

Estd. 1972

Maxflow Pumps India Pvt. Ltd.

An ISO 9001-2000 Company



HORIZONTAL SPLIT CASING PUMPS

Type : HDS/QH/H/HH



Range

Capacity : Upto 8000 m³/hr

Head : Upto 180 m

Max temp. : 90 C

Applications

Water supply
Power stations
Mine drainage
Fire fighting
Air conditioning plants
Sugar industry
Pulp & Paper industry
Steel Plants
Process and Food industry

Maxflow Horizontal Split Casing Centrifugal Pumps

Type : HDS / H / HH / QH

Maxflow horizontal split casing pumps are axially split in design with construction in single stage, two stage, single or double suction, single or double volute casings depending upon pump design. These pumps have advanced hydraulic design for optimum performance with stable operating characteristics.

Applications

Water supply, Power stations, Mine drainage, Fire fighting, Air conditioning plants, Sugar industry, Paper and pulp, Steel plants, Process and food industry, Irrigation etc.

Range

Capacity up to	8000 m ³ /hr
Head up to	180 m
Deliver size up to	600 mm NB
Max temperature	90 C

Please contact **Maxflow** for requirement beyond above range.

Construction

Horizontal, axially split, volute casing with supporting feet cast integral or separately mounted, depending upon type of pump. Suction and discharge connections cast with lower casing for ease of maintenance. Rotating assembly can be taken out without disturbing pipeline connections.

Impellers are dynamically balanced and arranged to be placed back to back in HH and QH designs for balancing axial hydraulic thrust.

Shafts are made of high tensile alloy or stainless steel, suitable for medium to be handled. These are accurately machined and ground for accurate mounting of impellers and bearings.

Sealing is provided by gland packing or mechanical seals. Shafts are protected by shaft sleeves under stuffing box.

Bearings

Ball or roller bearings with standard grease lubrication.

Drive

Electric motors or IC engines, with direct or belt drive.

Rotation

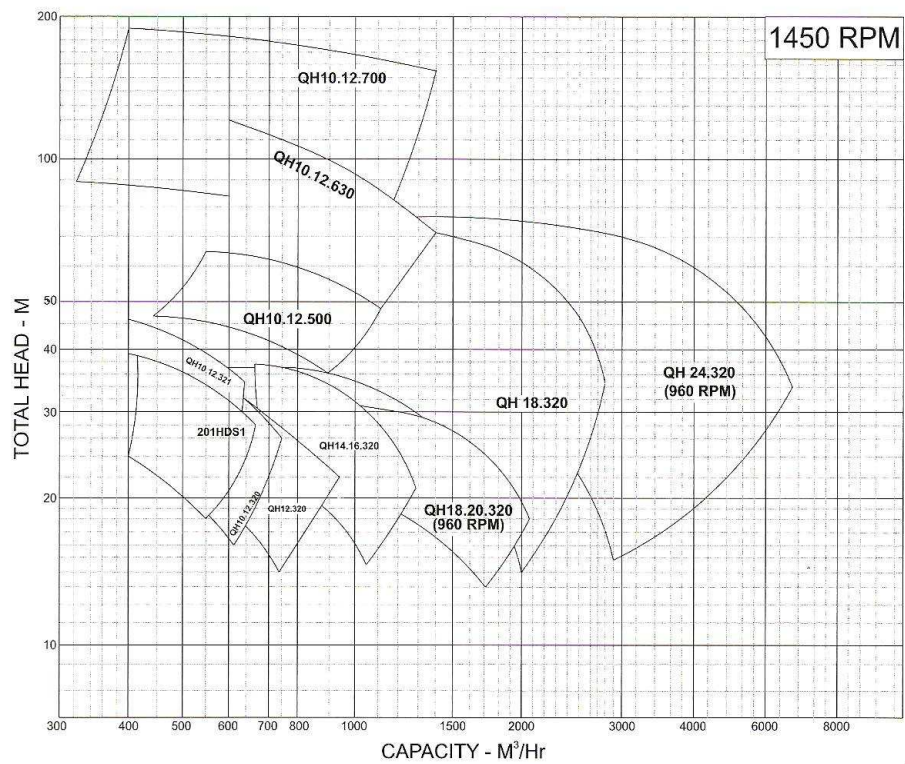
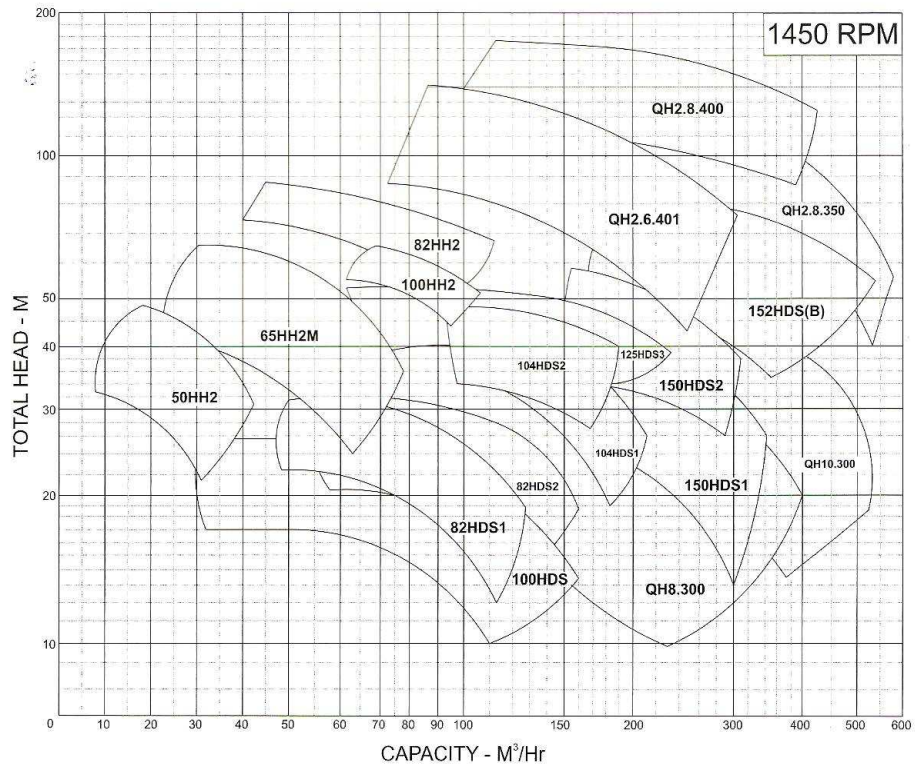
Clockwise or anticlockwise, looking from drive end.

Materials of Construction

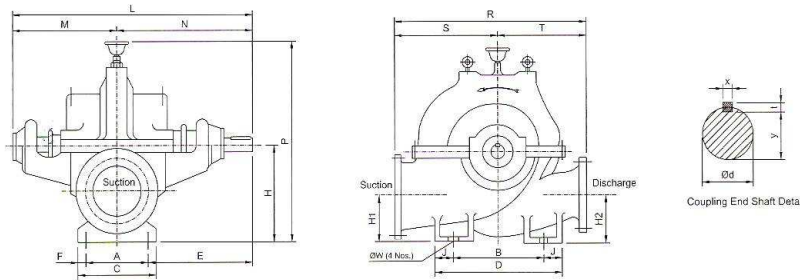
Standard cast iron or bronze fitted with high tensile steel shafts, optionally stainless steel, cast steel, ni-resist casings with shafts in stainless steel.

Flanges: BS: 4504 PN 10/16. DIN/ANSI with suitable ratings can also be provided.

PERFORMANCE RANGE MAXFLOW HORIZONTAL SPLIT CASING PUMP



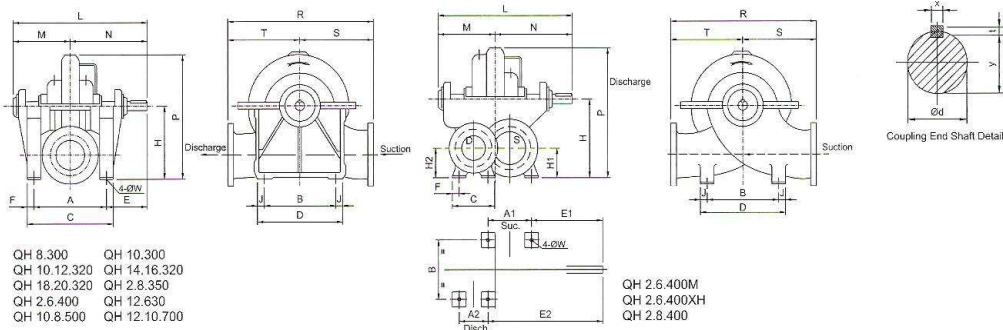
DIMENSIONS - Type HDS



Pump Type	A	B	C	D	E	F	H	H1	H2	J	L	M	N	P	R	S	T	W	d	x	t	y
80 HDS1/80 HDS2	180	160	232	260	283	27	248	102	133	50.8	886	314	372	529	476	257	219	22	24.5	6	6	21.5
80 HDS3	205	290	280	369	266	37.5	360	124.5	124.5	40	670.5	302	368.5	611	535	280	255	22	29.5	8	7	25.5
82 HDS1/82 HDS2	178	235	235	340	284	28.5	238	62	120	52.5	677	305	372	510	569	302	267	22	29.5	8	7	25.5
100 HDS1	290	270	280	350	302	40	315	147	147	40	734	337	397	520	520	305	215	22	28.5	8	6	25
104 HDS1/104 HDS2	305	305	370	435	269	27.5	312	76	152	65	790	345	445	570	635	345	280	22	29.5	8	7	25.5
124 HDS1/124 HDS2	290	290	335	395	226	22.5	305	150	150	52.5	680	309	371	570	599	322	277	22	23	6	6	20
125 HDS3	190	300	280	385	338	45	400	170	170	42.5	823	358	465	660	630	350	280	22	38	10	8	33
150 HDS1/150 HDS2	345	310	406	410	341	30.5	330	102	250	60	930	415	515	720	770	390	380	22	38	10	8	33
152 HDS (B)	330	420	405	500	304	37.5	420	173	177	40	847	378	469	812	805	425	380	22	35	10	8	30
201 HDS1	385	305	445	415	355	30	425	162	178	55	1015	466	549	830	778	448	330	22	42	12	8	37
252 HDS1	380	408	460	530	390	40	515	250	255	61	1035	455	580	900	816	450	366	24	44	12	8	39

Pump Type	Suction Flange					Discharge Flange				
	I.D.	O.D.	P.C.D.	Nos.	Hole	I.D.	O.D.	P.C.D.	Nos.	Hole
80 HDS1/80 HDS2	100	220	180	4	18	80	185	145	4	18
80 HDS3	100	230	180	4	19	80	200	160	4	19
82 HDS1/82 HDS2	125	250	210	8	19	80	185	145	4	19
100 HDS1	125	260	210	8	19	100	230	180	4	19
104 HDS1/104 HDS2	150	280	235	8	19	100	220	180	4	19
124 HDS1/124 HDS2	150	280	235	8	19	125	250	210	8	19
125 HDS3	150	285	240	8	22	125	250	210	8	18
150 HDS1/150 HDS2	200	350	295	8	19	150	285	235	8	19
152 HDS (B)	200	350	295	12	22	150	285	240	8	22
201 HDS1	250	405	355	8	22	200	335	295	8	18
252 HDS1	300	465	400	12	22	250	415	350	12	22

DIMENSIONS - Type QH



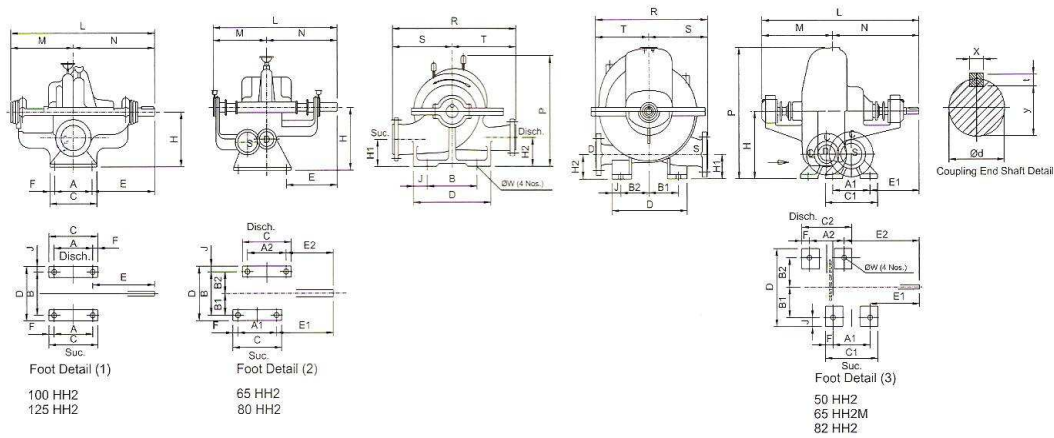
QH 8.300 QH 10.300
 QH 10.12.320 QH 14.16.320
 QH 18.20.320 QH 2.8.350
 QH 2.6.400 QH 12.630
 QH 10.8.500 QH 12.10.700

QH 2.6.400M
 QH 2.6.400XH
 QH 2.8.400

Pump Model	A	A1	A2	B	C	D	E	E	E	F	H	H1	H	J	L	M	N	P	R	S	T	W	d	x	t	y
QH 8.300	420	-	-	340	480	400	175	-	-	40	355	142	142	30	693	308	385	593	700	350	350	23	36	10	8	31
QH 10.300	420	-	-	340	480	400	175	-	-	40	355	100	100	30	693	308	385	593	700	400	400	23	36	10	8	31
QH 10.12.320	705	-	-	400	820	500	214	-	-	60	290	20	20	50	1026	460	566	620	800	400	400	26	50	14	9	44.5
QH 12.630	660	-	-	520	740	660	395	-	-	55	330	-25	-25	65	1293	568	725	807	1260	630	630	26	80	22	14	71.5
QH 14.16.320	784	-	-	400	900	500	218	-	-	60	290	-10	-10	50	1100	486	610	620	950	475	475	24	50	14	9	44.5
QH 18.20.320	750	-	-	700	870	820	425	-	-	60	400	-	-	60	1445	645	800	850	1260	630	630	32	70	20	12	62.5
QH 2.8.350	420	-	-	520	500	600	380	-	-	40	500	240	240	40	1059	469	590	910	850	425	425	26	55	16	10	49
QH 2.6.400	580	-	-	400	700	510	220	-	-	60	290	30	30	90	910	400	510	650	700	350	350	28	48	14	9	42.5
QH 10.8.500	470	-	-	500	550	620	356	-	-	40	605	250	250	60	1075	494	591	965	1100	550	550	26	60	20	12	52.5
QH 10.12.700	450	-	-	880	560	1000	490	-	-	55	700	300	300	75	1292	571	721	1115	1400	700	700	28	80	22	14	71.5
QH 2.6.400M	-	240	240	400	300	500	-	285	425	30	435	175	175	50	913	403	510	793	700	350	350	22	48	14	9	42.5
QH 2.6.400XH	-	310	310	470	380	570	-	263	413	35	510	217	217	50	957	425	532	913	788	394	394	22	48	14	9	42.5
QH 2.8.400	-	270	230	540	546	650	-	624	428	45	525	215	215	55	1074	482	592	1015	910	455	455	22	60	20	12	52.5

Pump Model	Suction Flange					Discharge Flange				
	I.D.	O.D.	P.C.D.	Nos.	Hole	I.D.	O.D.	P.C.D.	Nos.	Hole
QH 8.300	200	340	295	12	22	200	340	295	12	22
QH 10.300	250	405	350	12	22	250	405	350	12	22
QH 10.12.320	300	445	400	12	23	250	395	350	12	23
QH 12.630	400	620	550	16	36	350	555	490	16	33
QH 14.16.320	400	565	515	16	26	350	505	460	16	23
QH 18.20.320	500	715	650	20	28	450	640	585	20	28
QH 2.8.350	250	450	370	12	30	200	375	310	12	22
QH 2.6.400	150	285	240	8	22	150	285	240	8	22
QH 10.8.500	250	405	355	12	26	200	340	295	12	22
QH 10.12.700	300	485	430	16	30	250	425	370	12	30
QH 2.6.400M	200	340	295	12	22	150	285	240	8	22
QH 2.6.400XH	200	340	295	12	22	150	285	240	8	22
QH 2.8.400	250	425	355	12	26	200	340	295	12	22

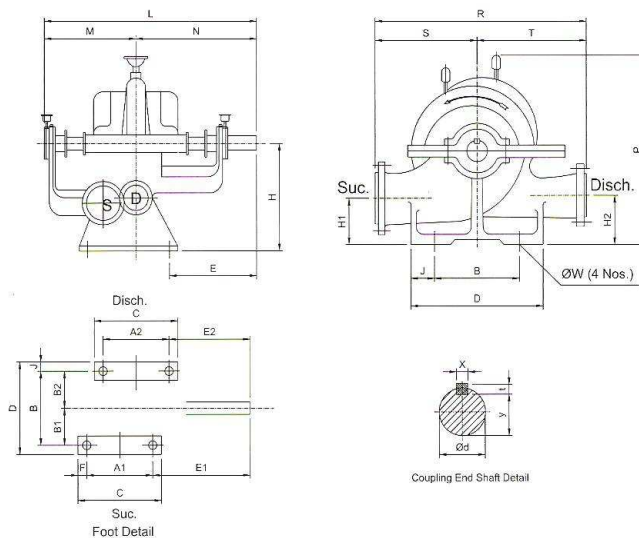
DIMENSIONS - Type HH 2



Pump Model	A	A1	A2	B	B1	B2	C	C1	C2	D	E	E1	E2	F	H	H1	H2	J	L	M	N	P	R	S	T	W	d	x	t	y
50 HH 2	-	120	120	245	105	140	160	160	160	325	-	310	415	20	260	93	97	40	730	335	395	800	470	220	250	19	28.5	8	7	24.5
65 HH 2	-	260	260	280	140	140	320	-	-	350	-	251	251	22.5	254	98	86	35	681	314	367	566	499	242	257	19	25	6	6	21.5
65 HH2M	-	170	160	265	135	130	-	240	230	345	-	227	345	35	300	108	108	40	724	327	397	583	515	245	271	22	28	6	6	24.5
80 HH2	-	310	310	280	140	140	395	-	-	365	296	-	-	42.5	320	108	108	42.5	811	360	435	619	575	285	290	19	34.5	10	8	29.5
82 HH2	-	160	160	300	150	150	-	205	205	400	-	313	423	22.5	295	120	120	50	855	385	468	685	570	265	305	19	34	10	8	29
100 HH2	330	-	-	330	-	-	400	-	-	425	366	-	-	35	325	-	-	35	966	436	530	780	797	396	401	19	43	12	8	38
125 HH2	350	-	-	350	-	-	406	-	-	508	393	-	-	25	380	158	158	76	1036	465	545	819	712	356	356	20	44.5	14	10	39

Pump Model	Suction Flange					Discharge Flange				
	I.D.	O.D.	P.C.D.	Nos.	Hole	I.D.	O.D.	P.C.D.	Nos.	Hole
50 HH2	65	185	145	4	18	50	165	125	4	18
65 HH2	80	185	145	4	19	65	165	125	4	19
65 HH2M	80	200	160	4	18	65	185	145	4	18
80 HH2	100	220	180	4	19	80	190	145	4	19
82 HH2	125	255	210	8	18	100	225	180	8	18
100 HH2	125	250	210	8	19	100	220	180	4	19
125 HH2	150	280	232	8	18	125	240	210	8	18

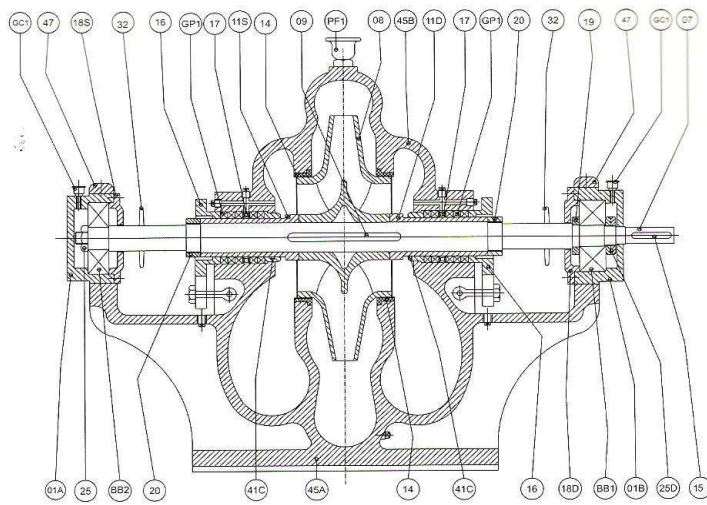
DIMENSIONS - Type H 1



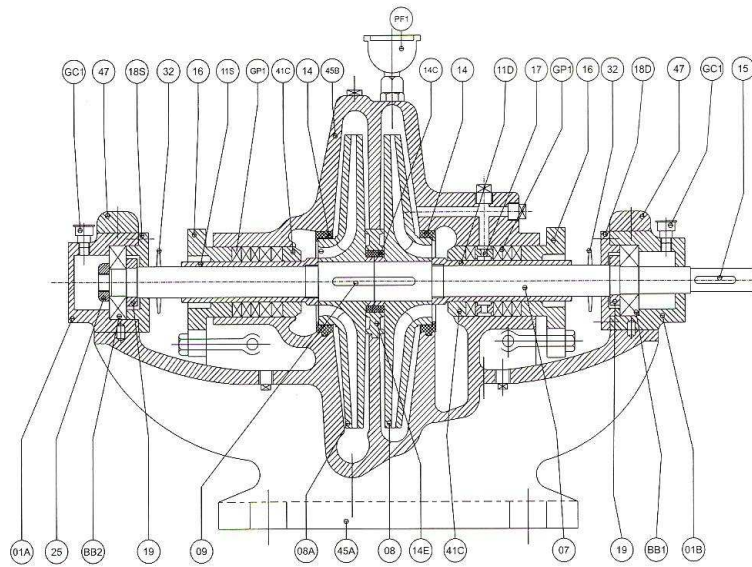
Pump Model	A	A1	A2	B	B1	B2	C	C1	C2	D	E	E1	E2	F	H	H1	H2	J	L	M	N	P	R	S	T	W	d	x	t	y
65 H1	-	210	210	265	140	125	254	-	-	350	-	262	217	25	254	98	86	35	595	273	322	520	461	228	233	19	25	6	6	21.5
80 H1	-	195	230	280	140	140	270	-	-	370	-	331	261	37	300	140	108	45	725	333	375	585	554	266	288	19	34.5	10	8	29.5

Suction Flange					Discharge Flange				
I.D.	O.D.	P.C.D.	Nos.	Hole	I.D.	O.D.	P.C.D.	Nos.	Hole
80	185	145	4	19	65	165	125	4	19
100	220	180	4	19	80	185	145	4	19

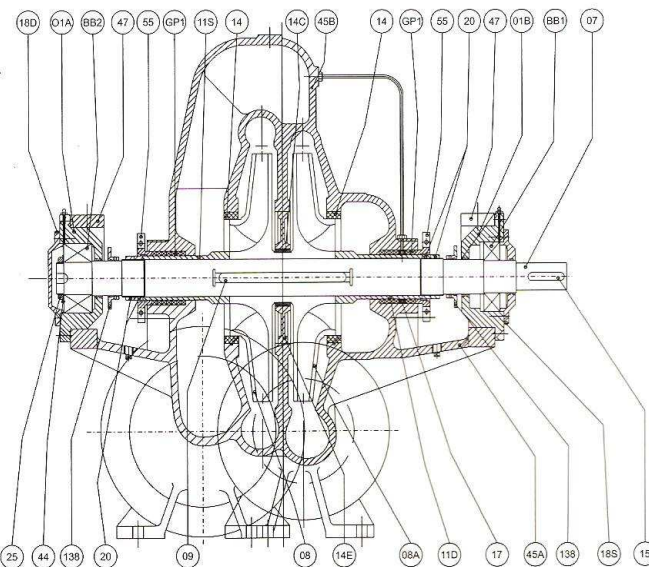
SECTIONAL DRAWINGS



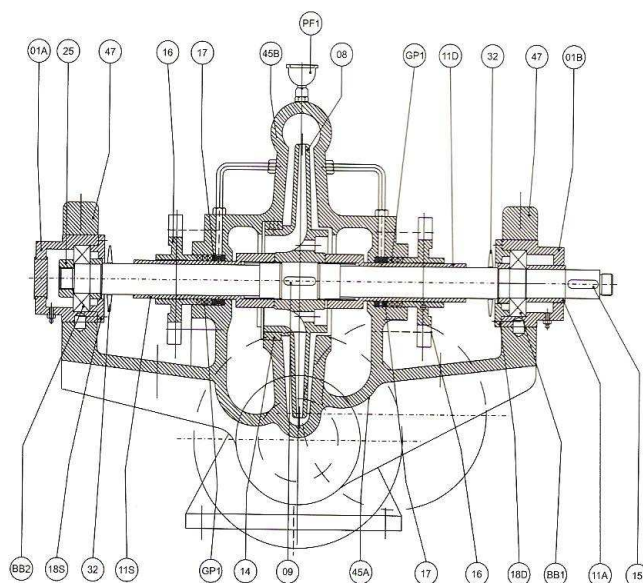
Type - HDS1



Type - HH2



Type - QH



Type - H1

PARTS LIST FOR SPLIT CASING PUMPS

Part No.	Description	Qty.
01A	Bearing Housing (NDE)	1
01B	Bearing Housing (DE)	1
07	Pump Shaft	1
08	Impeller	1
08A	Impeller	1
09	Impeller Key	1
11A	Distance Sleeve	1
11D	Shaft Sleeve (DE)	1
11S	Shaft Sleeve (NDE)	1
14	Casing Wearing Ring	2
14C	Center Ring Bush	2
14E	Center Ring	2
15	Coupling Key	1
16	Gland Flange	2
17	Lantern Ring	2
18D	Bearing Cover (DE)	1
18S	Bearing Cover (NDE)	1

Part No.	Description	Qty.
19	Bearing Collar	2
20	Sleeve Nut	2
25	Bearing Nut (NDE)	1
25D	Bearing Nut (DE)	1
32	Splash Ring	2
41C	Stuffing Box Bush	2
44	Lock Nut & Washer	1
45A	Pump Casing (Lower Half)	1
45B	Pump Casing (Upper Half)	1
47	Bracket	2
55	Split Gland Flange	2
138	Water Deflector	2
BB1	Ball Bearing (DE)	2
BB2	Ball Bearing (NDE)	2
GC1	Grease Cup	2
GP1	Gland Packing	-
PF1	Priming Funnel	1

* Fasteners Not Shown in Drawing

OUR PUMP RANGE



Vacuum Pump
Capacity : upto 2500m³/hr
upto 710 mm hg



Non Clog Pump
Capacity : upto 2000m³/hr
Head upto 45 m



Back Pull out Pump
Capacity: upto 700m³/hr
Head upto 140 m



Vertical Sump Pump
Capacity : upto 600m³/hr
Head upto 100 m



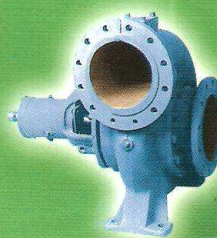
Multistage Pump
Capacity : upto 700m³/hr
Head upto 600 m



Self Priming Pump
Capacity : 300m³/hr
Head upto 50 m



Split Casing
Capacity : upto 8000m³/hr
Head upto 180 m



Mixflow Pump
Capacity : upto 6000m³/hr
Head upto 40 m



Maxflow Pumps India Pvt. Ltd.



An ISO 9001:2000 Company

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