

॥ राष्ट्रदेवो भवः ॥



**Falcon**<sup>®</sup>  
A MACHINE FOR MANKIND

Since 1994

# Vertical Multistage Centrifugal Pump

VMP - HR / FLT Series



HRS - SS 304 Bowlset  
(VMP HR SERIES)

SS 304 Sheet Metal Bowlset  
(FLT SERIES)



Booster Substations



HIGH RISE BUILDING



Shopping Complex

Chale Pragati Ki Aur<sup>®</sup>

## Vertical Multistage Centrifugal Pump

### ■ Introduction:

The Falcon FLT Series Vertical Multistage Pumps are non-self-priming. The Pump comes with a standard motor. The inlet and outlet are in the same plane (Inline Type).

The motor is a completely enclosed, fan-cooled, two-pole standard motor. Thermal overload protection is included in single phase motors. For protection, a three-phase motor must be linked to a good starter.

These pumps are available in a wide range of sizes and stages that can provide flow and pressure for various site conditions.

### ■ Application:

- ✓ Cleaning System
- ✓ Fire Fighting System
- ✓ Boosting the main pipeline
- ✓ High Pressure washing system
- ✓ Boosting in high-rise building
- ✓ Industrial process flow water system
- ✓ Cooling and air-conditioning system
- ✓ Boiler water supply and condensing system
- ✓ Water Filter and Transportation in water Works
- ✓ Irrigation System like farmland irrigation, spray irrigation and drip irrigation
- Suitable for thin, non-explosive, non-corrosive liquids that do not include solid particles or fibers. Mineral water, softened water, and pure water are all acceptable options.

### ■ Motor Parameters:

- ✓ Motor Type: TEFC, Two Pole
- ✓ Protection: Ip55
- ✓ Insulation Class: F
- ✓ Rated Speed: 2900 RPM

### ■ Operation Condition:

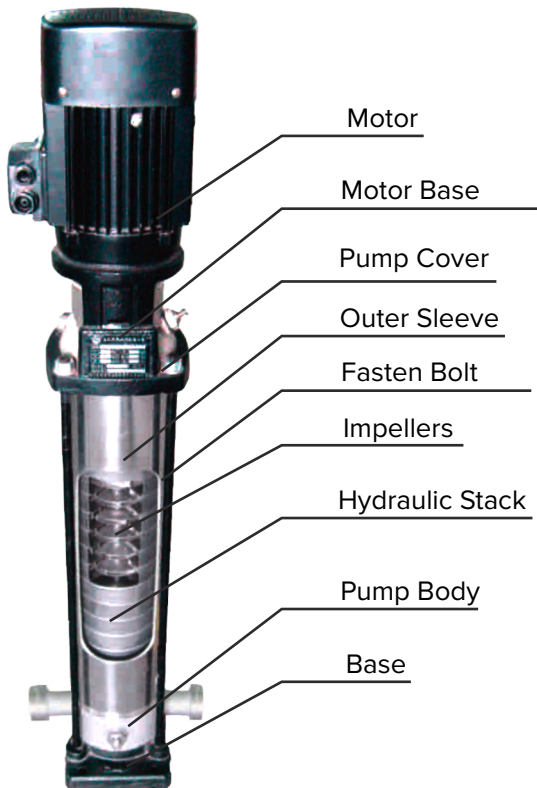
- Discharge Range: 1.0 to 110 m<sup>3</sup>/hr
- Head Range: Up to 300 Meters
- Ambient Temperature: Maximum + 40°C
- It is recommended to use a higher-powered motor if the density or viscosity of the medium is greater than that of water.

## Vertical Multistage Centrifugal Pump

### Product Range:

Model Name	Motor		Max Pressure Bar (kg/cm <sup>2</sup> )	Discharge In m <sup>3</sup> /h		Flange Size mm
	Kw	HP		Nominal Discharge	Discharge Range	
FLT-2	0.37 - 3.0	0.5 - 4.0	20	2	1.2 - 3.2	25
FLT-4	0.37 - 4.0	0.5 - 5.5	21	4	2 - 5.5	25
FLT-10	0.37 - 7.5	0.5 - 10	22	10	4 - 12	40
FLT-15	1.1 - 15	1.5 - 20	22	15	10 - 22	50
FLT-20	1.1 - 18.5	1.5 - 25	23	20	10 - 26	50
FLT-32	1.5 - 30	2.0 - 40	25	32	16 - 36	80
FLT-45	3.0 - 45	4.0 - 60	30	45	30 - 50	80
FLT-64	4.0 - 45	5.5 - 60	21	64	40 - 70	100
FLT-90	5.5 - 45	7.5 - 60	16	90	60 - 100	100

### Diagram of Dissection:



Industrial RO System

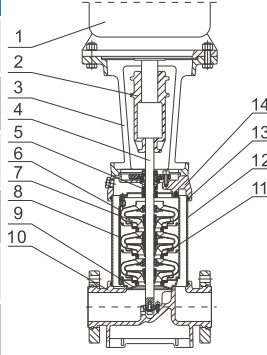


Hydro Pneumatic Pressure Booster System

# Vertical Multistage Centrifugal Pump

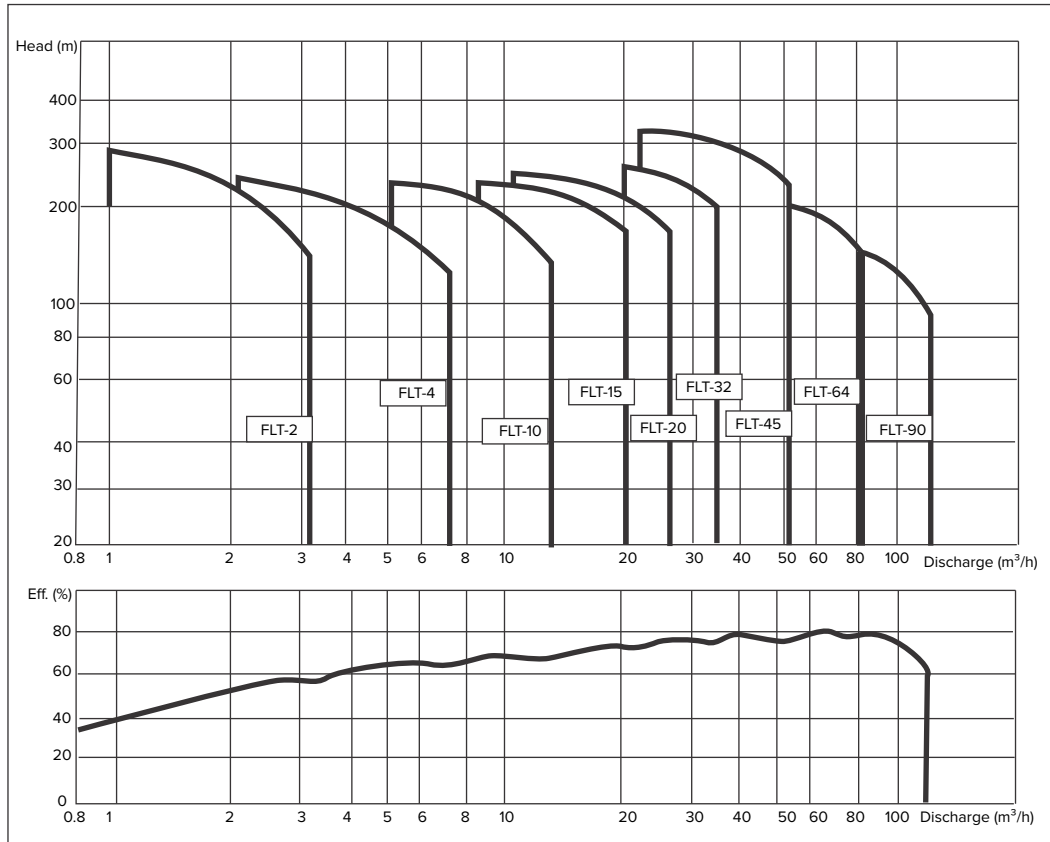
## Sectional Drawing and MOC:

Construction		
Sr. No	Parts	MOC
1	Motor	-
2	Shaft Connector	-
3	Pump Head	Cast Iron
4	Mechanical Seal	Silicon Carbide
5	Shaft	Stainless Steel
6	Outlet	Cast Iron
7	Impeller	Stainless Steel



Construction		
Sr. No	Parts	MOC
8	Hydraulic Stack	Stainless Steel
9	Inlet	Cast Iron
10	Pump Body	Cast Iron
11	Neck Ring	PTFE
12	Outer Sleeve	Stainless Steel
13	O-Ring	EPDM
14	Pump Cover	Cast Iron

## Performance Chart:



## Vertical Multistage Centrifugal Pump (VMP-HR Series)

Sr. No.	MODEL	Power Rating		No. Of Stage	Pipe Size Suc. x Delivery mm	Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.				LPM	72	87	102	120	130	138	148	165	180
								m <sup>3</sup> /h	4.32	5.22	6.12	7.20	7.80	8.28	8.88	9.90
1	VMP-HR-06207	3.7	5.00	7	50x50	Head	126	119	112	105	98	84	70	56	42	
2	VMP-HR-06210	5.5	7.50	10	50x50	in	180	170	160	150	140	120	100	80	60	
3	VMP-HR-06212	5.5	7.50	12	50x50	Metre	216	204	192	180	168	144	120	96	72	

Sr. No.	MODEL	Power Rating		No. Of Stage	Pipe Size Suc. x Delivery mm	Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.				LPM	120	135	150	160	170	180	200	220	230
								m <sup>3</sup> /h	7.20	8.10	9.00	9.60	10.20	10.80	12.00	13.20
4	VMP-HR-08006	3.7	5.0	6	50x50	Head	108	102	96	90	84	72	60	48	36	
5	VMP-HR-08009	5.5	7.5	9	50x50	in	162	153	144	135	126	108	90	72	54	
6	VMP-HR-08012	7.5	10.0	12	50x50	Metre	216	204	192	180	168	144	120	96	72	

Sr. No.	MODEL	Power Rating		No. Of Stage	Pipe Size Suc. x Delivery mm	Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.				LPM	165	180	200	210	225	240	260	290	330
								m <sup>3</sup> /h	9.90	10.80	12.00	12.60	13.50	14.40	15.60	17.40
7	VMP-HR-10005	3.7	5.0	5	50x50		90	85	80	75	70	60	50	40	30	
8	VMP-HR-10007	5.5	7.5	7	50x50	Head	126	119	112	105	98	84	70	56	42	
9	VMP-HR-10009	7.5	10.0	9	50x50	in	162	153	144	135	126	108	90	72	54	
10	VMP-HR-10012	9.3	12.5	12	50x50	Metre	216	204	192	180	168	144	120	96	72	

Sr. No.	MODEL	Power Rating		No. Of Stage	Pipe Size Suc. x Delivery mm	Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.				LPM	190	220	240	265	280	300	340	365	385
								m <sup>3</sup> /h	11.40	13.20	14.40	15.90	16.80	18.00	20.40	21.90
11	VMP-HR-12504	3.7	5.0	4	65x65		72	68	64	60	56	48	40	32	24	
12	VMP-HR-12506	5.5	7.5	6	65x65	Head	108	102	96	90	84	72	60	48	36	
13	VMP-HR-12508	7.5	10.0	8	65x65	in	144	136	128	120	112	96	80	64	48	
14	VMP-HR-12510	9.3	12.5	10	65x65	Metre	180	170	160	150	140	120	100	80	60	
15	VMP-HR-12512	11	15.0	12	65x65		216	204	192	180	168	144	120	96	72	

Sr. No.	MODEL	Power Rating		No. Of Stage	Pipe Size Suc. x Delivery mm	Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.				LPM	270	288	300	330	360	390	410	440	460
								m <sup>3</sup> /h	16.20	17.28	18.00	19.80	21.60	23.40	24.60	26.40
16	VMP-HR-15005	5.5	7.5	5	65x65		90	85	80	75	70	60	50	40	30	
17	VMP-HR-15006	7.5	10.0	6	65x65	Head	108	102	96	90	84	72	60	48	36	
18	VMP-HR-15008	9.3	12.5	8	65x65	in	144	136	128	120	112	96	80	64	48	
19	VMP-HR-15009	11	15.0	9	65x65	Metre	162	153	144	135	126	108	90	72	54	
20	VMP-HR-15010	15	15.0	10	65x65		180	170	160	150	140	120	100	80	60	

## Vertical Multistage Centrifugal Pump (VMP-HR Series)

Sr. No.	MODEL	Power Rating		No. Of Stage	Pipe Size Suc. x Delivery mm	Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.				LPM	280	315	350	380	410	450	500	530	550
								m <sup>3</sup> /h	16.80	18.90	21.00	22.80	24.60	27.00	30.00	31.80
21	VMP-HR-17505	7.5	10.0	5	65x65	Head	90	85	80	75	70	60	50	40	30	
22	VMP-HR-17507	9.3	12.5	7	65x65	in	126	119	112	105	98	84	70	56	42	
23	VMP-HR-17508	11	15.0	8	65x65	Metre	144	136	128	120	112	96	80	64	48	

Sr. No.	MODEL	Power Rating		No. Of Stage	Pipe Size Suc. x Delivery mm	Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.				LPM	330	360	405	435	460	515	550	590	630
								m <sup>3</sup> /h	19.80	21.60	24.30	26.10	27.60	30.90	33.00	35.40
24	VMP-HR-20005	7.5	10.0	5	65x65	Head	90	85	80	75	70	60	50	40	30	
25	VMP-HR-20006	9.3	12.5	6	65x65	in	108	102	96	90	84	72	60	48	36	
26	VMP-HR-20007	11	15.0	7	65x65	Metre	126	119	112	105	98	84	70	56	42	

Sr. No.	MODEL	Power Rating		No. Of Stage	Pipe Size Suc. x Delivery mm	Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.				LPM	420	440	510	540	580	630	700	750	800
								m <sup>3</sup> /h	25.20	26.40	30.60	32.40	34.80	37.80	42.00	45.00
27	VMP-HR-25004	7.5	10.0	4	65x65	Head	72	68	64	60	56	48	40	32	24	
28	VMP-HR-25005	9.3	12.5	5	65x65	in	90	85	80	75	70	60	50	40	30	
29	VMP-HR-25006	11	15.0	6	65x65	Metre	108	102	96	90	84	72	60	48	36	



Cartridge Seal



HRS - SS 304 Bowlset

## Vertical Multistage Centrifugal Pump (FLT Series)

Sr. No.	Model	Power Rating			Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr							
		kW	H.P.	Phase		LPM	17	20	27	33	40	47	53
					m <sup>3</sup> /h	1.00	1.20	1.60	2.00	2.40	2.80	3.20	3.50
1	FLT2-11	1.10	1.5	SP	Head in Metre	87	85	80	74	67	59	50	42
2	FLT2-11	1.10	1.5	TP		87	85	80	74	67	59	50	42
3	FLT2-15	1.50	2.0	SP		121	119	112	105	96	85	72	61
4	FLT2-15	1.50	2.0	TP		121	119	112	105	96	85	72	61
5	FLT2-18	2.20	3.0	SP		143	139	133	125	116	105	91	78
6	FLT2-18	2.20	3.0	TP		143	139	133	125	116	105	91	78
7	FLT2-22	2.20	3.0	SP		173	169	162	152	140	126	110	95
8	FLT2-22	2.20	3.0	TP		173	169	162	152	140	126	110	95
9	FLT2-26	3.00	4.0	TP		206	201	191	180	170	155	133	118

Sr. No.	Model	Power Rating			Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr							
		kW	H.P.	Phase		LPM	17	33	50	67	75	83	92
					m <sup>3</sup> /h	1.00	2.00	3.00	4.00	4.50	5.00	5.50	6.00
10	FLT 4-12	2.20	3.0	SP	Head in Metre	139	134	128	118	111	102	90	79
11	FLT 4-12	2.20	3.0	TP		139	134	128	118	111	102	90	79
12	FLT4-16	3.00	4.0	TP		158	153	145	134	126	116	103	89
13	FLT4-19	4.10	5.5	TP		186	180	170	155	145	133	117	98
14	FLT4-22	4.10	5.5	TP		216	208	197	182	172	159	143	126

Sr. No.	Model	Power Rating			Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr							
		kW	H.P.	Phase		LPM	33	50	67	83	100	117	133
					m <sup>3</sup> /h	2.00	3.00	4.00	5.00	6.00	7.00	8.00	-
15	FLT 5-8	1.10	1.5	TP	Head in Metre	52	50	47	43	38	33	27	-
16	FLT 5-10	1.50	2.0	TP		65	63	58	54	48	41	34	-
17	FLT 5-29	4.10	5.5	TP		190	182	169	157	139	120	97	-
18	FLT 5-32	5.50	7.5	TP		209	200	187	173	154	132	107	-
19	FLT 5-36	5.50	7.5	TP		235	225	210	194	173	149	121	-

Sr. No.	Model	Power Rating			Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr							
		kW	H.P.	Phase		LPM	33	67	100	133	167	200	233
					m <sup>3</sup> /h	2.00	4.00	6.00	8.00	10.00	12.00	14.00	-
20	FLT 10-4	1.50	2.0	TP	Head in Metre	43	42	40	37	32	27	20	-
21	FLT 10-5	2.20	3.0	TP		53	51	48	44	39	32	24	-
22	FLT 10-6	2.20	3.0	TP		62	61	58	53	46	38	28	-
23	FLT 10-8	3.00	4.0	TP		83	81	78	71	62	51	37	-
24	FLT 10-10	4.10	5.5	TP		104	101	98	91	81	67	47	-
25	FLT10-12	4.10	5.5	TP		123	121	117	108	95	78	55	-
26	FLT10-14	5.50	7.5	TP		143	141	136	124	110	90	63	-
27	FLT10-16	5.50	7.5	TP		163	161	154	143	125	102	71	-
28	FLT 10-18	7.50	10.0	TP		183	179	173	161	144	118	82	-
29	FLT10-20	7.50	10.0	TP		202	198	191	180	160	133	93	-
30	FLT10-22	7.50	10.0	TP	222	217	209	198	178	149	106	-	

## Vertical Multistage Centrifugal Pump (FLT Series)

Sr. No.	Model	Power Rating			Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.	Phase		LPM	133	167	200	233	267	300	333	367	400
						m <sup>3</sup> /h	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
31	FLT15-4	4.10	5.5	TP	Head in Metre	52	50	48	46	43	40	36	31	26	
32	FLT 15-5	4.10	5.5	TP		66	64	61	58	56	54	45	39	33	
33	FLT15-6	5.50	7.5	TP		80	78	75	70	65	60	54	47	41	
34	FLT 15-7	5.50	7.5	TP		94	92	88	83	78	71	64	56	50	
35	FLT15-9	7.50	10.0	TP		122	119	115	109	103	95	87	77	66	
36	FLT15-12	11.0	15.0	TP		158	155	150	144	135	126	116	102	89	
37	FLT 15-14	11.0	15.0	TP		183	178	172	165	156	145	133	118	103	
38	FLT 15-17	15.0	20.0	TP		224	218	212	203	193	181	166	151	129	

Sr. No.	Model	Power Rating			Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.	Phase		LPM	133	167	200	233	267	300	333	400	466
						m <sup>3</sup> /h	8.00	10.00	12.00	14.00	16.00	18.00	20.00	24.00	28.00
39	FLT20-7	7.5	10	TP	Head in Metre	96	94	92	89	86	82	77	65	47	
40	FLT20-8	11	15	TP		110	108	105	102	98	93	88	74	54	
41	FLT20-10	11	15	TP		137	135	132	128	124	118	112	98	73	
42	FLT20-14	15	20	TP		191	189	186	181	176	169	161	140	110	
43	FLT20-17	18.5	25	TP		234	231	228	223	217	210	202	162	142	

Sr. No.	Model	Power Rating			Rated Flow	Discharge Range in LPM & m <sup>3</sup> /hr									
		kW	H.P.	Phase		LPM	200	267	333	400	466	500	533	600	666
						m <sup>3</sup> /h	12.00	16.00	20.00	24.00	28.00	30.00	32.00	36.00	40.00
44	FLT 32-3	5.50	7.5	TP	Head In Mtr.	54	52	49	46	42	39	37	31	25	
45	FLT32-4	7.50	10.0	TP		72	69	66	62	56	53	50	42	34	



Cartridge Seal



SS 304 Sheet Metal Bowl Set

Mfg. by :

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