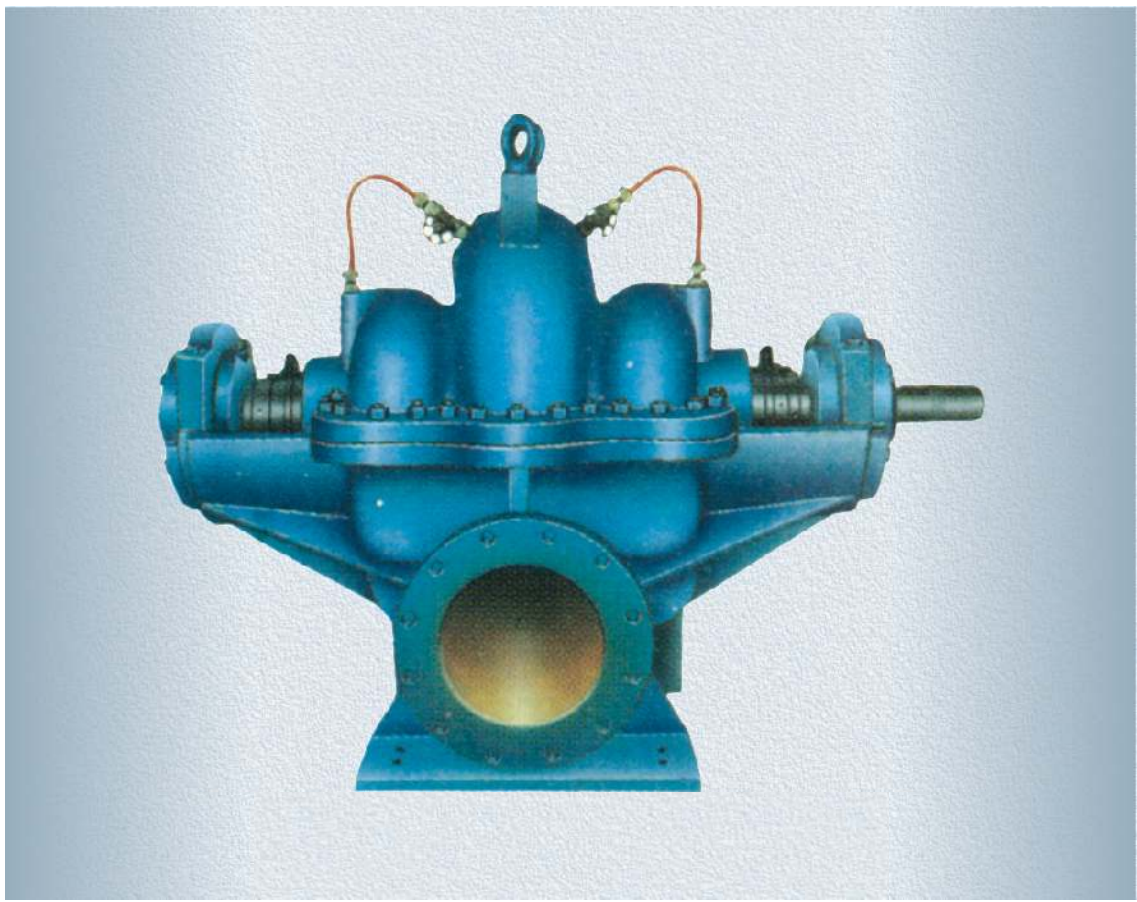




Jyoti Ltd.

Water • Power • Progress

Jyoti Horizontal Split- Casing Pumps



To give The Best Pump for
your needs today

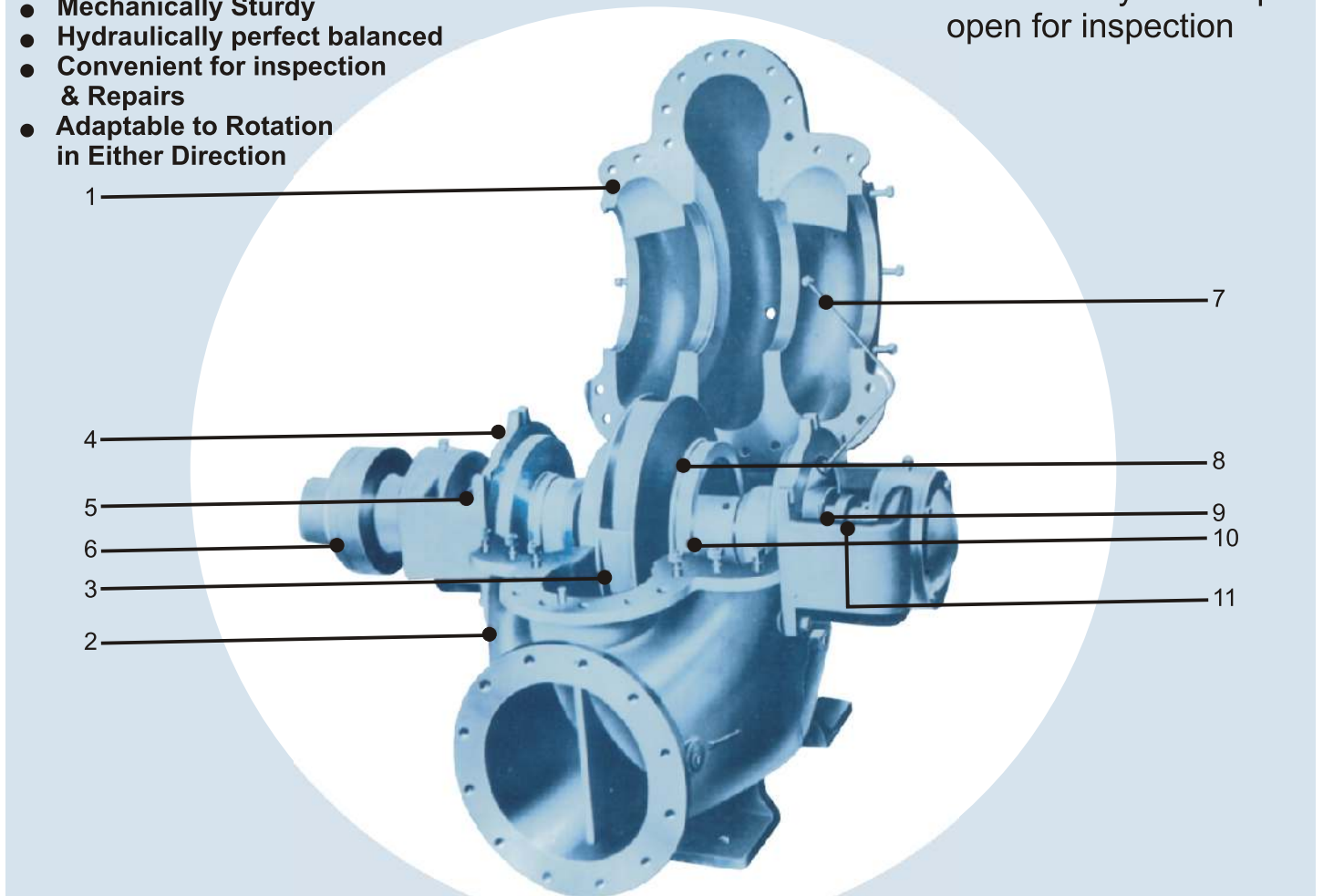
ISO 9001:2015 || TUV INDIA



'Jyoti' horizontal split-casing pump

- Superior performance
- Mechanically Sturdy
- Hydraulically perfect balanced
- Convenient for inspection & Repairs
- Adaptable to Rotation in Either Direction

Standard 'Jyoti' Pump - open for inspection



1. CASING UPPER HALF

Top portion of the casing, horizontally split along the central axis. Facilitates dismantling, inspection and repairs without the necessity of disturbing the existing suction and delivery pipe connections, driver or pump alignment.

2. CASING LOWER HALF

Bottom portion of the casing, horizontally split along the central axis. Incorporates suction and delivery nozzles cast integrally. Suction passage bifurcated to provide 'double suction'

(Clearly seen in the illustration.)

3. IMPELLER

Has double inlet and hence 'double suction'. This feature eliminates end thrusts and provides hydraulic balance. Balanced accurately on a very sensitive dynamic, electronic balancing machine to ensure freedom from vibrations. Impeller is keyed to shaft and secured by adjustable shaft sleeve.

4. STUFFING BOX-CUM-BEARING HOUSE

Works as a stuffing box, housing gland packing and lantern ring. Also as internal bearing house for ball bearings.

5. BEARING HOUSING RUBBER PACKING RING

Stops leakage. Ring stays intact while assembling And dismantling.

6. FLEXIBLE COUPLING SET

For direct coupled drives. Liberally designed to transmit desired power. Incorporates rubber bushing or rubber pads.

COMPONENTS - Not Exposed

(1) Shaft

Accurately machined high grade steel shaft of ample size ensures freedom from vibration. Protected by sleeves on both sides. Replacement practically unnecessary.

(2) Casing Ring.

Replaceable at nominal cost. Minimizes hydraulic leakage losses.

(3) Ball-Bearing

Liberally specified, symmetrically spaced, heavy, anti-friction, deep-grooved/ self-aligning type ball-bearings impart mechanical sturdiness and enhance the pump life.

(4) Lantern Ring

Helps in uniform distribution of the lubricating medium to the packing, transmits gland pressure to remote rings and protects packing from direct impact of the pressurized coolant liquid.

(5) Gland Packing

Graphite asbestos packing of high quality, filled in the stuffing box, makes for efficient sealing. Two sets of rings inserted on either side of the centrally located lantern ring.

(6) Priming Plug

It facilitates to prime the pump before starting.

(7) Air Cock

For releasing air entrapped in the casing.

7. TUBE FOR STUFFING BOX

Conducts cooling water of the pump casing into The stuffing box.

8. LABYRINTH WEARING RING

Replaceable at nominal cost, restoring original clearances. Forms a seal against water leakage and protects the casing from wear. Provided in all pumps.

9. GLAND

Horizontally split into two halves to facilitate its easy Insertion and removal without necessitating dismantling of other components.

10. SHAFT SLEEVE

Protects the shaft from direct action of the pumped liquid. Is renewable at a nominal cost and obviates the costly replacement of the shaft.

11. SHAFT SLEEVE NUT

Ensures, proper butting of shaft sleeve and shaft collar faces and prevents air leakage. Also works as a water deflector preventing gland leakage from entering the bearing housing

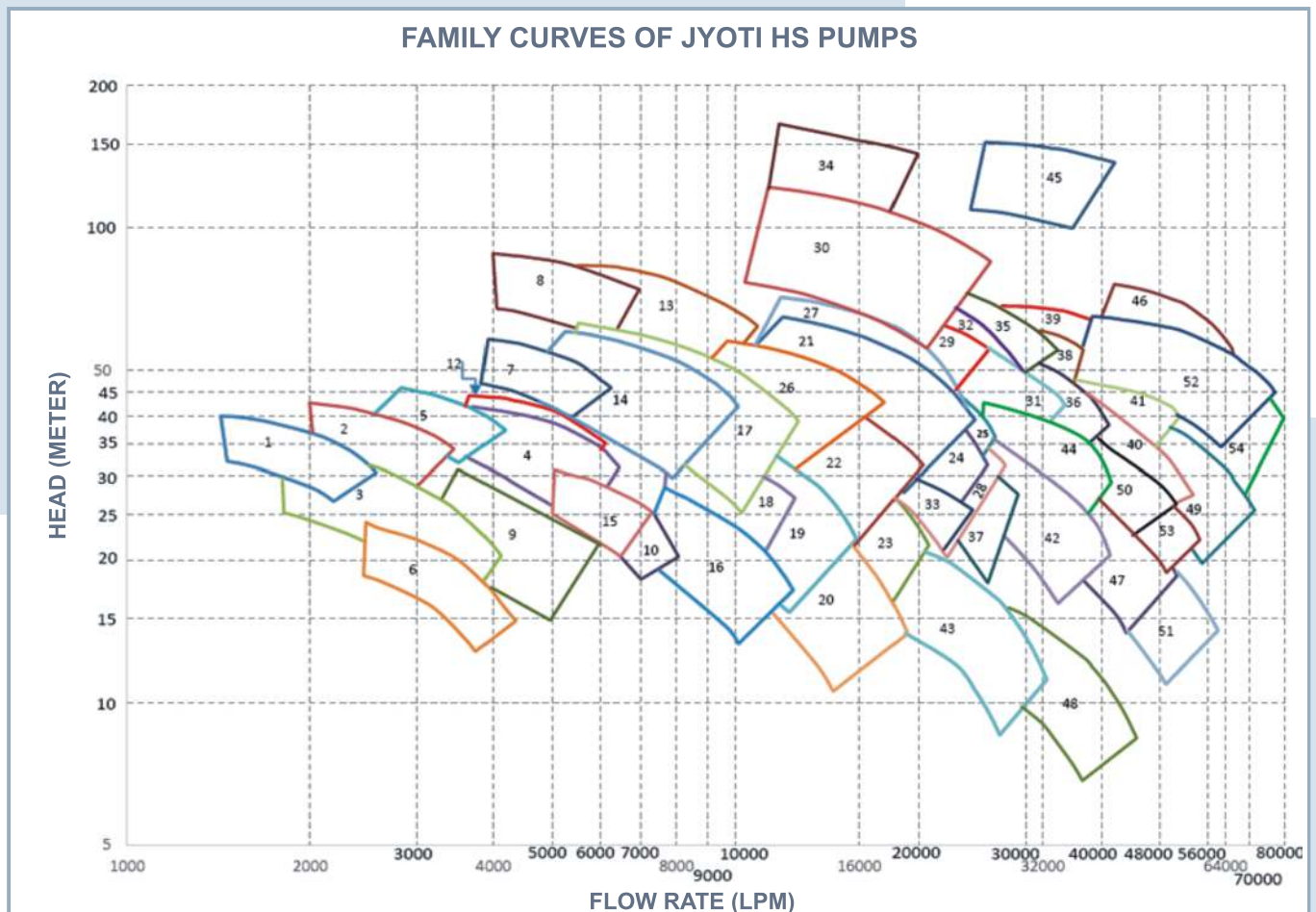
Material of Construction

The following materials are used in the construction of our standard pumps and this specification may be changed to suit special conditions.

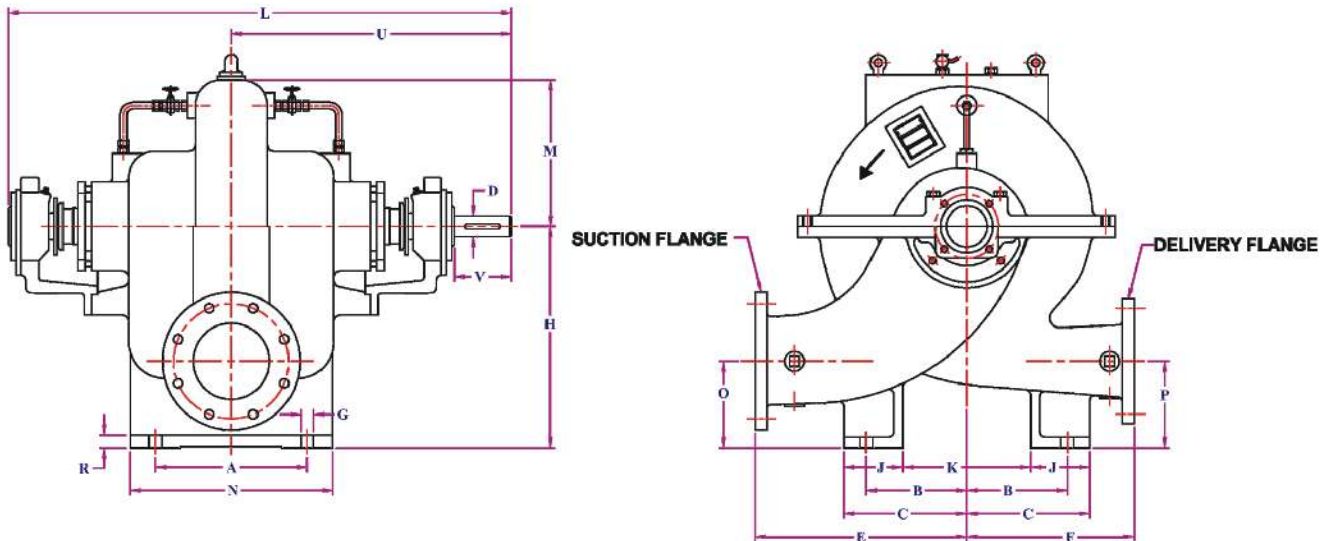
Code No.	01	02	03	04
Part Name	Std. fitted with C.I. (Cast Iron) Impeller	Bronze fitted with C.I. Impeller	Std. fitted with Bronze Impeller	Bronze fitted with Bronze Impeller
Casing	C.I.	C.I.	C.I.	C.I.
Impeller	C.I.	C.I.	Bronze	Bronze
Casing Ring	C.I.	Bronze	Bronze	Bronze
Pump Shaft	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Shaft Sleeve	C.I.	Bronze	C.I.	Bronze
Gland	C.I.	C.I.	C.I.	C.I.
Lantern Ring	C.I. / Aluminium	Bronze	C.I.	Bronze

C.I. = Cast Iron

Special material of construction in Stainless Steel / Alloy Steel can be offered to suit special applications.



GENERAL DIMENSIONS OF JYOTI HORIZONTAL SPLIT CASING PUMP



PUMP SIZE	A	B	C	H	E	F	G	U	K	J*	L*	M*	N*	O	P	R	D	V	SUC.DIA.	DEL.DIA.
125HS4	260	180	220	350	355	295	22	430	200	120	783	240	320	140	127	20	29	78	150	125
125HS5	220	213	250	450	430	340	24	513	260	120	800	286	300	176	182	22	30	80	150	125
150HS2	320	190	230	411	390	343	24	429	180	130	775	260	430	177	177	22	30	80	200	150
150HS3	305	200	240	400	390	320	22	592	180	150	1089	270	385	183	157	22	45	82	200	150
150HS4	280	250	300	530	490	400	26	580	320	140	1035	335	360	208	214	25	45	110	200	150
150HS5	305	200	250	410	415	350	22	540	220	140	940	280	380	167	155	22	45	110	200	150
**																				
200HS2	340	250	300	560	580	465	22	652	320	140	1177	400	430	233	233	22	60	106	200	200
200HS4+	410	275	335	530	500	415	22	700	370	150	1245	376	500	230	216	35	60	140	250	200
200HS5	290	225	275	500	475	375	22	580	270	140	1035	300	380	225	225	25	45	110	250	200
250HS1	340	300	375	590	550	450	22	771	360	195	1395	440	450	250	225	25	65	140	300	250
250HS2	340	300	375	590	550	450	22	760	330	195	1375	440	450	250	225	25	75	140	300	250

250HS4	500	185	277	560	533	432	24	613	185	135	1135	352	570	243	242	25	52	108	300	250
250HS5	410	275	355	560	584	511	24	618	320	195	1118	360	500	238	238	25	52	110	300	250
250HS7	420	350	430	656	675	632	28	797	400	230	1410	390	560	308	278	30	75	150	350	250
300HS1	400	381	460	670	697	575	28	870	420	250	1582	550	560	270	260	30	75	150	350	300
**																				
300HS2	400	380	450	670	697	615	28	800	420	250	1450	415	560	295	295	35	75	140	350	300
300HS3+	490	320	405	630	630	460	22	853	640	235	1530	435	640	308	271	32	75	140	350	300
300HS4	340	290	365	630	650	540	28	787	430	150	1387	415	480	261	261	25	75	140	300	300
300HS6	360	360	400	710	700	530	28	825	450	176	1450	440	480	317	317	30	75	170	350	300
350HS2	500	381	460	655	650	525	27	945	420	250	1665	495	650	198	300	30	110	210	400	350
350HS3+	450	375	475	800	785	690	30	834	550	200	1504	525	550	327	327	35	75	140	400	350
400HS1	550	400	500	800	785	605	28	1028	500	250	1845	570	700	378	323	32	95	203	450	400
400HS2	480	390	460	710	720	550	33	870	520	200	1555	445	660	370	308	35	75	140	450	400
400HS3	450	375	475	816	785	640	30	755	550	200	1520	505	550	354	354	35	75	140	450	400
450HS2	520	447	537	930	880	750	30	745	625	225	1700	610	700	375	375	35	120	210	500	450
450HS3	520	447	537	848	864	645	30	795	625	225	1800	550	700	419	340	35	85	210	500	450
500HS1	750	475	580	940	915	700	36	1183	600	280	2152	650	900	405	375	40	120	210	600	500
500HS2	745	472	580	955	985	735	28	1185	605	280	2130	633	900	466	375	48	120	180	600	500

+ = Casing integral with bearing house and stuffing box.
 + = These dimensions may vary by 5 mm.

** = Flanges are as per BS:4504 - Table 16/11
 *** = Flanges are as per IS:1538/76

Unless otherwise stated, flanges are as per BS:10 - Table E.

All Dimensions are in mm.
 Direction of Rotation of Pump is clockwise from driving end.
 However, it can be given in anticlockwise direction, if required.



FOR FURTHER ENQUIRIES PLEASE CONTACT BRANCH OFFICES

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