

## Combination Base Elbow

(Standard Construction on 4" B5431C, B5432C, B5433C)

A heavy duty integrally cast one-piece base and elbow made of cast iron conforming to ASTM A48 Class 30 shall be provided. Base elbow is to be furnished with gauge connections and handhole cleanout located 180° from the suction flange. Suction flange will be [4"] [6"] 125 lbs flat-faced flange conforming to ANSI drilling.

## Shaft

A common pump and motor shaft machined for straight fit at the impeller shall be provided. A renewable straight shaft sleeve of 304 stainless steel, positive adhesive sealed to prevent leakage between the shaft and the sleeve, shall be furnished.

## Motor

A \_\_\_\_\_ HP [1800] [1200] [900] [720] RPM vertical solid shaft, 3/60 230/460 Volt electric motor with dripproof enclosure, Class B insulation with a 1.15 service factor shall be supplied. The motor bearing shall be designed to provide a nominal 40,000 hour L10 bearing life per AFBMA at best efficiency point.

## Fits and Hardware

The volute (casing), front head, backhead, and motor shall be manufactured with concentric shoulder fits to assure accurate

alignment. All machine bolts, nuts, and capscrews shall be of the hex head type and will not require the use of any special tools.

## Pump Materials of Construction

See *Material Specifications* for detailed specifications.

## Vibration Limitations

The limits of vibration as set forth in the standards of the Hydraulic Institute shall govern.

## Testing

The pumps shall be tested at the manufacturer's plant before shipment in accordance with the Hydraulic Institute Standards. Certified copies of the test curves shall be submitted to the engineer.

## Quality Assurance

Pumps are to be engineered and manufactured under a written Quality Assurance program. The Quality Assurance program is to be in effect for at least five (5) years, to include a written record of periodic internal and external audits to confirm compliance with such program.