



**FIRST
PUMP**

石家庄第一水泵厂有限公司

SHIJIAZHUANG FIRST PUMP FACTORY CO., LTD.

FRAC BLENDER PUMP

FP-14X12X22



FP-12X10X23



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FP Centrifugal Pump is a powerful, high volume, heavy-duty slurry pump for demanding applications. The FP pumps are ideally suited for pumping high volumes of heavy slurries that are abrasive or corrosive.

Due to the stout, solid 2 1/2" diameter shaft at the seal area and a 3" diameter shaft at the bearings, these pumps can be belt driven or direct connected without concern for shaft deflection. The improved impeller back vanes provide reduced stuffing box pressure. Maximum seal life is realized because of improvement reducing stuffing box pressure and robust shaft design.

The FP pump features a concentric style casing with a large recalculation area, and a wide tip impeller that reduces the velocity of the fluid exiting the impeller. These features create a smooth flow pattern that greatly extends the life of fluid end.

Features:

- Impeller back vanes aid in the reduction of solids collecting between the stuffing box and impeller that also decreases pressure within the casing
- Replaceable casing wear pad
- Double angular contact bearings eliminate shaft end play and increases bearing and seal life
- Front access drain for easy access
- Full pipe diameter entrance for maximum efficiency efficiency
- Standard Labyrinth seals for maximum bearing protection
- Long-life no-adjustment mechanical seal available for near zero leakage
- Replaceable shaft sleeve to prevent shaft wear
- Replaceable stuffing box cover with stainless steel stuffing box bolts
- Material of wet-end wear parts: high chrome A05 with hardness not less than 62HRC ≈ 646.84HB
- Thick, robust, concentric casing with replaceable casing wear pad
- Wide impeller
- 100% compatible with current market of offerings

Applications:

Oilfield

- Frac blending
- Supply boat mud transfer

Industrial

- Blending
- Bottom ash
- Fly ash
- Dredge tailings
- Fluid supercharging

- Paper pulp processing
- Sand slurry
- Sewage
- Slag
- Waste slurries
- Spent liquor

Mining and Minerals Processing

- Copper, bauxite, and quarry slurries
- Lead and zinc ore and tailings
- Nickel shot

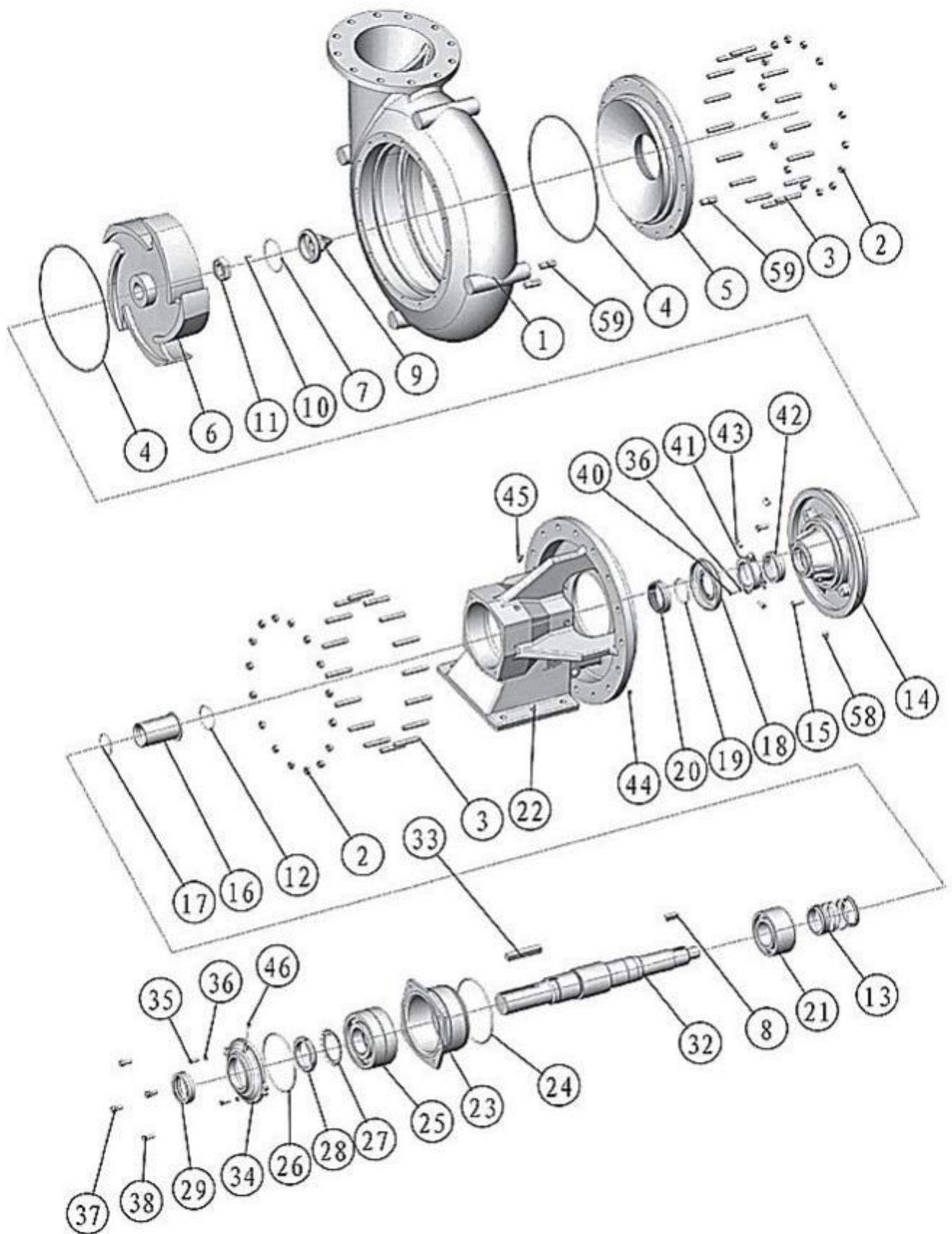
- Slag
- Spent liquor

Available Size: FP-14X12X22, FP-12X10X23

Flow Rates: up to 7500GPM

Head Pressures: up to 540 Feet





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FP PUMP PARTS (HIGH CHROME)

ITEM	PART NAME	QTY	PART NUMBER	REFERENCE
1	CASING 14X12X22	1	FP-24022-01-30	651120206
	CASING 12X10X23		FP-25008-01-30	662001001
2	NUT,CASING	32	TB-3932-61	648402014
3	STUD, CASING (14X12 & 12X10)	32	FP-3862-86	658403308
4	GASKET, CASING (14X12)	2	TB-10399-55-01	658410501
	GASKET, CASING (12X10)		FP-25012-01-01	661010001
5	COVER, FRONT (14X12)	1	FP-24021-01-30	654310309
	COVER, FRONT (12X10)		FP-25009-01-30	662014003
6	IMPELLER (14X12) CLOCKWISE ROT. 22"	1	FP-24024-X0-HS	662005003
	IMPELLER (12X10) CLOCKWISE POT. 23"		FP-25001-Y0-30	662005002
7	SEAL, IMPELLER NOSE	1	FP-7496-158	658408109
8	KEY, IMPELLER	1	FP-4372-29-21	658405006
9	NOSE, IMPELLER(HEX. DESIGN)	1	FP-24025-04-25L	652309601
10	SCREW, SET	1	FP-14430-19	658411400
11	JAM NUT	1	FP-24026-25L	658414255
12	SEAL, IMPELLER	1	FP-7496-153	658408059
13	MECHANICAL SEAL (CRANE TYPE)	1	FP-24036	658416102
14	STUFFING BOX (14X12)	1	FP-24027-01-30	653322305
	STUFFING BOX (12X10)		FP-24027-02-30	662014002
15	BOLT, STUFFING BOX	2	FP-3661-117	648401016
16	SLEEVE, SHAFT	1	FP-24029-21BZ	656422201
17	SEAL, SLE	1	FP-7496-234	658408505
18	SLINGER	1	FP-24030-01-13	654311604
19	SEAL, SLINGER	1	FP-7496-238P	658408554
20	OIL SEAL, INBOARD BEARING	2	FP-20619-03	658413604
21	BEARING, INBOARD	1	FP-20615-2	658413000
22	FRAME (14X12)	1	FP-24031-01-01	654312008
	FRAME (12X10)		FP-24031-02-01	662014001
23	HOUSING, BEARING	1	FP-24032-01-01	654313006
24	SEAL, BEARING HOUSING	1	FP-7496-272	658408901
25	BEARING, OUTBOARD (14x12)	1	FP-20616-2	658413307
	BEARING, OUTBOARD (12X10)	2	FP-20616-3	661009001
26	SEAL, BEARING COVER	1	FP-7496-267	658408802
27	LOCK WASHER, BEARING	1	FP-6124-6	658407002
28	LOCK NUT, BEARING	1	FP-6123-6	658406509
29	OIL SEAL, BEARING COVER	2	FP-20619-04	658413638
32	SHAFT	1	FP-24028-33	656420007
33	KEY, COUPLING	1	FP-4372-30-21	658405055
34	COVER, BEARING O.B.	1	FP-24033-01-01	654314004
35	BOLT, BEARING COVER	2	FP-3861-139	648401081
36	WASHER, BEARING COVER	4	FP-3936-19-L8	6484020300



ITEM	PART NAME	QTY	PART NUMBER	REFERENCE
37	NUT, BEARING HOUSING	2	FP-3932-62	658404702
38	BOLT, BEARING HOUSING	4	FP-3861-138	648401057
40	BOLT, PACKING GLAND	2	FP-3861-165	601408289
41	GLAND, PACKING HALF	2	FP-24034-01-13	654315100
42	PACKING SET	1	FP-8264-344-K	658409503
43	SCREW, CAP	2	FP-3909-04-87	658404207
44	PLUG, GREASE	1	FP-8505-12	601474695
45	BREATHER	1	FP-8267-1	601473689
46	GREASE, FITTING	1	FP-19368	661010020
58	PLUG, PIPE	2	FP-8505-2-01	658409859
59	PLUG, PIPE	1	FP-8505-6-01	658410006

FP PUMP ASSEMBLY WITH MECHANICAL SEAL

ITEM	MODEL	PART NUMBER	REFERENCE
1	12X10X23 HIGH CHROME	FP-666001007	666001007
2	14X12X22 HIGH CHROME	FP-650120010	650120010



ISO9001:2008
QUALITY MANAGEMENT SYSTEM
CERTIFIED



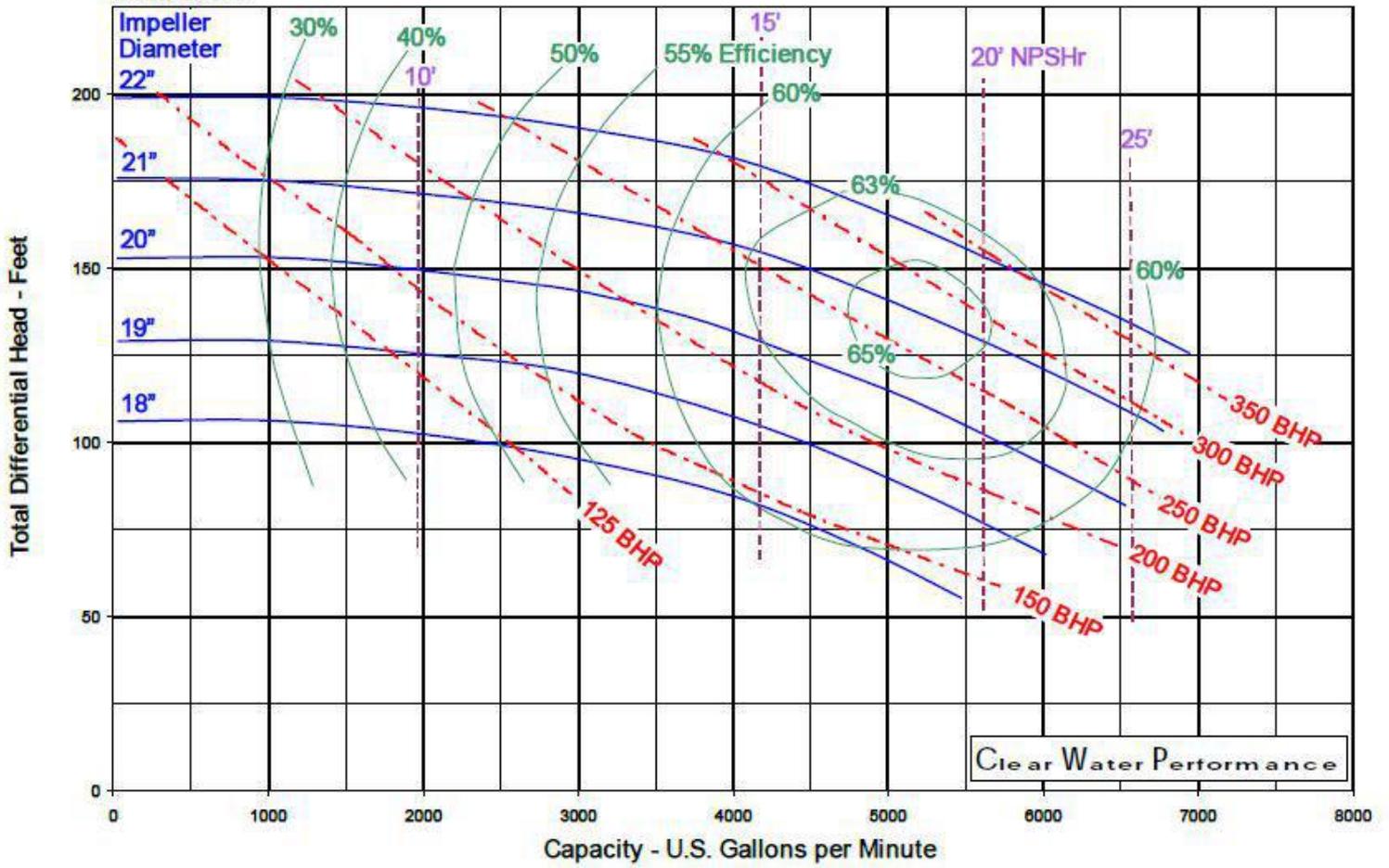
SGS CERTIFIED



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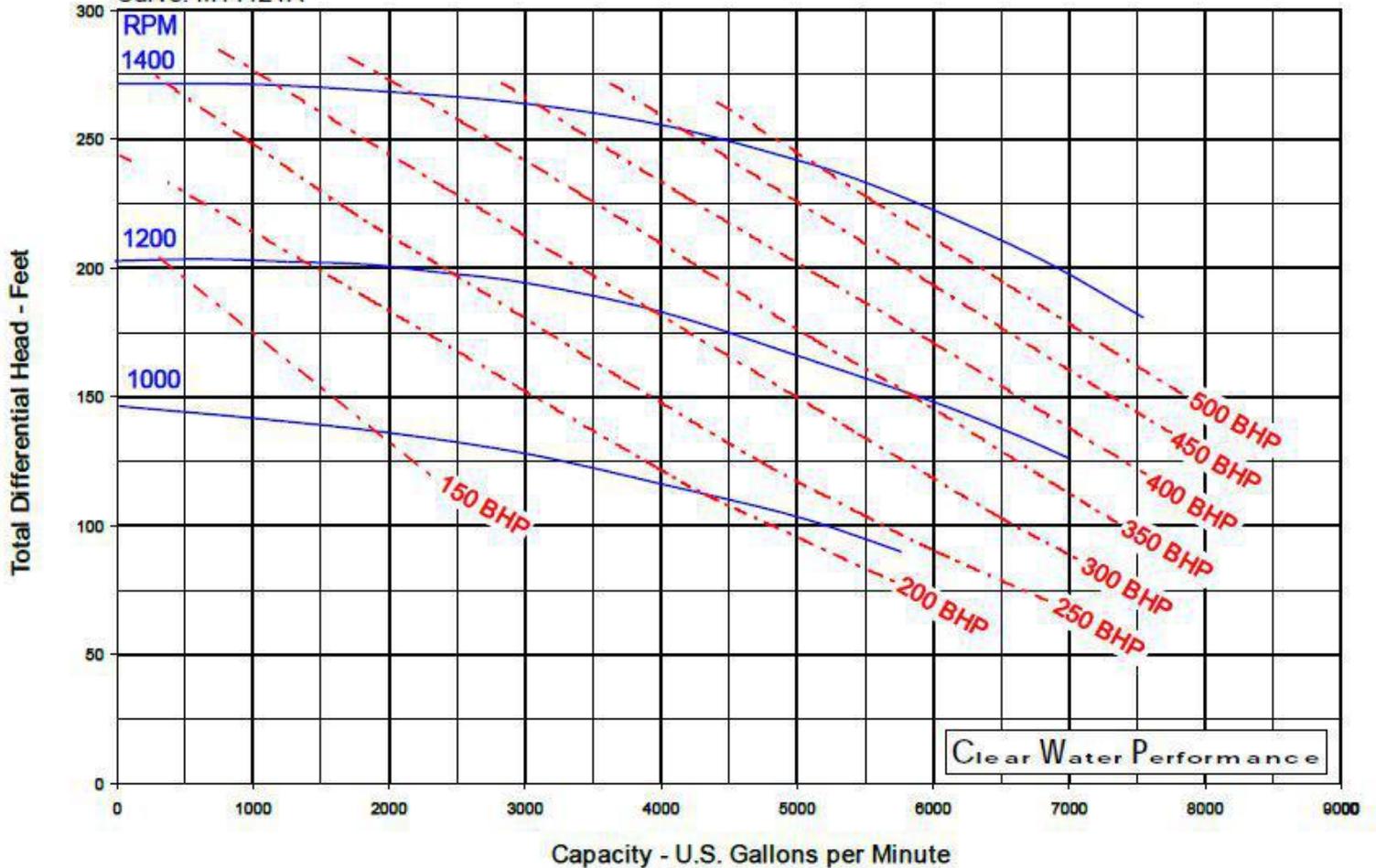
14X12X22
 Speed: 1200 RPM
 Curve: 1081

Open Impeller
 Dia: 18" to 22"
 Max Sphere: 1 5/8"



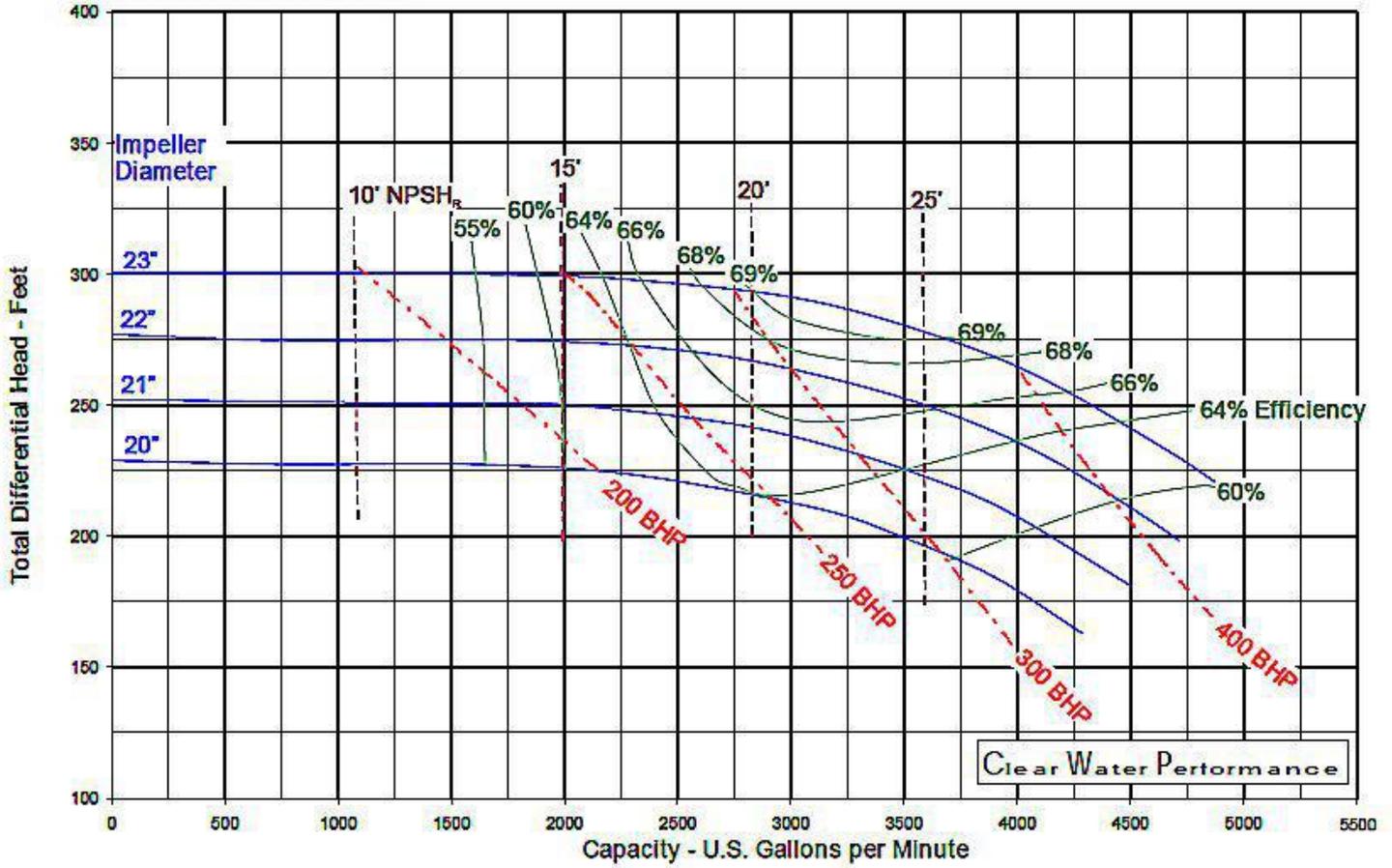
14X12X22
 Speed: 1000 -1400 RPM
 Curve: M1412VA

Open Impeller
 Dia: 22"
 Max Sphere: 1 5/8"



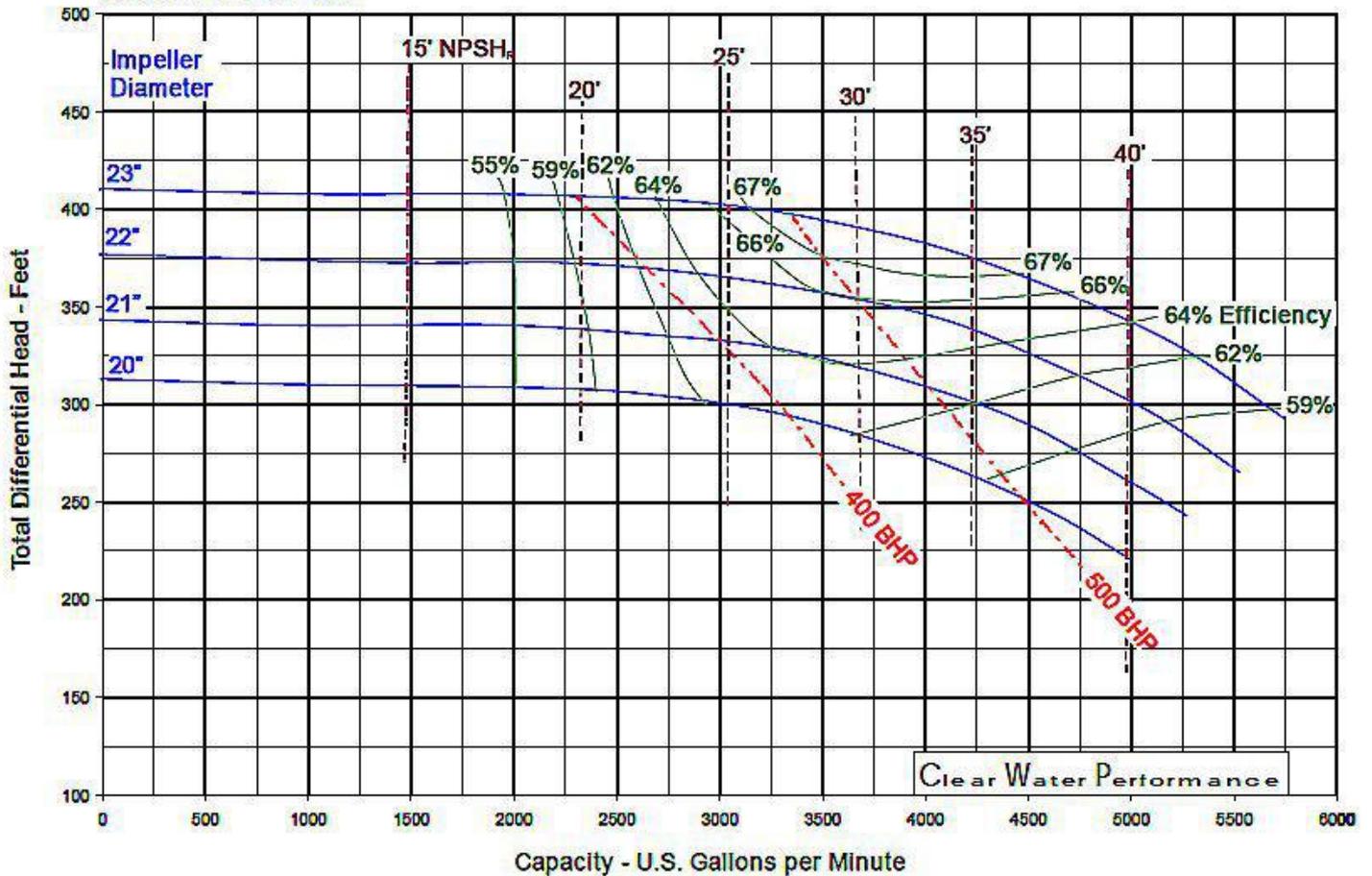
12X10X23
 Speed: 1200 RPM
 Curve: XP010-C1-CATV2

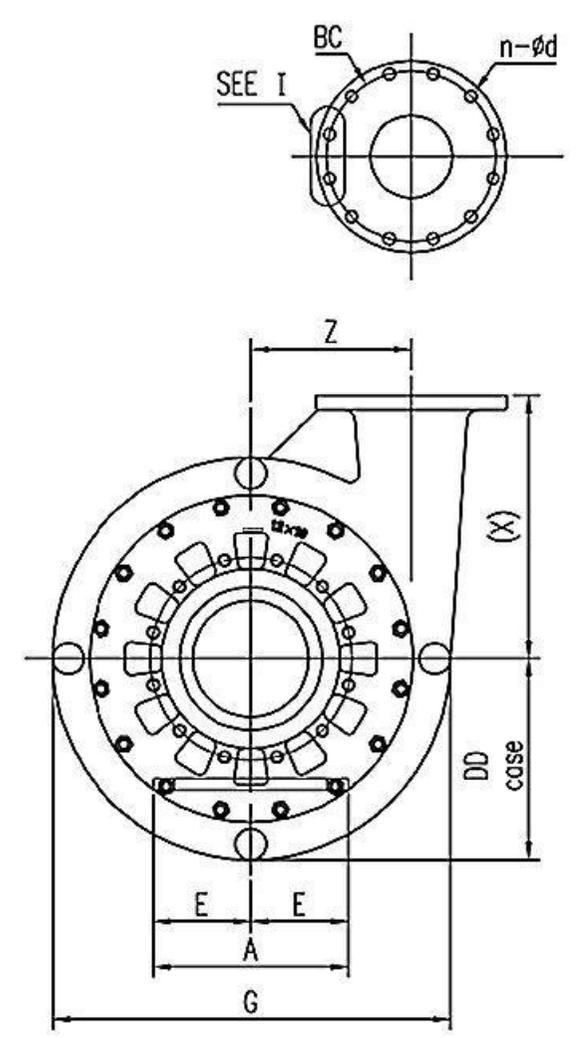
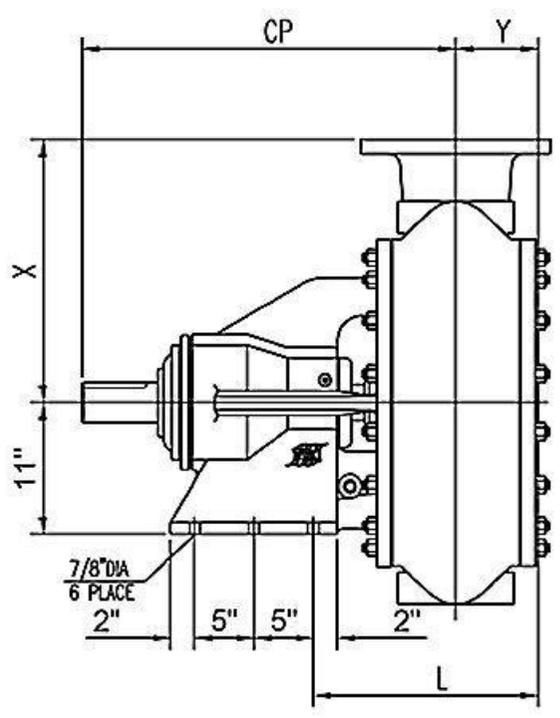
Open Impeller
 Dia: 20" to 23"



12X10X23
 Speed: 1400 RPM
 Curve: XP010-E1-CAT

Open Impeller
 Dia: 20" to 23"





Model	Suction Flange				Discharge Flange				A	E	G	L	X	Y	Z	CP	DD
	Size	n	d	BC	Size	n	d	BC									
12×10×23	12"	12	3/4" 10UNC 2B	17"	10"	12	1"	14 1/4"	16 13/32"	6 7/8"	33 5/8"	18 11/16"	22"	6 15/16"	13 1/2"	31 1/2"	16 13/16"
14×12×22	14"	12	1" 8UNC 2B	18 3/4"	12"	See Note I			16 13/32"	6 7/8"	37 3/4"	18 3/8"	19 7/16"	6 5/8"	14 9/16"	31 3/16"	18 13/16"

* THE ABOVE FLANGES ARE ANSI STANDARD 150 SERIES FLAT FACE EXCEPT PF8×6×18 IS ANSI 250# (300SERIES) RAISED FACE. ALL DISCHARGE FLANGE HOLES ARE THRU CLEARANCE HOLES EXCEPT AS NOTED.

NOTE I: THE DISCHARGE FLANGE FOR THE 14×12×22 HAS 12 HOLES, 10 HOLES THRU 1" DIA & 2 HOLES TAPPED 7/8-9UNC-2B AS SHOWN, ON A 17" DIA. B.C

NOTE: Dimensions are for reference only. Certified drawings should be requested for construction purposes.