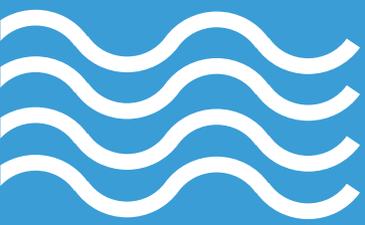


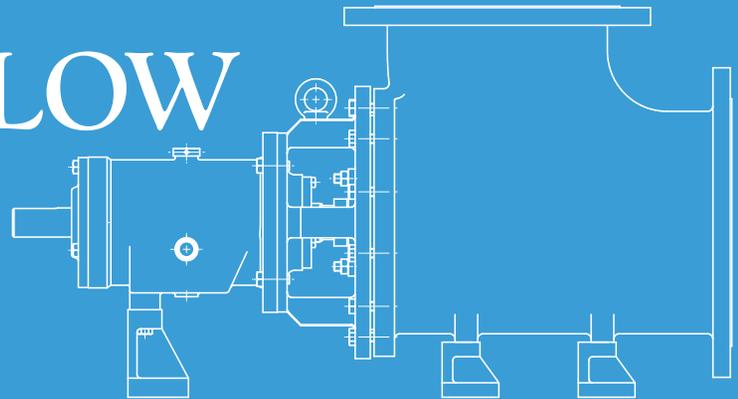


# PT. SINAR CENDANA ABADI JAYA

- Chemical • Petrochemical
- Nuclear Power Plants • Refinery • Fertilizer
- Paper • Food & Beverages • Evaporation & Effluent Treatment Plants • Slurries



## AXIAL FLOW PUMPS





## Axial Flow Pumps

### APPLICATION

The CHEM-PROOF Axial Flow pump is unmatched in the industry for high volume / Low head pumping requirements, especially when corrosive and / or abrasive solutions are involved. Mainly used in the following application:

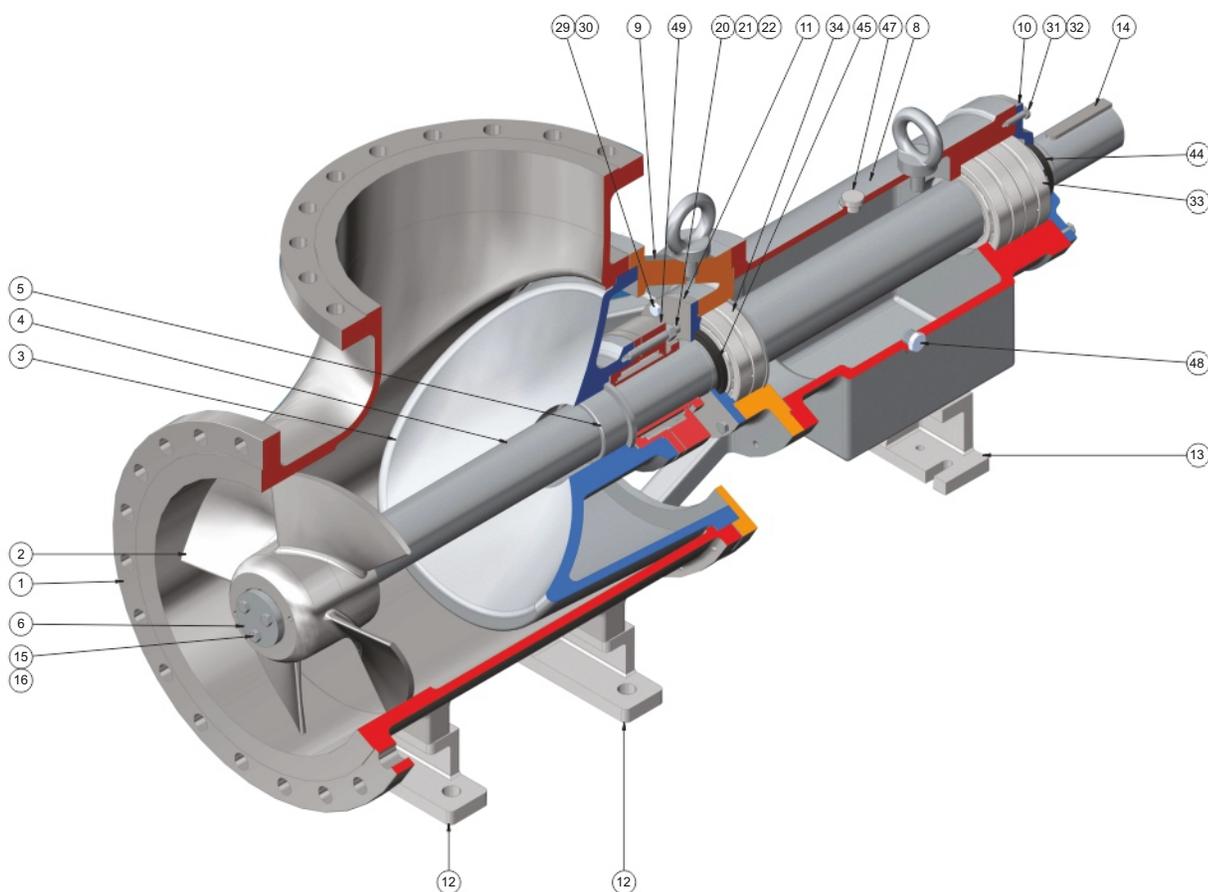
- **Evaporator and Crystallizer Circulation**
- **Phosphate, Soda Ash, Potash and Sodium Chloride Processing**
- **Polypropylene Reactors, Xylene application**
- **Black Liquor Evaporator, Chlorine Dioxide Generators**
- **Sewage Digesters**
- **Raw Water pumping, Flood control, Marine Ballast transfer**

### DESIGN

The Axial Flow pump generates flow by the thrust or lift action of rotating axial vanes of the impeller. The pump has an elbow that directs the flow through the suction and out the discharge end of the pump. It can be used in the top or end suction configuration depending up on the need and Flange dimensions, bolt circle and holes comply with ANSI B16.5, 150#. The back pull out design allows for easy maintenance and repair as the rotating element may be removed without disturbing the pipe work. Pump has wear rings as standard and lifting eye on bearing bracket.

### OPERATING DATA

<b>Pump size</b>	5 inch to 36 inch (DN 125 to 900)
<b>Flow up to</b>	20,000 m <sup>3</sup> / hr
<b>Head up to</b>	9 meter
<b>Temperature up to</b>	300° C
<b>Max. working Pressure</b>	10 Bar



## Part List

## Model: Axial Flow Pump

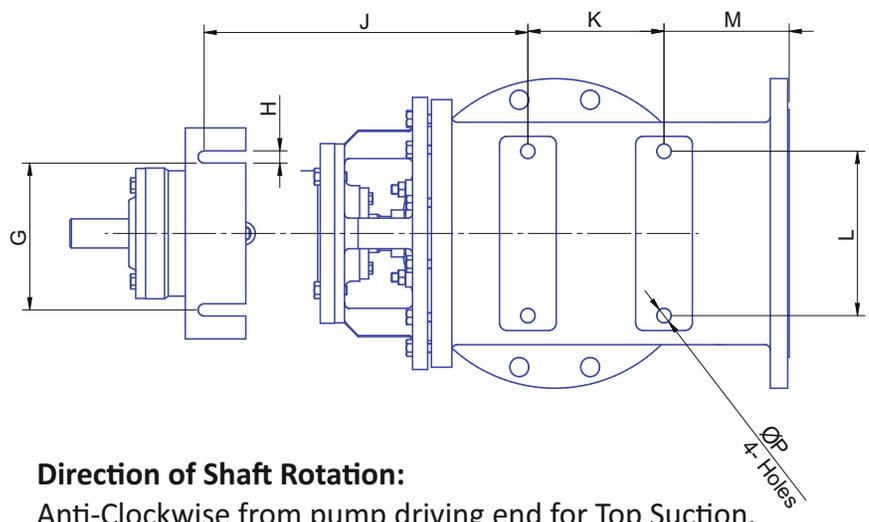
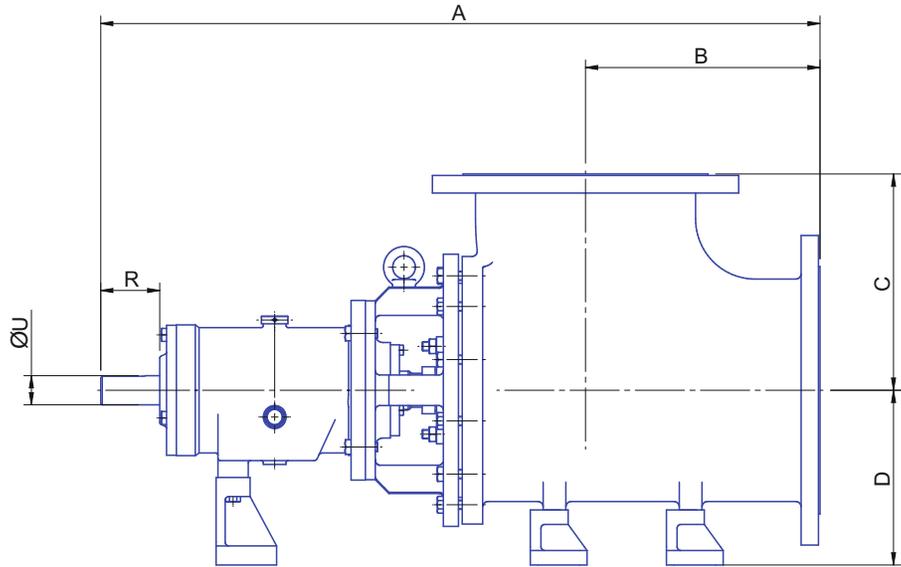
Sr.No.	Part	Qty	MOC						
			CS	CF8	CF8M	CF3M	CN7M	CD4MCuN	Super Duplex
1	Casing	1	CS	CF8	CF8M	CF3M	CN7M	CD4MCuN	Super Duplex
2	Impeller	1	CS	CF8	CF8M	CF3M	CN7M	CD4MCuN	Super Duplex
3	Stuffing	1	CS	CF8	CF8M	CF3M	CN7M	CD4MCuN	Super Duplex
4	Sha?	1	SS 410	SS 304	SS 316	SS 316L	Alloy 20	SS 2205	SS 2507
5	Sintered Bush (Optional)	1	Std						
6	Impeller Washer	1	SS 316			SS 316L	Alloy 20	SS 2205	SS 2507
7*	Key	1	SS 316			SS 316L	Alloy 20	SS 2205	SS 2507
8	Bearing Housing	1	CI						
9	Lantern	1	WCB						
10	Bearing Cover	1	CI						
11	Bearing Cover	1	CI						
12	Support Foot Casing	2	WCB						
13	Foot Support BH	1	CI						
14	Key	1	MS						
15	Hex. Head Bolt	3	SS 316						
16	Washer	3	SS 316						
17*	Stud	4	SS 316						
18*	Hex. Nut	4	SS 316						
19*	Washer	4	SS 316						
20	Stud	4	SS 316						
21	Hex. Nut	4	SS 316						
22	Washer	4	SS 316						
23*	Hex. Head Bolt	12*	SS 316						
24*	Washer	12*	SS 316						
25*	Hex. Head Bolt	2	MS						
26*	Washer	2	MS						
27*	Hex. Head Bolt	6*	MS						
28*	Washer	6*	MS						
29	Hex. Head Bolt	4*	MS						
30	Washer	4*	MS						
31	Hex. Head Bolt	6*	MS						
32	Washer	6*	MS						
33	Bearing	2	Std						
34	Bearing	1	Std						
35*	Bearing Lock Washer	1	Std						
36*	Bearing Lock Nut	1	Std						
37*	Internal Circlip	1	Std						
38*	Internal Circlip	1	Std						
39*	Gasket	1	Oil Paper						
40*	Gasket	1	PTFE						
41*	Gasket	1	PTFE						
42*	Gasket	1	PTFE						
43*	Deflector	1	PTFE						
44	Oil Seal	1	Std						
45	Oil Seal	1	Std						
46*	Square Head Plug	1	Std						
47	Breather Plug	1	Std						
48	Oil Level Indicator	1	Std						
49	Mechanical Seal	1	Std						

**Note :** Part Sr. No. marked " \* " are not visible in assembly  
Qty marked " \* " may change depending on pump size.

Any material of construction is available on request.



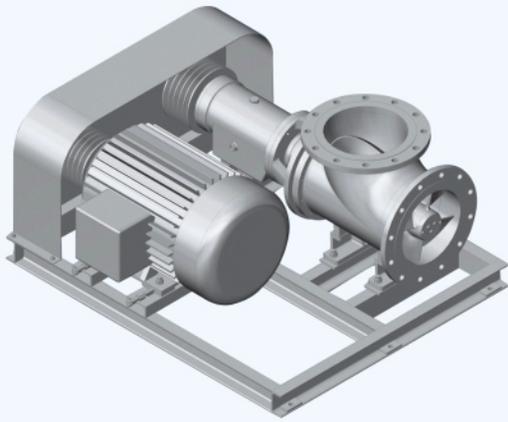
# CPAF



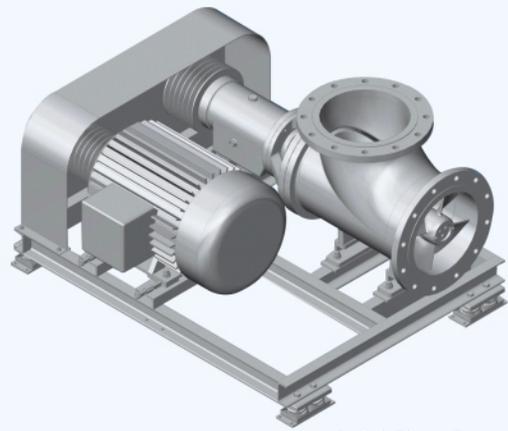
**Direction of Shaft Rotation:**  
Anti-Clockwise from pump driving end for Top Suction.

Model	Dimensions													
	A	B	C	D	G	H	J	K	L	M	ØP	R	ØU	Weight,kg
CPAF-6	808	197	156	229	200	16	385	133	125	84	16	75	38.1	125
CPAF-8	858	257	190	229	200	16	415	152	161	119	16	75	38.1	160
CPAF-10	950	310	283	229	200	16	420	180	215	171	19	75	38.1	200
CPAF-12	1306	345	266	279.4	200	16	630	235	250	160	19	100	57.2	325
CPAF-14	1380	444.5	335	279.4	200	16	670	285	300	165	19	100	57.2	380
CPAF-16	1590	510	421	330	200	16	705	325	340	242	24	127	66.5	570
CPAF-20	1960	535	480	400	225	19	815	406	385	279	32	160	85	915
CPAF-24	2315	760	575	430	225	19	1060	425	470	340	32	160	85	1350
CPAF-30	2775	945	635	560	325	28	1800	635	670	445	32	235	115	2366
CPAF-36	2910	1015	715	660.5	425	40	2030	720	750	500	40	235	130	3686

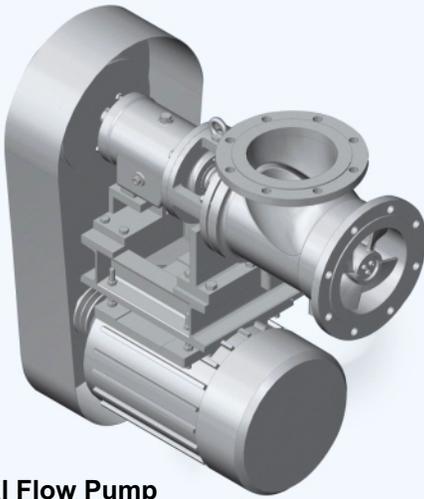
Note: All dimensions are in mm



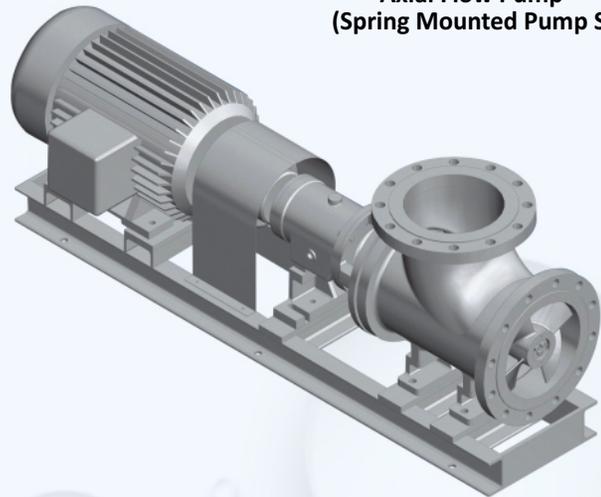
**Axial Flow Pump  
(Standard Pump Set)**



**Axial Flow Pump  
(Spring Mounted Pump Set)**



**Axial Flow Pump  
(Overhung Pump Set)**



**Axial Flow Pump  
(Direct Coupled Pump Set)**

### FAMILY CURVE

