



**EH SERIES**  
**END SUCTION HORIZONTAL**



**DURAFLO PUMP®**

## PERFORMANCE

Discharge diameter : DN32~ 300mm  
 Capacity range : 4.5 ~ 1660 m<sup>3</sup>/h  
 Head range : 5.2~ 150m  
 Speed : 1450r/min & 2900r/min (50Hz), 60Hz speed can be operated  
 Working pressure : 1.6Mpa (special designed can reach 2.5 Mpa)  
 Working temperature: -10 °C ~ 105 °C (over the temperature please contact us)

## MATERIAL

NAME	MATERIAL
Casing, Casing Cover, Wear ring	Cast iron ASTM A48 / Bronze, ASTM B584 / Stainless Steel ASTM 744-CF8 / CF8M
Impeller	Cast iron ASTM A48 / Bronze, ASTM B584 / Stainless Steel ASTM 744-CF8 / CF8M
Shaft	Stainless Steel ASTM A276 420/316
Seal	Packed Gland/ Mechanical seal

Notice: Other special material to ASTM,DIN,JIS Standard can be supplied upon request

## APPLICATION

Use in air - condition system, boiler water supplying, cool water circulation, water supplying for pressure - booster, fire protection sprinkling system, circulation of industrial water, carry the liquids which is similar to clean water. manufacturing process area.

## DESIGN CHARACTER

High efficiency power-save: Using perfect hydraulic model design, pump get high anti-causticity , wide high efficiency area.

Back pulled out design: according to DIN24255 convenient to maintenance, can pull out the rotor parts instead of disassembly suction and discharge pipe when repairing.

Wide parts usage: all series are more than 50 types, only use six types of shaft, high interchangeability.

Special design: According to the requirement, can supply NFPA 20 fire protection pump. Flow passage can use ceramic epoxy coating technic to improve efficiency and durability.

## STRUCTURE

Casing: Feet supporting, helix casing, the flange can be bored according to metric or USA standard.

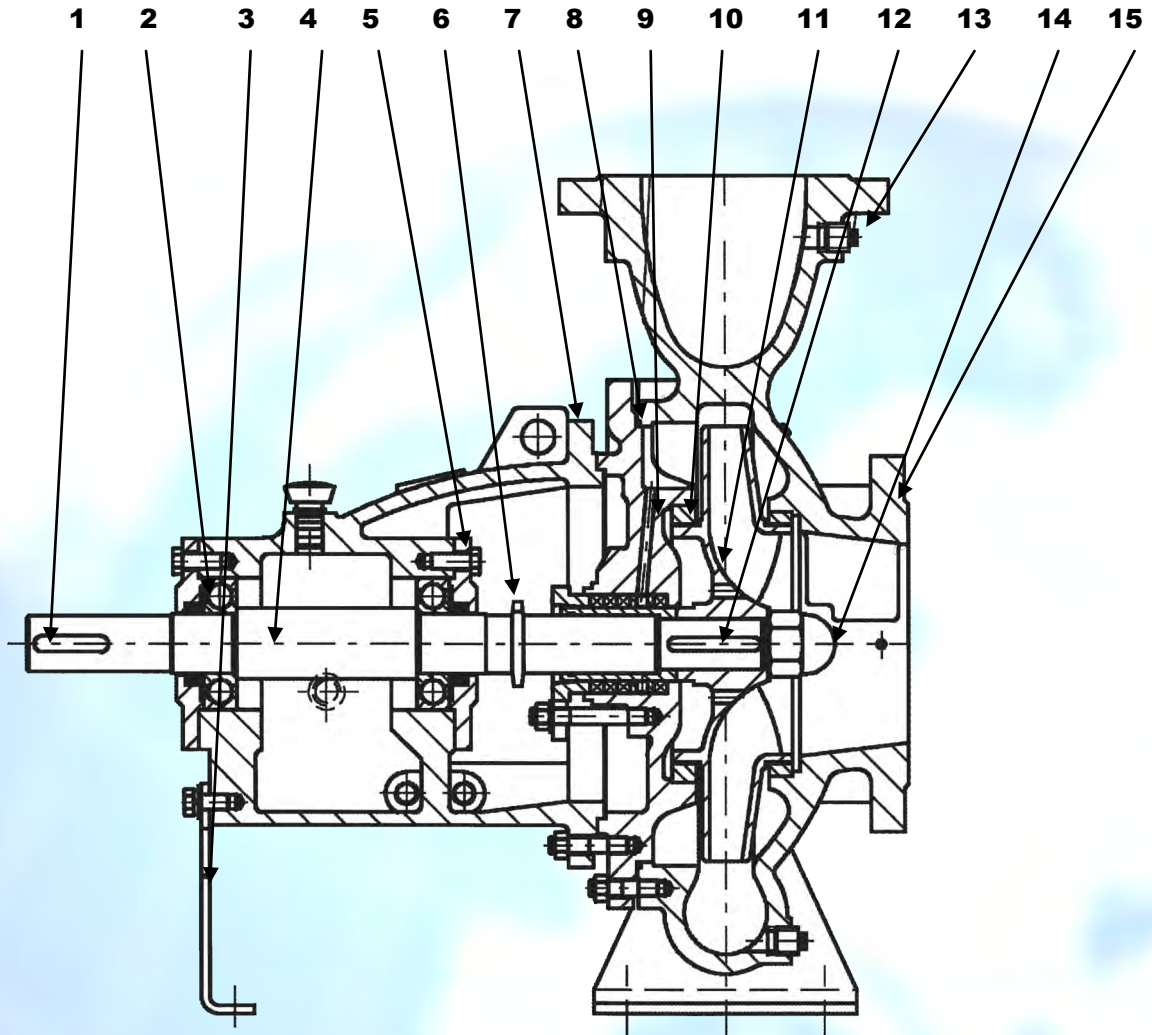
Impeller: Closed impeller, using perfect hydraulic model design to guarantee the performance and efficiency and do the balance testing.

Shaft seal: Normally using mechanical seal, if special requirement, packing gland is also valid.

Bearings: Normally greased lubrication if special requirement oil lubrication can be provided.

Motor: Using high efficiency power-save motor, lower noise and vibration, Also can use explosion protection motor or special motor according to the requirement.

**STRUCTURE DRAWING**



- |                |                    |                 |                  |                  |
|----------------|--------------------|-----------------|------------------|------------------|
| 1 Coupling key | 2. Bearing         | 3. Support foot | 4. Shaft         | 5. Bearing cap   |
| 6. Thrower     | 7. Bearing housing | 8. O ring       | 9. Casing cover  | 10. Wearing ring |
| 11. Impeller   | 12. Impeller key   | 13. Plug        | 14. Impeller nut | 15. Coupling key |

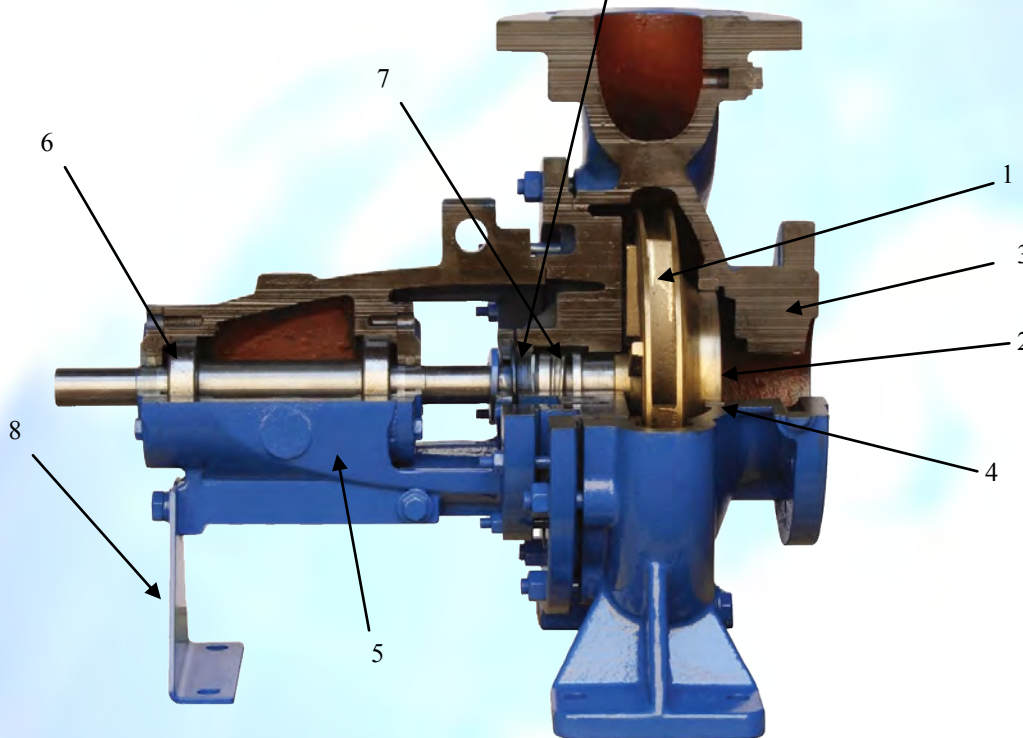
Notice: Special Heavy Duty Bearings can be supplied upon request.



**FEATURES**

**Stuffing Box**

Standard stuffing box included gland packing with a lantern ring incorporating high pressure internal flushing. External flush can be fitted and pump can be supplied with a mechanical seal. Conversion from packed box to mechanical seal and back to packing is easy. All pumps that can operate at 2 pole speed have a close tolerance stuffing box bush fitted.



**1. Impeller :**  
Shrouded type is hydraulically balanced, positively driven by shaft key and axially locked between sleeve and impeller nut.

\* Opened type Impeller is available

**2. Shaft :**  
Shafts are stainless steel and only 6 sizes are needed to cover all 50 pump models . A domed lock nut secures the impeller.

**3. Casing :**  
The cast volute casing is of robust design with integrally cast feet, vertical top centerline discharge with axial suction incorporating cast inlet vane to give best flow to impeller eye.

**4. Wear Rings :**  
Replaceable wear rings are fitted as standard to all casings and also to back covers on larger pumps which reduces maintenance time and cost.

**5. Bearing Housing :**  
Rugged cast iron construction with only six bearing housings covering complete range of pumps which gives many common interchangeable parts.

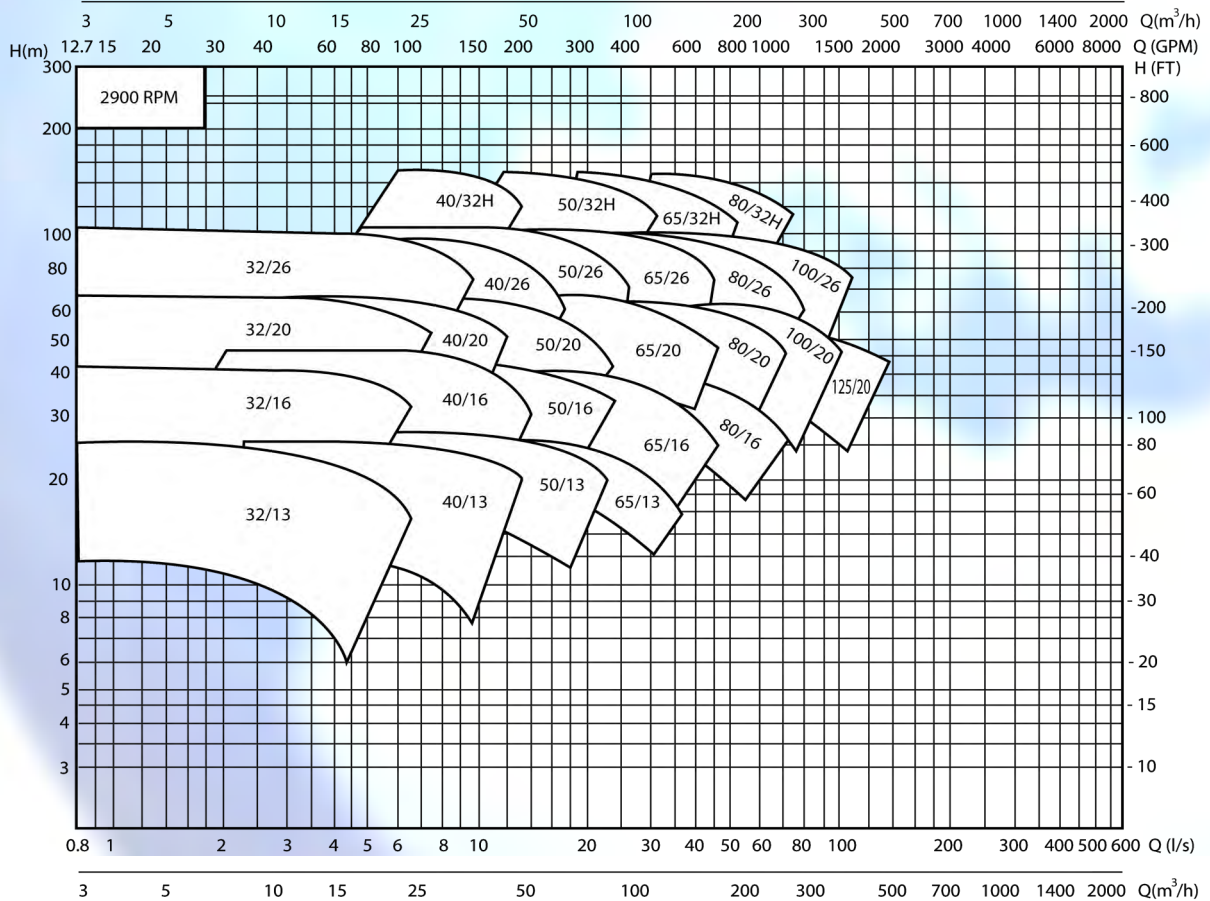
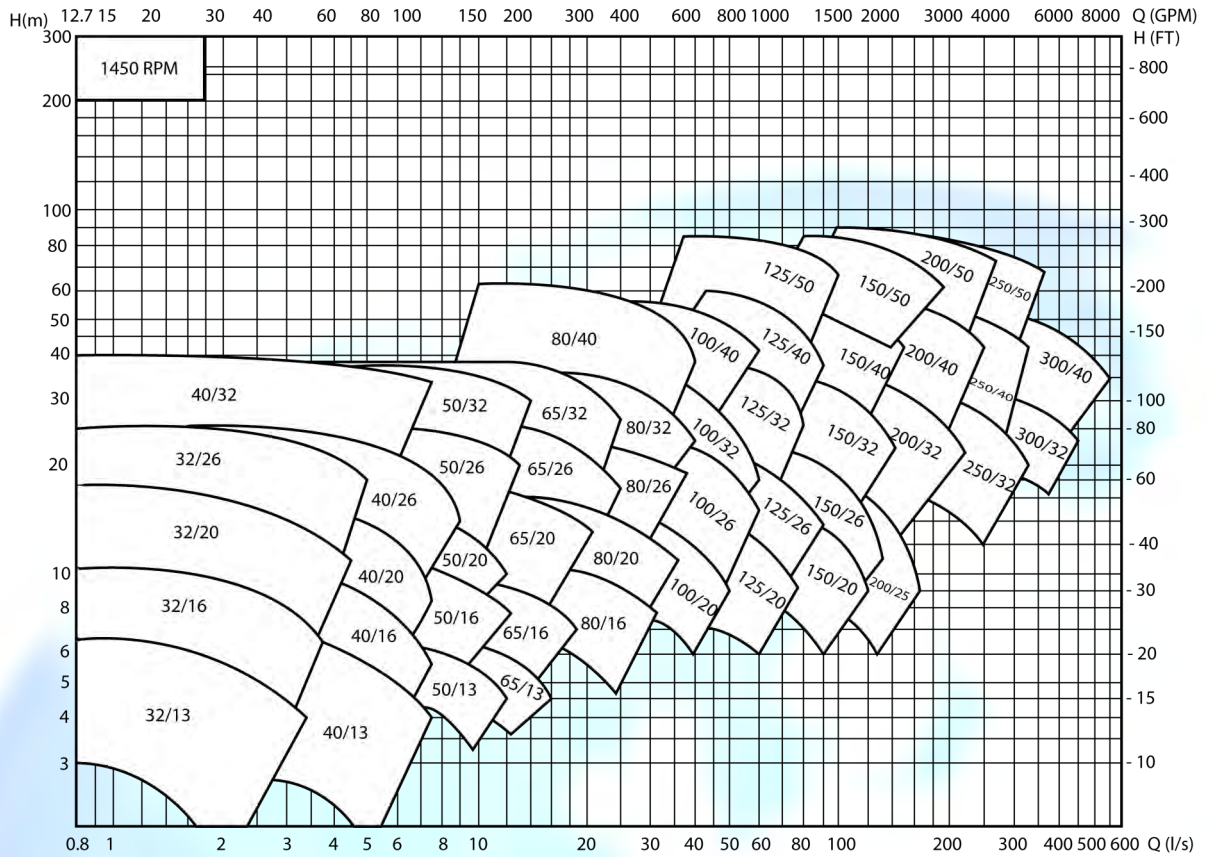
**6. Bearing :**  
Bearings are grease lubricated - regreasable. Also have oil lubricated bearings and for this arrangement the housing includes an oil level sight glass and vent.

**7. Shaft Sleeve :**  
fully machined hook type shaft sleeve prevents shaft damage under the gland packing which substantially reduces maintenance costs.

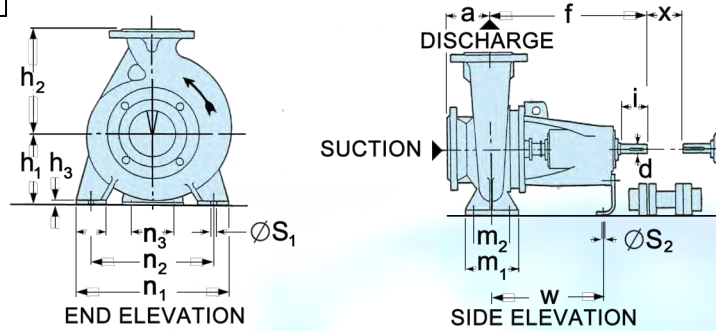
**8. Support Foot :**  
Each pump has a removable support foot fitted at the drive end for greater rigidity.

DURAFLO range conforms to both performance and dimension of International Standard DIN 24255

## SELECTION CHART



## DIMENSION



PUMP SIZE	BEARING HOUSING	SUCTION	DISCHARGE	PUMP DIMENSIONS				FOOT DIMENSIONS									
				a	f	h1	h2	b	m1	m2	n1	n2	n3	h3	$\varnothing S_1$	$\varnothing S_2$	w
32-13	25	50	32	80	360	112	140	50	100	70	190	140	100	14	14	14	267
32-16	25	50	32	80	360	132	160	50	100	70	240	190	100	14	14	14	267
32-20	25	50	32	80	360	160	180	50	100	70	240	190	110	14	14	14	267
32-26	25	50	32	100	360	180	225	65	125	95	320	250	110	14	14	14	267
40-13	25	65	40	80	360	112	140	50	100	70	240	190	100	14	14	14	267
40-16	25	65	40	80	360	132	160	50	100	70	265	212	100	14	14	14	267
40-20	25	65	40	100	360	160	180	50	100	70	265	212	110	14	14	14	267
40-26	25	65	40	100	360	180	225	65	125	95	320	250	110	14	14	14	267
40-32	35	65	40	125	470	200	250	67	125	95	350	280	110	16	14	14	342
40-32H	35H	65	40	125	470	200	250	67	125	95	350	280	110	16	14	14	342
50-13	25	65	50	100	360	132	160	50	100	70	240	190	100	14	14	14	267
50-16	25	65	50	100	360	160	180	50	100	70	265	212	110	14	14	14	267
50-20	25	65	50	100	360	160	200	50	100	70	265	212	110	14	14	14	267
50-26	25	65	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267
50-32	35	65	50	128	470	225	280	65	125	95	350	280	110	16	14	14	267
50-32H	35H	65	50	128	470	225	280	65	125	95	350	280	110	16	14	14	267
65-13	25	80	65	100	360	160	180	65	125	95	280	212	110	14	14	14	267
65-16	25	80	65	100	360	160	200	65	125	95	280	212	110	14	14	14	267
65-20	25	80	65	100	360	180	225	65	125	95	320	250	110	14	14	14	267
65-26	25	80	65	100	470	200	250	80	160	120	360	280	110	16	18	14	342
65-32	35	80	65	125	470	225	280	80	160	120	400	315	110	16	18	14	342
65-32H	35H	80	65	125	470	225	280	80	160	120	400	315	110	16	18	14	342
80-16	25	100	80	125	360	180	225	65	125	95	320	250	110	14	14	14	267
80-20	35	100	80	125	470	180	250	65	125	95	345	280	110	14	14	14	342
80-26	35	100	80	125	470	200	280	80	160	120	400	315	110	16	18	14	342
80-32	35	100	80	125	470	250	315	80	160	120	400	315	110	16	18	14	342
80-32H	35H	100	80	125	470	250	315	80	160	120	400	315	110	16	18	14	342
80-40	45	100	80	125	530	280	355	80	160	120	440	355	110	18	18	14	370
100-20	35	125	100	125	470	200	280	80	160	120	360	280	110	16	18	14	342
100-26	35	125	100	140	470	225	280	80	160	120	400	315	110	16	18	14	342
100-32	35	125	100	140	470	250	315	80	160	120	400	315	110	16	18	14	342
100-40	45	125	100	140	530	280	355	100	200	150	500	400	110	18	23	14	370
125-26	35	150	125	140	470	250	355	80	130	120	400	315	110	16	18	14	342
125-32	45	15	125	140	530	280	355	100	200	150	500	400	110	18	23	14	370
125-40	45	150	125	140	530	315	400	100	200	150	500	400	110	18	23	14	370
150-32	45	200	150	160	530	280	400	100	200	150	550	450	110	18	23	14	370
150-40	45	200	150	160	530	315	450	100	200	150	550	450	110	18	23	14	370

\* The other pump sizes can be supplied the individual dimension drawing upon request.



### Flange Data

### Dimensions in mm

BRANCH SIZE	FLANGE		RAISED FACE		DRILLING*			BOLTIN G
	D	b	d <sub>1</sub>	F	No.	d <sub>2</sub>	k	
32	140	18	78	2	4	18	100	M16
40	150	18	88	3	4	18	110	M16
50	165	20	102	3	4	18	125	M16
65	185	20	122	3	4	18	145	M16
80	200	22	138	3	8	18	160	M16
100	220	24	158	3	8	18	180	M16
125	250	26	188	3	8	18	210	M16
150	285	26	212	3	8	22	240	M16
200	340	30	268	3	12	22	295	M16

Flange Dimensions and drilling according to ISO 2084 - 16 BAR (BS4504 - 1969 TABLE 16/11.)

\* Holes - Equally spaced straddling pump center line.



Distributor