

API 610 10th ed. Single-Stage Process Pump(OH2)

TSP Series

API 610 10th ed. Single-Stage Process Pump(OH2)



TRUFLO™
QUALITY • VALUE • SERVICE

TSP SERIES

API 610 Single-Stage Process Pump(OH2)

- Max.Capacity: 1500m³/h (6600GPM)
- Max.Head: 340m (1120ft)
- Temperature: 400°C (13500°F)
- Allowed Pressure: 60kg/cm² (853psi)
- Power: 1200kw (1600HP)
- Material: DCI, WCB, CF8, CF8M, CD4M, CN7M, HASTELLOY B&C, standard labyrinth oil seal & magnetic drain plug.
- Maximum hydraulic efficiency.
- Centerlined mounted
- High temperature stability.
- Designed for one craft maintenance.

TRUFLO TSP Series Pumps are designed and manufactured to offer customers to optimum hydraulic performance and reliability.

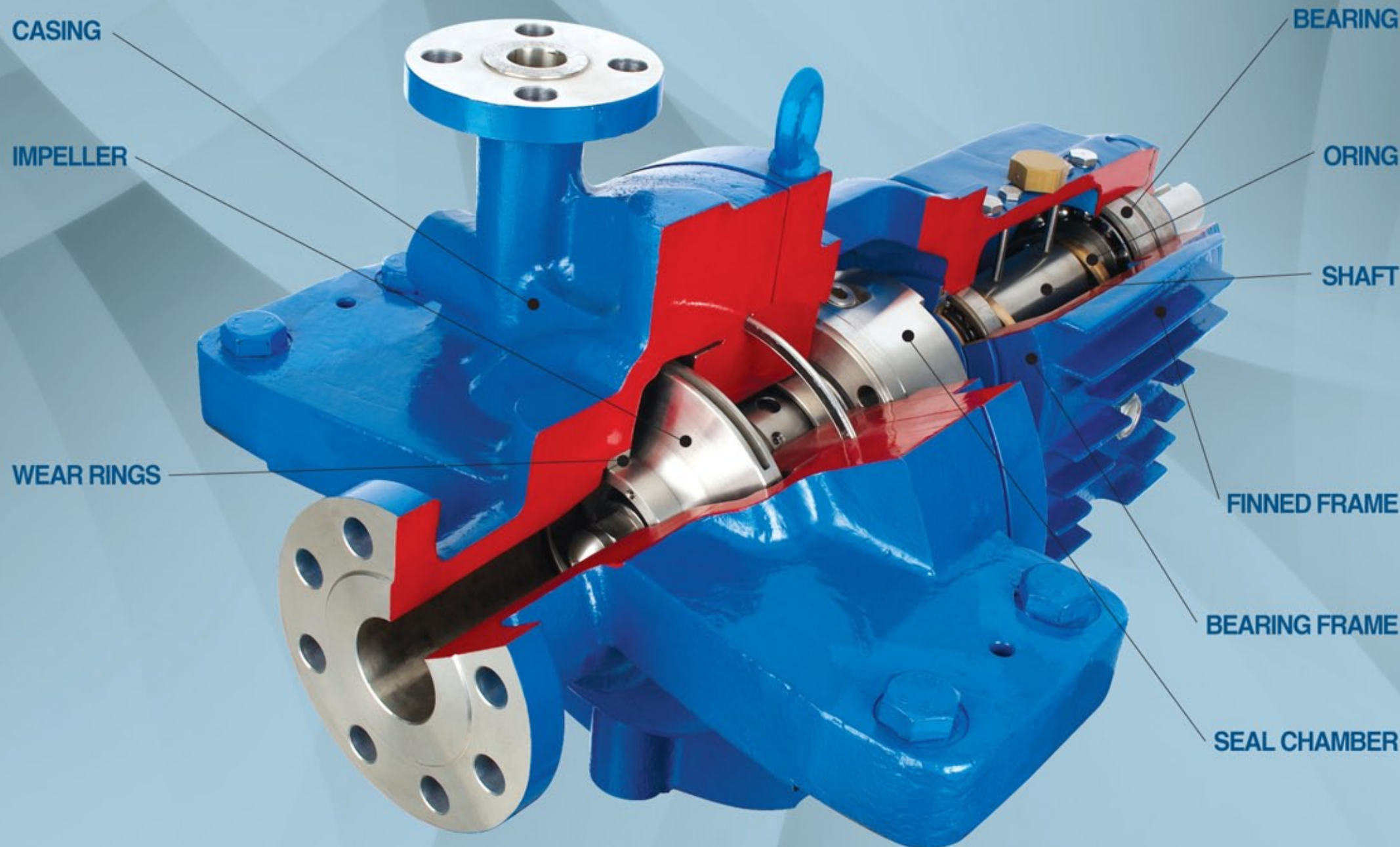
All pumps are manufactured to meet the design requirements of API 610 10th edition.

These process pumps have high temperature stability, and their simple construction(OH1) provides easy installation and maintenance.

TSP single-stage process pumps are suitable for a wide variety of industrial and whole plants.

APPLICATION

- Mill sump service
- Wastewater pond service with portable design
- Unloading service
- Dikes and containment areas
- Bulk tank farms top unloading
- Manhole pumpage systems



BEARINGS

- Duplex angular contact thrust bearings and deep-groove radial bearings
- Exceeds API-610 requirements

HEAVY DUTY BEARING FRAME

- Rigid design provides better vibration characteristics
- 3 bearing frames cover all TSP series
- Metal-to-metal fits provide runouts and concentricities well within limits specified in API-610

FINNED FRAME

- Standard cast finned frame provides natural air cooling
- Optional cooling fan to improve the cooling condition

OIL RING

- Standard oil ring provides better bearing lubricating condition

DEFLECTOR & LABYRINTH OIL SEALS

- Labyrinth seal design prevents oil from leaking out and contaminants from intruding. Made from non-sparking metal

SEAL CHAMBER

- Enlarged seal chamber fully conforms to API-610 standards.
- Accepts wide range of API 682 cartridge mechanical seals
- Renewable throat bushing standard for controlled seal chamber environment

IMPELLER

- Multiple closed impellers for most casings to meet specific hydraulic requirements
- Balanced to stringent requirements of API-610

RENEWABLE WEAR RINGS STANDARD ALL SIZES

- Positively locked and set screwed
- Front and rear rings control seal chamber flows and pressures

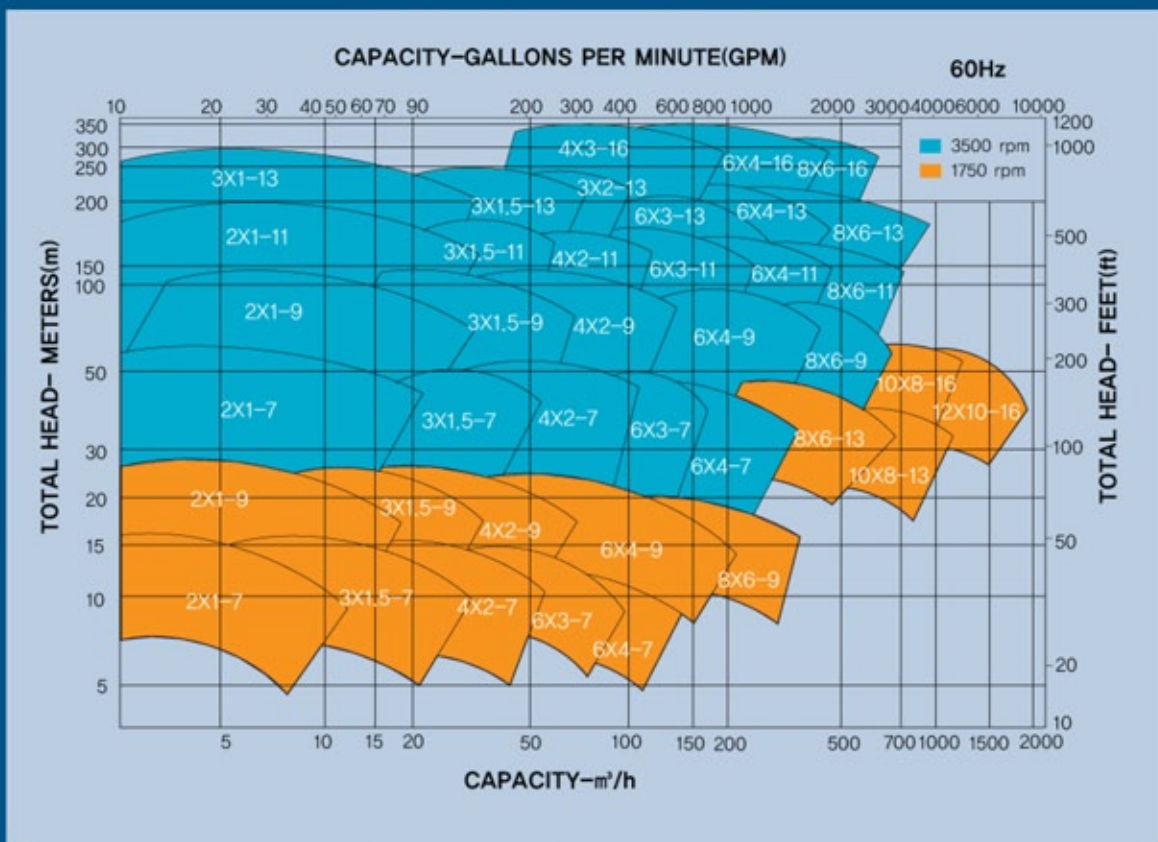
TANGENTIAL DISCHARGE

- Design maximizes hydraulic efficiency

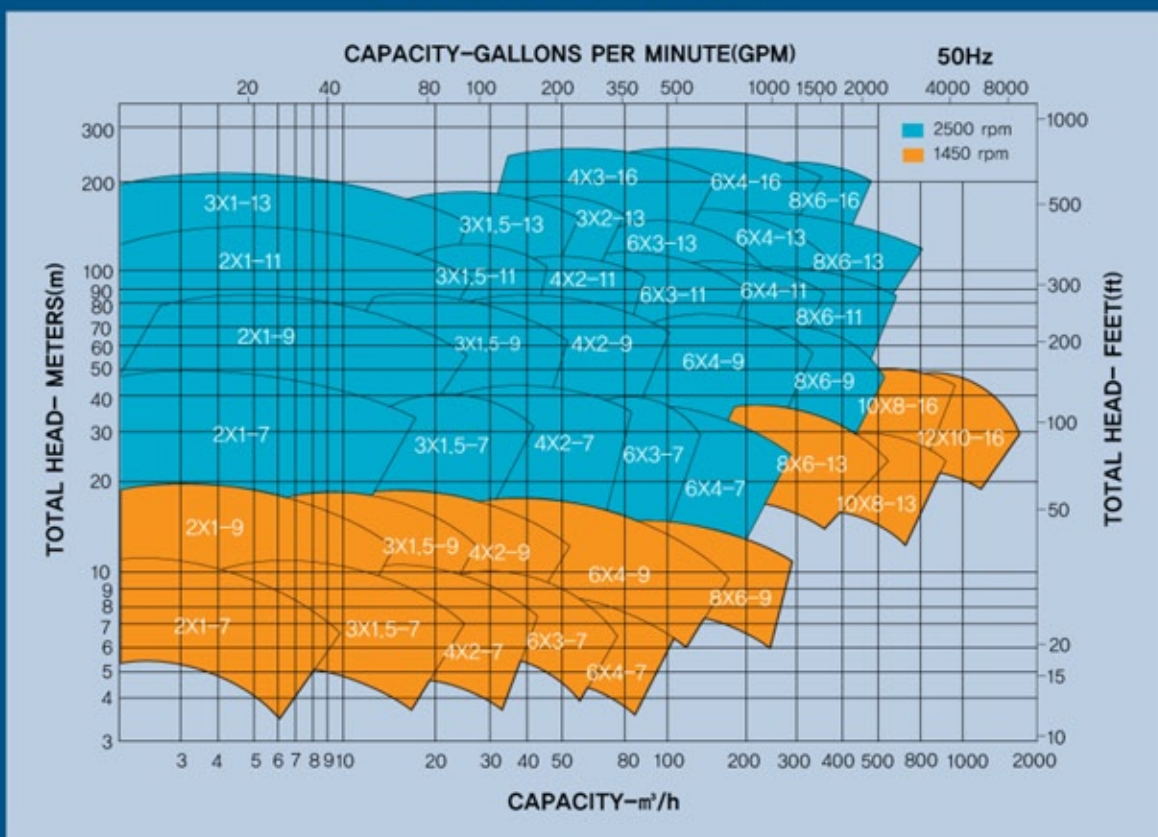
API 610 10th ed. **Single - Stage Process Pump (OH2)**

PUMP SELECTION GUIDE

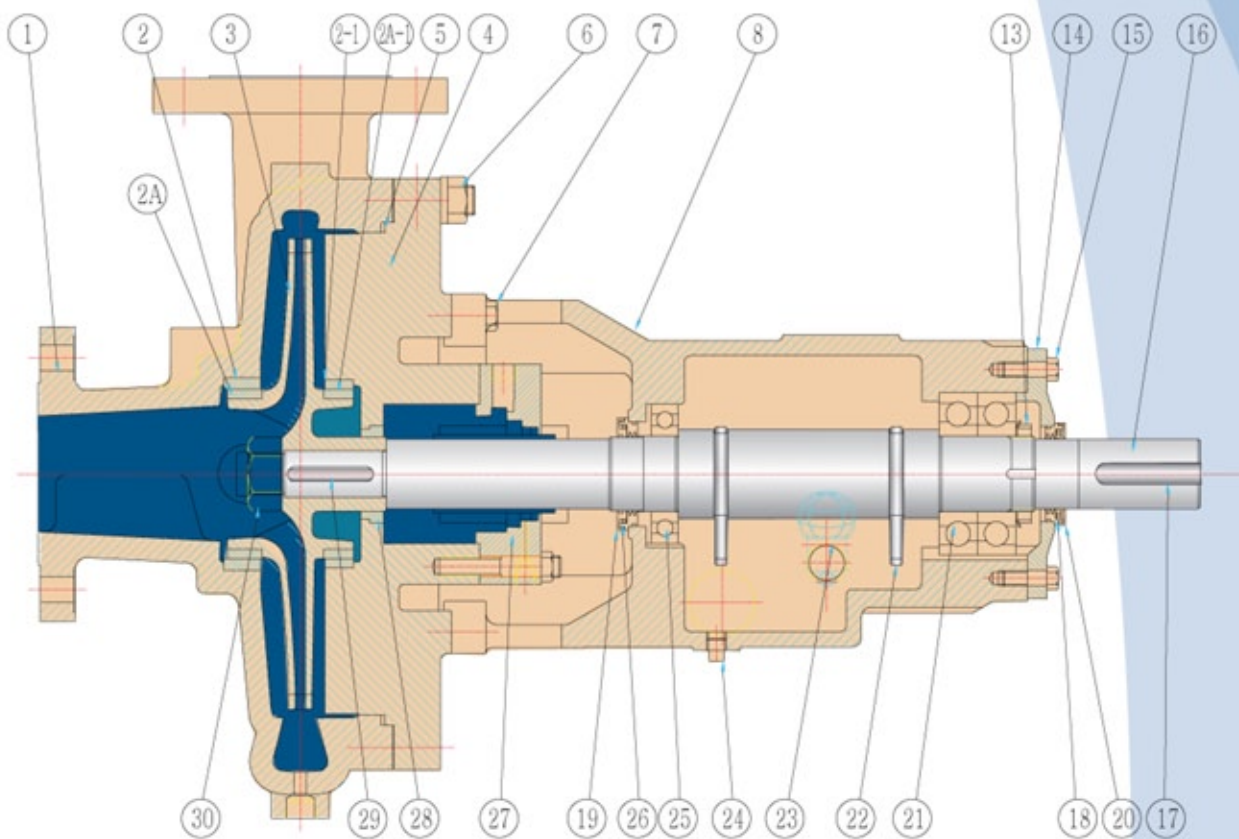
3500/1750 RPM(60HZ)



2500/1450 RPM(50HZ)



SECTIONAL



NO	NAME OF PART
1	CASING
2	CASING WEAR RING
2A	IMPELLER WEAR RING
2-1	CASING WEAR RING
2A-1	IMPELLER WEAR RING
3	IMPELLER
4	END COVER
5	GASKET CASING COVER
6	STUD CASING COVER
7	BOLT/COVE ADAPTER

NO	NAME OF PART
8	BEARING FRAME
13	LOCK NUT & WASHER
14	BEARING COVER
15	BOLT BHSG-B/FRAME
16	SHAFT
17	KEY SHAFT-COUPLING
18	LABYRINTH SEAL OUT
19	DEFLECTOR-IN
20	DEFLECTOR-OUT
21	BEARING OUT

NO	NAME OF PART
22	OIL RING
23	CONSTANT LEVEL OILER
24	OIL PLUG
25	BEARING
26	LABYRINTH SEAL IN
27	M/SEAL COVER
28	THROAT BUSH
29	IMP. KEY
30	IMP. NUT