

**GEMSTONE PUMP COMPANY**750 - 3750 GPM **Model 6YB/6YBS** 75 - 210 Feet TDH**STANDARD SPECIFICATION****Discharge** - 6 inch discharge**Suction** - 10 inch suction**Impeller** - Enclosed, 6 vane: handles 0.75" solids**Volute** - Right hand tangential discharge,  
four positions**Mechanical Seal or Traditional Packing** - Single  
type1 carbon ceramic mechanical seal: Cycloseal®  
design, Run-dry available**Footprint**

6YB matches Cornell's historical 6YB

6YBS is more compact, due to a short bracket

**Materials of Construction**

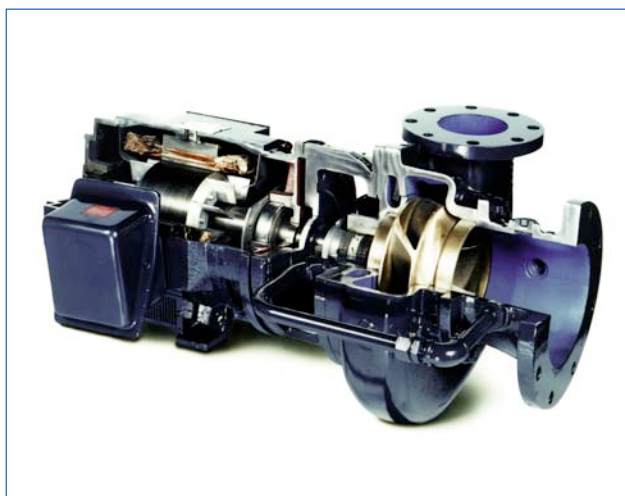
- Cast iron casing, bronze impeller
- Other materials available

**MOUNTING OPTIONS**

- **Close Coupled Electric**
  - Gemstone Energy Efficient Design
- **Frame Mount**
  - Gemstone F16
  - Gemstone F18
- **Engine Bracket**
  - Gemstone EM16 (SAE 1, 2, 3, 4)
  - Gemstone EM18 (SAE 1, 2, 3,)
  - Gemstone EM18DB (SAE 1, 2, 3,)

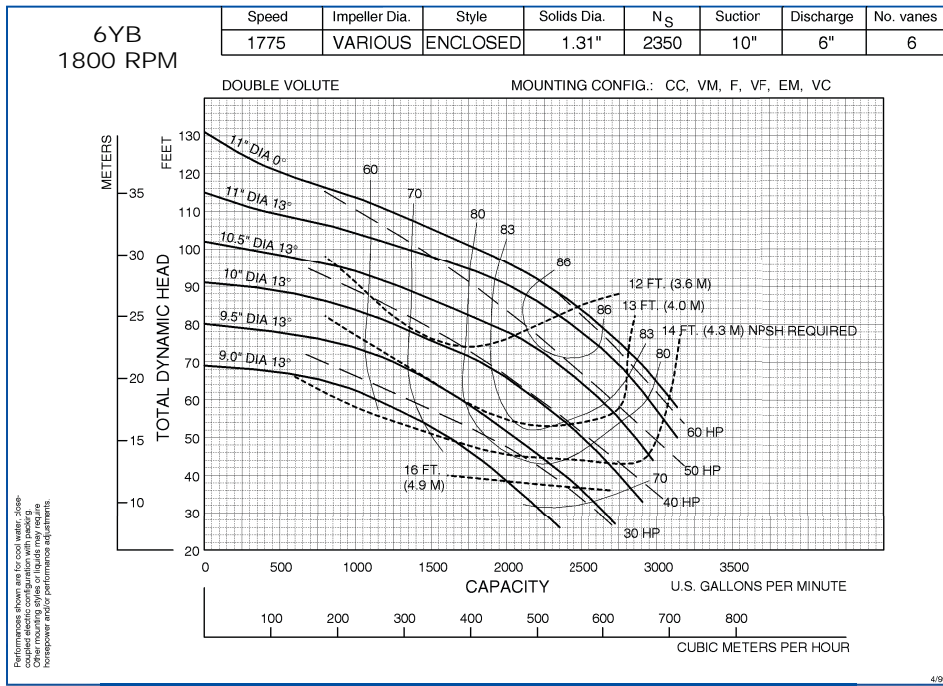
**AVAILABILITY**

- **Preferred Pump**
  - Finished Components Regularly Stocked  
(10 business days)
- **Specialty Pump**
  - Gemstone Pump Company will design  
and manufacture a variation of this pump  
specifically designed for your application

**FEATURES & BENEFITS**

- **Cornell's Tradition of Excellence:**
  - **Highest quality products**
  - **Experience**
    - Over 50 years in the centrifugal pump business
  - **Optimum Hydraulics**
    - In house engineering staff and test lab facilities
  - **Strong Local Dealer Support**
    - Our agricultural products are sold only through  
authorized dealerships
    - Dealerships provide full service to customers from  
sales to replacement parts
    - Dealers maintain and improve their knowledge at  
educational activities like Gemstone's "Pump  
School"
- **Exceptional Design:**
  - **Efficiency**
    - Effectively converts energy into fluid flow and  
pressure
  - **Long Product Life**
    - Thick walled castings -  
Heavy duty shafts
    - 20,000 hour bearings -  
Replaceable wear rings and shaft sleeves -  
Reduced thrust load through design and balance  
lines where appropriate

# PERFORMANCE CURVES



**Note:**  
Curves also available in 1200 and various RPM

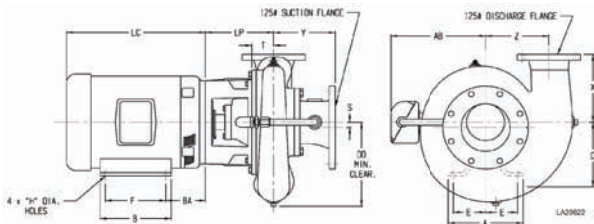


Figure 1

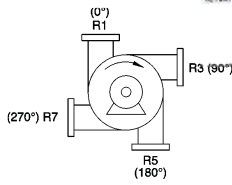


Figure 2

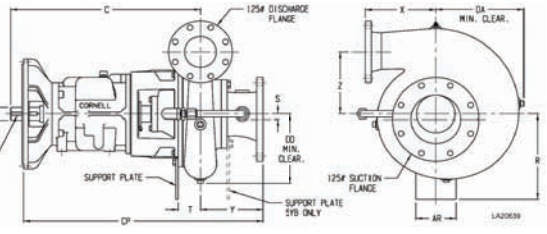


Figure 3

## PUMP DIMENSIONS

MODEL	MOUNT	AK	Fig.	A	AR	B	C	CP	D	DA	DD	E	F	H	L	LP	P	R	S	T	U	V	X	Y	Z	KEYWAY
6 YB	CC	12.5	1	-	-	-	-	-	-	-	14.75	-	-	-	-	11.68	-	-	1	4.59	-	-	9.5	10.41	9.5	-
6 YB	F16	-	2	12	-	12.88	29.69	-	9.75	-	14.75	5.12	10.38	0.81	11.81	-	0.88	-	1	4.59	2	4.5	9.5	10.41	9.5	.50 X .25
6 YB-S	F16	-	2	12	-	12.88	26.26	-	9.75	-	14.75	5.12	10.38	0.81	8.38	-	0.88	-	1	4.59	2	4.5	9.5	10.41	9.5	.50 X .25
6 YB	F18	-	2	12	-	12.88	30.7	-	10.5	-	14.75	5.12	10.38	0.81	12.33	-	0.88	-	1	4.59	2.5	4.5	9.5	10.41	9.5	.62 X .31
6 YB-S	F18	-	2	12	-	12.88	27.18	-	10.5	-	14.75	5.12	10.38	0.81	8.88	-	0.88	-	1	4.59	2.5	4.5	9.5	10.41	9.5	.62 X .31
6YB	EM16	-	3	-	6	-	29.69	37.19	-	14.75	11.25	-	-	-	-	-	-	17.48	1	4.59	2	-	9.5	10.41	9.5	.50 X .25
6 YB-S	EM16	-	3	-	6	-	26.26	34.66	-	14.75	11.25	-	-	-	-	-	-	17.48	1	4.59	2	-	9.5	10.41	9.5	.50 X .25
6 YB	EM18	-	3	-	6	-	30.7	39.12	-	14.75	11.25	-	-	-	-	-	-	17.48	1	4.59	2.5	-	9.5	10.41	9.5	.62 X .31
6 YB-S	EM18	-	3	-	6	-	27.18	35.66	-	14.75	11.25	-	-	-	-	-	-	17.48	1	4.59	2.5	-	9.5	10.41	9.5	.62 X .31

## MOTOR DIMENSIONS

MOTOR FRAME	AK DIM.	A	B	D	E	F	H	AB	BA	LC
143-5	4.5	6.5	5.94	3.5	2.75	5	0.34	5.62	2.88	10
182-3	4.5	8.62	6.5	4.5	3.75	5.5	0.41	6.75	3.5	12.25
	8.5	8.62	6.5	4.5	3.75	5.5	0.41	6.75	3.5	12.25
213-5	8.5	9.5	8	5.25	4.25	7	0.41	7.94	4.5	13.69
254-6	8.5	11.25	11.25	6.25	5	10	0.53	9.5	5	17.94
284-6	12.5	12.25	12.25	7	5.5	11	0.53	11.37	5	21.31
324-6	12.5	14.25	13.75	8	6.25	12	0.66	12.22	5.5	22.19
364-5	12.5	15.75	14	9	7	12.25	0.66	13.2	6.12	24.31
404-5	12.5	18.5	16.62	10	8	13.75	0.81	16.39	6.88	29.97

Gemstone Pump Company

CERTIFIED TO ISO 9001:2000