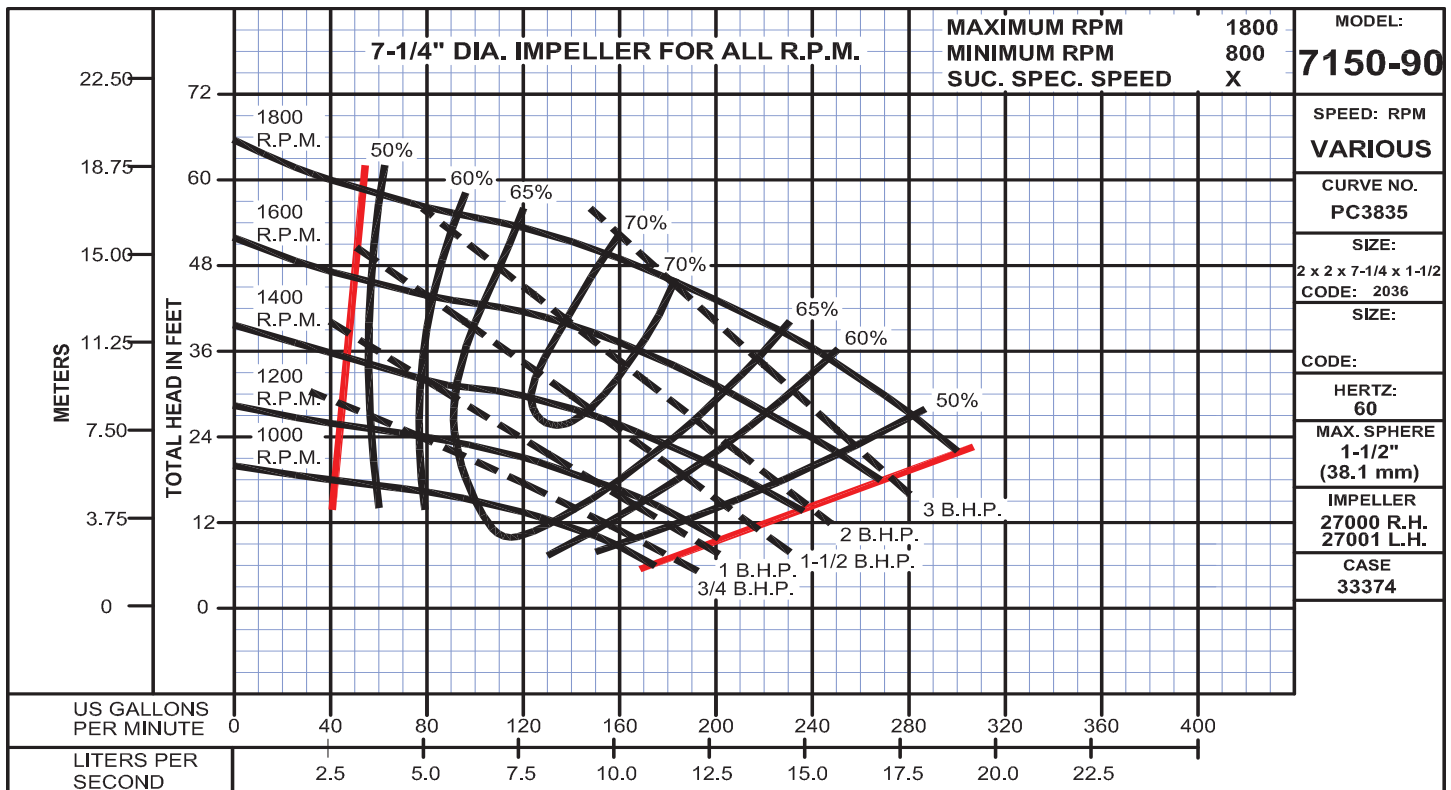
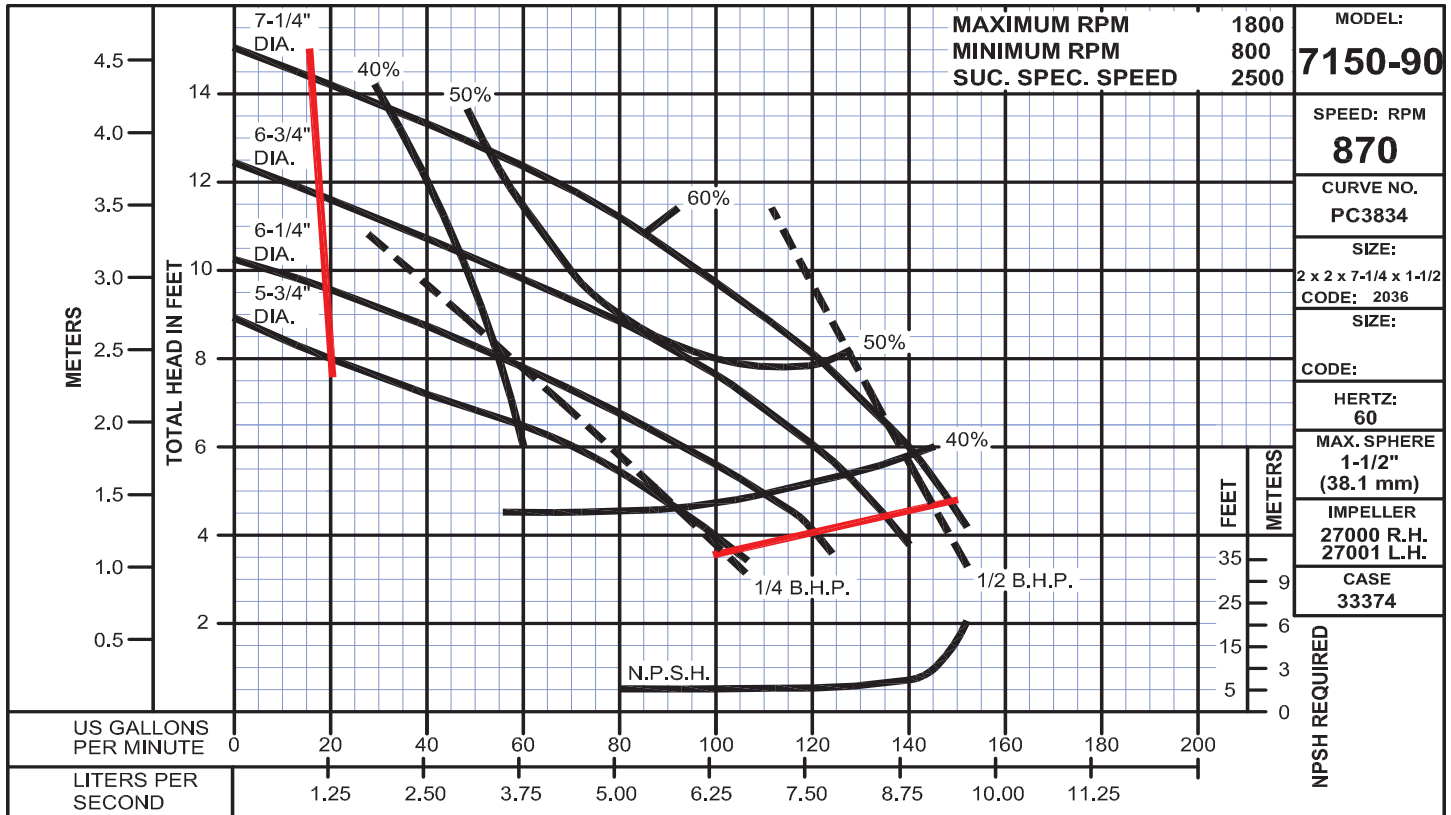


Fig. 7150-90

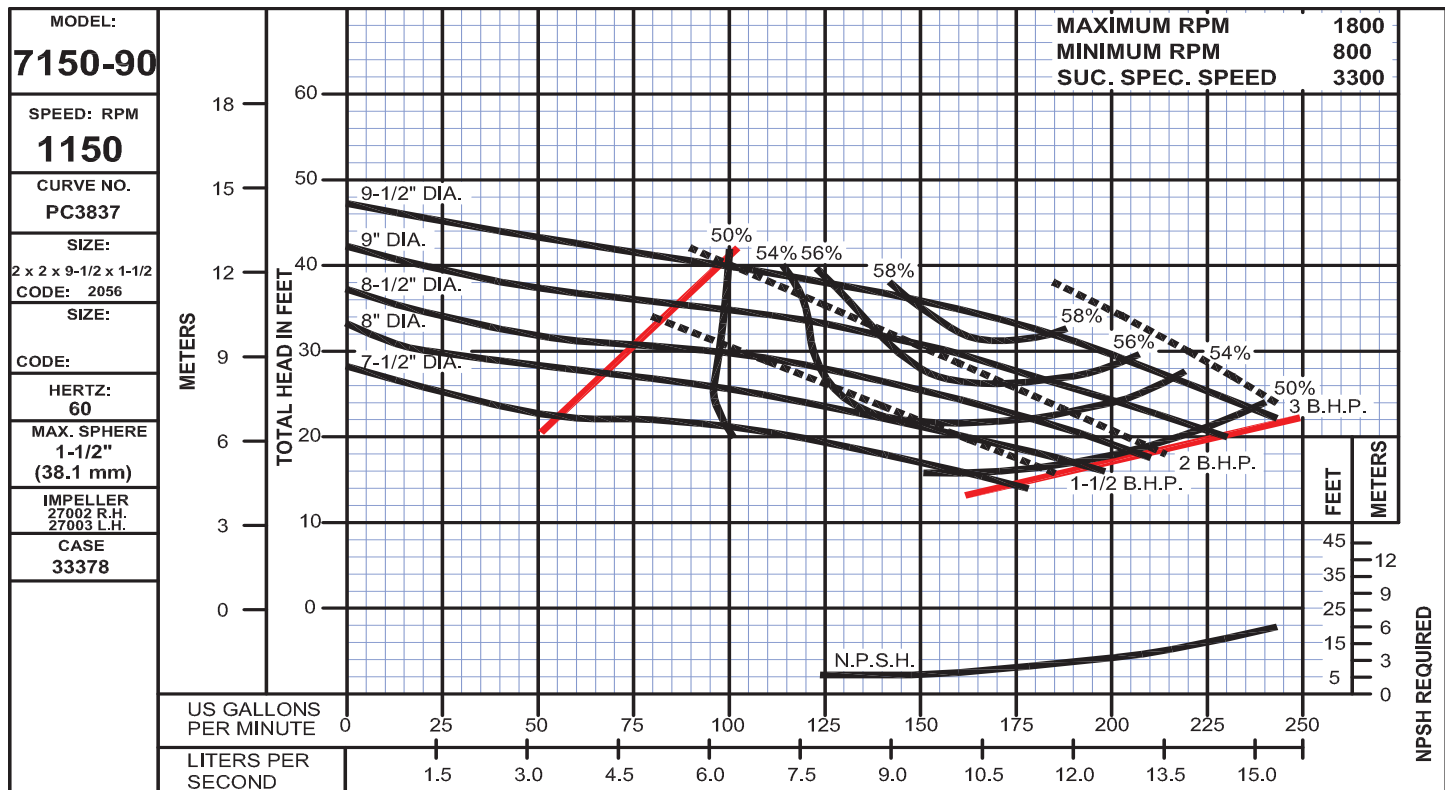
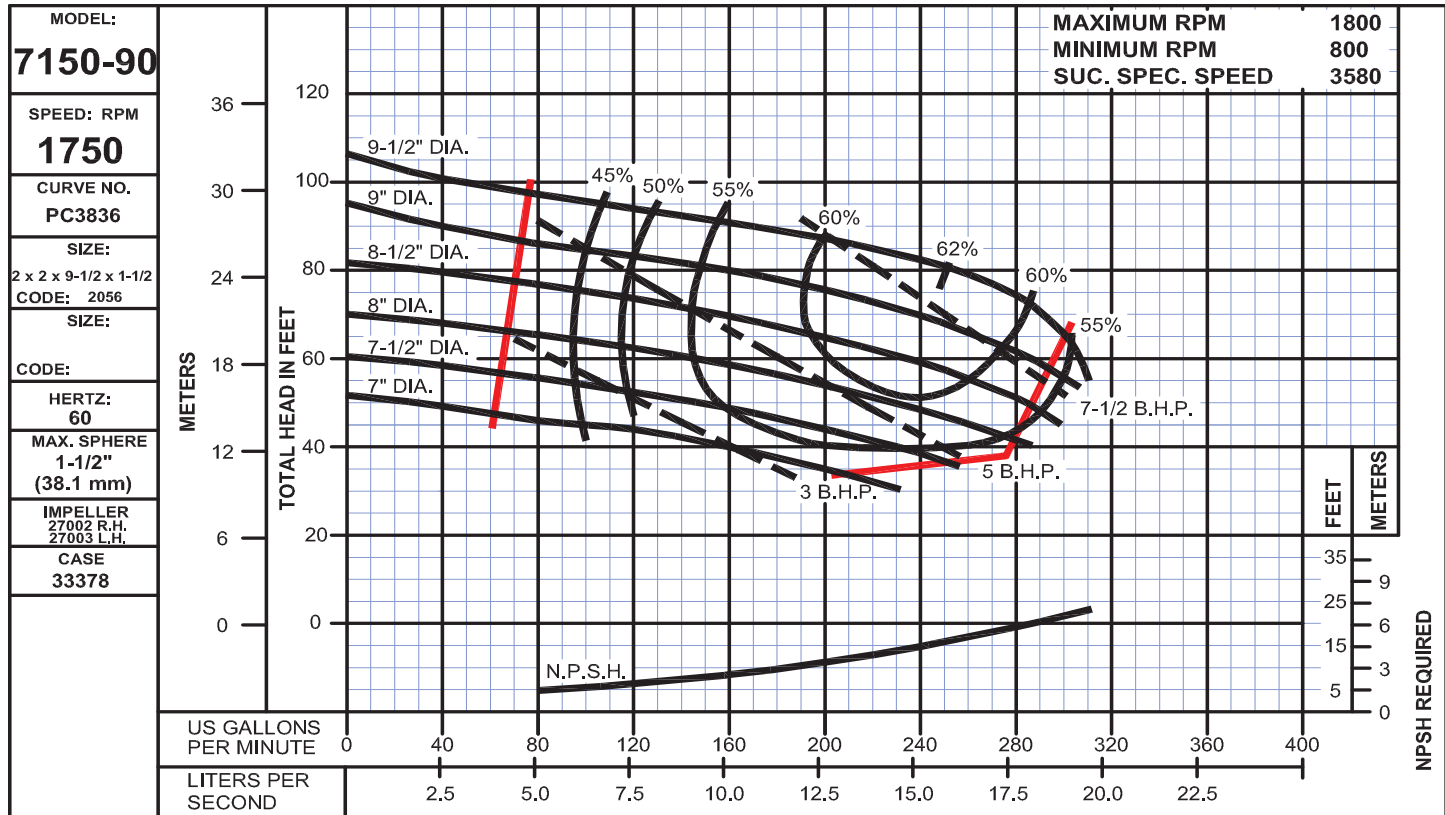
Sizes: 2 x 2 x 9½ x 1½, 1150 & 1750RPM

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SECTION 45-SS
 PAGE 46
 DATE 7/07

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Curves shown performance with liquid having
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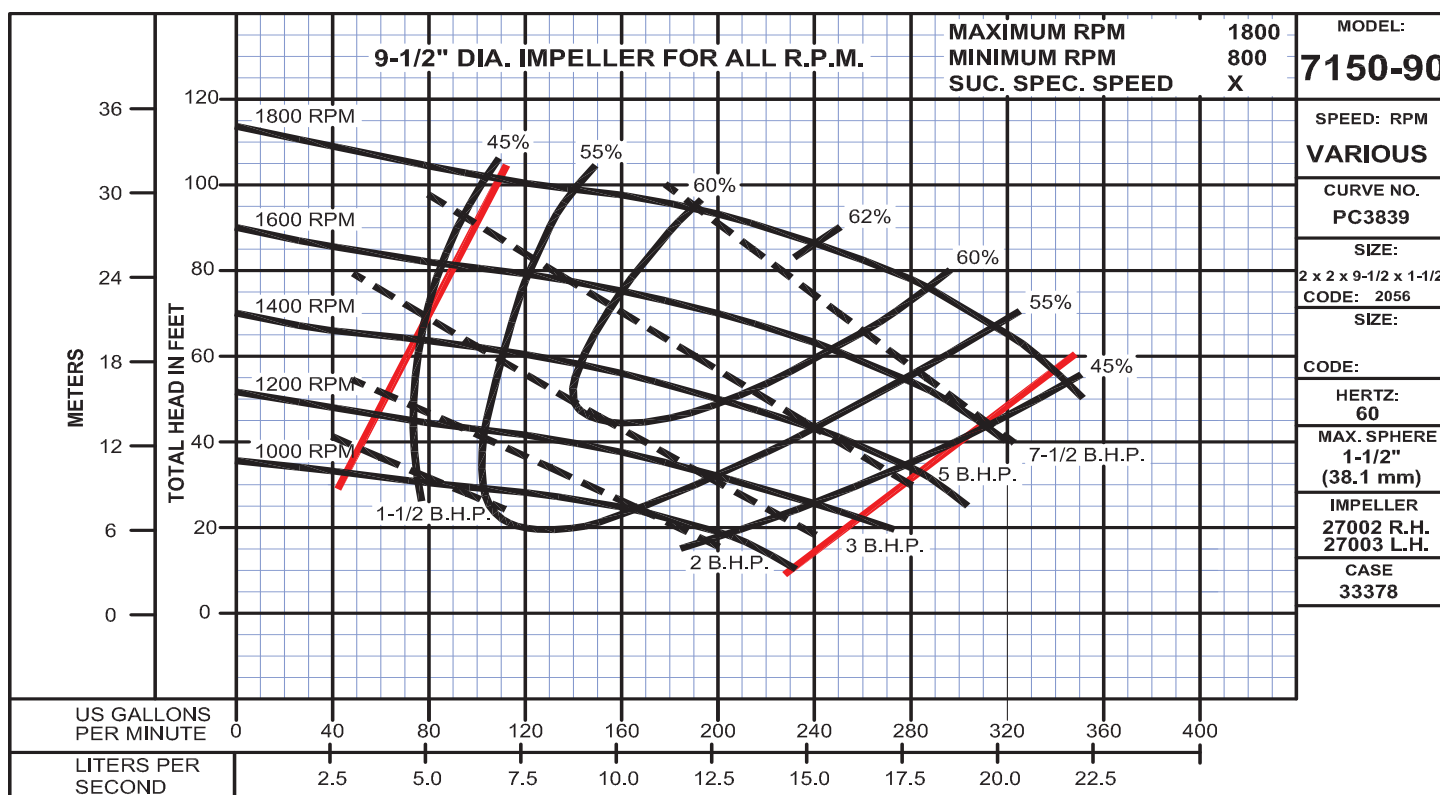
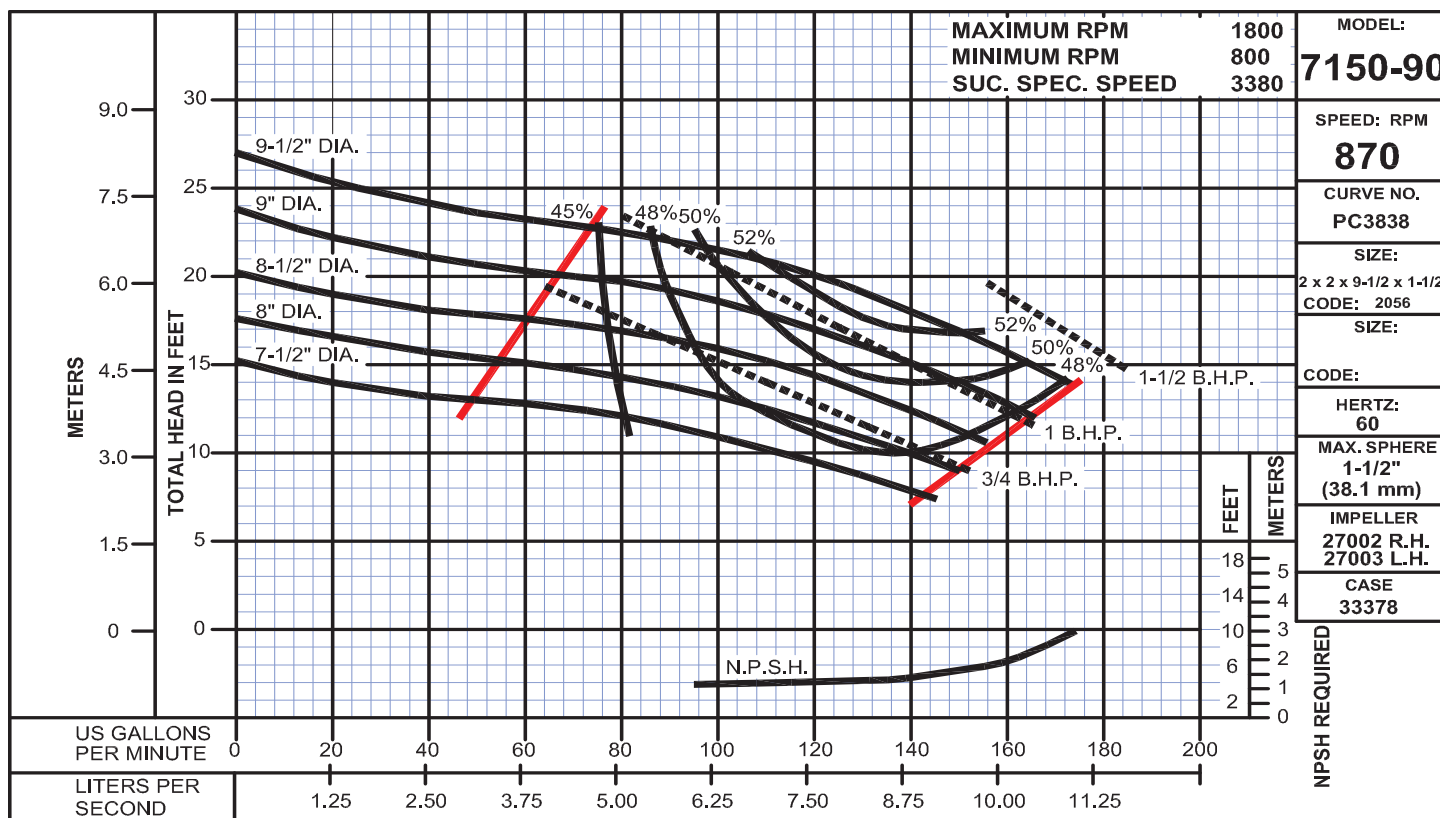


Fig. 7150-90

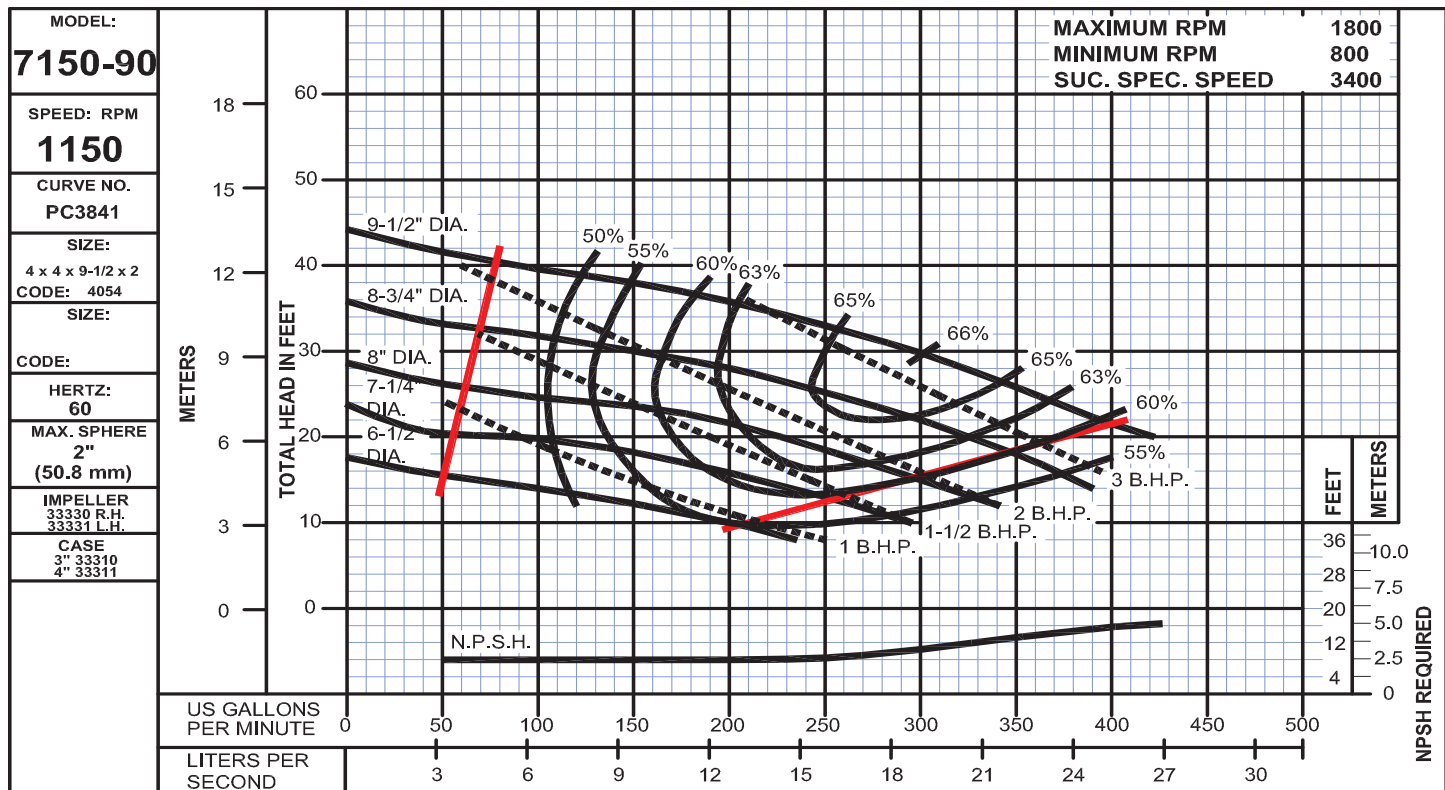
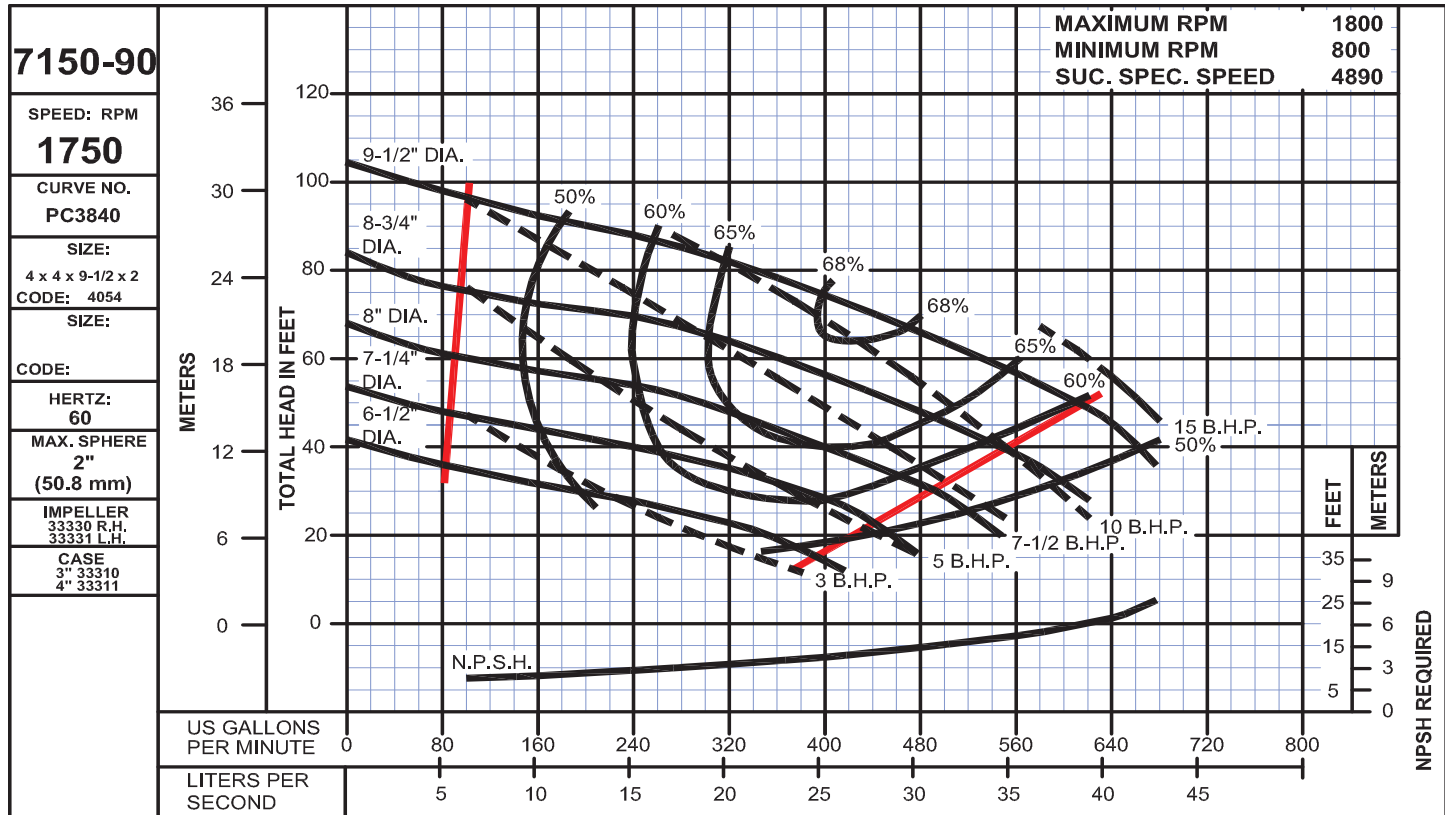
Sizes: 4 x 4 x 9½ x 2, 1150 & 1750RPM

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SECTION 45-SS
PAGE 48
DATE 7/07

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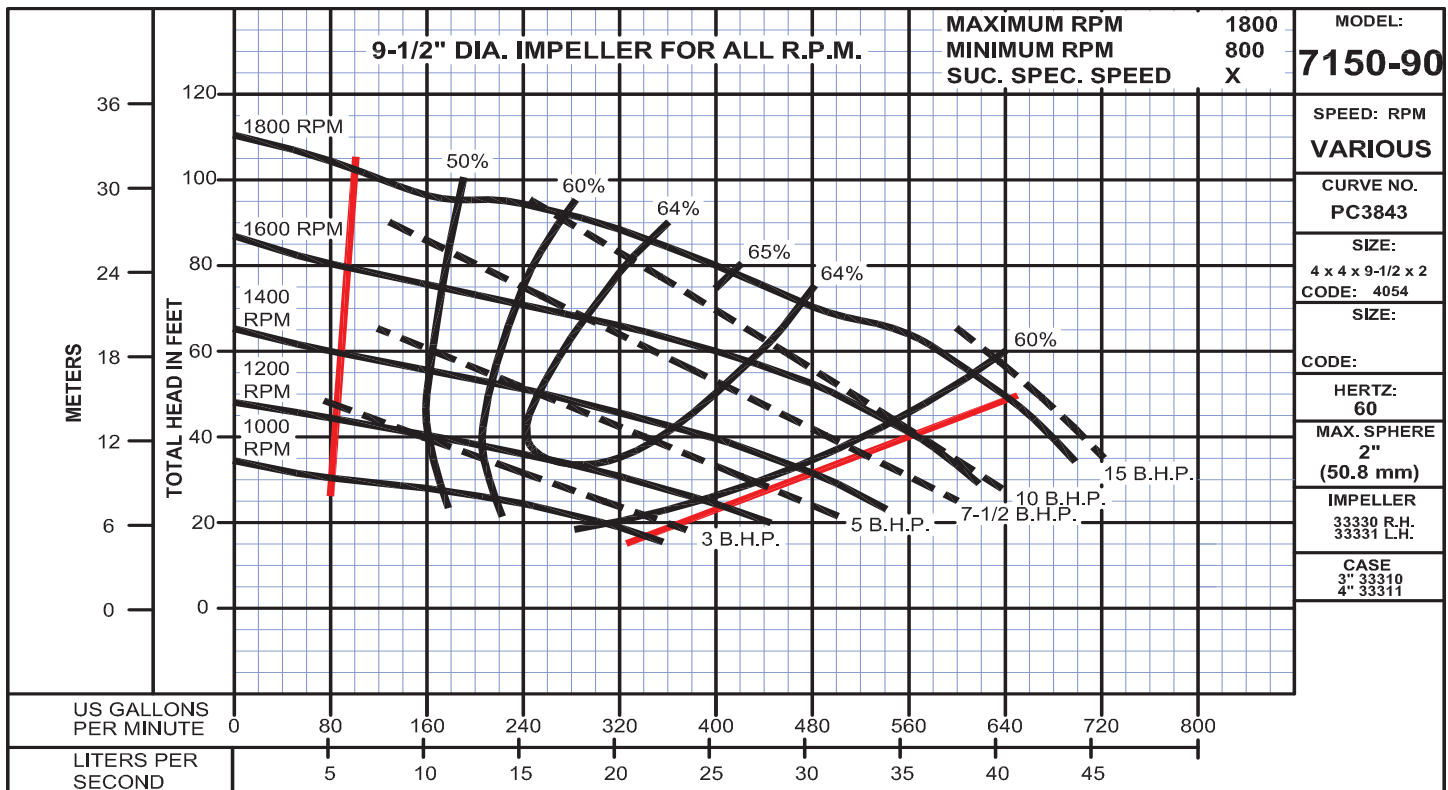
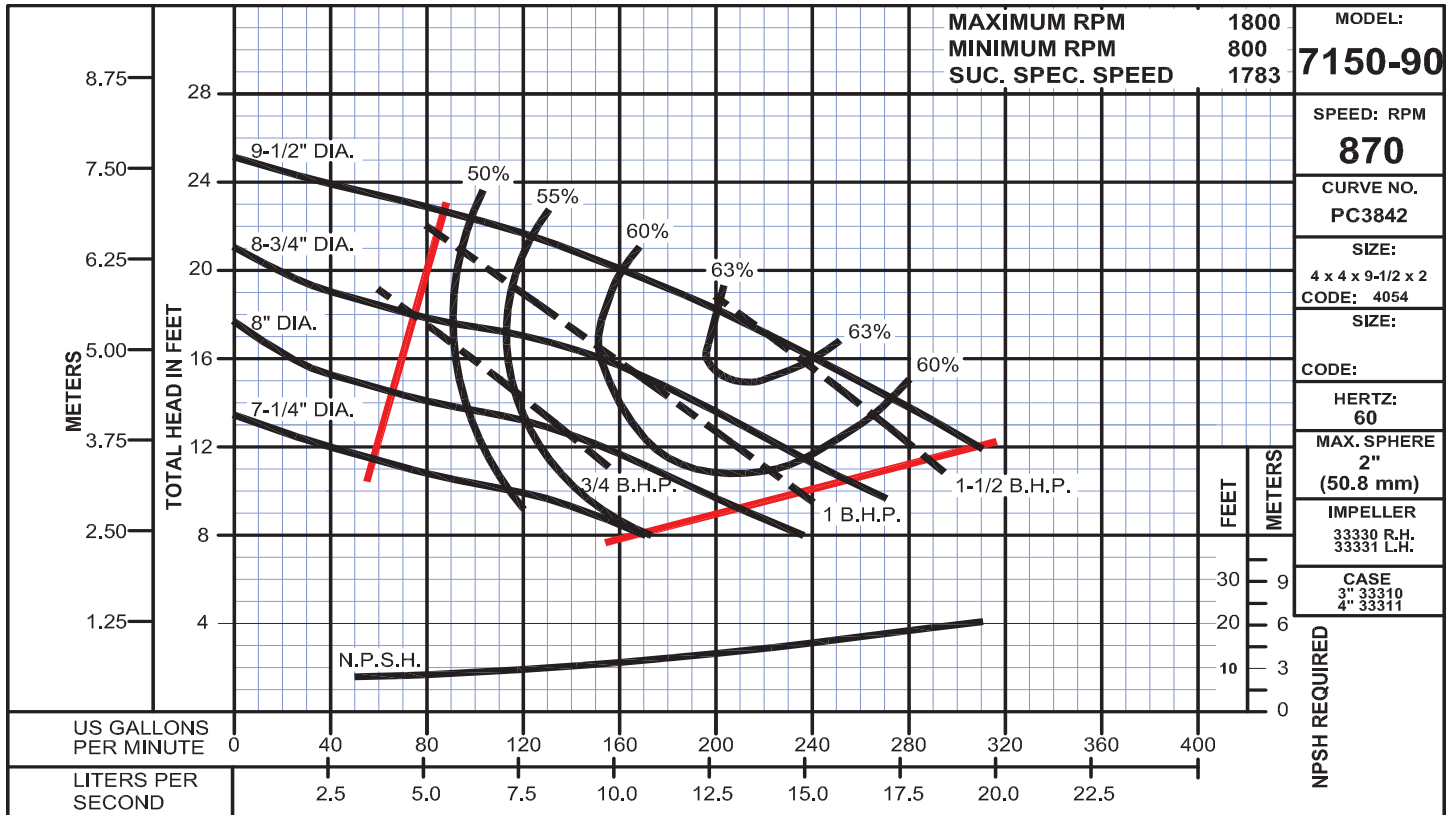


Fig. 7150-90

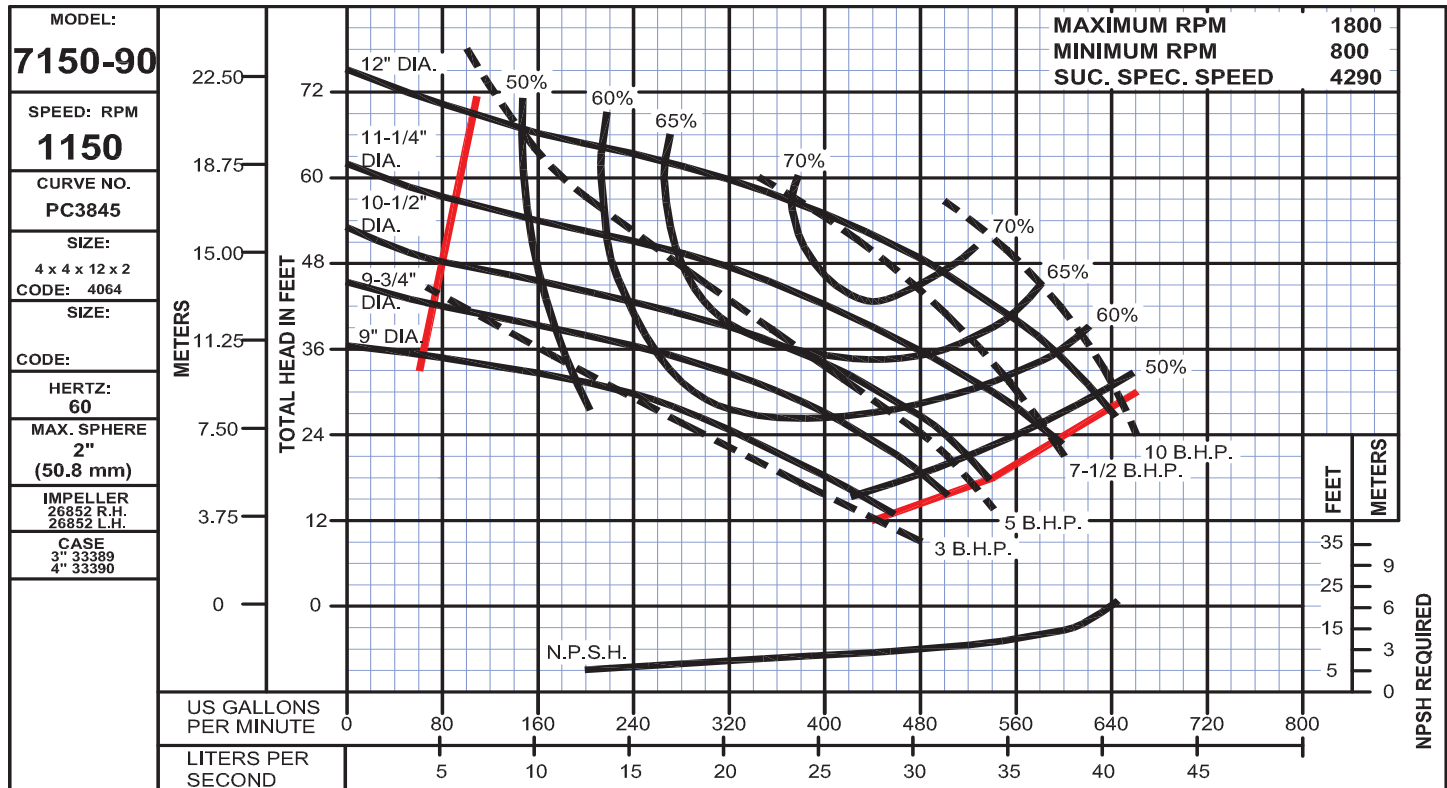
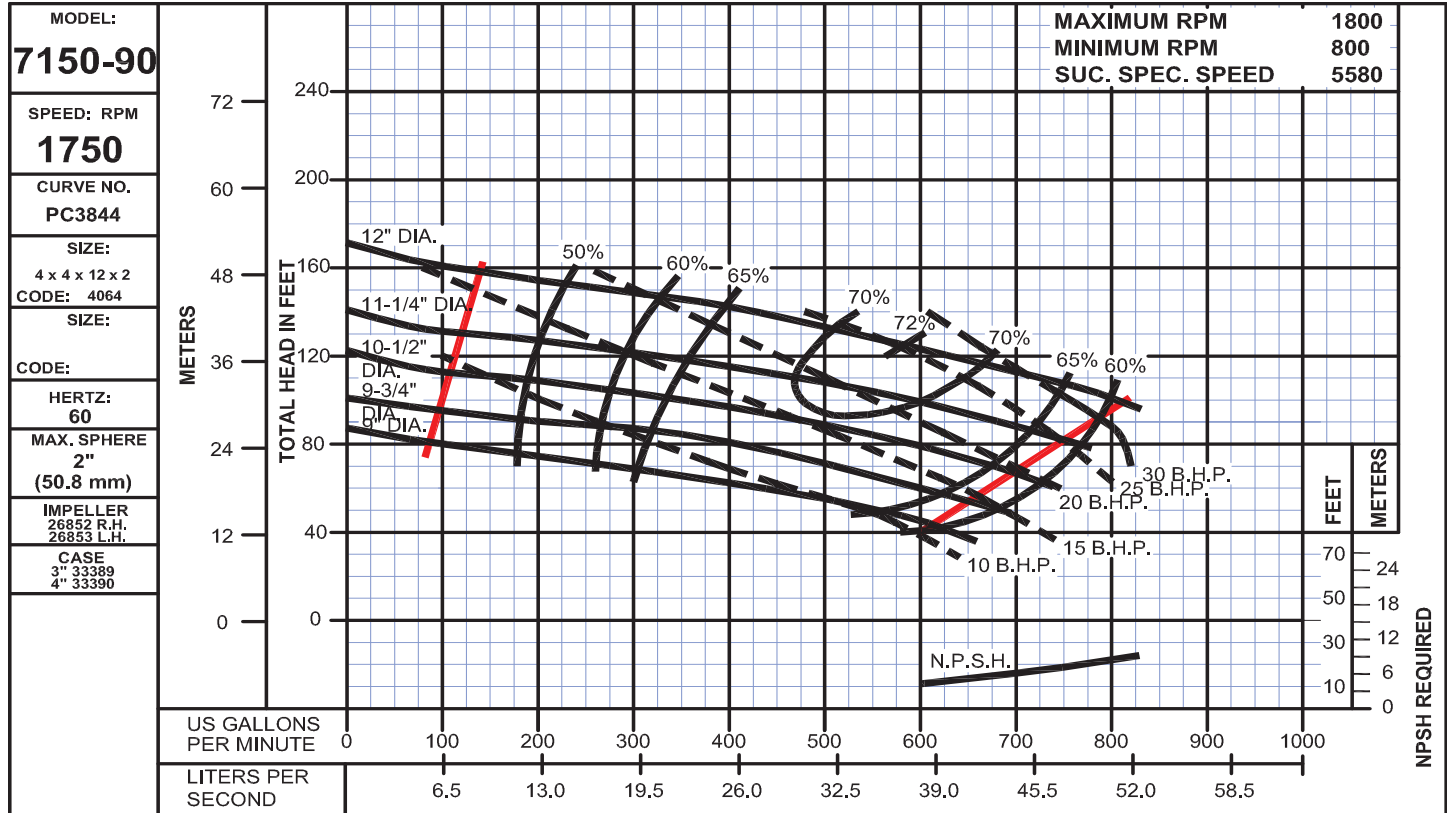
Sizes: 4 x 4 x 12 x 2, 1150 & 1750RPM

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SECTION 45-SS
PAGE 50
DATE 7/07

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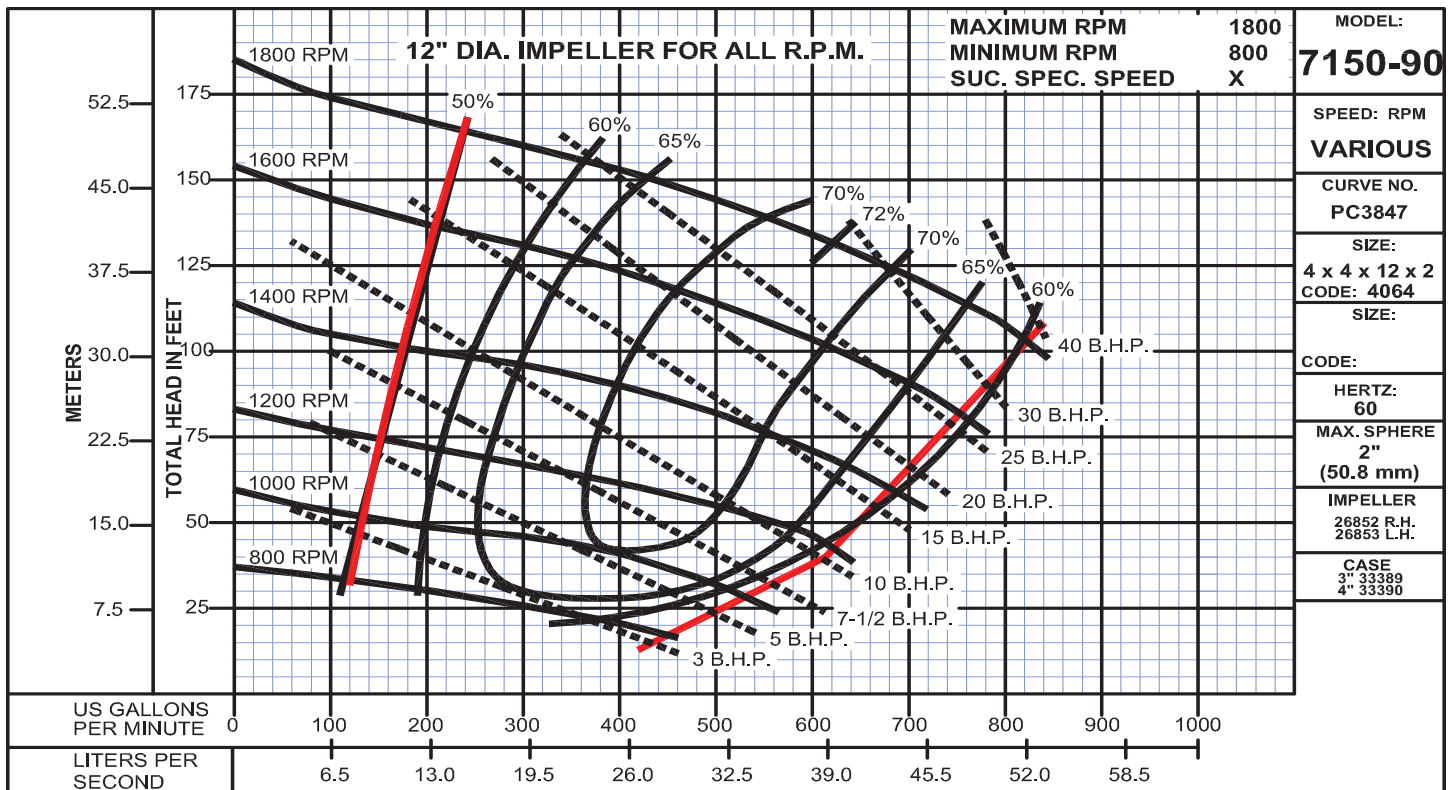
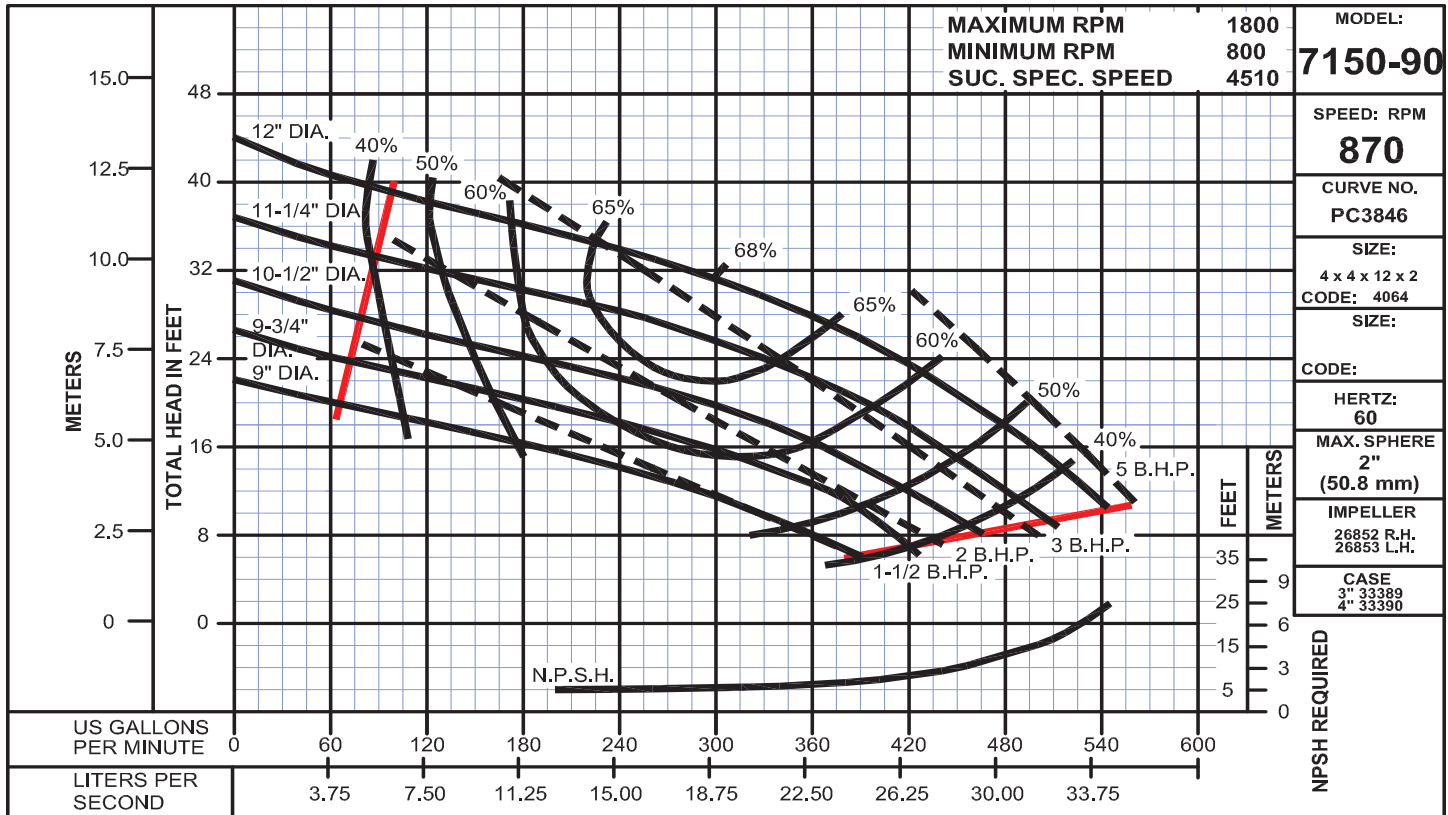


Fig. 7150-90

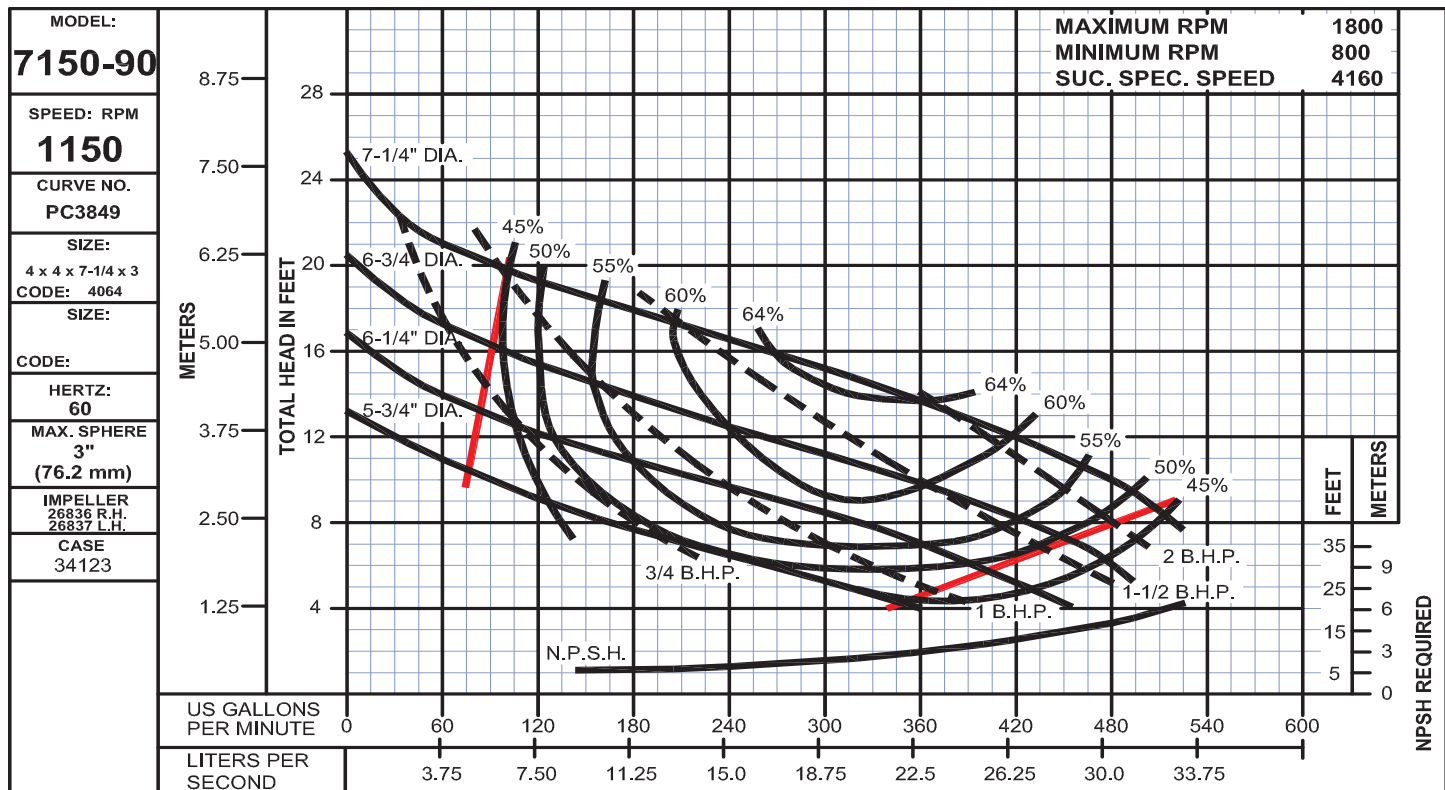
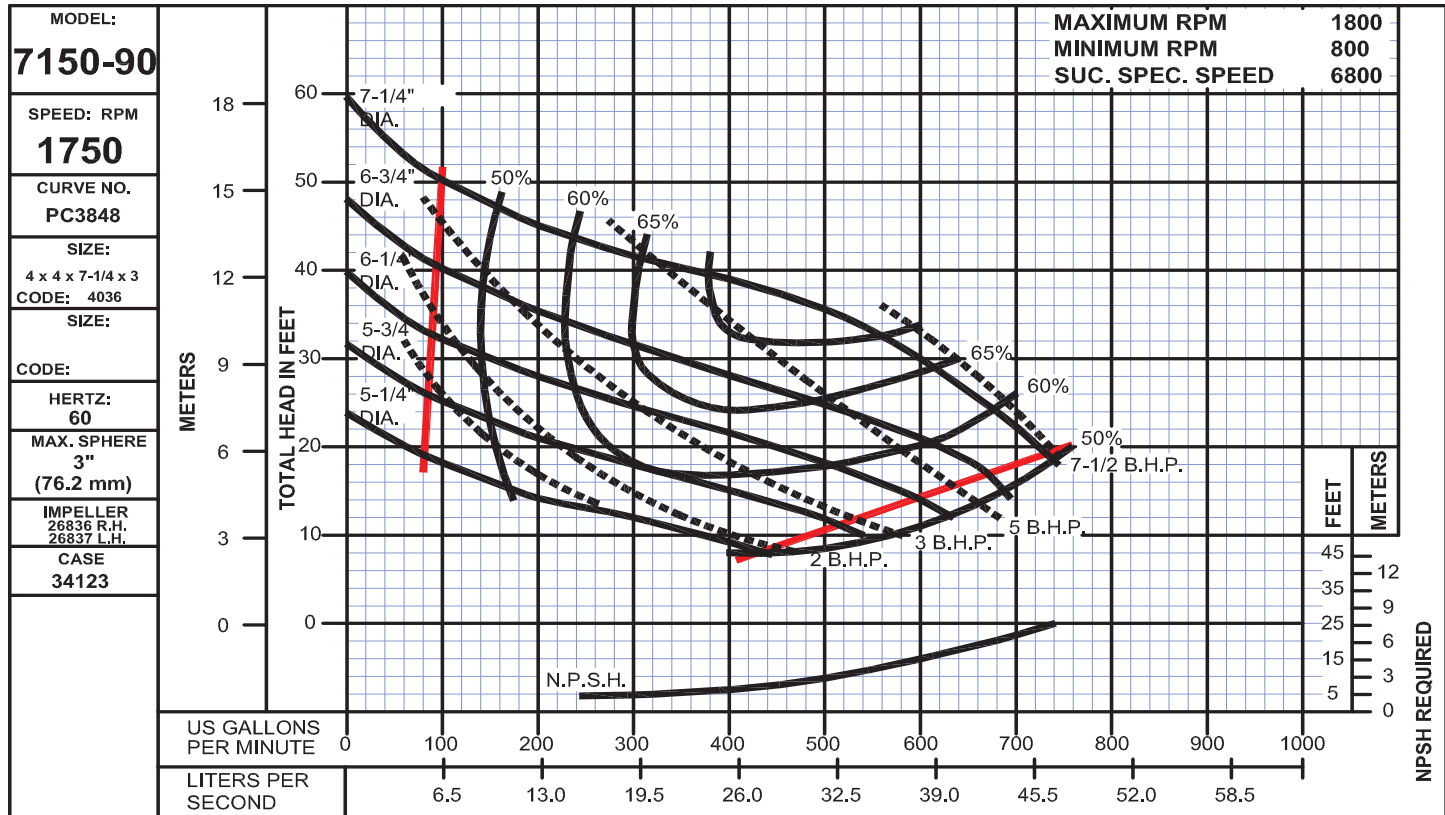
Sizes: 4 x 4 x 7¼ x 3, 1150 & 1750RPM

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SECTION 45-SS
PAGE 52
DATE 7/07

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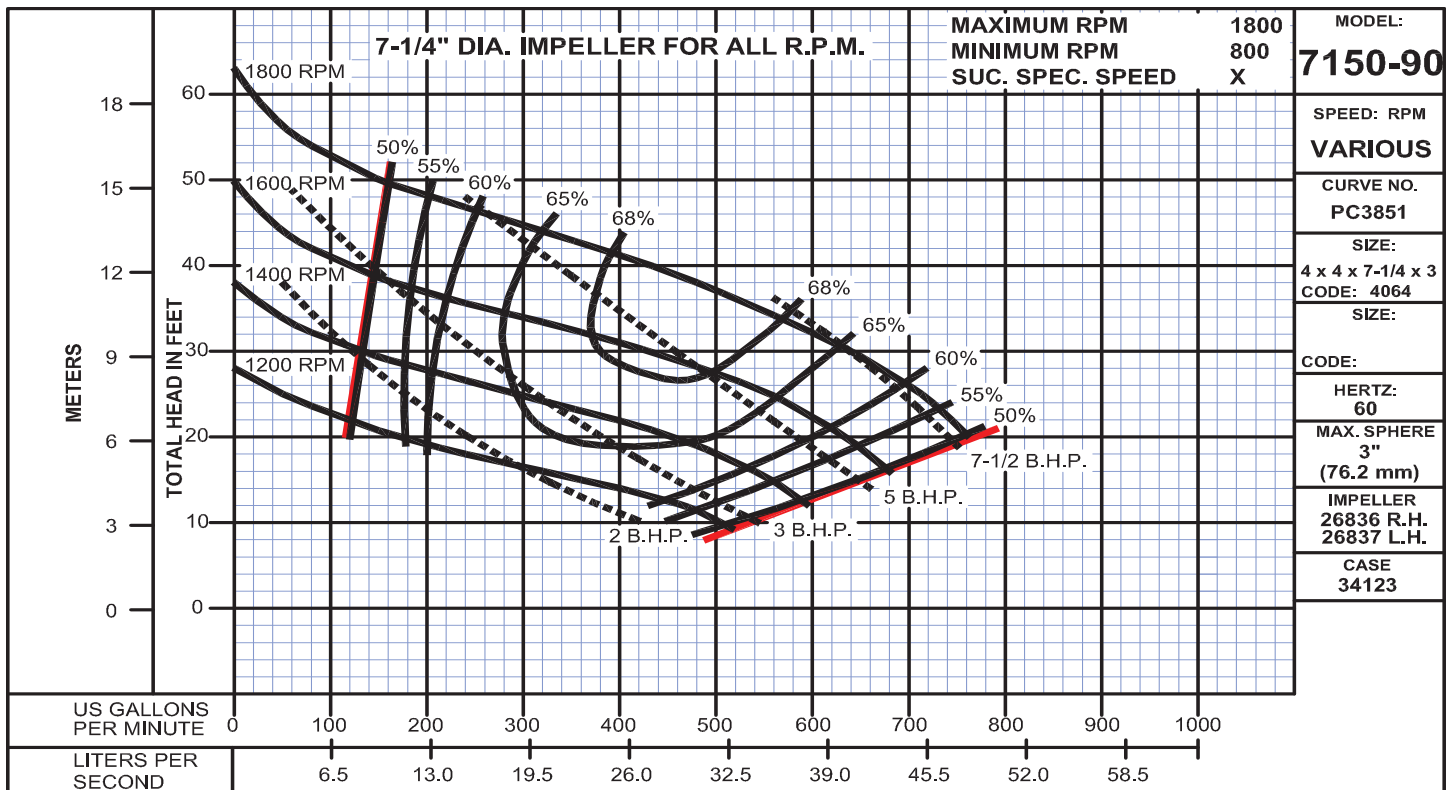
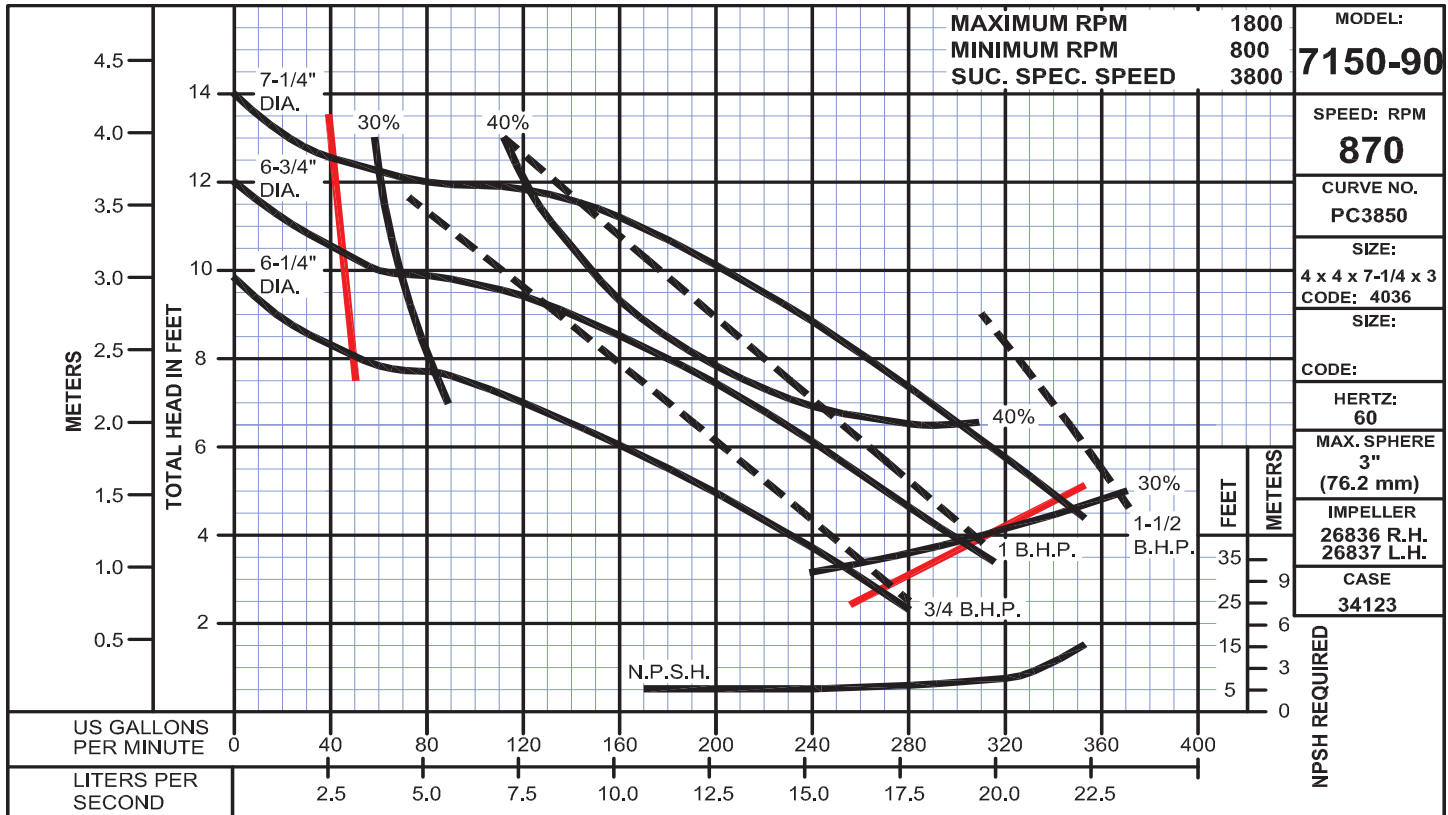


Fig. 7150-90

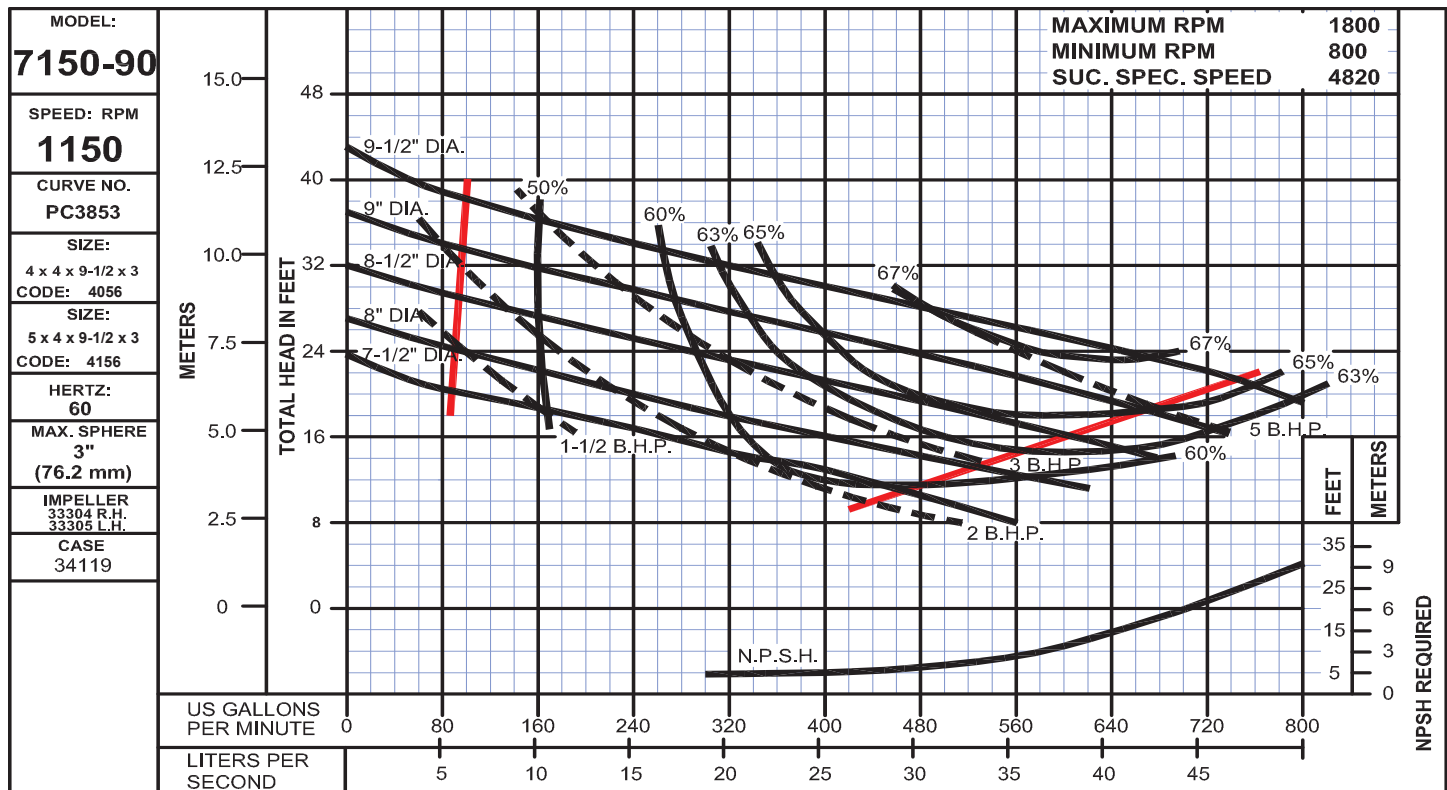
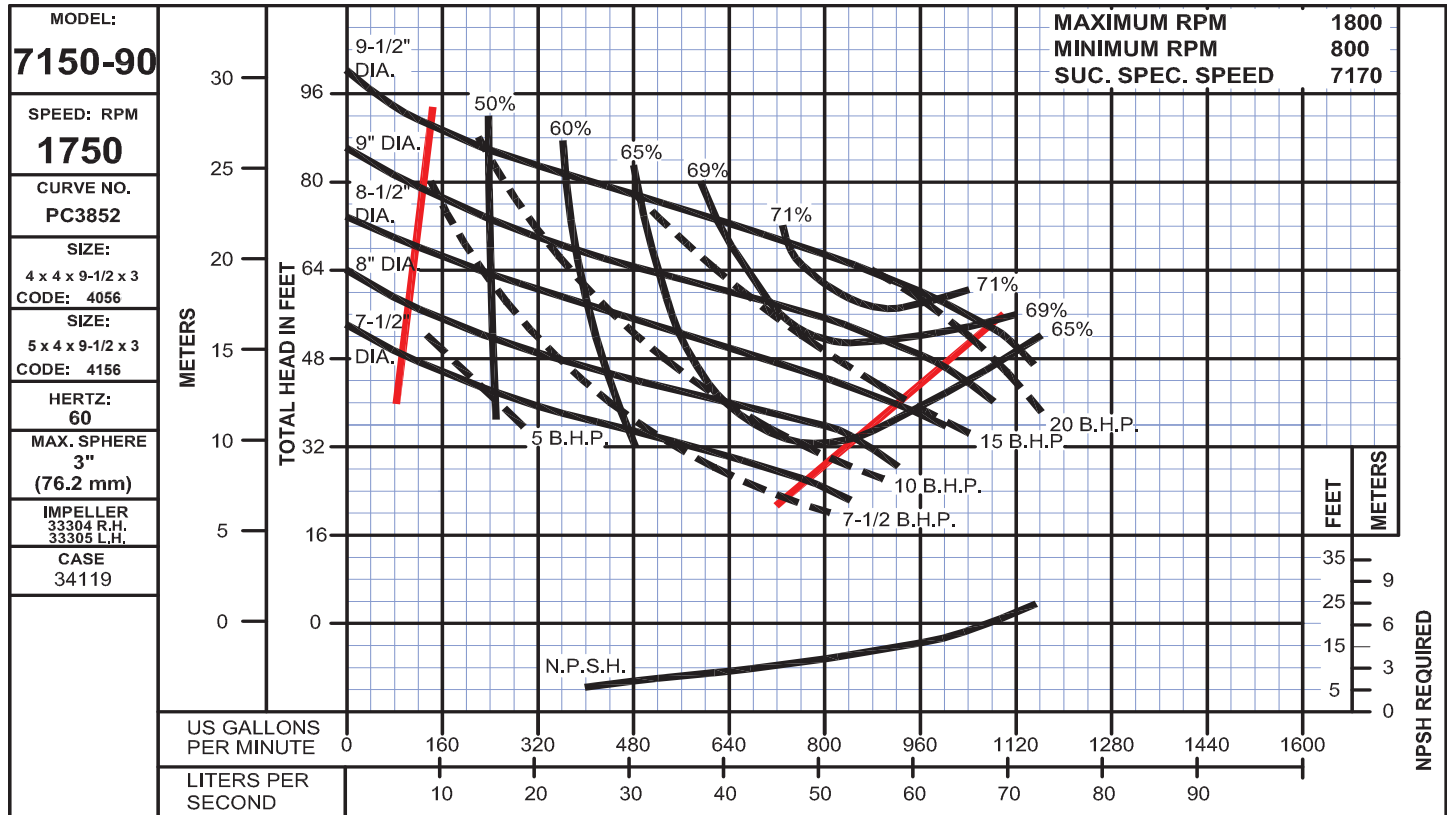
Sizes: 4 x 4 x 9½ x 3, 1150 & 1750RPM

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SECTION 45-SS
PAGE 54
DATE 10/09

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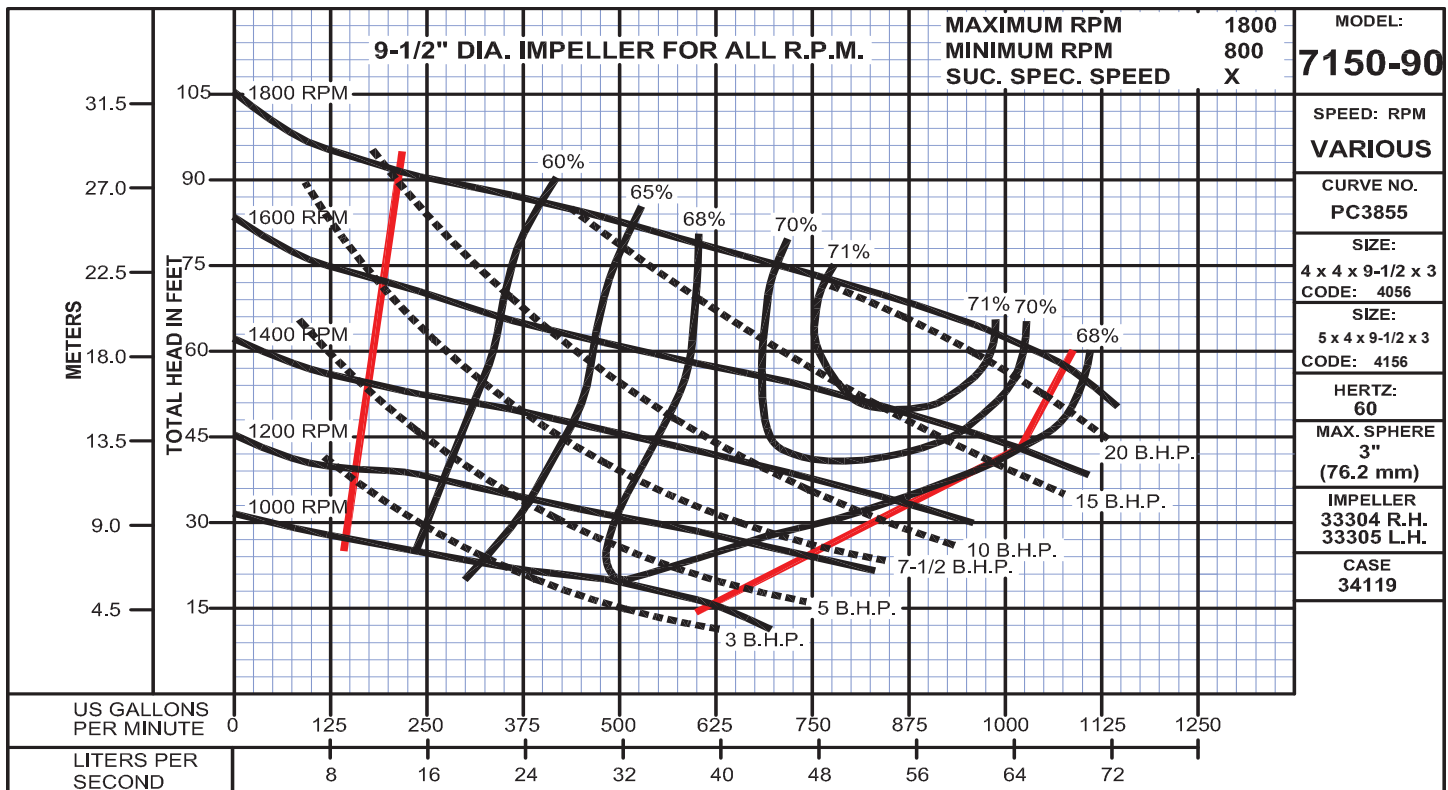
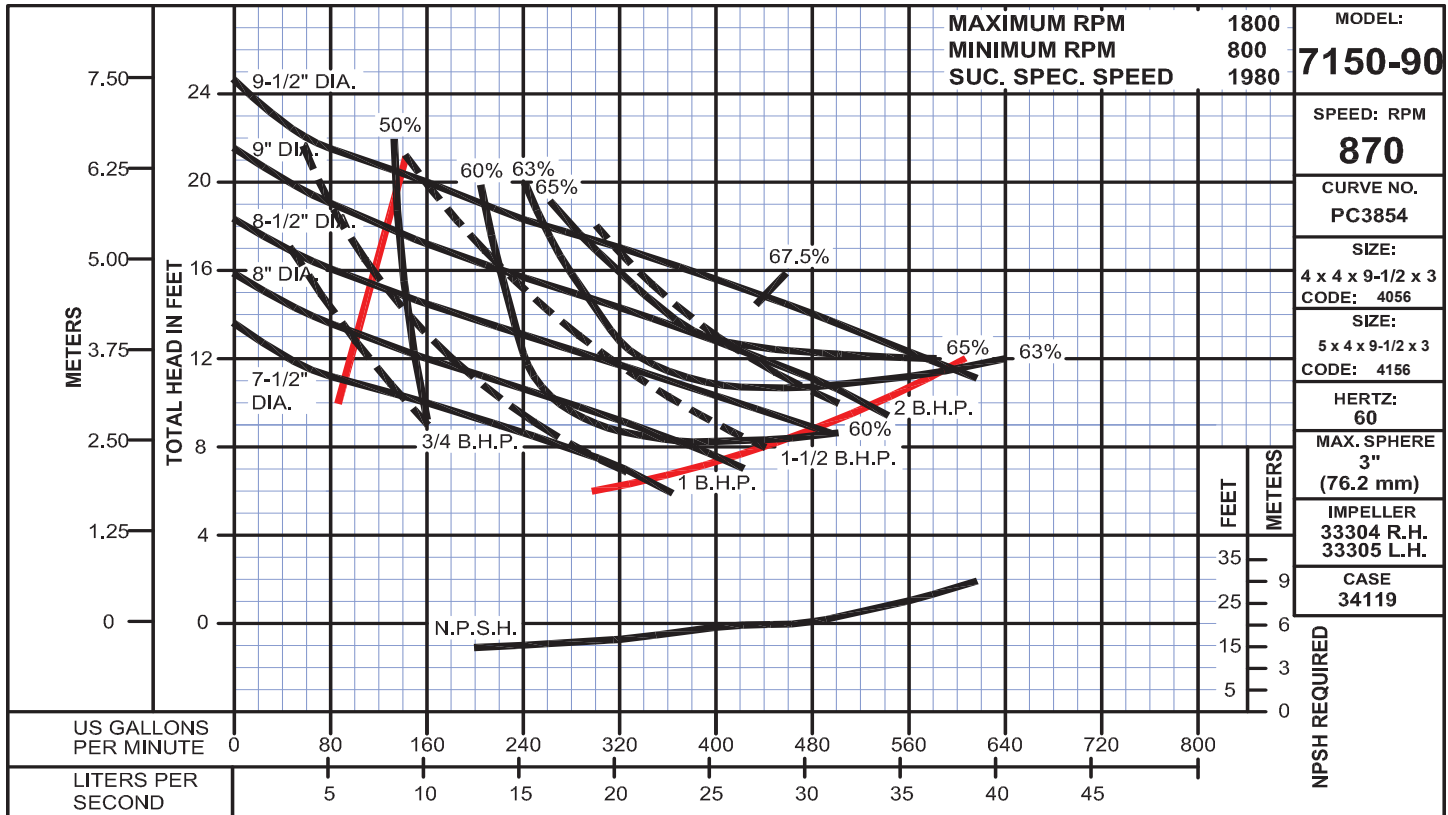


Fig. 7150-90

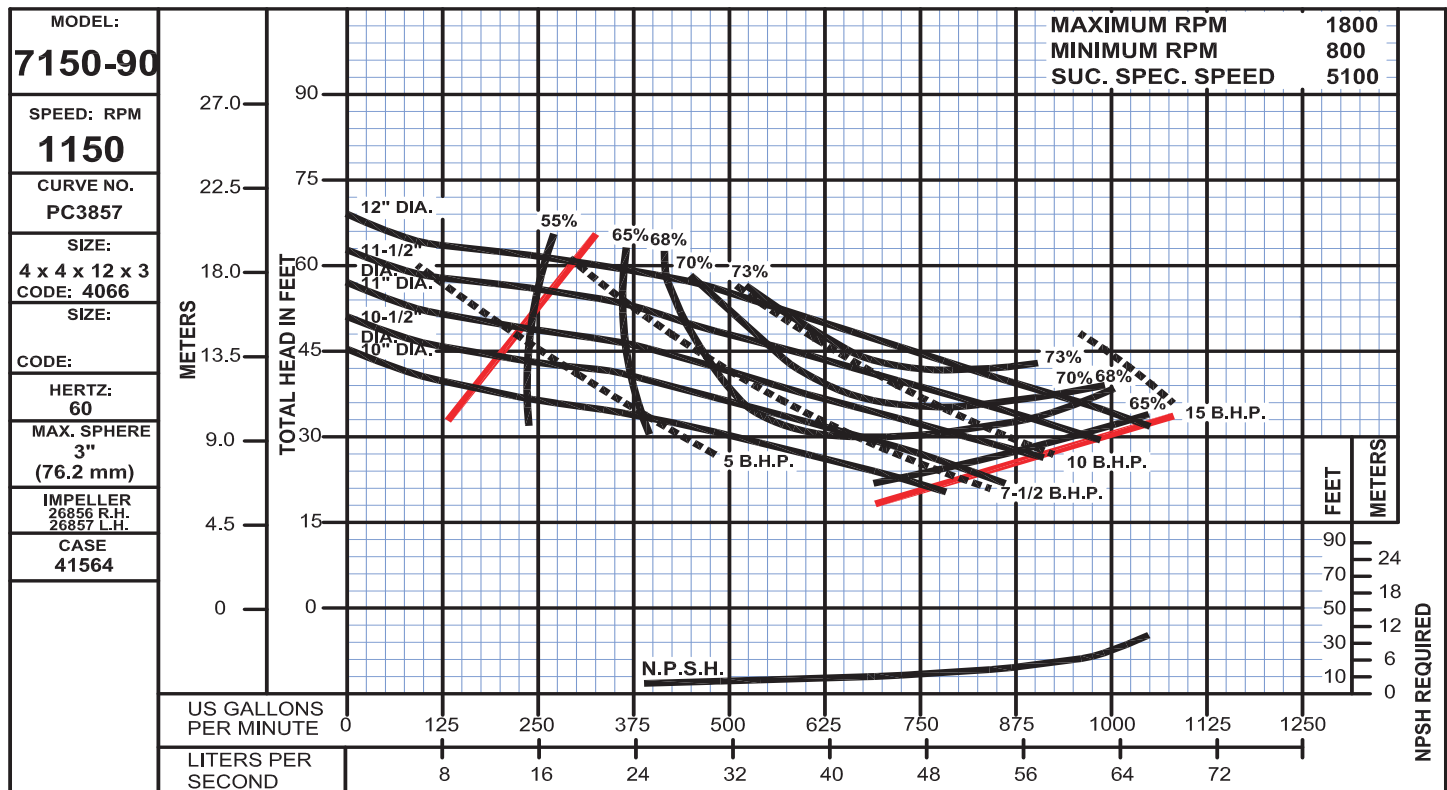
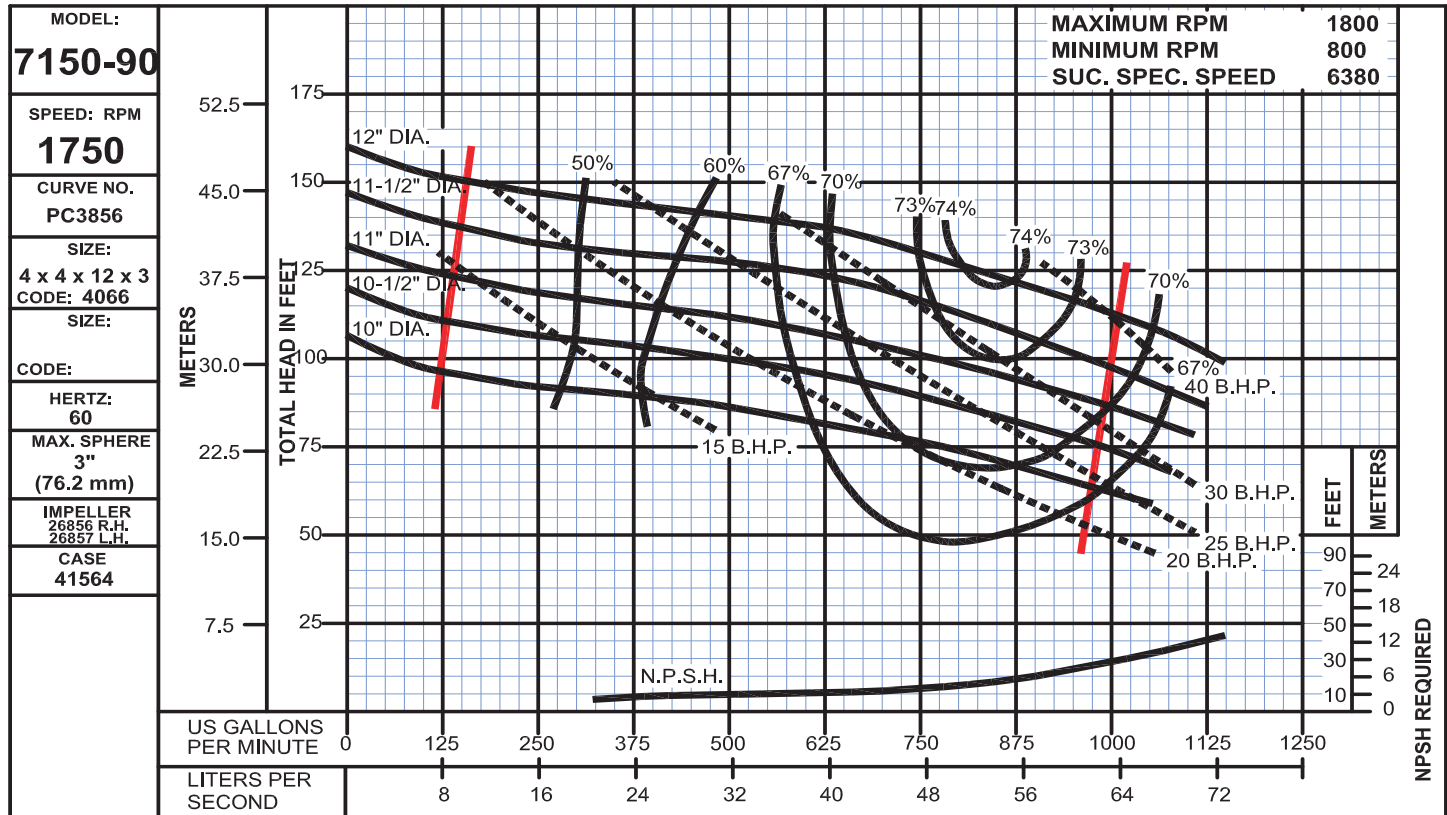
Sizes: 4 x 4 x 12 x 3, 1150 & 1750RPM

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SECTION 45-SS
PAGE 56
DATE 7/07

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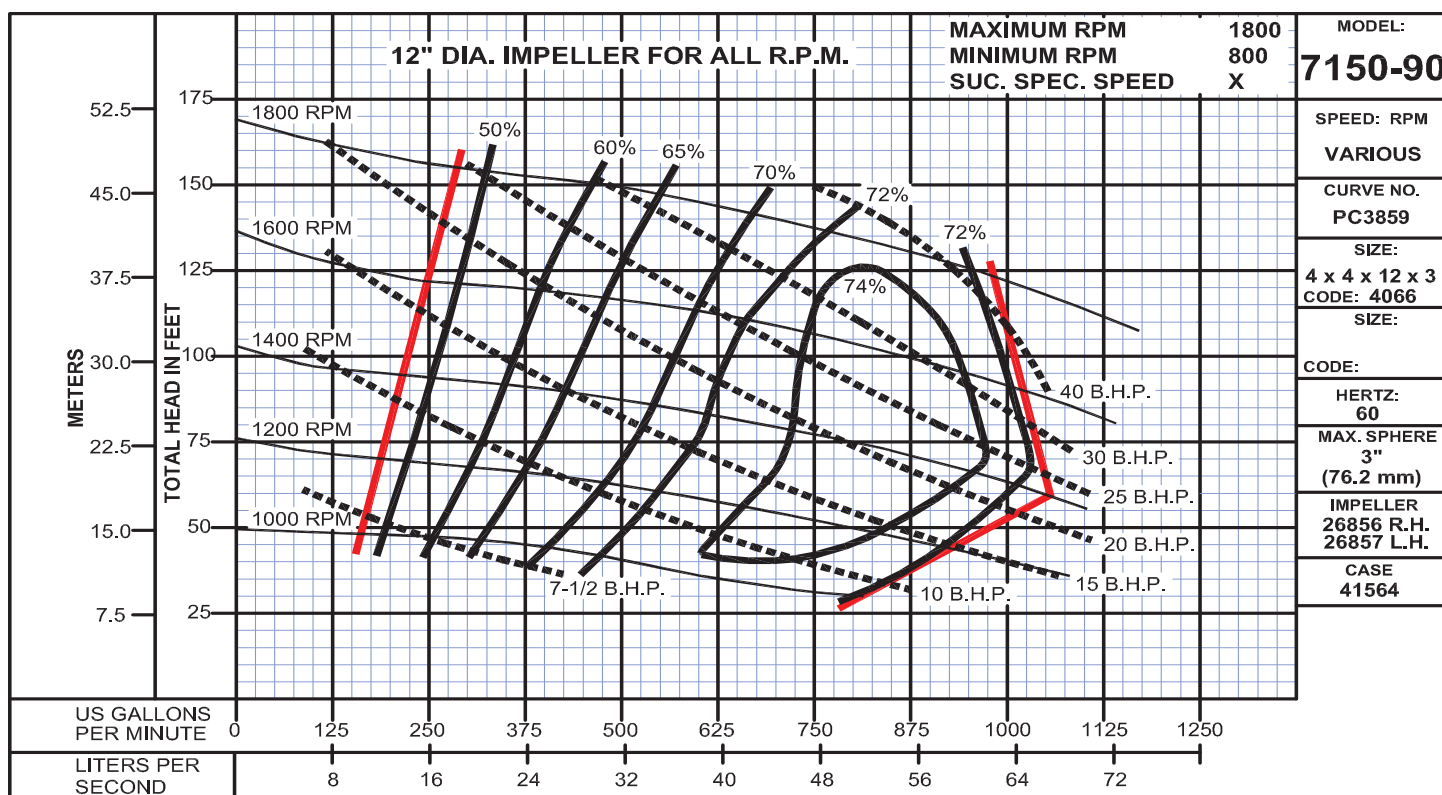
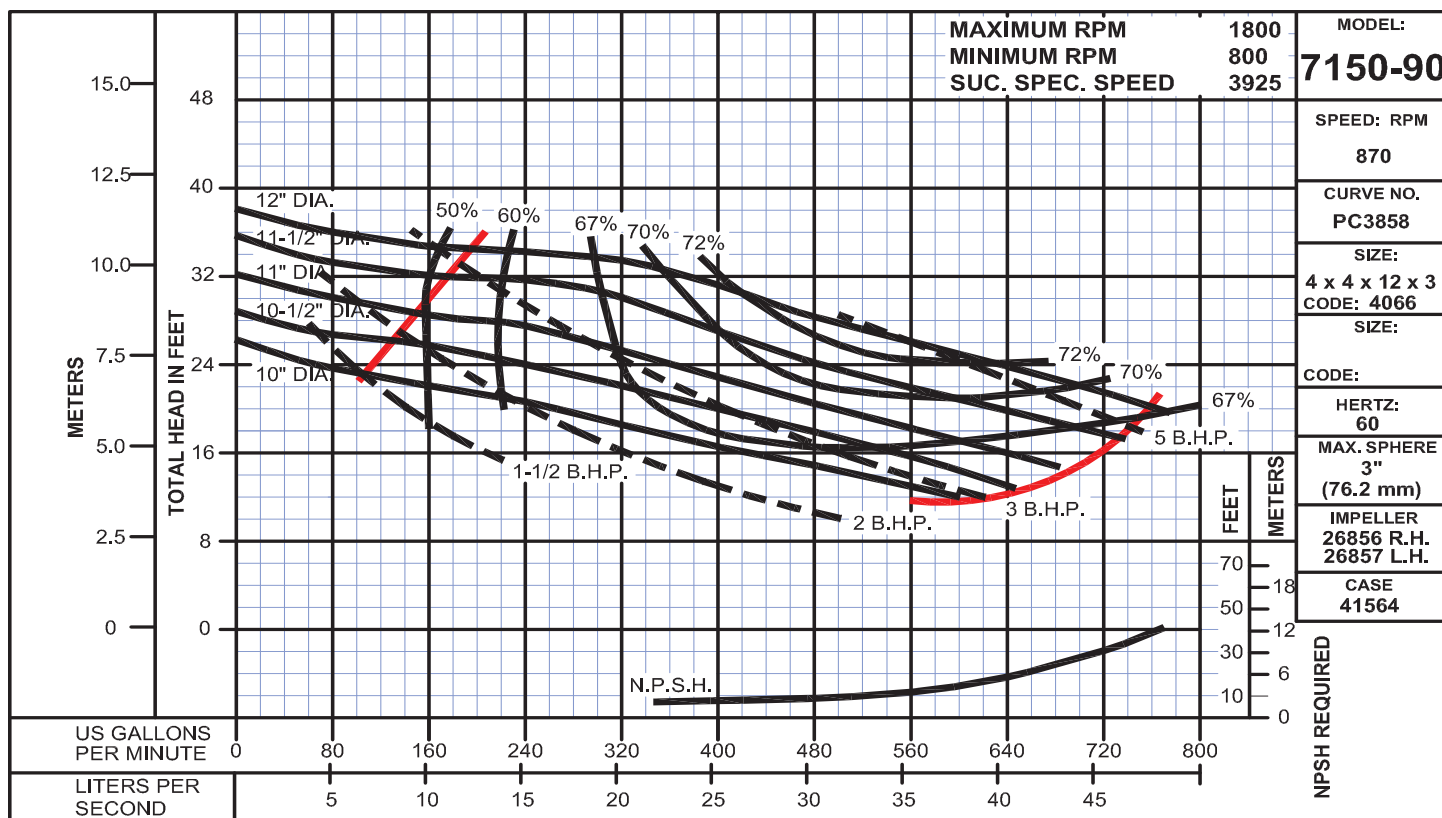


Fig. 7150-90

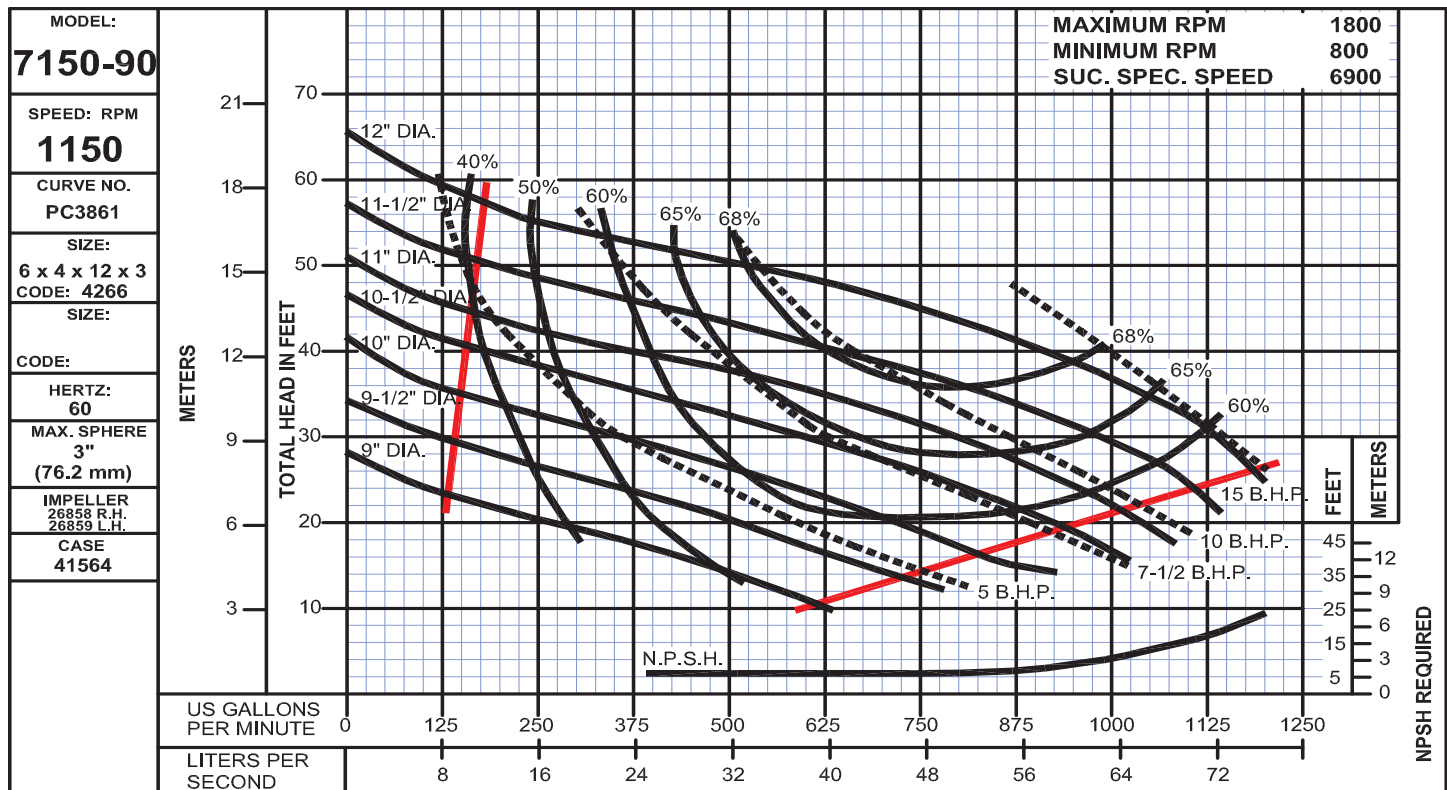
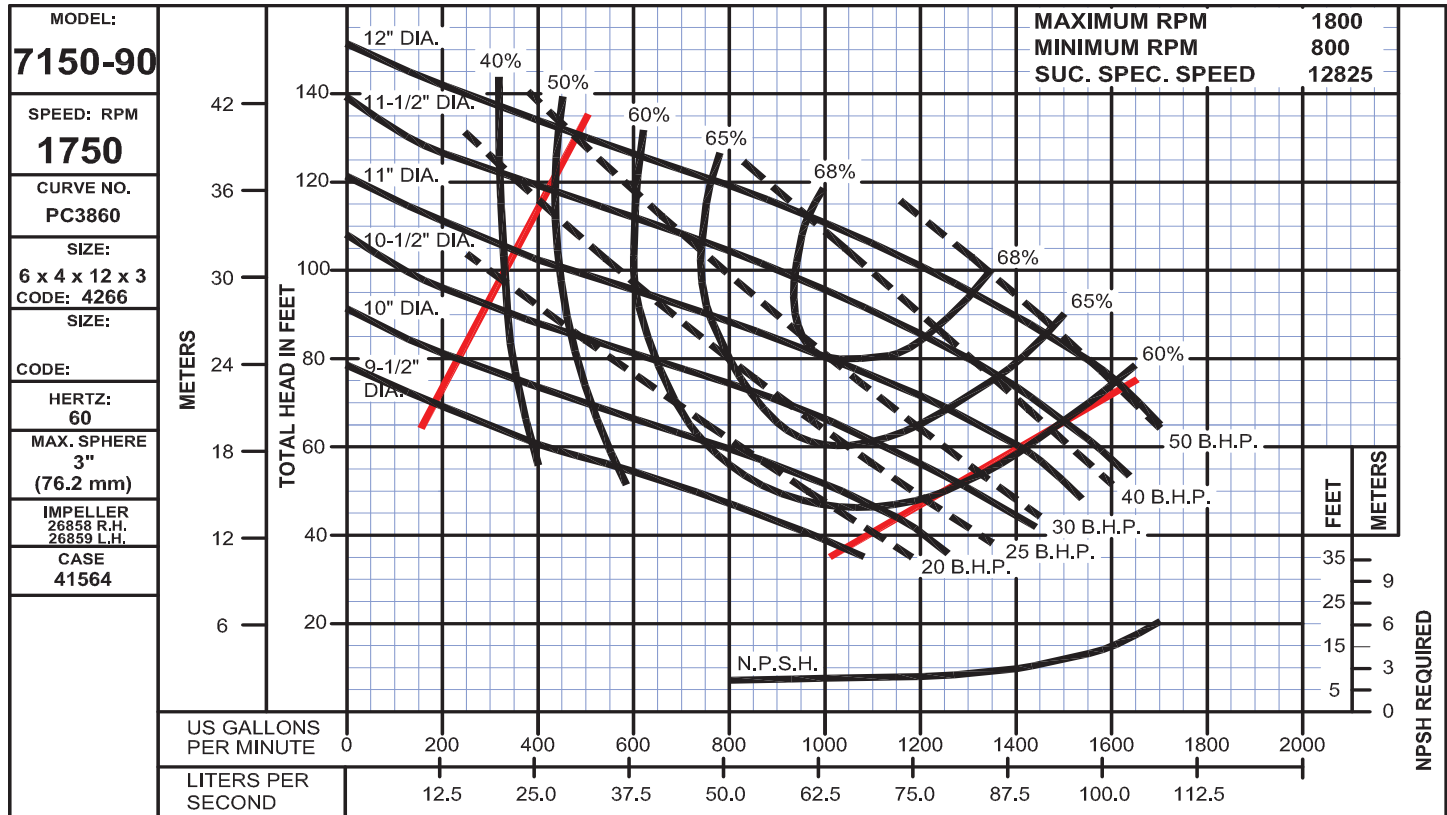
Sizes: 6 x 4 x 12 x 3, 1150 & 1750RPM

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SECTION 45-SS
PAGE 58
DATE 7/07

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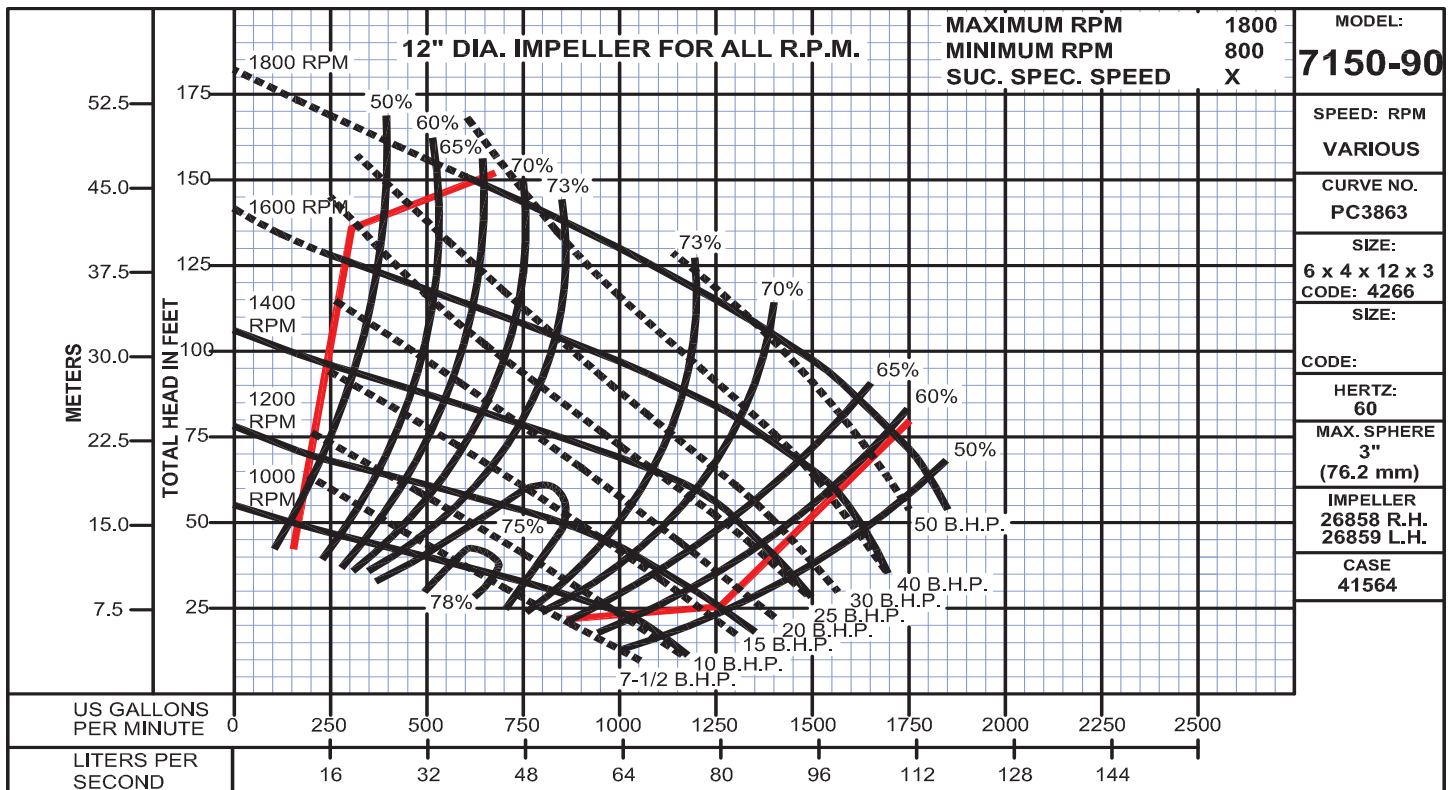
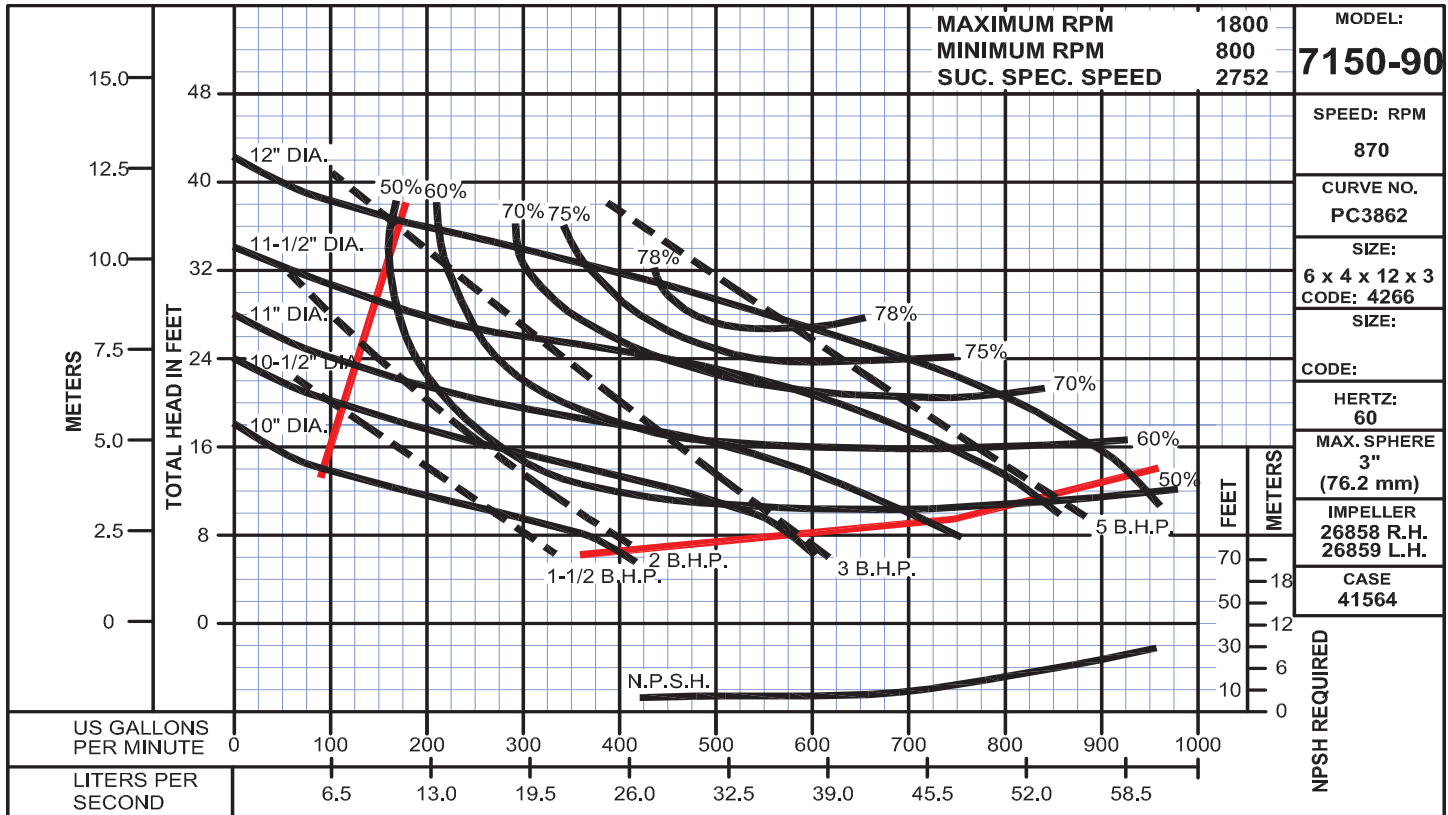


Fig. 7150-90

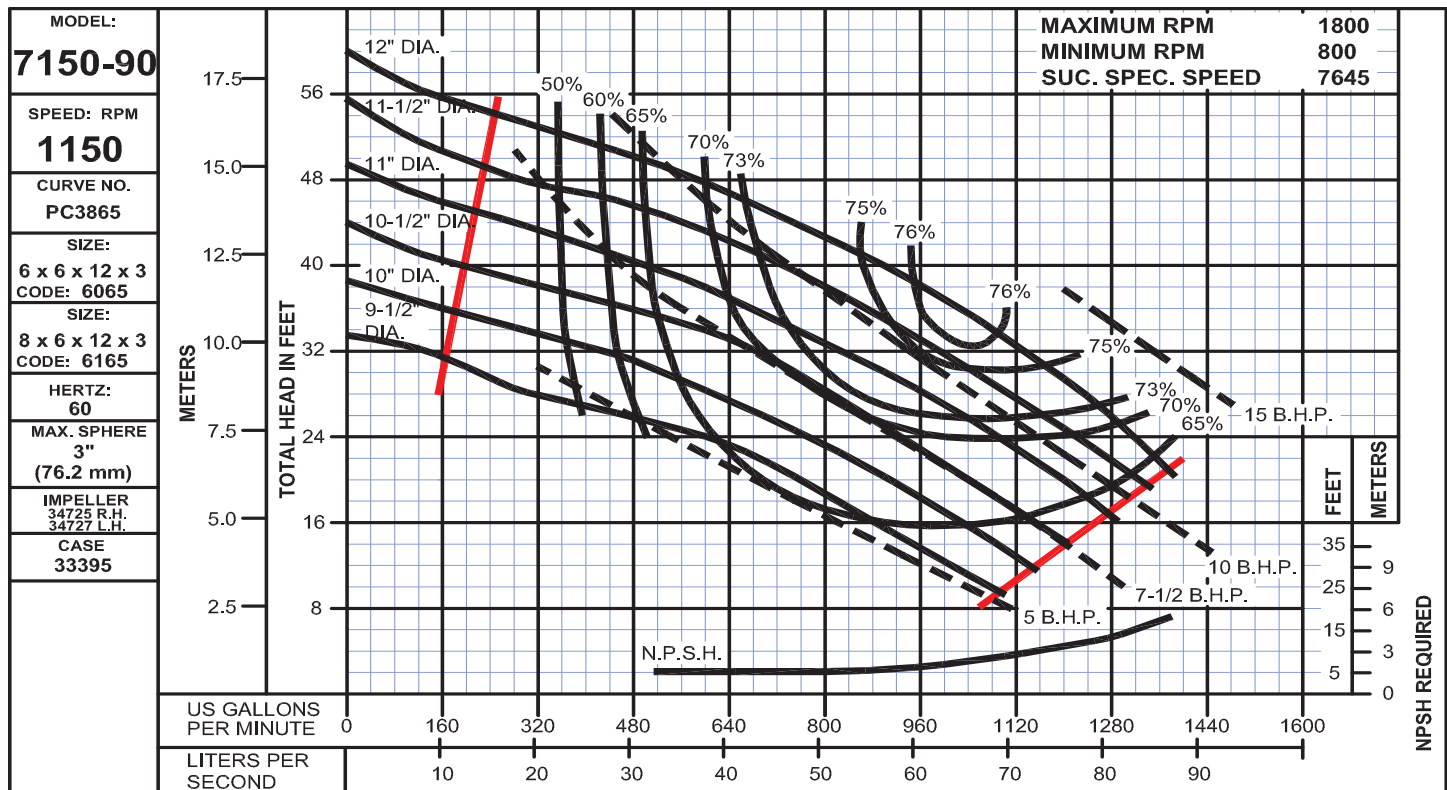
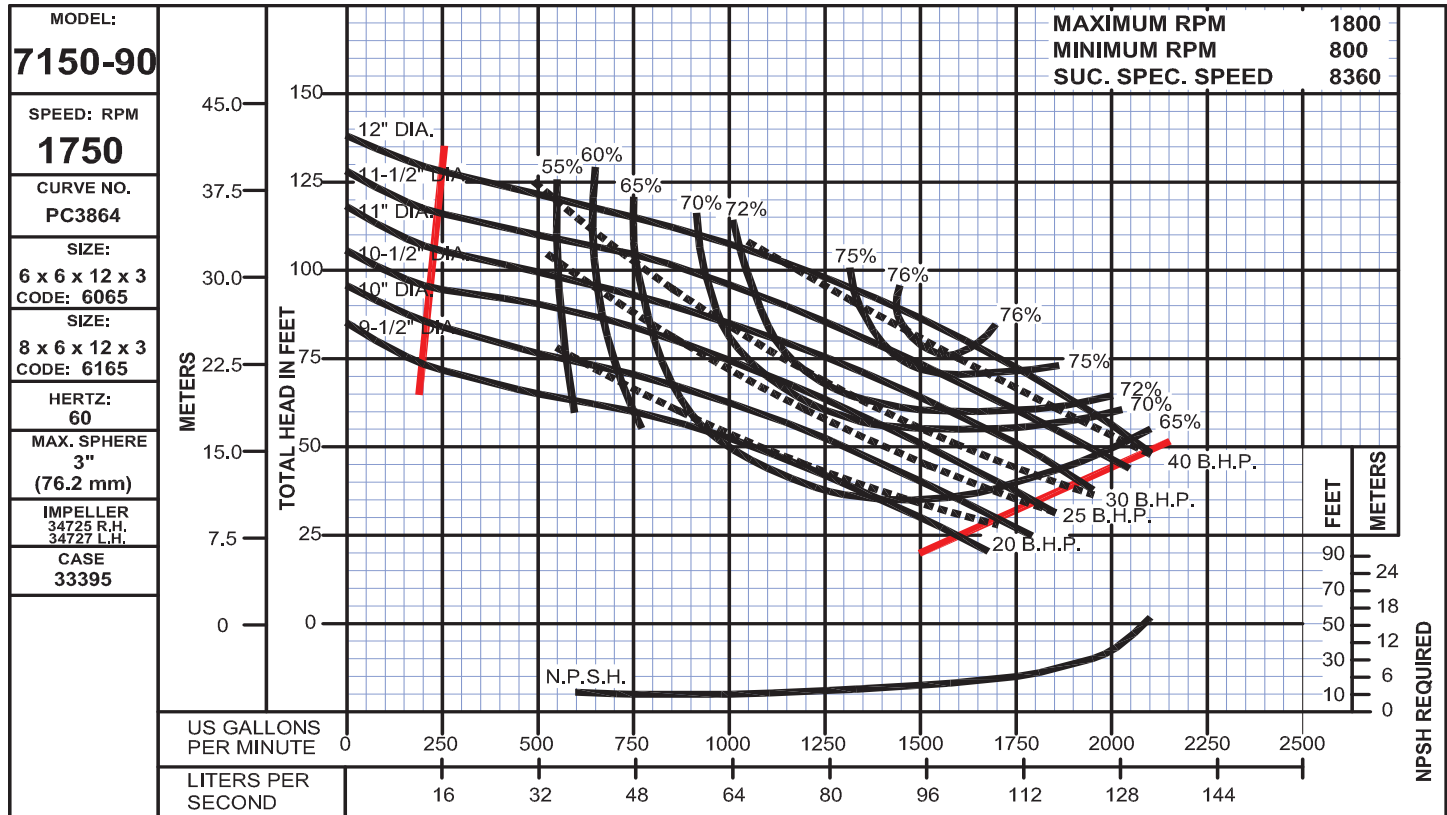
Sizes: 6 x 6 x 12 x 3, 1150 & 1750RPM

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SECTION 45-SS
 PAGE 60
 DATE 7/07

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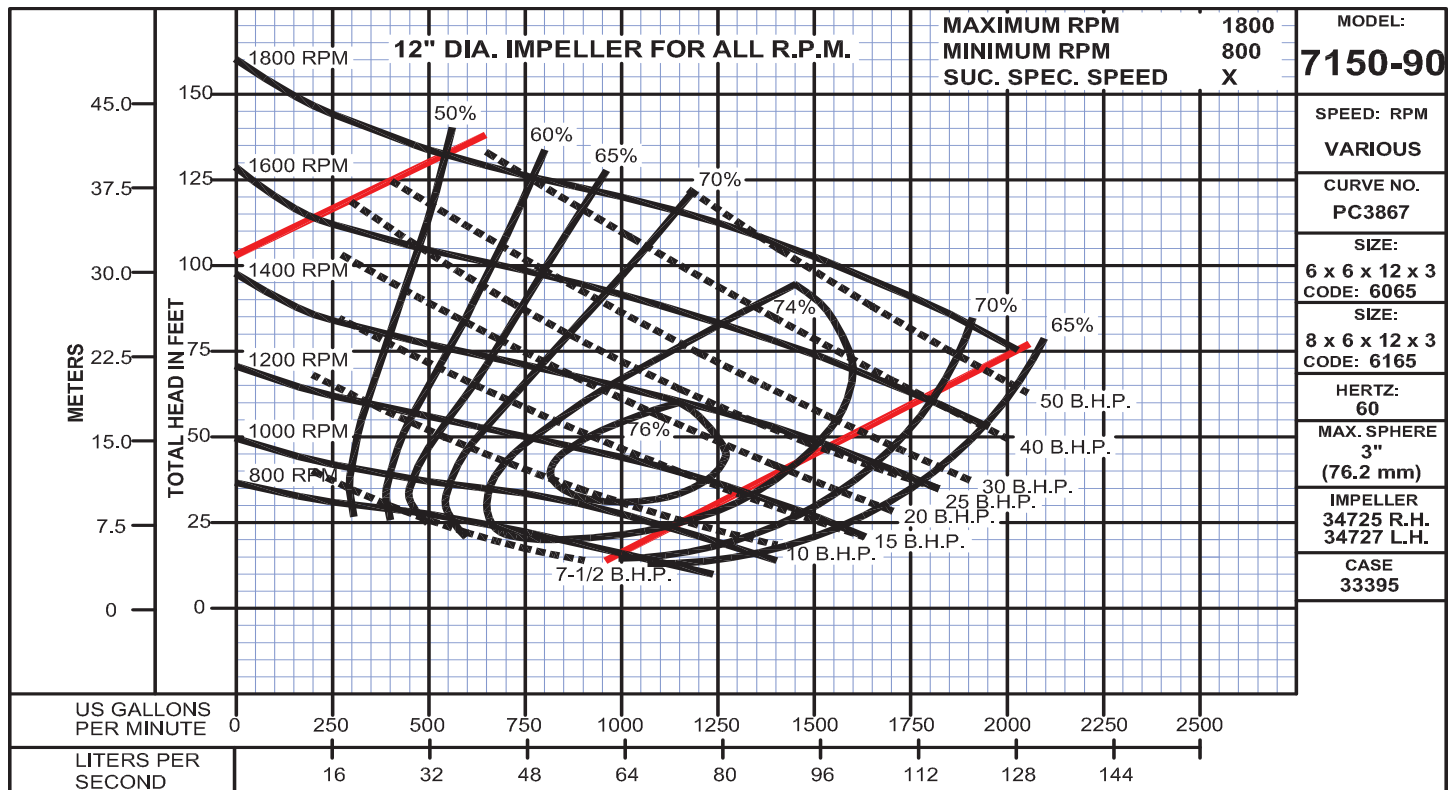
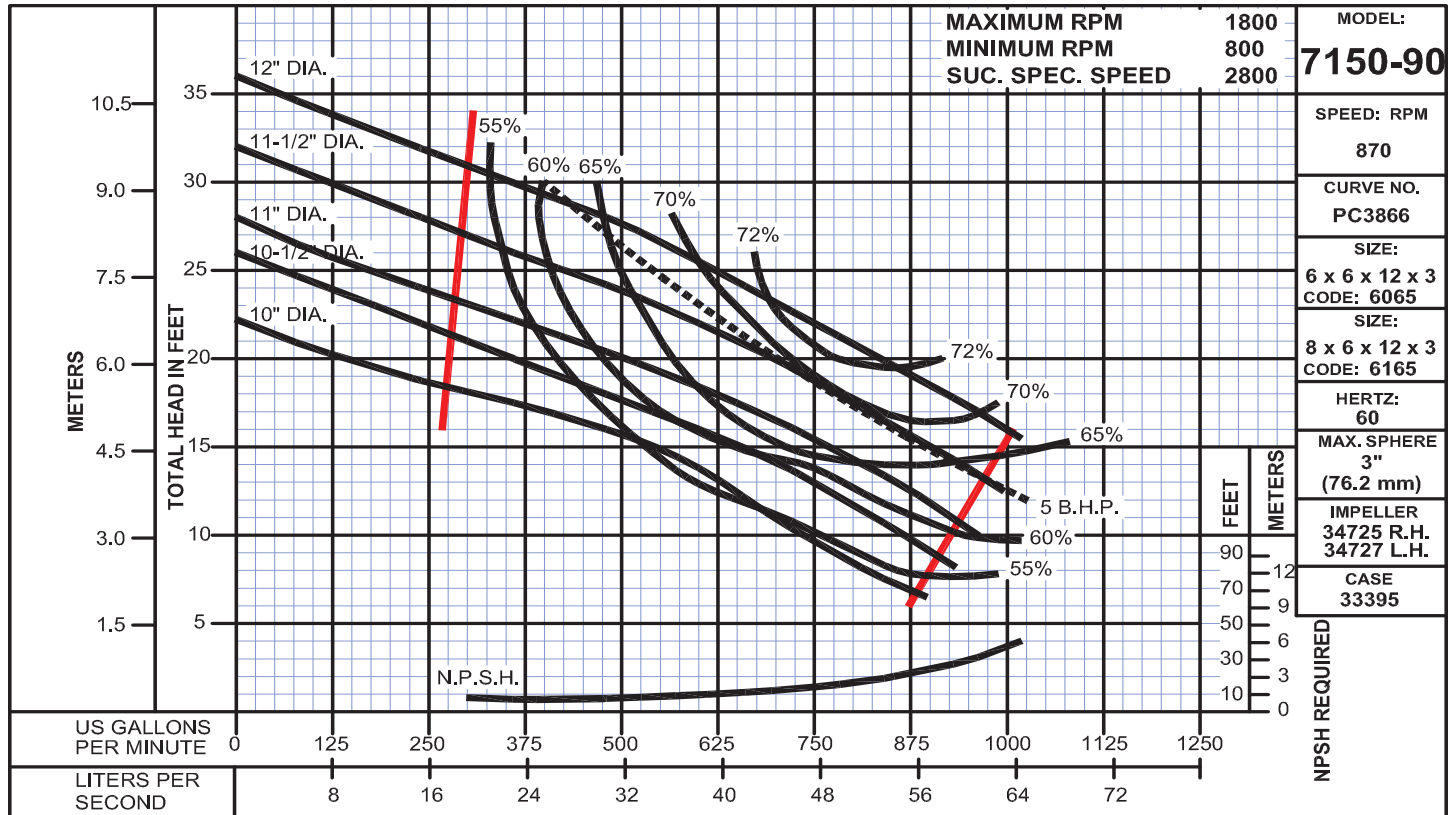


Fig. 7150-90

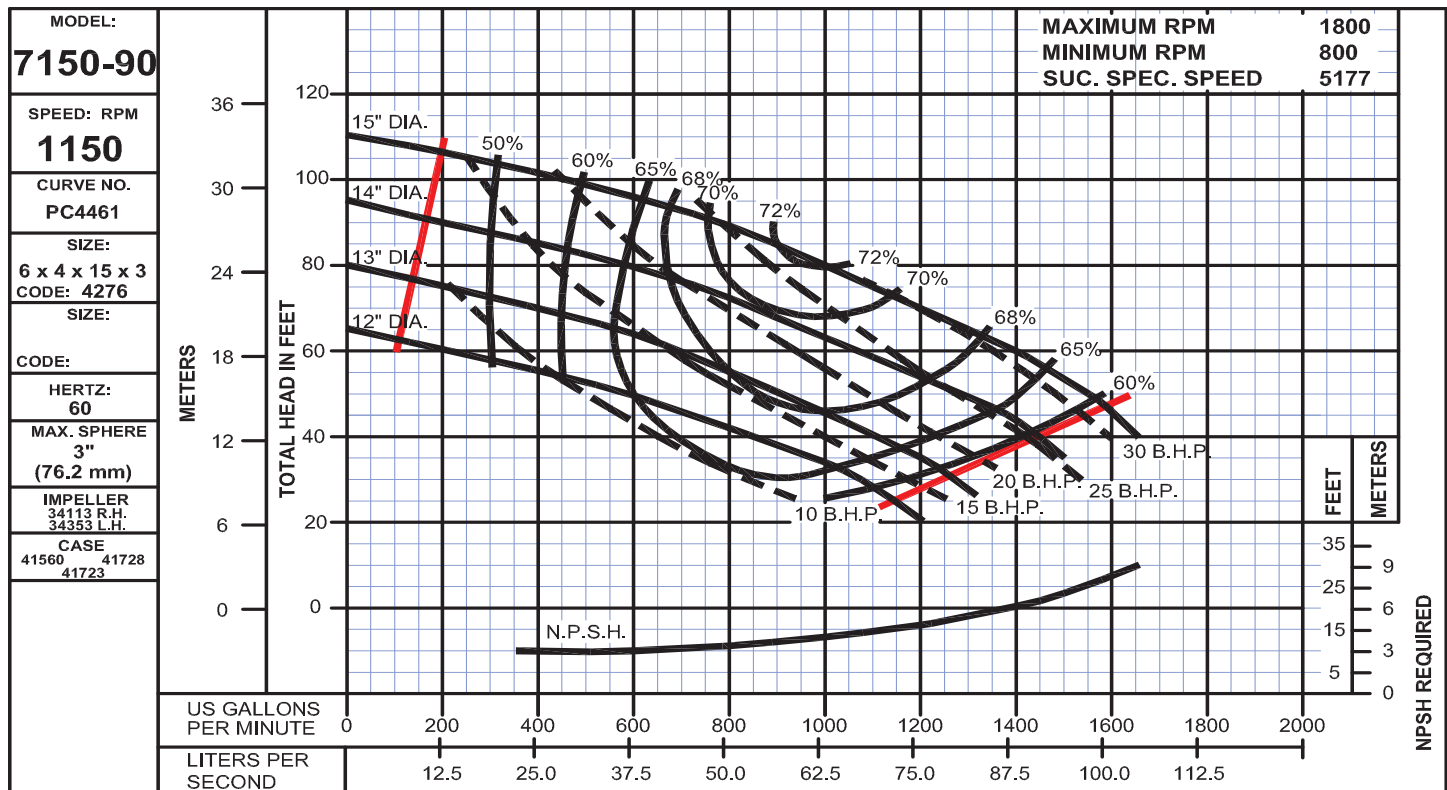
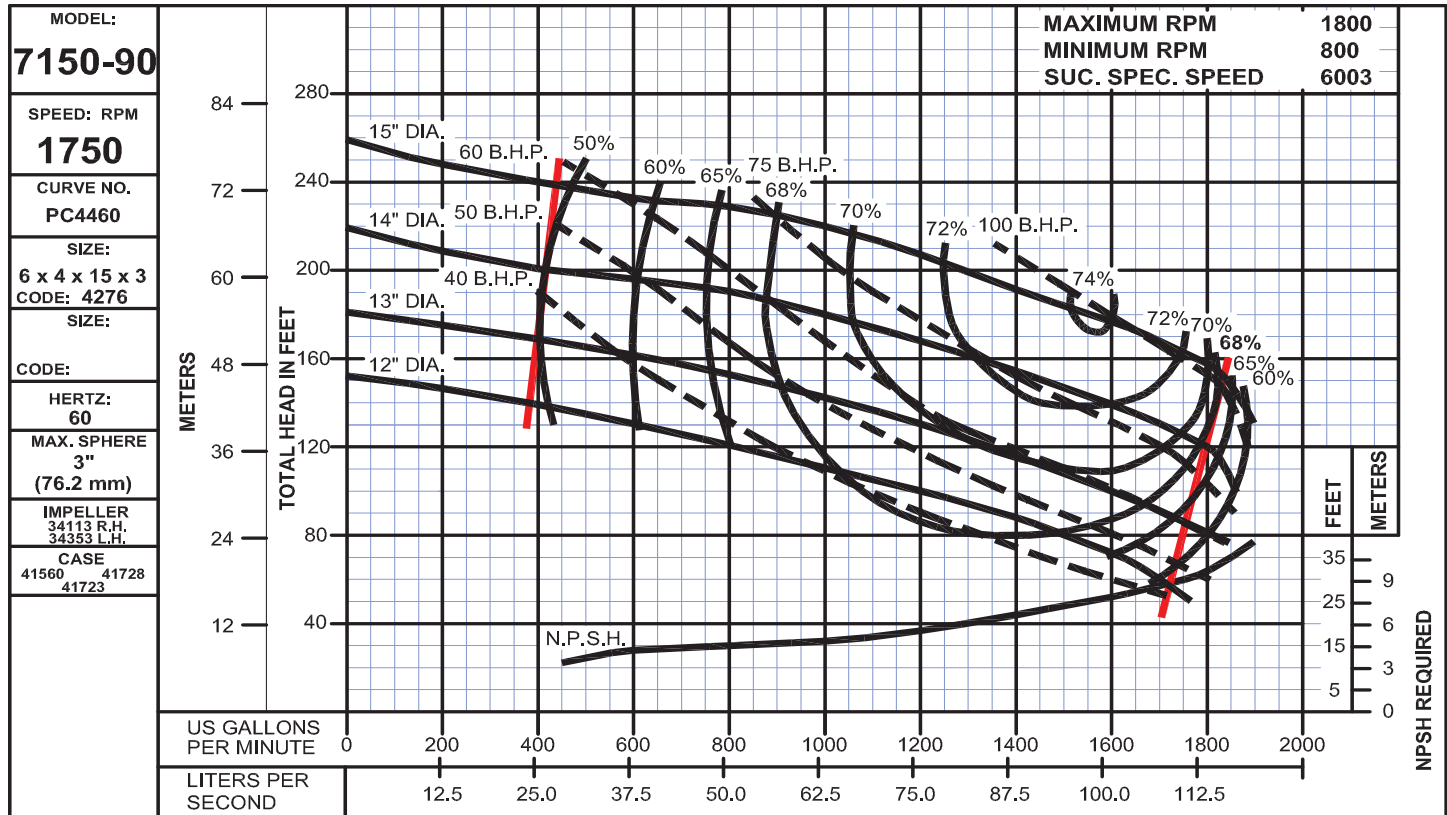
Sizes: 6 x 4 x 15 x 3, 1150 & 1750RPM

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SECTION 45-SS
PAGE 62
DATE 7/07

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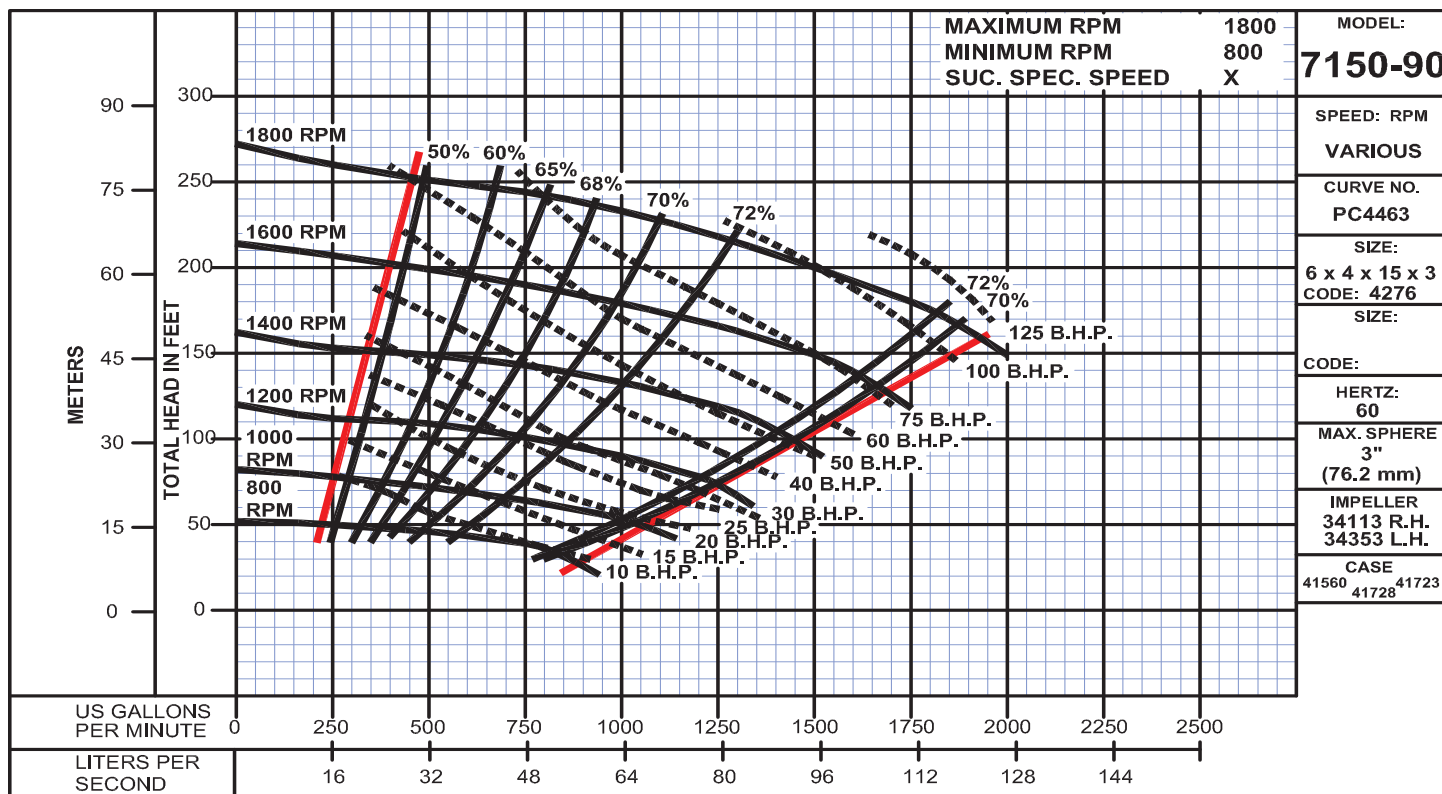
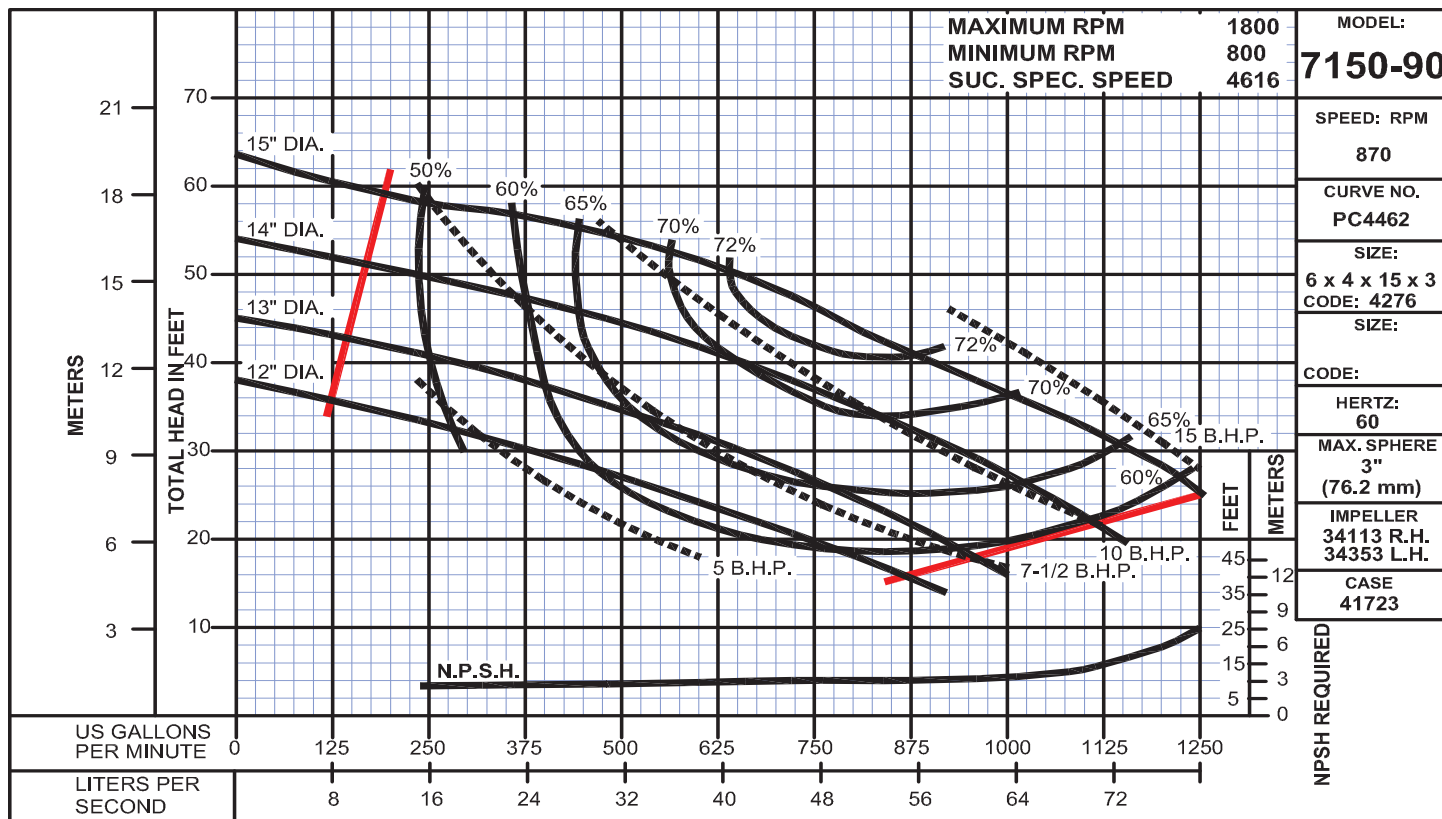


Fig. 7150-90

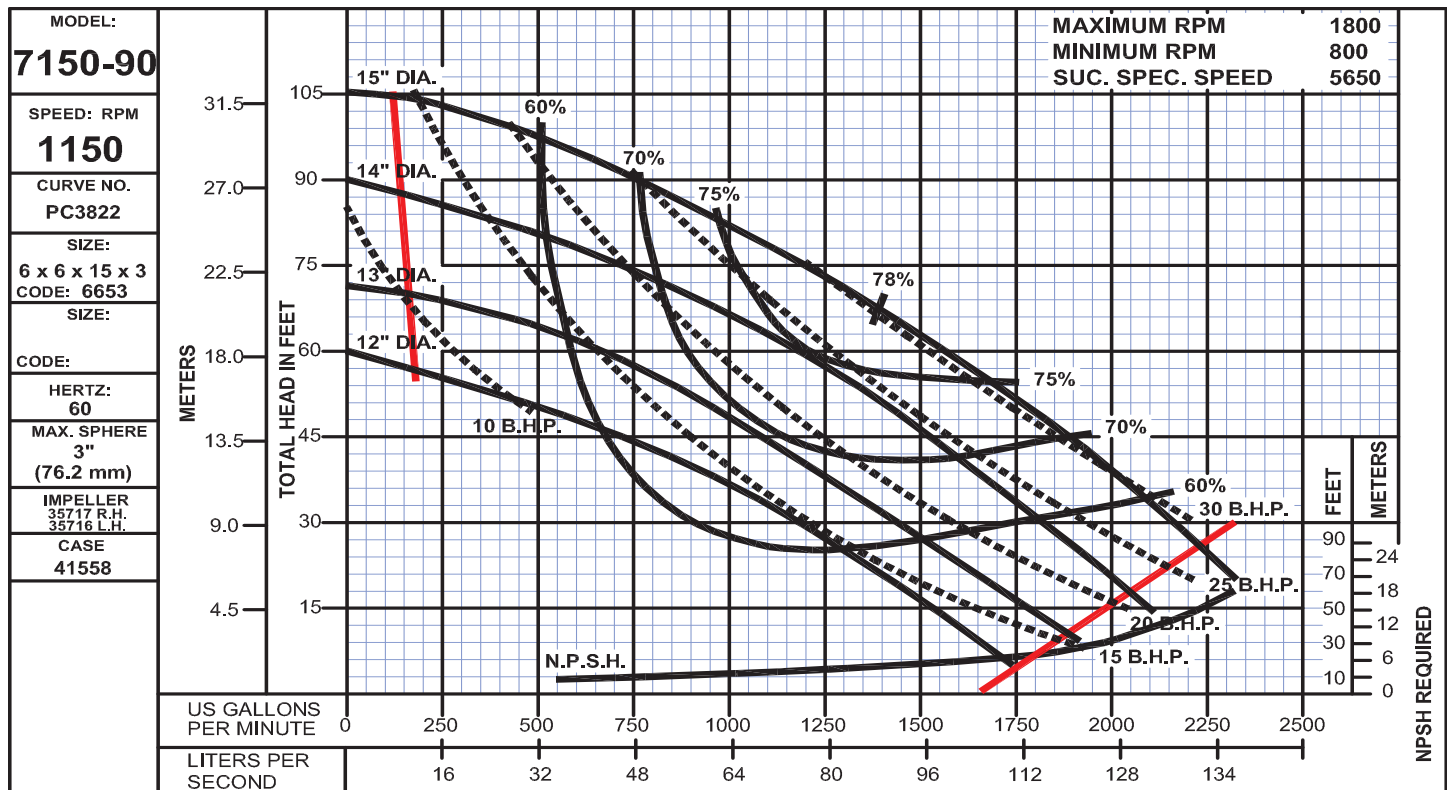
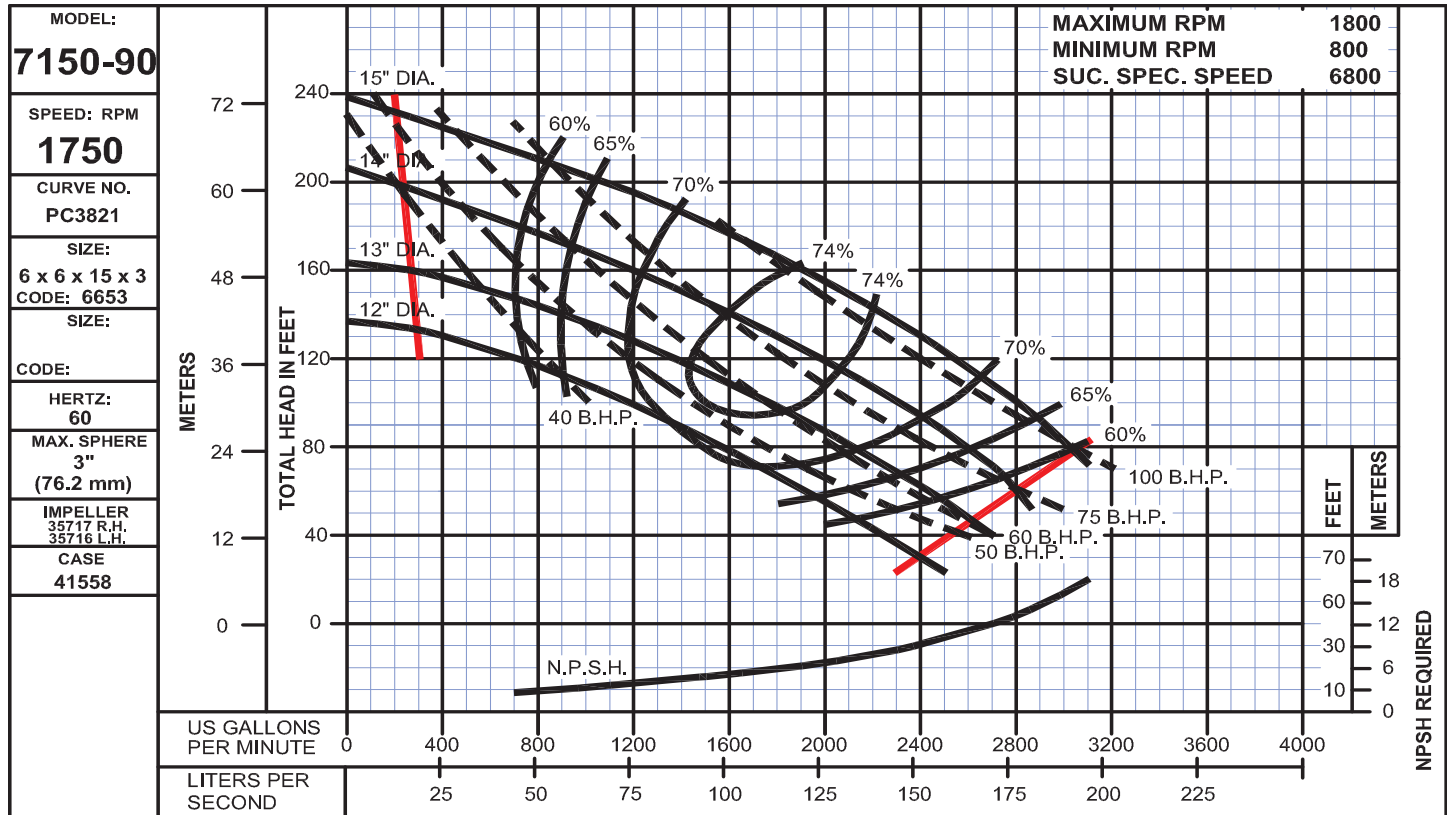
Sizes: 6 x 6 x 15 x 3, 1150 & 1750RPM

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SECTION 45-SS
PAGE 64
DATE 7/07

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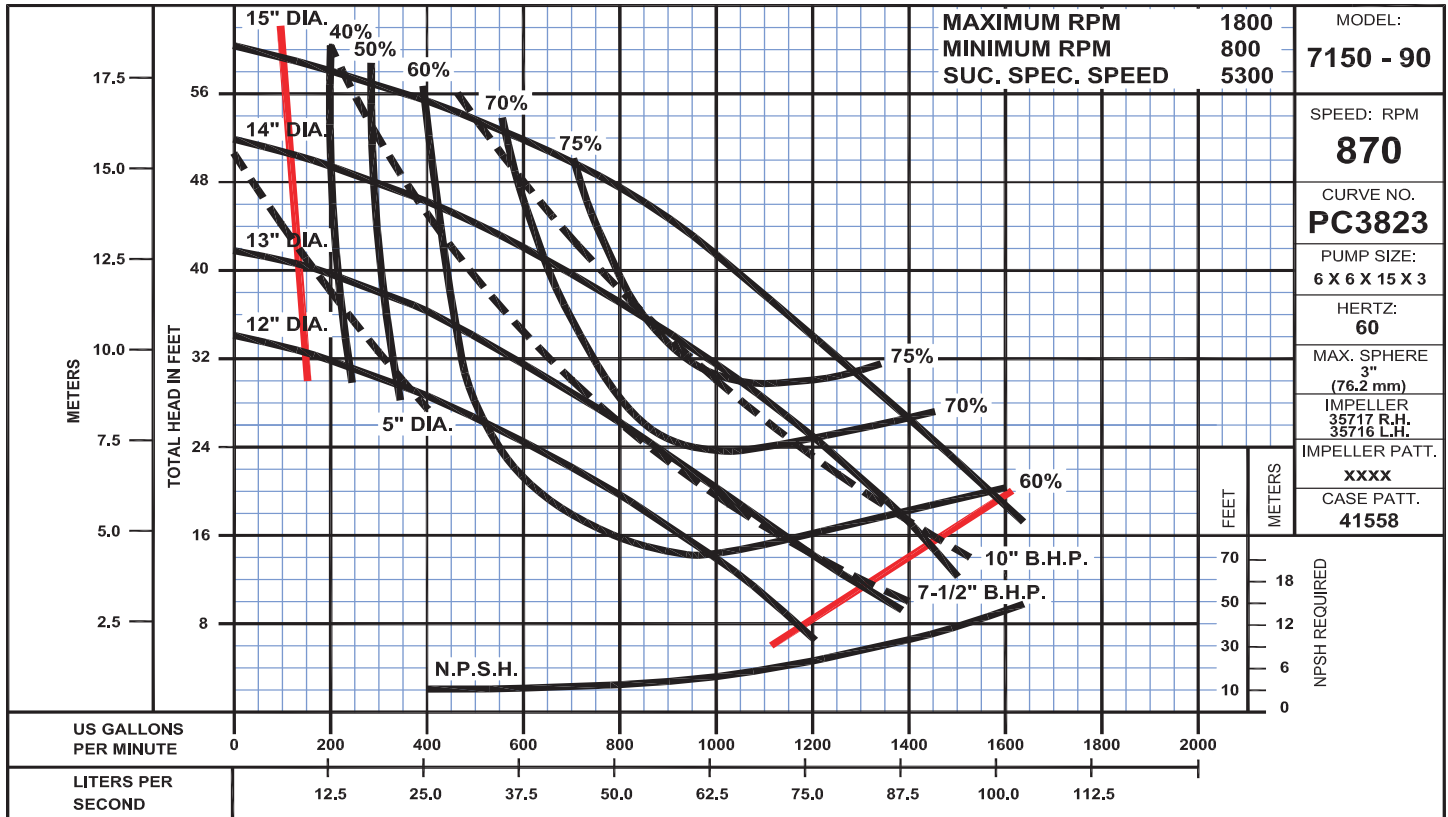


Fig. 7150H-90H

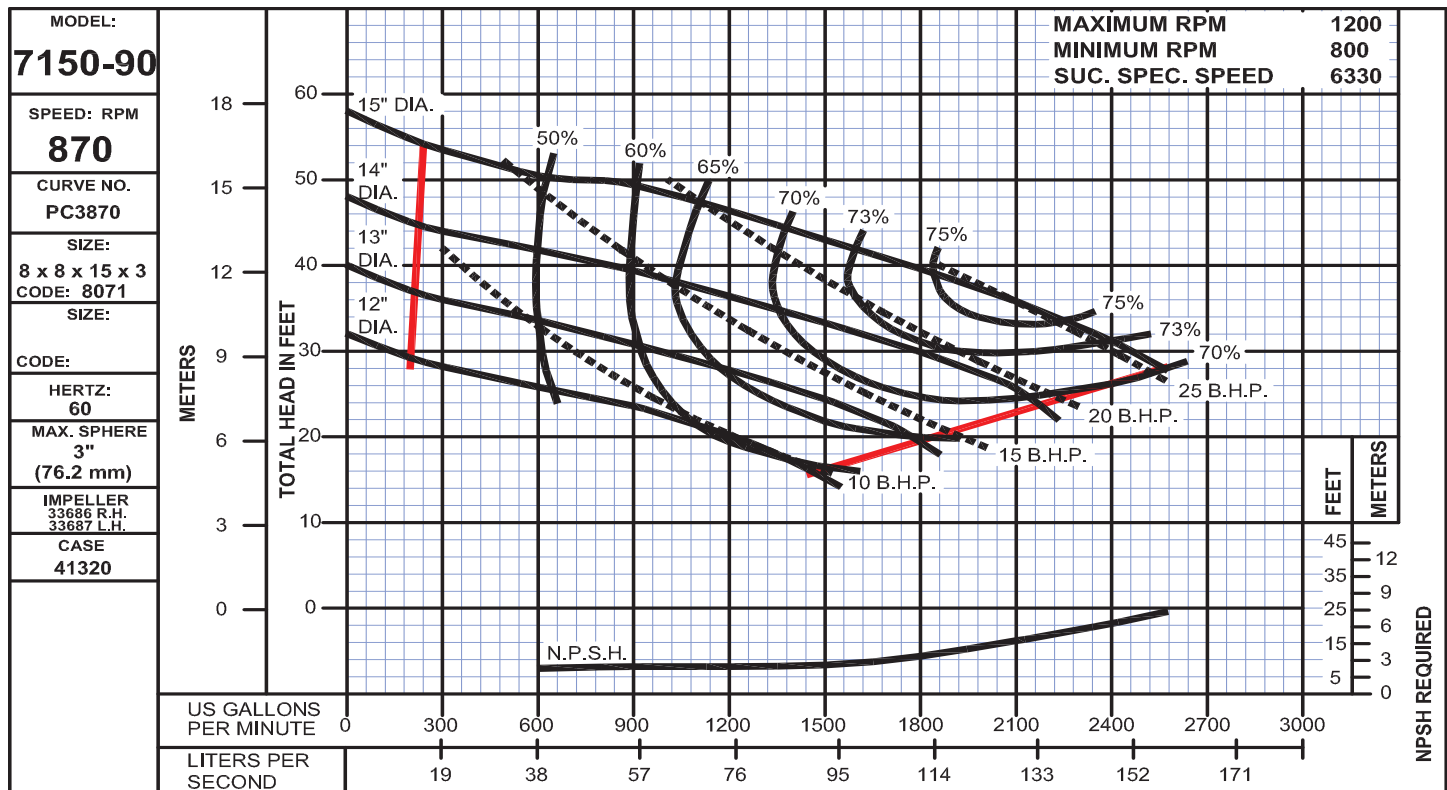
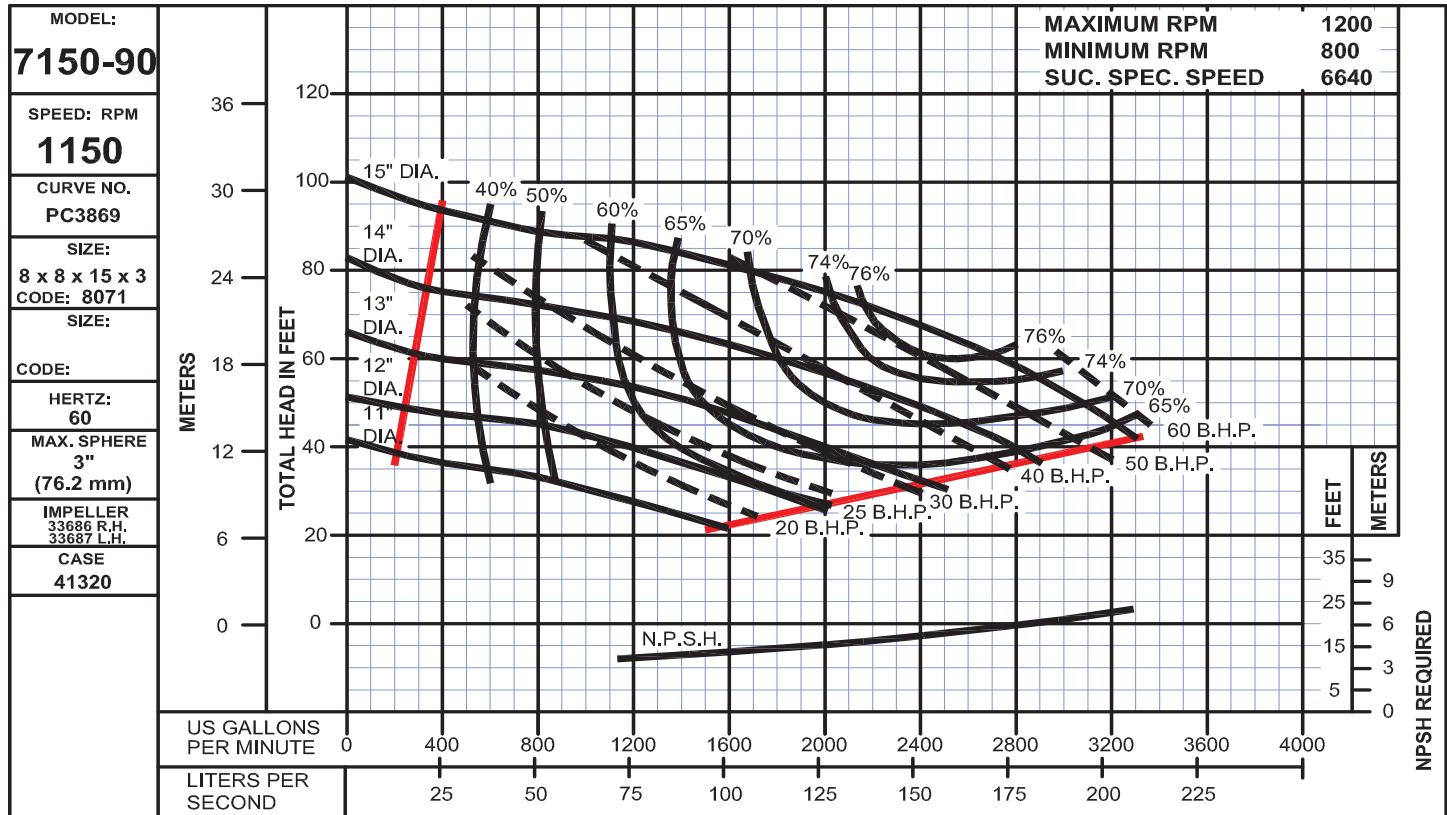
Sizes: 8 x 8 x 15 x 3, 870 & 1150RPM

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SECTION 45-SS
PAGE 66
DATE 7/07

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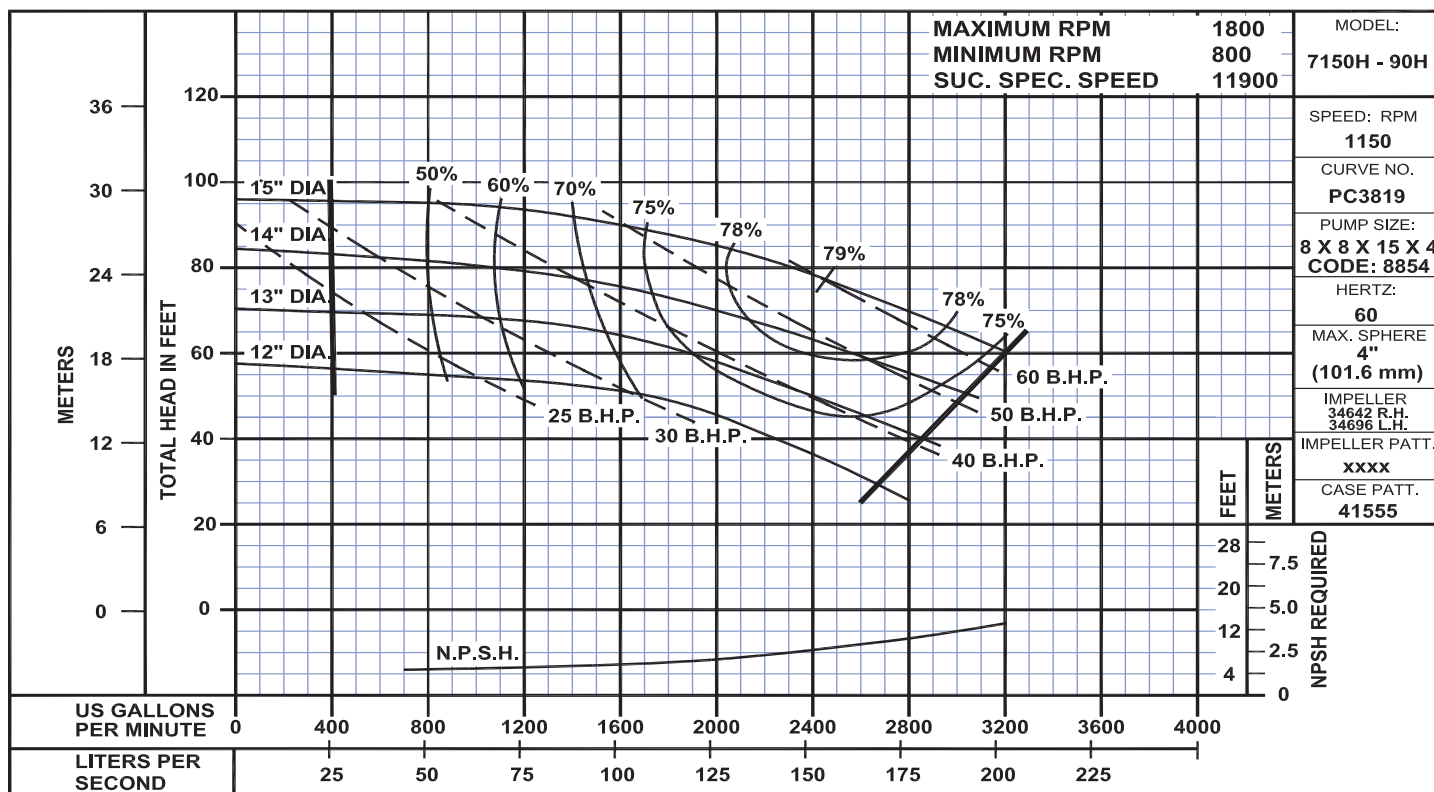
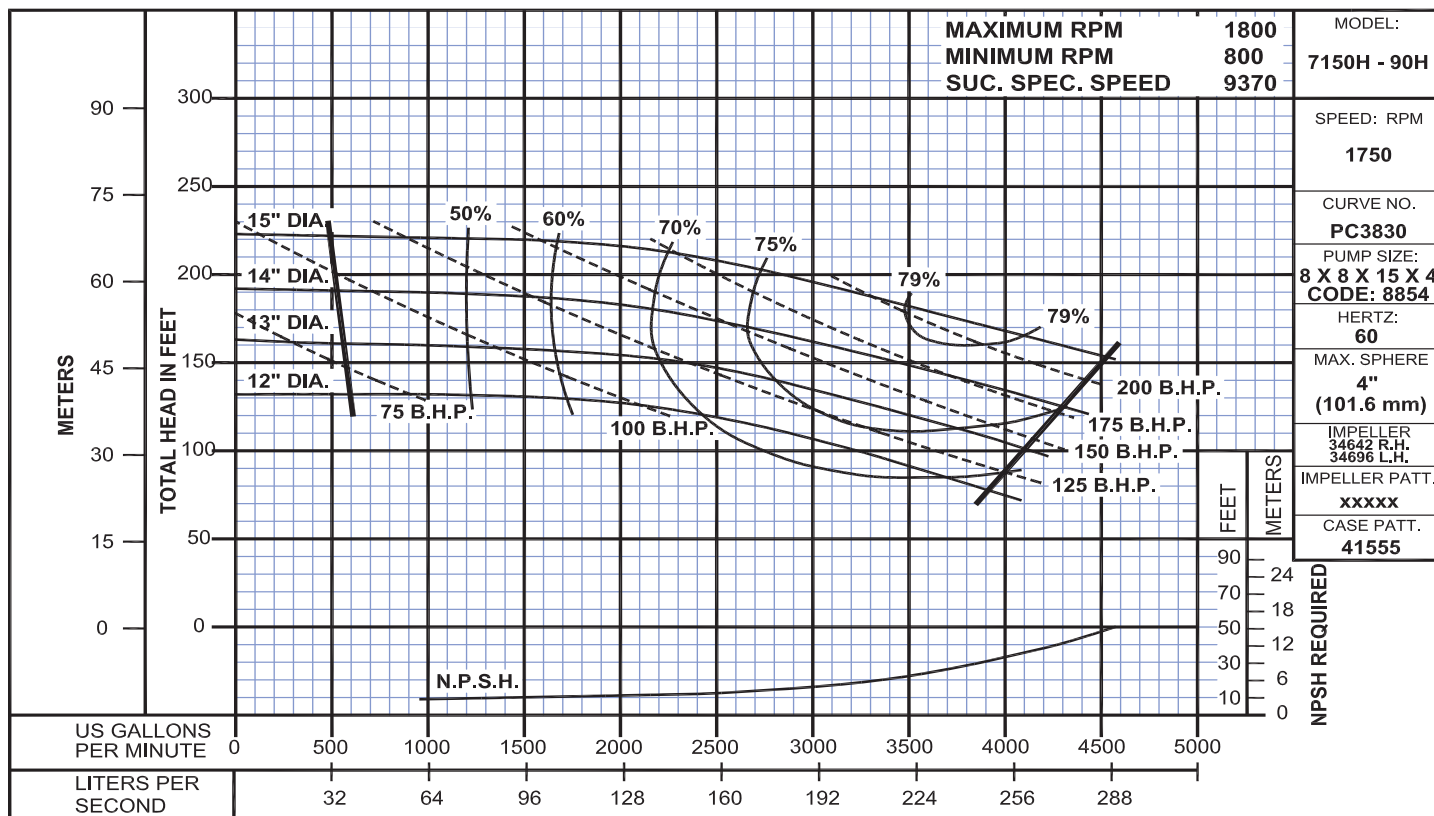


Fig. 7150-90

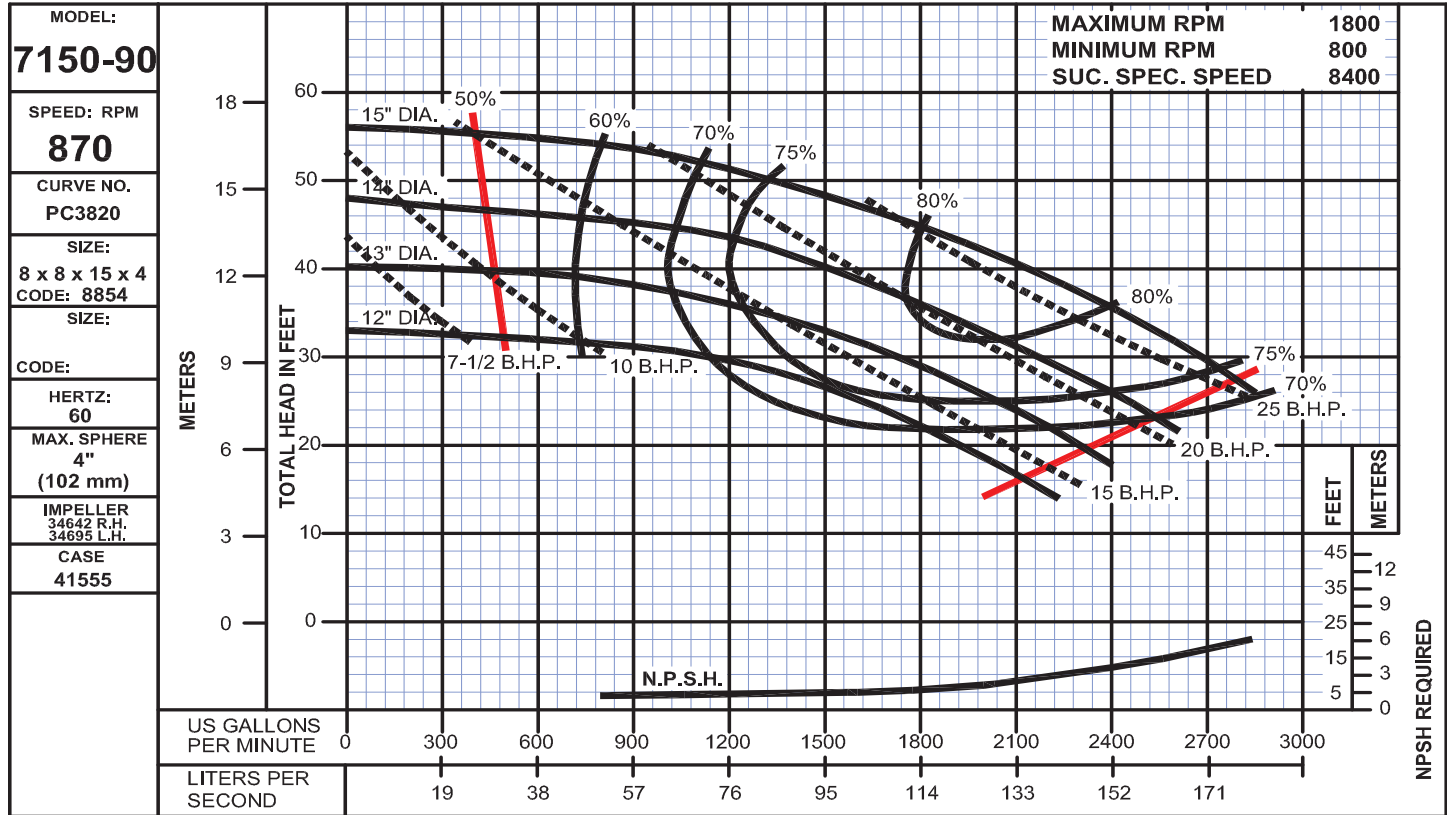
Sizes: 8 x 8 x 15 x 4, 870RPM

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SECTION 45-SS
PAGE 68
DATE 7/07

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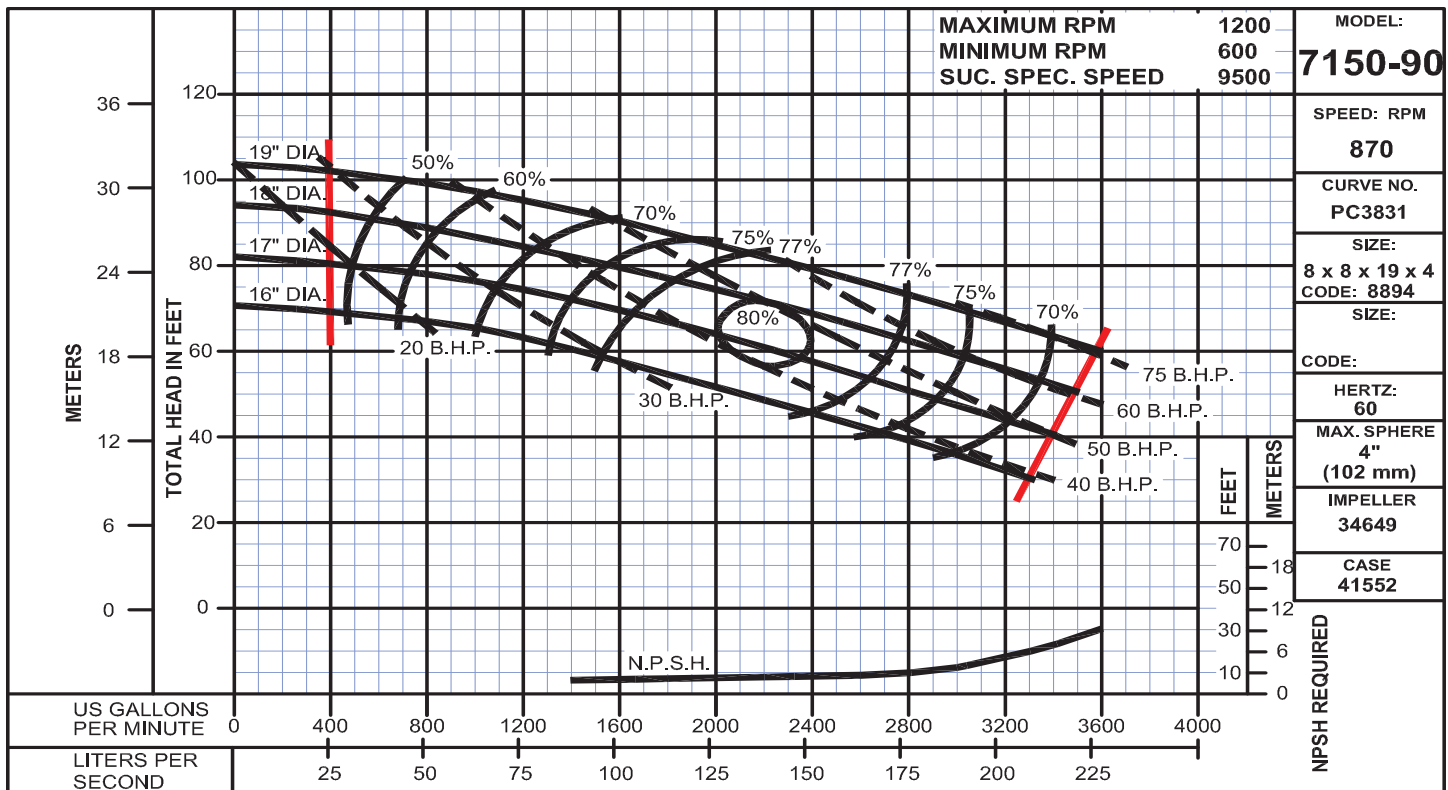
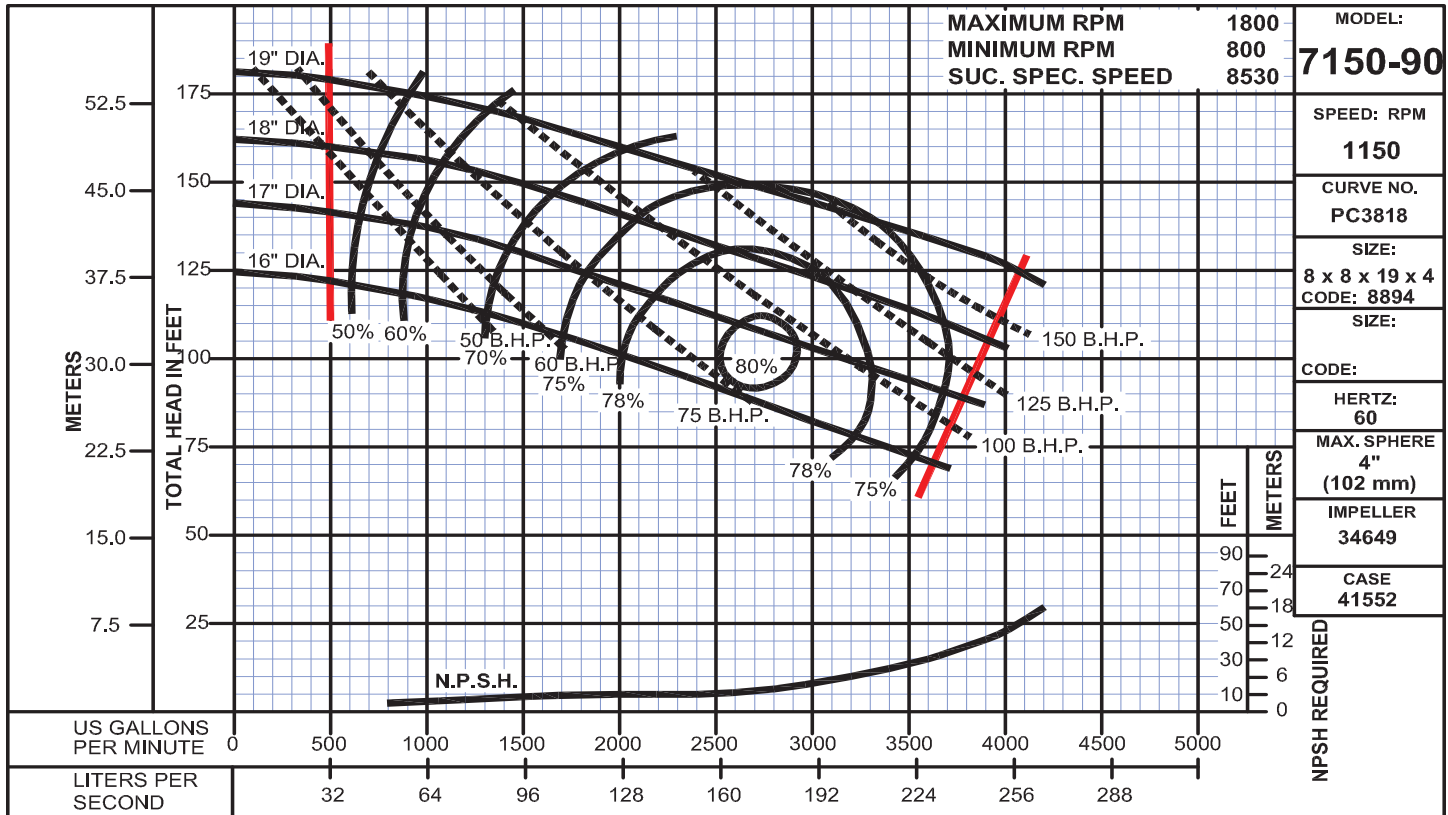


Fig. 7150-90

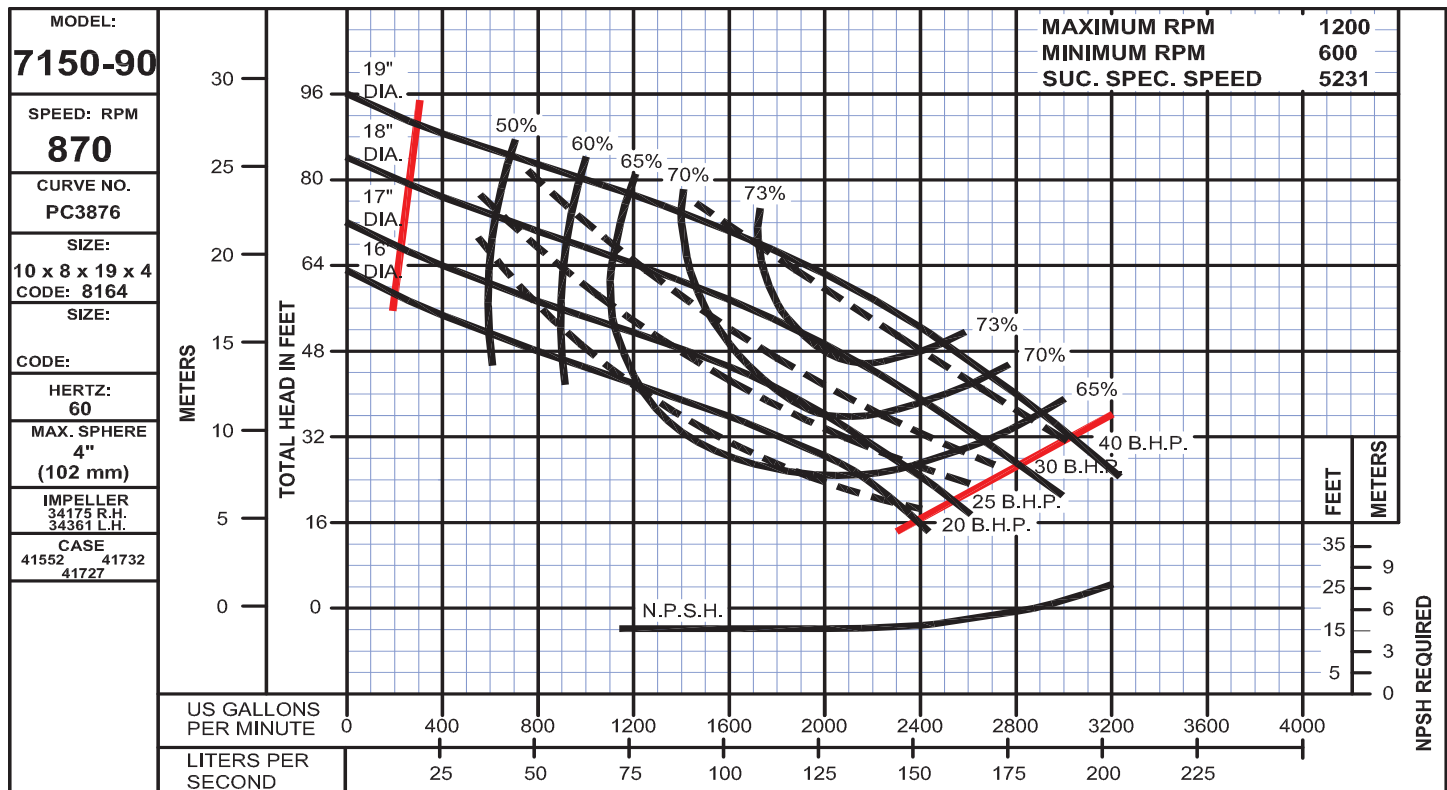
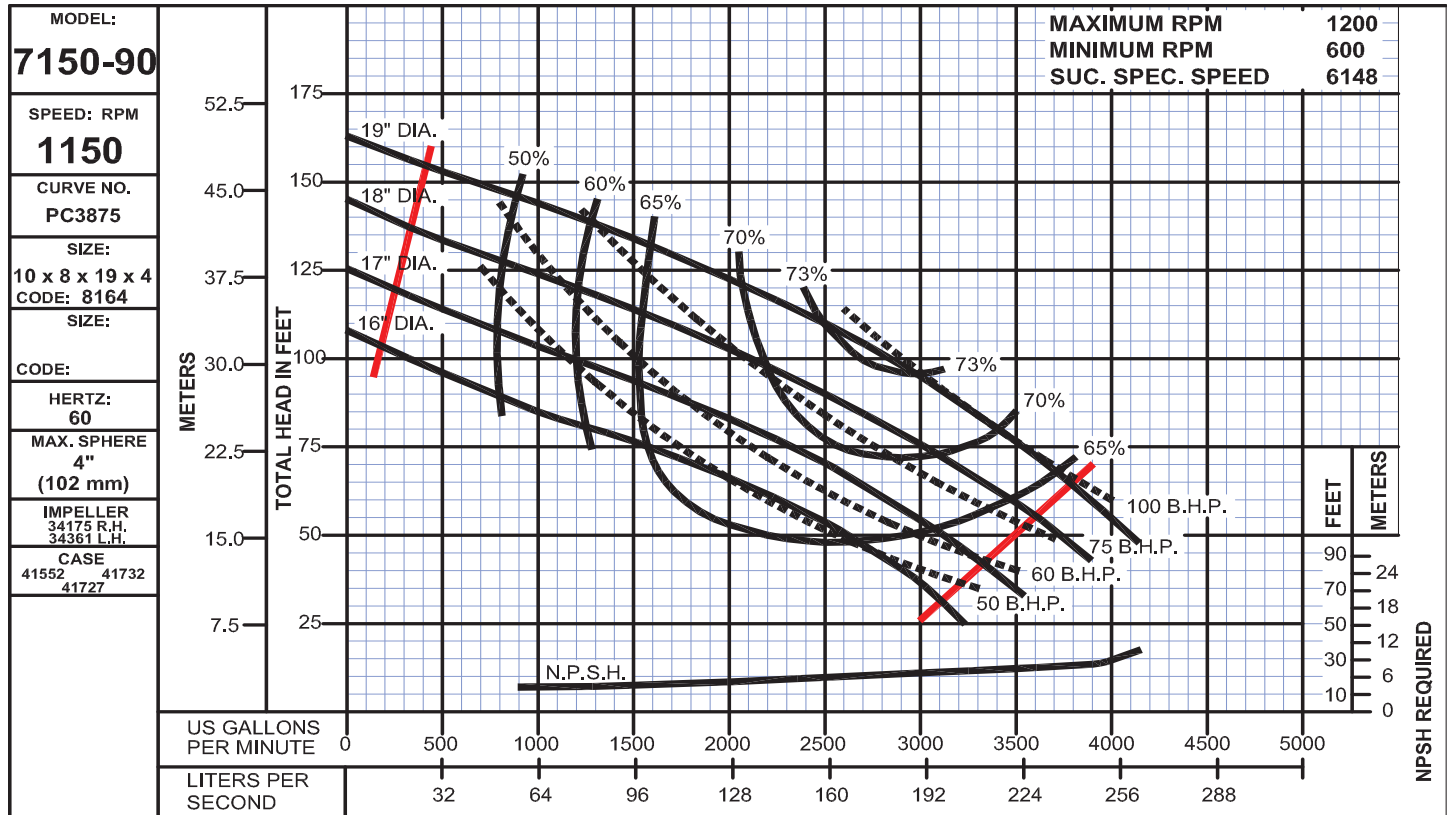
Sizes: 10 x 8 x 19 x 4, 870 & 1150RPM

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SECTION 45-SS
PAGE 70
DATE 7/07

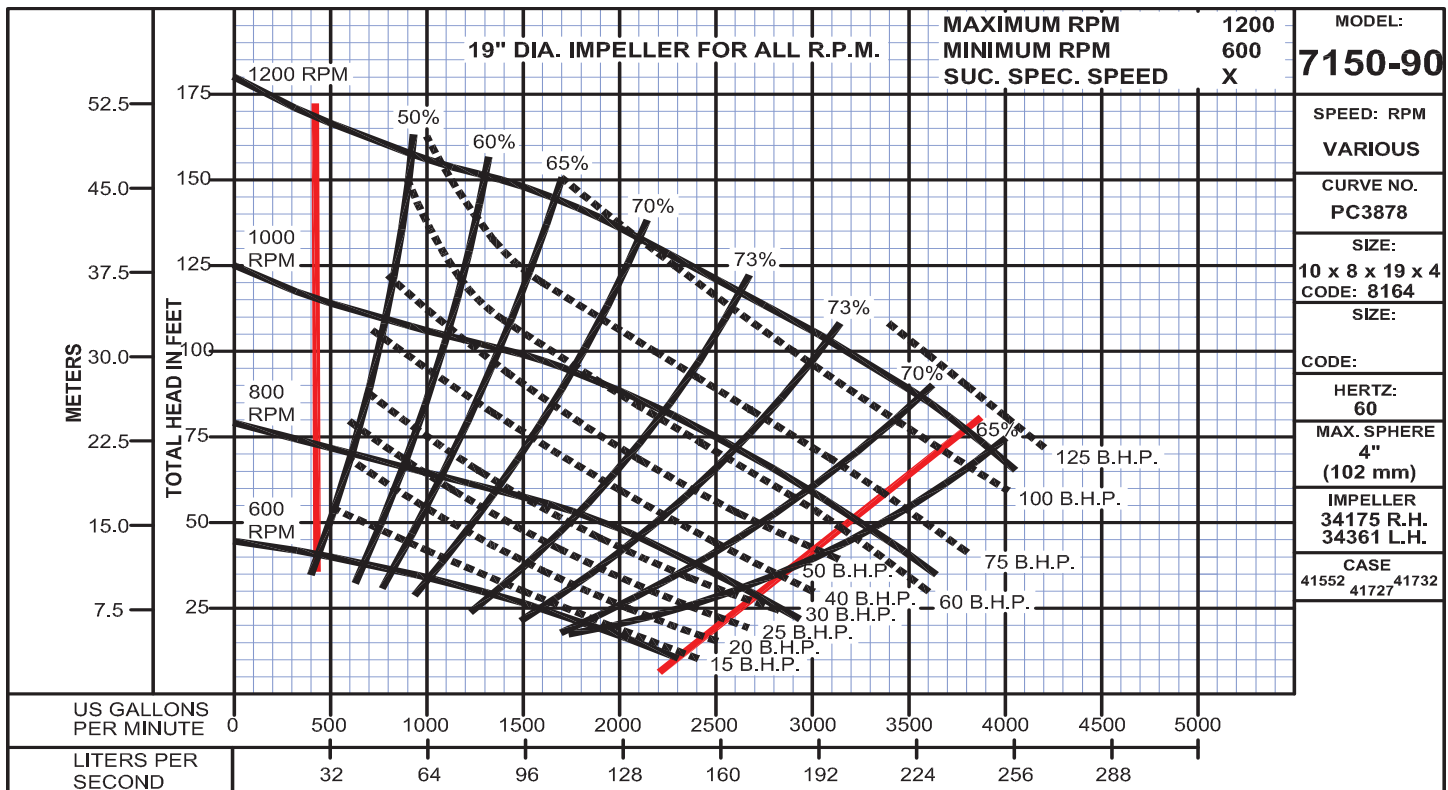
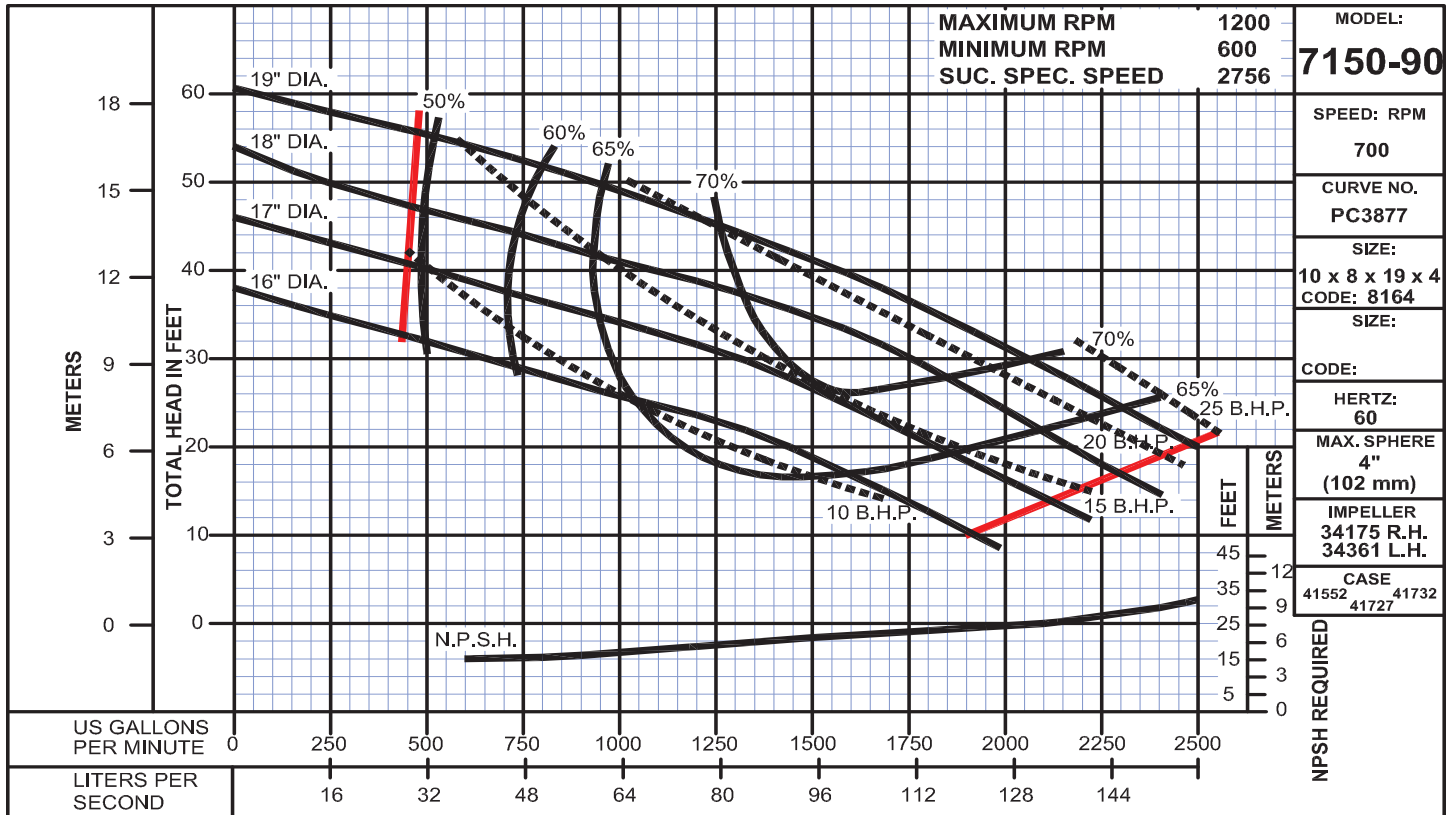
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