



SINTECH
PUMPS

Horizontal Split Casing Pumps

(SCS & SCS D SERIES)



Horizontal Split Casing Pumps

This range provides a higher efficiency with lower maintenance. Development of this new range followed an extensive consultation with major users. This has produced an advanced pump which provides total reliability and reduced life cycle cost.

Sintech Pumps : Reliable and Innovative

Sintech deliver innovative products. Sintech pumps utilizes the well-proven “lean production system”. This single flow, lean manufacturing process with dedicated production units means less wastage and greater efficiency, enabling us to provide the highest standard pumps and components.

Designed for Low Maintenance and Reduced Life Cycle Costs

Sintech products are designed to make maintenance straight forward, minimize operation costs and increase product life span.

Capacity (Maximum) m ³ /hr.	: 10000
Head (Maximum) m	: 180
Temperature °C	: 80
Working Pressure kg/cm ²	: 18

Option for sealing Gland Packing

- Single cartridge seal as standard
- Single or double cartridge seals on suction lifts

Installation option

- Horizontal coupled
- Vertical open coupled
- Vertical close coupled





Applications

- Water treatment
- Water supply
- Water distribution
- Cooling tower
- Utility duties for process industry
- Power industry utilities
- Oil industry utilities
- General industry booster duties

Salient Features

- Compact design, easy to install
- Extra heavy shaft
- Both side bearing supported
- Stable and robust design

Design Features

Improved Hydraulics

Unique hydraulic passage design for optimum performance.

Stiff Shaft Design

Large diameter shaft supported on a short bearing span minimizes shaft deflection, prolonging seal and bearing life.

Simple Maintenance

Standard pumps cartridge bearings and seals can be removed without displacing top half casing.

Increased Component Life

More corrosion allowance offers better corrosion protection and optimum lifetime operation.

Enhanced Performance

Replaceable wear ring and bush reduce leakage.

Increased Efficiency

Standard pumps coating on casing internals optimizes performance and prolongs “as new” efficiencies.

Low Hydraulic Loads

Diametrically opposed volute design reduces hydraulic loads extending seal and bearing life.



Constructional Features

Casing : Axially split volute with suction and discharge branches located opposite inline in the lower half. This allows easy removal of the rotating element, without disturbing the pipe work. Pumps required for higher heads have double volute casing to minimum radial thrust.

Impeller : Single entry and double entry, closed type impellers are hydraulically and statically balanced.

Shaft : Machined from high quality steel. The shaft is sturdily proportioned to minimize deflection and provide long reliable service.

Sleeves : Sleeves are provided to protect the shaft and ensure longer shaft life.

Neck Ring : Designed with appropriate clearances and materials to minimize leakages while ensuring a long impeller life.

Bearings : Deep groove ball bearings are provided at the drive and free ends and are designed for high reliability and long life.

Direction of Rotation

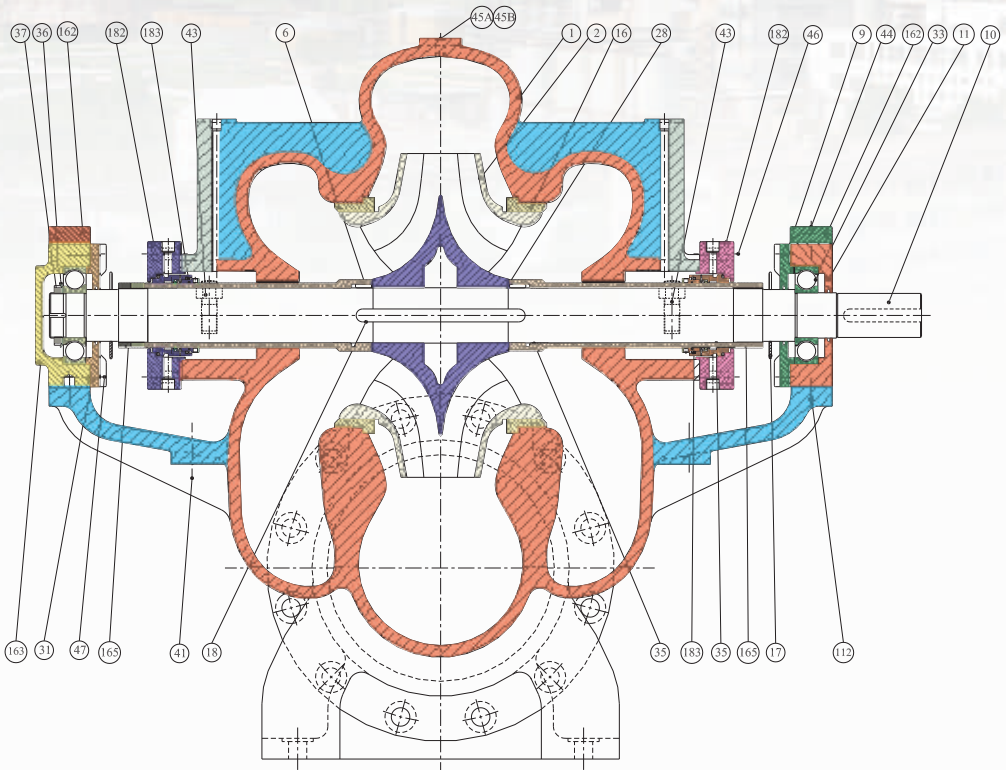
Clockwise / Counter Clock wise when seen from drive end.

Material of Construction

Parts	Standard All	CF-8All	CF-8M	All Bronze
Lower Casing	C.I.	CF-8	CF-8M	BR.
Upper Casing	C.I.	CF-8	CF-8M	BR.
Impeller	CF-8	CF-8	CF-8M	BR.
Shaft	SS-410	SS-410	SS-316	SS-410
Sleeve	SS-410	SS-410	SS-316	SS-410
Bearing Housing	C.I.	C.I.	C.I.	C.I.
Wear Rings Casing	BR. LTB-2	BR. LTB-2	BR. LTB-2	BR. LTB-2

Other than above state materials Pump are available in CS, CA 15, Super Duplex, CN 7U Hastelloy & Other Special Stainless Steel Alloy.

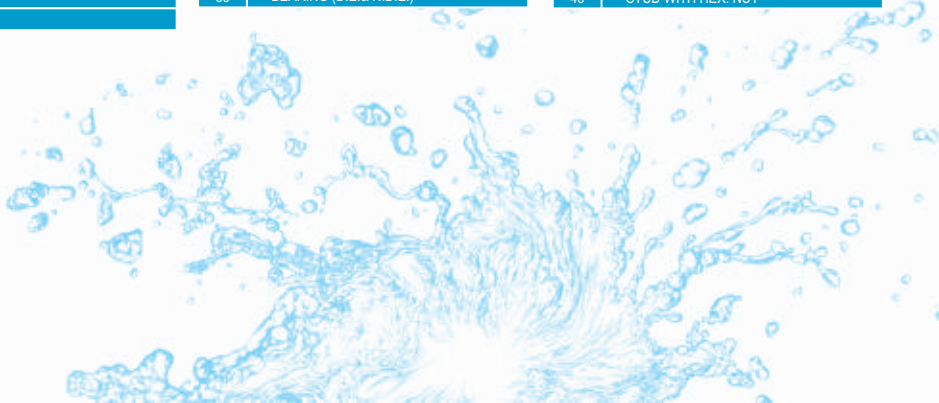




31	GASKET
28A	GASKET(BODY (UPPER TO BODY LOWER)
18	IMPELLER KEY
18	SLINGER
16	WEAR RING
11	BEARING HOUSING (DE)
10	SHAFT
9	BRG. COVER(DE&NDE)
6	SLEEVE
2	IMPELLER
1	BODY

45B	AIR COCK/PLUG TOP
45A	A PRIMING FUNNEL WITH COCK
44	STUD WITH NUTS
43	STUD WITH NUTS (Upper+Lower Body)
41	DRAINPLUG
39	PLUG
37	BRG. LOCK NUT (L.H.)
36	BRG. LOCK WASHER
35	O-RING
33	BEARING (D.E & N.D.E.)

183	MECHANICAL SEAL ASSY.
182	SEAL PLATE
165	CHUCK NUT (2No.R.H.&2 No. L.H.)
163	BEARING HOUSE (NDE)
162	BRG. HOUSING CAP/BRACKET
112	DOWEL PIN
56	RIVET (NAME PLATE)
48	DRAIN PLUG
47	HEX. HD CAP SCREW
46	STUD WITH HEX. NUT





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