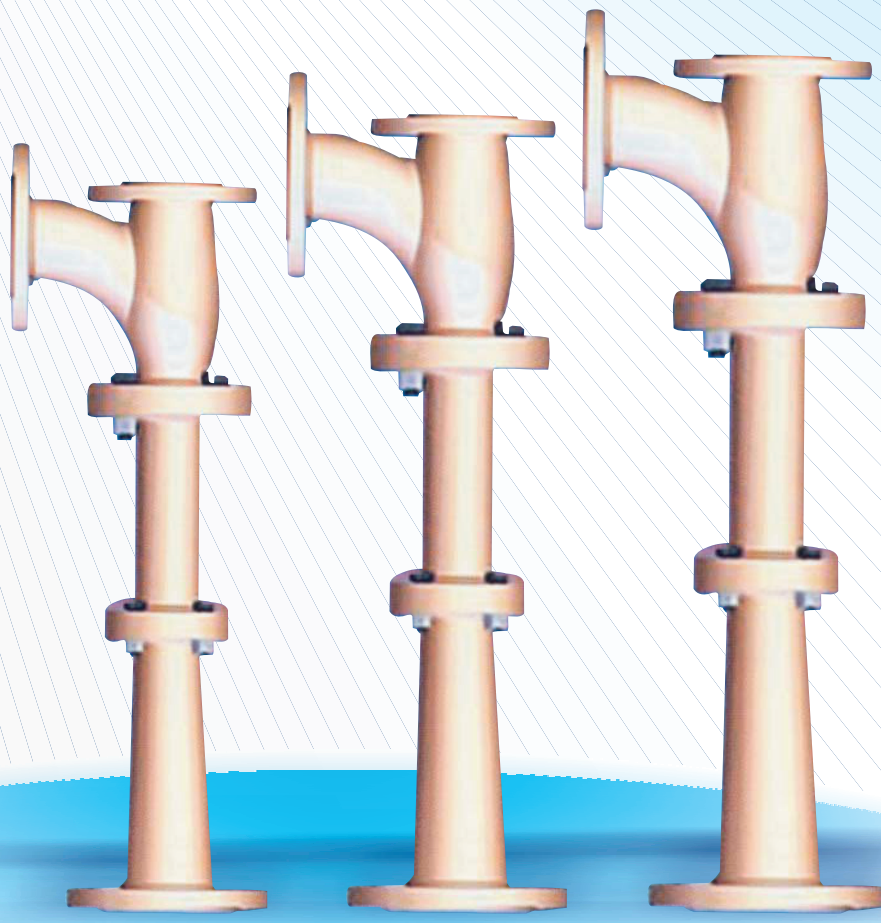
CP MARINE JET PUMP



VERSA® PUMP

ISO 9001-2008

GENERAL

Jet pump is an equipment which use a high pressure actuating fluid to transport and compress a weight of induced fluid from the suction pressure to the exit pressure. The actuating fluid may be a gas, vapor or liquid. The secondary fluid can also be liquid, vapor, gas, water-air mixture or a medium with impurities.

Jet pump which uses water as actuating fluid is water ejector.

Jet pumps have no movable parts, need no mechanical drive and are designed in simple structure and simple to handling. Jet pumps are relative small size and light weight, have strong suction capability and lift height.

Principle of Operation of Jet Pump

The actuating fluid is expanded through a nozzle and accelerated from its initial entrance velocity to a high velocity. In the suction chamber, the actuating fluid induces a region of low pressure-high velocity flow which causes the secondary fluid to become entrained and mixed with the actuating fluid. During the mixing process, the actuating fluid is retarded and the secondary fluid is accelerated. As the mixture enters the diffuser, it is compressed to the exit pressure by rapid deceleration.

Model Code Example

CP - 100 - 0.7 T

- Marine Jet Pump
- Capacity m^3/h
- Working Liquid Pressure MPa
- T – shape Suction - Discharge Centerline

DESIGN FEATURES

Rugged and Simple The main parts of a jet pump are suction chamber ,driving nozzle, mixing chamber and diffuser。

Installation Suction centerline is perpendicular to the pump centerline, thus easy to install and maintain.

Long-term Operating Life No movable parts, high reliability, long-term operating life and less maintenance requirements.

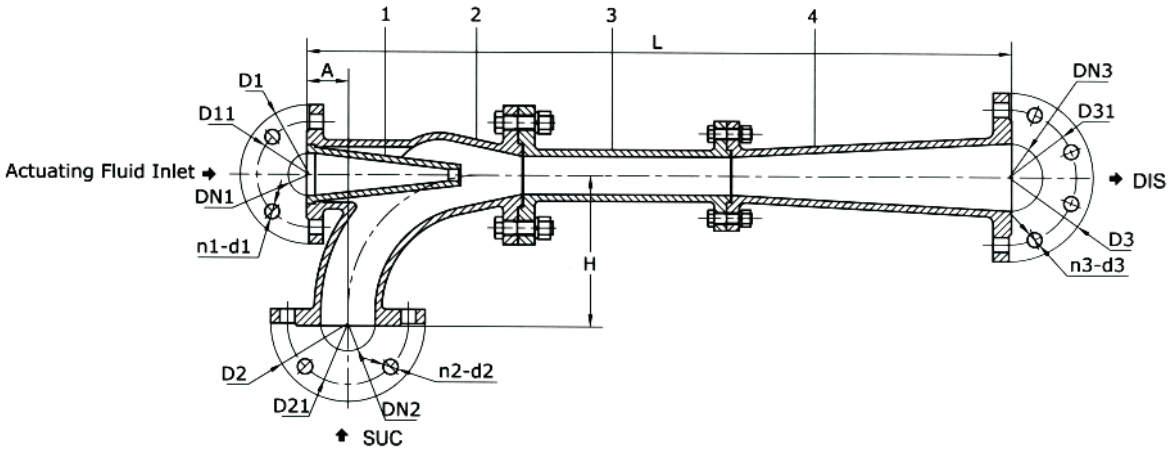
Self-priming Ability By the convey effect generated after the nozzle, the jet pump displays outstanding self-priming power.

Less Seal Problem No-moving parts design eliminates the dynamic seal problem. Thus, jet pump can handle hazardous liquids, such as toxic, explosive and radiotoxic medium.

PERFORMANCE

Pump Model	Capacity Q_2 (m^3/h)	Actuating Fluid		Suction Lift h_1 (m)	Discharge Pressure P_2 (MPa)	Pump Weight (kg)
		Pressure P_1 (MPa)	Capacity Q_1 (m^3/h)			
CP5-0.3T	5	0.3	6	4	0.05	19.5
CP10-0.3T	10	0.3	12	4	0.05	23.5
CP15-0.3T	15	0.3	19	4	0.05	28
CP20-0.3T	20	0.3	24	4	0.05	31
CP30-0.3T	30	0.3	36	4	0.05	50
CP40-0.3T	40	0.3	47	4	0.05	49.5
CP50-0.3T	50	0.3	55	3	0.06	75
CP100-0.3T	100	0.3	110	3	0.06	94.5
CP5-0.7T	5	0.7	3.6	4	0.08	14
CP10-0.7T	10	0.7	7	4	0.08	20
CP15-0.7T	15	0.7	27	4	0.15	25.5
CP20-0.7T	20	0.7	14	4	0.08	28.5
CP30-0.7T	30	0.7	21	4	0.08	32
CP50-0.7T	50	0.7	35	4	0.08	48
CP60-0.7T	60	0.7	50	6	0.06	55.5
CP80-0.7T	80	0.7	90	5	0.10	75
CP100-0.7T	100	0.7	60	2	0.09	71.5
CP150-0.7T	150	0.7	100	2	0.09	77
CP200-0.7T	200	0.7	120	2	0.09	106
CP100-0.7G	100	0.7	90	5	0.09	77
CP60-0.4T	60	0.4	50	4	0.02	55
CP15-0.5T	15	0.5	25	7	0.11	28
CP10-1.0T	10	1.0	16.7	5	0.2	16
CP50-1.0T	50	1.0	64	5	0.2	52
CP100-0.2T	100	0.2	305	3	0.07	120

PARTS MATERIAL & DIMENSIONS



No.	Part Name	Material	No.	Part Name	Material
1	Nozzle	Stainless steel	3	Mixing Chamber	Silicon Bronze
2	Suction Chamber	Silicon Bronze	4	Diffuser	Silicon Bronze

Pump Model	L	A	H	D1	D11	DN1	n1-d1	D2	D21	DN2	n2-d2	D3	D31	DN3	n3-d3
CP5-0.3T	573	38	150	140	100	30	4-ϕ18	165	125	50	4-ϕ18	165	125	50	4-ϕ18
CP10-0.3T	723	48	160	150	110	40	4-ϕ18	185	145	65	4-ϕ18	185	145	65	4-ϕ18
CP15-0.3T	734	56	160	165	125	50	4-ϕ18	185	145	65	4-ϕ18	200	160	80	8-ϕ18
CP20-0.3T	844	30	180	165	125	50	4-ϕ18	185	145	65	4-ϕ18	200	160	80	8-ϕ18
CP30-0.3T	1095	102	216	185	145	65	4-ϕ18	220	180	100	8-ϕ18	220	180	100	8-ϕ18
CP40-0.3T	1095	102	216	185	145	65	4-ϕ18	220	180	100	8-ϕ18	220	180	100	8-ϕ18
CP50-0.3T	1314	56	273	200	160	80	8-ϕ18	250	210	125	8-ϕ18	250	210	125	8-ϕ18
CP100-0.3T	1601	130	300	250	210	125	8-ϕ18	315	270	175	8-ϕ22	285	240	150	8-ϕ22
CP5-0.7T	392	56	110	115	85	25	4-ϕ14	165	125	50	4-ϕ18	140	100	32	4-ϕ18
CP10-0.7T	535	53	150	140	100	32	4-ϕ18	165	125	50	4-ϕ18	165	125	50	4-ϕ18
CP15-0.7T	734	56	160	165	125	50	4-ϕ18	185	145	65	4-ϕ18	200	160	80	8-ϕ18
CP20-0.7T	801	50	160	165	125	50	4-ϕ18	185	145	65	4-ϕ18	200	160	80	8-ϕ18
CP30-0.7T	778	45	198	165	125	50	4-ϕ18	200	160	80	8-ϕ18	185	145	65	4-ϕ18
CP50-0.7T	971	110	250	185	145	65	4-ϕ18	220	180	100	8-ϕ18	200	160	80	8-ϕ18
CP60-0.7T	1200	92	210	200	160	80	8-ϕ18	250	210	125	8-ϕ18	250	210	125	8-ϕ18
CP80-0.7T	1314	56	273	200	160	80	8-ϕ18	250	210	125	8-ϕ18	250	210	125	8-ϕ18
CP100-0.7T	1273	104	260	200	160	80	8-ϕ18	285	240	150	8-ϕ22	250	210	125	8-ϕ18
CP150-0.7T	1346	135	185	200	160	80	8-ϕ18	285	240	150	8-ϕ22	285	240	150	8-ϕ22
CP100-0.7G	1346	135	185	200	160	80	8-ϕ18	285	240	150	8-ϕ22	285	240	150	8-ϕ22
CP200-0.7T	1895	102	290	250	210	125	8-ϕ18	340	295	200	8-ϕ22	340	295	200	8-ϕ22
CP60-0.4T	1314	56	273	200	160	80	8-ϕ18	250	210	125	8-ϕ18	250	210	125	8-ϕ18
CP15-0.5T	734	56	160	165	125	50	4-ϕ18	185	145	65	4-ϕ18	200	160	80	8-ϕ18
CP10-1.0T	515	67	108	165	125	50	4-ϕ18	165	125	50	8-ϕ18	185	145	65	4-ϕ18
CP50-1.0T	1092	126	129	200	160	80	8-ϕ18	250	210	125	8-ϕ18	250	210	125	8-ϕ18
CP100-0.2T	1850	175	240	340	295	200	8-ϕ22	340	295	200	8-ϕ22	395	350	250	12-ϕ22

OTHER PUMP PRODUCTS PERFORMANCE

Pump Model		Capacity Q m^3/h	Head H m	Motor Type	Speed n rpm	Shaft Power N kW	Motor Power kW	Suc. Lift Hs m	Suc. Size D1 mm	Dis. Size D2 mm	Pump Weight W kg
ZX	ZX60-75	60	75		3200	20		4	100	80	
	ZX90-45	90	45		2900	18		4.5	100	100	
	ZX110-64	110	64		2900	31.8		5	100	85	
	ZX110-150	110	150		3600	57.4		6	150	150	
	ZX120-100	120	100		3500	50		6	150	100	
	ZX130-90	130	90		3500	38.4		5	125	100	
CWX	1.5CWX-2	3	40	Z_2C-22(D_2/T_2) YH90L-$2B_{35}$	2900	2	2.2	7	40	40	45
	1.5CWX-2A			Z_2C-22(T_2) YH100L_1-$2B_5$							55
	1.5CWX-2B			Z_2C-22(T_2) YH100L_1-$2B_5$							55
	1.5CWX-3	6.5	35	Z_2C-31(D_2/T_2) YH100L-$2B_{35}$		2.2	3.0				45
	1.5CWX-3A			Z_2C-31(T_2) YH100L-$2B_5$							55
	1.5CWX-3B			Z_2C-31(T_2) YH100L-$2B_5$							55
	1.5CWX-4	10	35	Z_2C-32(D_2/T_2) YH112M-$2B_{35}$		2.7	4.0				45
	1.5CWX-4A			Z_2C-32(T_2) YH112M-$2B_5$							55
	1.5CWX-4B			Z_2C-32(T_2) YH112M-$2B_5$							55

OTHER PUMP PRODUCTS PERFORMANCE

Pump Model		Capacity Q m^3/h	Head H m	Motor Type	Speed n rpm	Shaft Power N kW	Motor Power kW	Suc. Lift Hs m	Suc. Size D1 mm	Dis. Size D2 mm	Pump Weight W kg
CL	2CLG-6	20	30	Z_2C-41D_2/L	2900	3	3.5/4.5 /5.5	5	50	40	35
	2CLGN-6										
	2.5CL-4	25	65	Z_2C-52L_3	2900	10	13	6	65	65	90
	2.5CLZ-4A			YH160M_2-2V_1							
			50	Z_2C-61D_2/L		8	8.1/11.5 /11.3	5			47
	2.5CLG-5A	30	30	Z_2C-52D_2/L	2600	5	6.3/7.3 /9.3	5	60	40	65
	3CL-8	50	35	Z_2C-52D_2/L	2900	7.5	13	5	80	80	50
				Z_2C-52D_2/L			10				
				YH160M_1-2V_{15}			11				
	4CL-12	90	30	Z_2C-52L_3	2900	11	13	5	100	80	87
				YH160M_2-2V_1			15				
	4CLG-12			Z_2C-62D_2/L		12	11.2/14 /20		90		69
				YH160M_2C-2B_{35}			15				
	10CL-18	480	30	YH250M-4V_1	1480	49	55	4.5	250	200	320
CBL	6CBLG-7	22/100	120/50		2900	18/25		5	150	100	336
		45/150	110/40			24/28					
		75/180	90/30			31/29					
	100CBL-6J	25/50	160/80	ZBH27/17-45		22/21.5	26/33 /45	5	90	80	230
				Z_2C-71(D_2/L)			30				
				YH200L_1-2V_{15}			30				
	125CBL-6J 125CBL-6M	75/150	160/80	YH250M-2V_1		45/48	55	5	125	100	335
	150CBL-7J 150CBL-7M	45/150	110/40	ZBH27/17-45		25.5/29	26/33 /48	5	150	100	336