

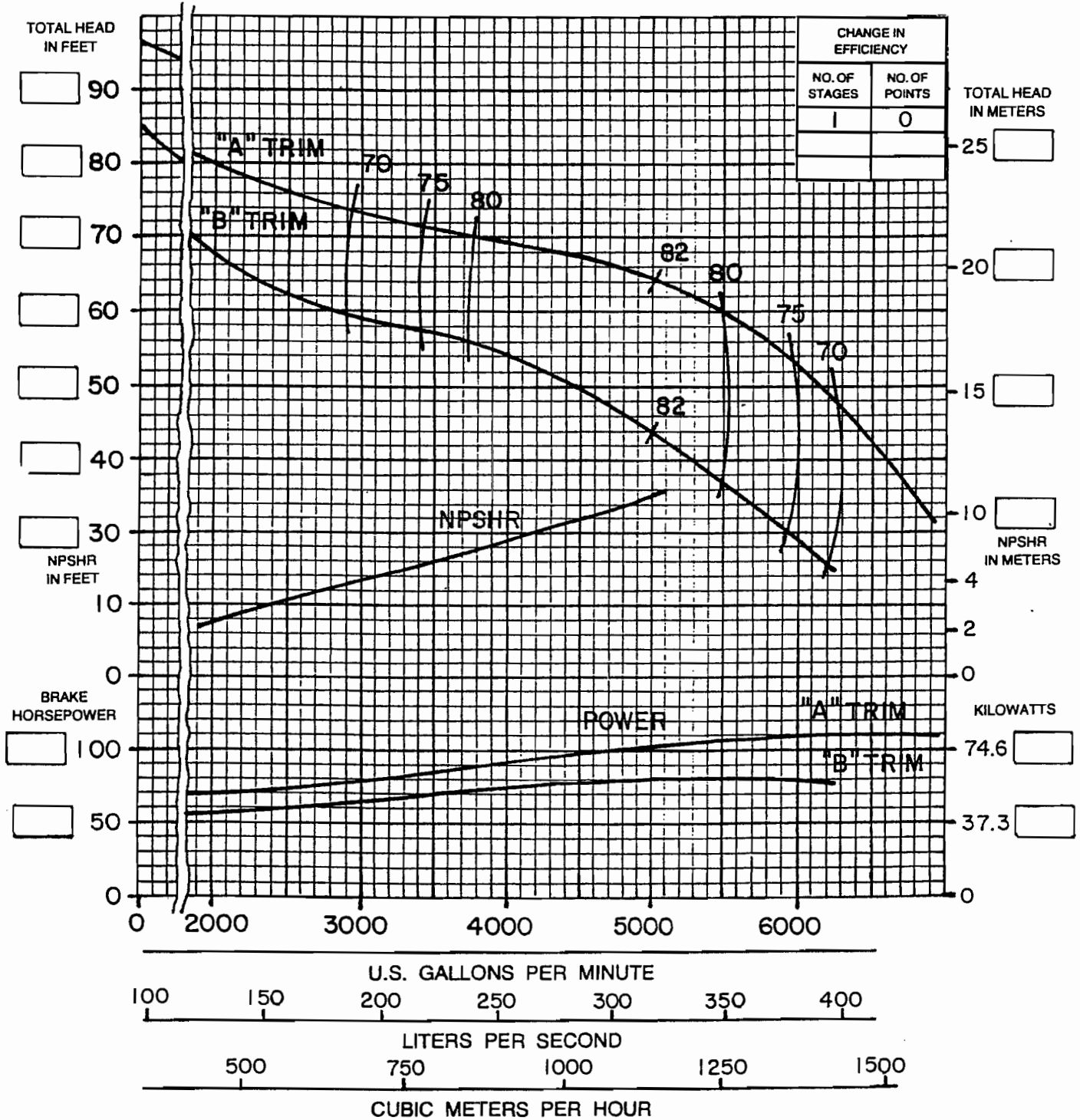


1160 RPM  
SINGLE STAGE PERFORMANCE

**MODEL 20BCH**  
**STANDARD CONSTRUCTION**

See reverse side for detailed information.

☐ STAGES REQUIRED



Pump hydraulic performance is based on handling cold clear, fresh nonaerated water, free of foreign materials.

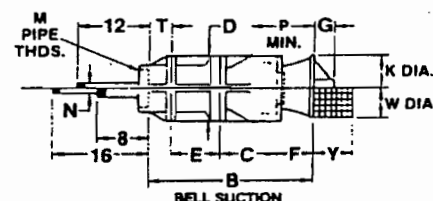
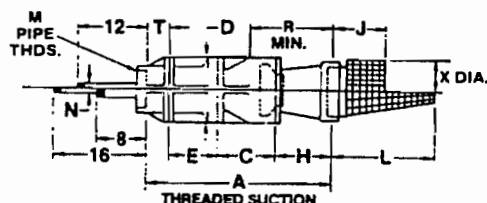
Customer: \_\_\_\_\_  
Item No.: \_\_\_\_\_  
Capacity: \_\_\_\_\_ TDH \_\_\_\_\_ Bowl HP \_\_\_\_\_ Bowl Efficiency \_\_\_\_\_

## IMPELLER DATA

IMPELLER NO. 420-3-3001 . TYPE ENCLOSED . DIAMETER: A 14.94 ", 379.5 mm.  
 B 14.19 ", 360.4 mm, C            ",            mm,  
 EFFECTIVE EYE AREA 88.04 sq. inches, 56799.9 sq. mm. NUMBER OF VANES 6 .  
 THRUST CONSTANT K 38.0 lbs. / ft. 51.5 N / m of head. WEIGHT 70 lbs., 31.8 Kg.  
 $WR^2$  30.11 lbs. / ft<sup>2</sup>., 146.9 Kg / m<sup>2</sup>.  
 EYE FLUID VELOCITY CK .004 ft. / sec. / GPM, .001 m / sec. / LPS.  
 PERIPHERAL VELOCITY 5.06 ft. / sec. / inch, 1.54 m / sec. / mm of impeller dia. Ns 1738.3

## BOWL DATA

BOWL NO. 420-3-2003. CONNECTION TYPE BOLTED . NOMINAL DIAMETER (E) 11.75 ", 298.5 mm.  
 MINIMUM DIAMETER (E) 11.75 ", 298.5 mm.  
 COLUMN PIPE SIZE 16 ", 400 mm, STANDARD, \* ", \* mm, MAXIMUM  
 SUCTION PIPE SIZE N/A ", N/A mm, STANDARD, N/A ", N/A mm, MAXIMUM.  
 PUMP SHAFT DIAMETER 1.69 ", 42.9 mm, STANDARD \* ", \* mm MAXIMUM.  
 LATERAL .075 ", 1.9 mm, STANDARD, \* ", \* mm MAXIMUM.  
 SHAFT BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.  
 MAXIMUM NUMBER OF STAGES 4 (std. construction).  
 MAXIMUM HEAD 945 ft., 288.0 m (std. construction). MAXIMUM SPHERE SIZE .88 ", 22.4 mm.  
 PROJECTIONS ABOVE COLUMN PIPE BUTT: **TUBE** 8",203.2 mm; **SHAFT** 16",406.4 mm. FOR ENCLOSED  
 LINESHAFT. 12",304.8mm. FOR OPEN LINESHAFT.  
 \* REFER TO FACTORY.  
 WEIGHT: SINGLE STAGE 322 lbs., 146.1 Kgs. ADDITIONAL STAGE 118 lbs., 53.5 Kgs.



## STANDARD DIMENSIONS

|     | A                              | B     | C                              | D                              | E                             | F                             | G                             | H                             | J     | K                               | L                              | M     | N                               | P     | R                               | T                             | W                               | X     |
|-----|--------------------------------|-------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------|---------------------------------|--------------------------------|-------|---------------------------------|-------|---------------------------------|-------------------------------|---------------------------------|-------|
| IN. | 37 <sup>7</sup> / <sub>8</sub> | 37    | 18 <sup>1</sup> / <sub>2</sub> | 17 <sup>3</sup> / <sub>4</sub> | 7 <sup>1</sup> / <sub>8</sub> | 7 <sup>3</sup> / <sub>4</sub> | 4 <sup>3</sup> / <sub>4</sub> | 8 <sup>5</sup> / <sub>8</sub> | 16    | 17 <sup>9</sup> / <sub>16</sub> | 33 <sup>3</sup> / <sub>8</sub> | 14    | 11 <sup>5</sup> / <sub>16</sub> | 11    | 13 <sup>7</sup> / <sub>16</sub> | 3 <sup>5</sup> / <sub>8</sub> | 18 <sup>3</sup> / <sub>16</sub> | 18    |
| MM. | 962.2                          | 939.8 | 469.9                          | 450.9                          | 180.9                         | 196.9                         | 120.7                         | 219.0                         | 406.4 | 446.0                           | 847.9                          | 355.6 | 49.3                            | 279.4 | 341.4                           | 92.0                          | 462.0                           | 457.2 |