API 610, 11th Ed. Multi Stage Turbine Pump (BB3)







SERIES SERIES

API 610, 11th Ed. Multi Stage Turbine Pump (BB3)

- Max.Capacity: 1000m³/h (4400GPM)
- Max.Head: 1200m (3930ft)
- Temperature: 200°C (392°F)
- Allowed Pressure: 120kg/cm³ (1710psi)
- Power: 1600kw (2140HP)

- Material: DCI, WCB, CF8, CF8M, CD4M, CF3
 CN7M, HASTELLOY B&C, CA6NM
- Axially split casing for easy maintenance.
- Low vibration design.
- Dual volute design to extend seal/bearing life
- Individual impellers are keept balanced for smooth operation.

TRUFLO IS THE DRIVING FORCE IN THE PUMP INDUSTRY.

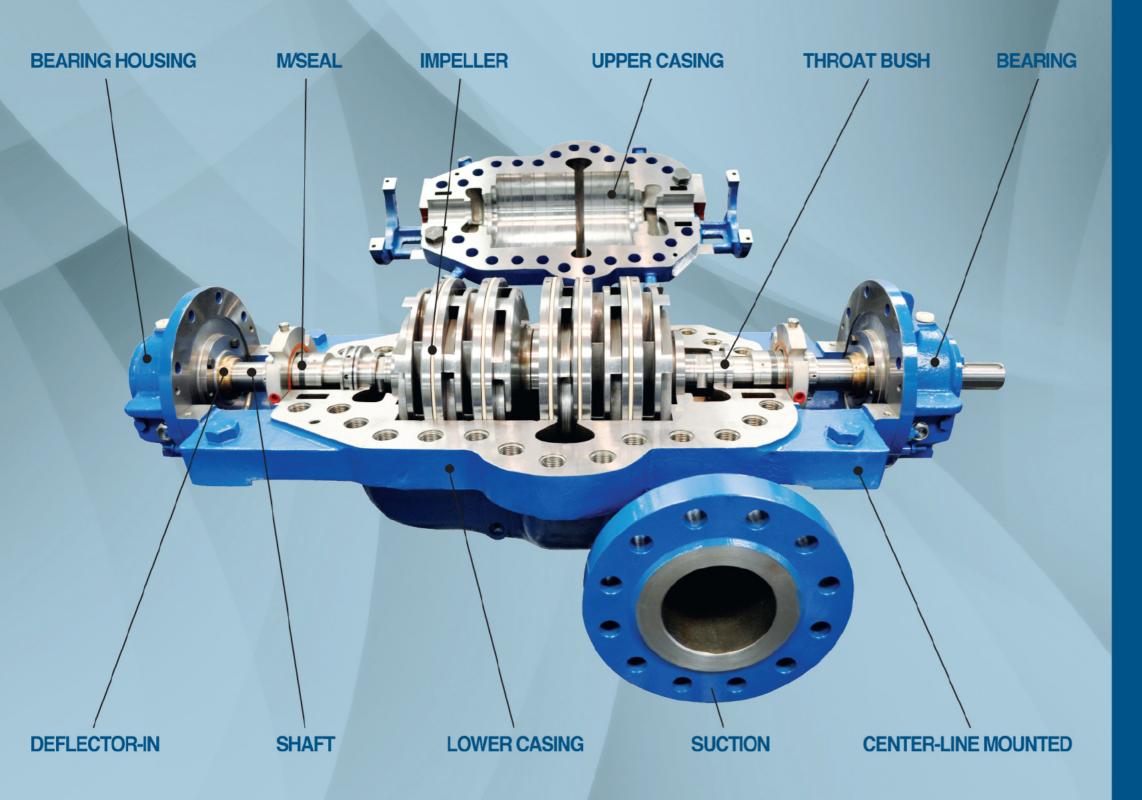
Between-bearing, axially-split, multistage pumps (TSMP) are designed for high-head/high capacity services. The TRUFLO BB3 pump meets requirements of API 610 11th edition.

Engineered features make the TRUFLO TSMP pump an extremely reliable, high performance pump well suited to a wide range of services.

The TRUFLO TSMP pumps assure stable performance and high efficiency levels for high temperature and pressure.

APPLICATION

- Refineries
- Injection offshore platforms
- Remote pipeline
- Boiler feed in mid-range cogeneration
- Descaling
- Mine dewatering
- Process transfer



SINGLE ROW BOLTING

All nuts located on top for easy maintenance.

DYNAMICALLY BALANCED IMPELLERS AND ASSEMBLED ROTATING ELEMENT

For smooth, vibration-free operation.

Impellers staggered on shaft to minimize vanepass vibration.

HEAVY DUTY BEARINGS

Oil lubricated ball radial and duplex thrust standard; sleeve radial/ball thrust also available or pressure lubricated sleeve radial and tilt pad thrust.

COMPACT CROSSOVERS

For streamlined fluid flow – minimum friction loss, and maximum efficiency.

API-610 SEAL CHAMBERS

Accept wide range of sealing options including seals conforming to API-610, packing, cartridge, and conventional mechanical seals.

PRECISION CAST IMPELLERS

Investment cast impellers yield smooth, dimensionally consistent hydraulic passages which maximize efficiency; double suction first stage available for low NPSH applications. POSITIVELY DRIVEN

IMPELLERS

Key driven with shrink fit and secured against axial movement in both directions. Allows precise balancing of rotating element.

OPPOSED IMPELLER ARRANGEMENT

Provides permanent hydraulic axial balance, impellers staggered on shaft to minimize vibration due to vane pass.

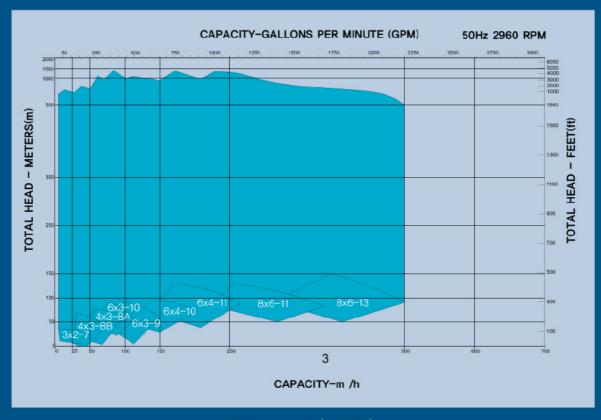
HEAVY DUTY SUCTION DISCHARGE FLANGES

Class 900/600/300 RF

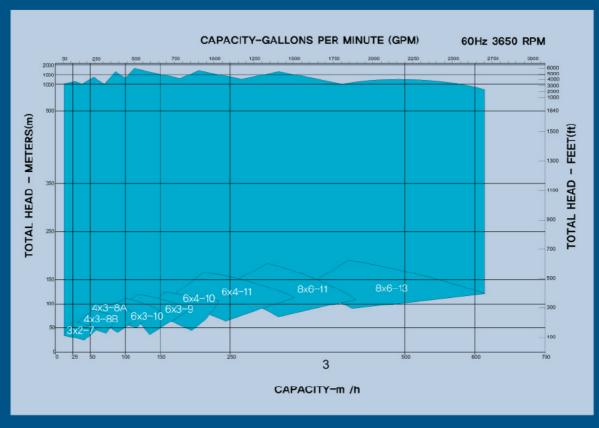
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PUMP SELECTION GUIDE

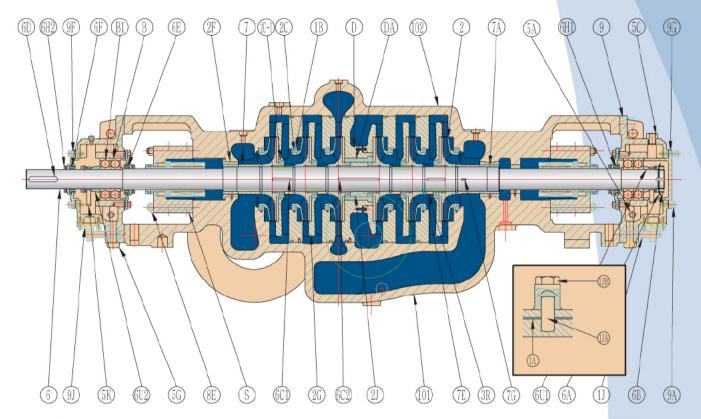
2960 RPM (50Hz)



3650 RPM (60Hz)



SECTIONAL



PART NAME	
LOWER CASING	
UPPER CASING	
GASKET (CASING)	
WEARING (CASING)	
STUD (CASING)	
STUD (UPPER CASING)	
NUT (UPPER CASING)	
IMPELLER	
WEARING (IMPELLER)	
WEARING (IMPELLER)	
THROAT BUSH	
GUIDE VANE	
SPACER SLEEVE (IMPELLER)	
SPACER RING	
OILER	

NO	PART NAME
5C	OIL CAP
5G	OIL DRAIN PLUG
5K	OIL RING
6	SHAFT
6A	LOCK WASHER
6B	LOCK NUT
6C1	IMPELLER KEY
6C2	IMPELLER KEY (CENTER)
6D	COUPLING KEY
6E	LABYRINTH SEAL-IN
6F	LABYRINTH SEAL-OUT
6H1	DEFLECTOR-IN
6H2	DEFLECTOR-OUT
6U1	RELEASE COLLER-CLOSE
6U2	RELEASE COLLER-OPEN

NO	PART NAME	
7	SLEEVE (STAGE)	
7A	SLEEVE NUT	
7E	SPLIT RING	
7G	SLEEVE KEY	
8E	STUD (SEAL COVER)	
9	BEARING HOUSING	
9A	HEXBOLT	
9F	BEARING COVER-OPEN	
9G	BEARING COVER-CLOSE	
9J	JACKET (B/HOUSING)	
B1	BEARING OUT	
В	BEARING	
D	DIAPHRAGM	
DA	DIAPHRAGM BUSH	
S	MECHANICAL SEAL	

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