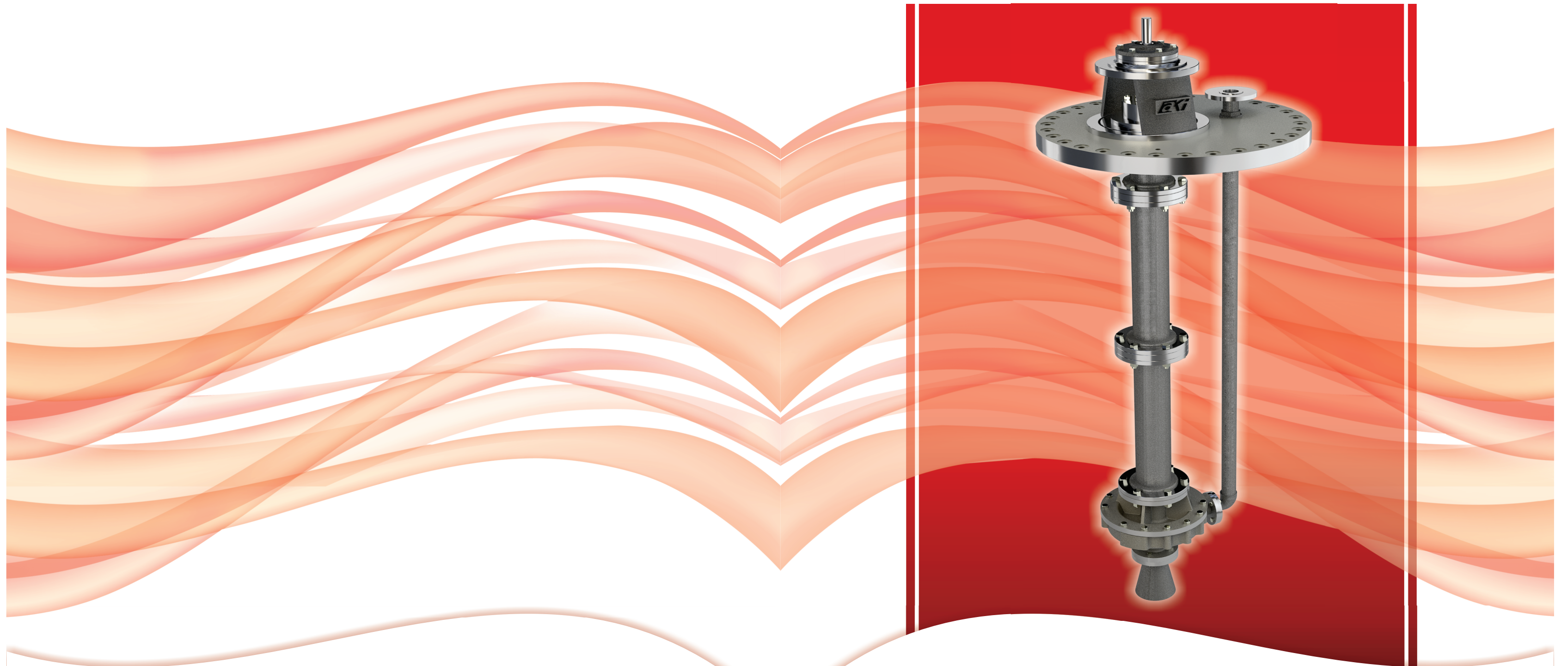


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**BTM PROCESS CONTROLS PVT LTD.**

Address: Plot No 162/A&162/B Gamanagatti Industrial Estate  
Hubballi Karnataka 580024 | Tel: +91 (0) 836-2486001/02

Email: [business@btmprocesscontrols.com](mailto:business@btmprocesscontrols.com)

Web: [www.btmprocesscontrols.com](http://www.btmprocesscontrols.com)

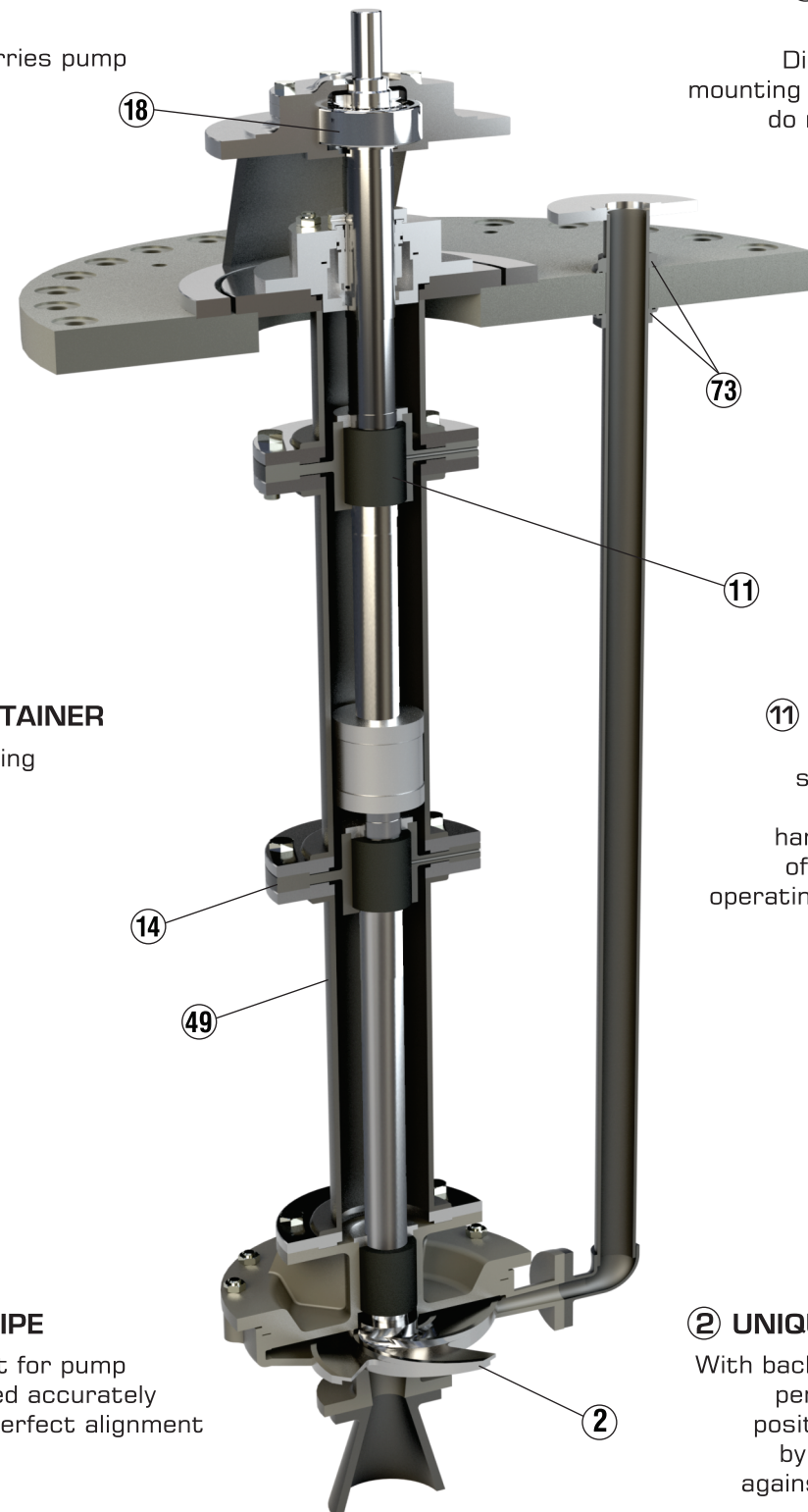


**TYPE MSP  
VERTICAL PUMPS**

## MSP-VP FEATURES

### 18 DOUBLE ROW THRUST BEARING

Grease lubricated carries pump Thrust load



### 73 DISCHARGE PIPE LOCKING

Discharge pipe locked to mounting plate hence pipe loads do not transmit to pump.

### 14 RIGID BEARING RETAINER

Ensures perfect bearing and shaft alignment.

### 11 BUSHING BEARING

Standard carbon-self lubricated bearing- Best performance for handling water and most of the chemicals in wide operating temperature range.

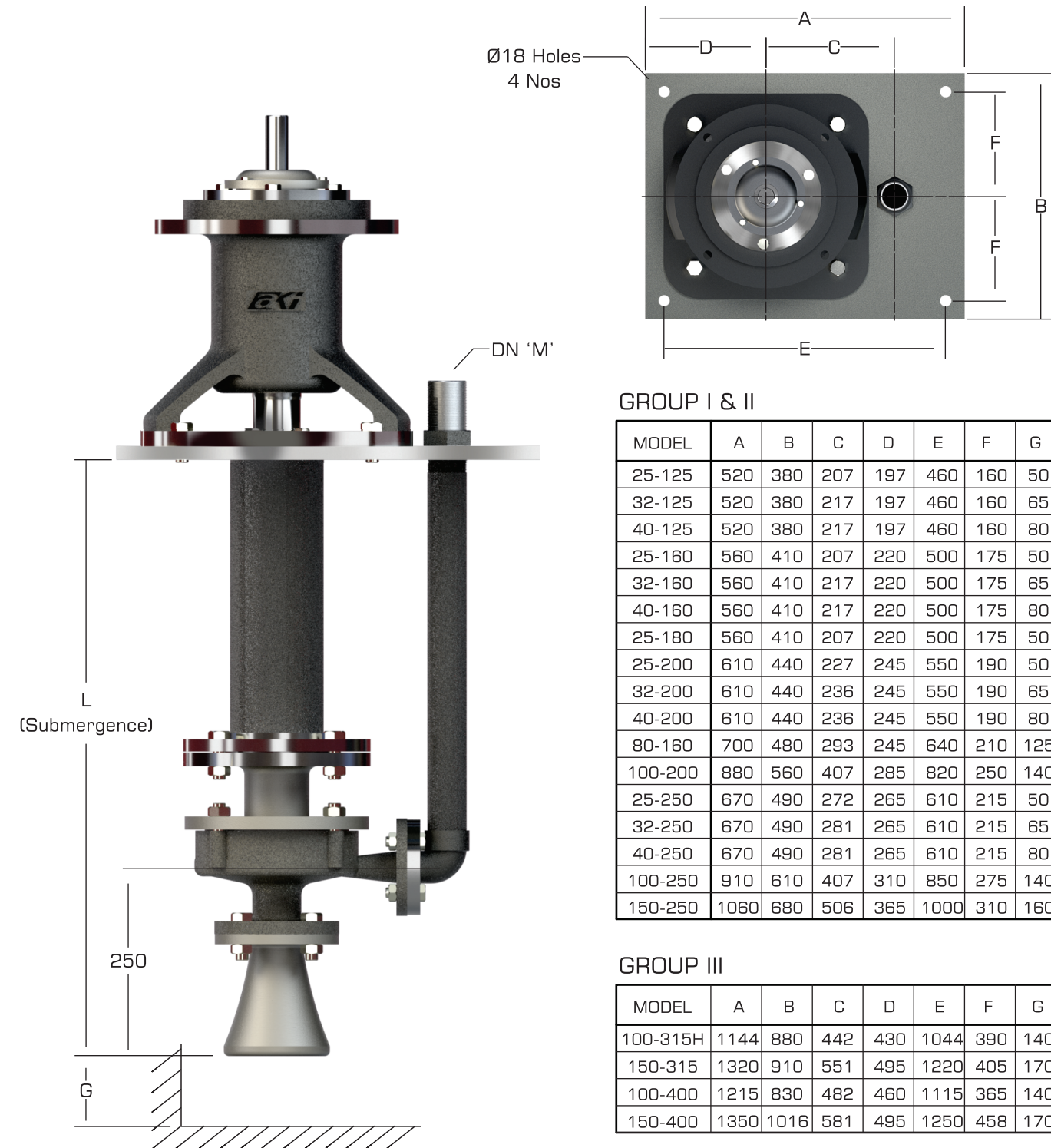
### 49 HEAVY COLUMN PIPE

Provides rigid support for pump and bearings. Machined accurately with register fit for perfect alignment

### 2 UNIQUE OPEN IMPELLER

With back pump out vanes best performance & efficiency. positively retained to shaft by impeller bolt threaded against rotation and locked.

## MSP-CP DIMENSIONS



### GROUP I & II

MODEL	A	B	C	D	E	F	G	M
25-125	520	380	207	197	460	160	50	40
32-125	520	380	217	197	460	160	65	50
40-125	520	380	217	197	460	160	80	50
25-160	560	410	207	220	500	175	50	40
32-160	560	410	217	220	500	175	65	50
40-160	560	410	217	220	500	175	80	50
25-180	560	410	207	220	500	175	50	40
25-200	610	440	227	245	550	190	50	40
32-200	610	440	236	245	550	190	65	50
40-200	610	440	236	245	550	190	80	50
80-160	700	480	293	245	640	210	125	100
100-200	880	560	407	285	820	250	140	150
25-250	670	490	272	265	610	215	50	40
32-250	670	490	281	265	610	215	65	50
40-250	670	490	281	265	610	215	80	50
100-250	910	610	407	310	850	275	140	150
150-250	1060	680	506	365	1000	310	160	150

### GROUP III

MODEL	A	B	C	D	E	F	G	M
100-315H	1144	880	442	430	1044	390	140	150
150-315	1320	910	551	495	1220	405	170	150
100-400	1215	830	482	460	1115	365	140	150
150-400	1350	1016	581	495	1250	458	170	150

Circular mounting plate is available on request



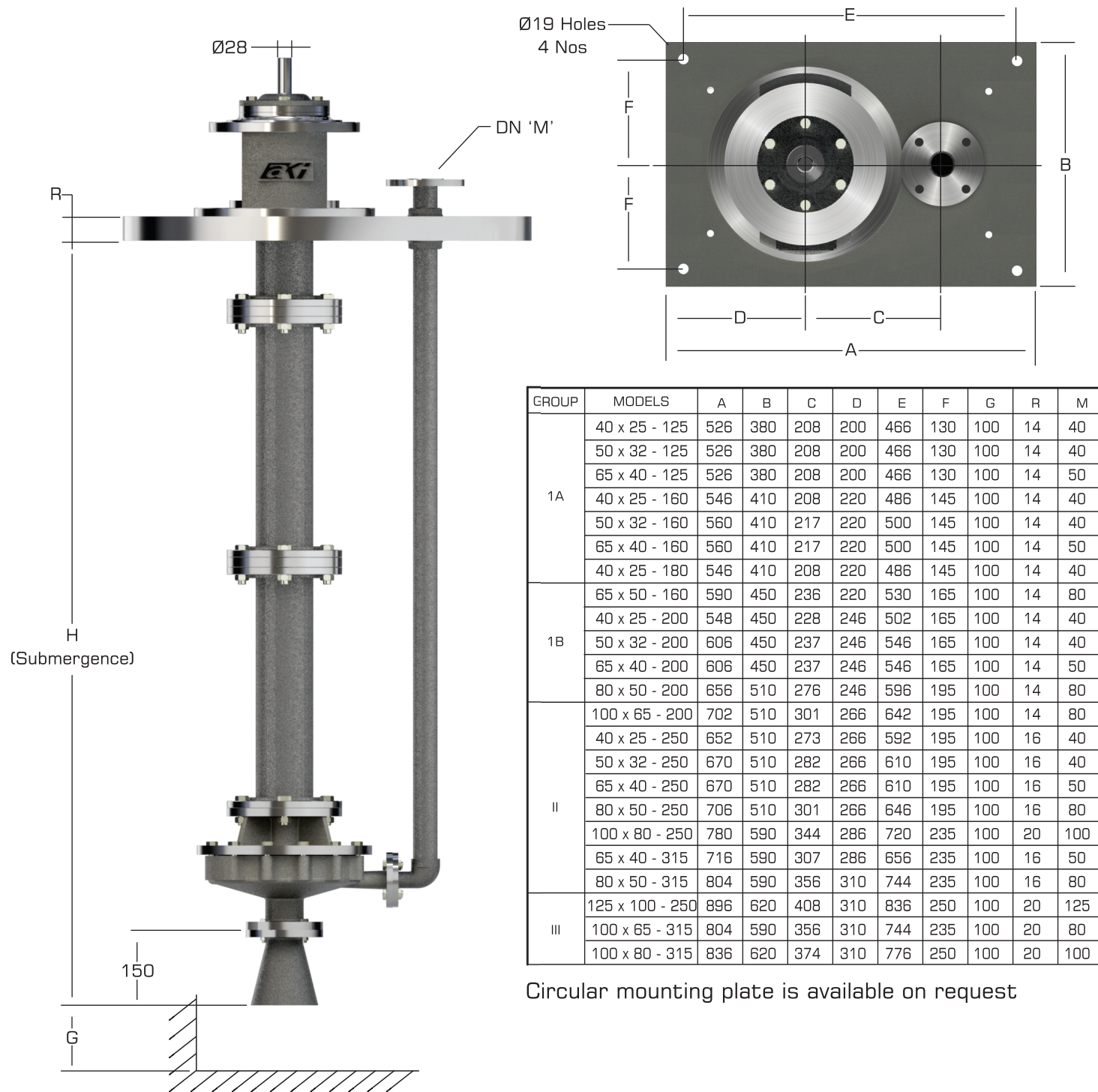
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# MSP-VP DIMENSIONS

# MSP-VP



GROUP	MODELS	A	B	C	D	E	F	G	R	M
1A	40 x 25 - 125	526	380	208	200	466	130	100	14	40
	50 x 32 - 125	526	380	208	200	466	130	100	14	40
	65 x 40 - 125	526	380	208	200	466	130	100	14	50
	40 x 25 - 160	546	410	208	220	486	145	100	14	40
	50 x 32 - 160	560	410	217	220	500	145	100	14	40
	65 x 40 - 160	560	410	217	220	500	145	100	14	50
1B	40 x 25 - 180	546	410	208	220	486	145	100	14	40
	65 x 50 - 160	590	450	236	220	530	165	100	14	80
	40 x 25 - 200	548	450	228	246	502	165	100	14	40
	50 x 32 - 200	606	450	237	246	546	165	100	14	40
	65 x 40 - 200	606	450	237	246	546	165	100	14	50
	80 x 50 - 200	656	510	276	246	596	195	100	14	80
II	100 x 65 - 200	702	510	301	266	642	195	100	14	80
	40 x 25 - 250	652	510	273	266	592	195	100	16	40
	50 x 32 - 250	670	510	282	266	610	195	100	16	40
	65 x 40 - 250	670	510	282	266	610	195	100	16	50
	80 x 50 - 250	706	510	301	266	646	195	100	16	80
	100 x 80 - 250	780	590	344	286	720	235	100	20	100
III	65 x 40 - 315	716	590	307	286	656	235	100	16	50
	80 x 50 - 315	804	590	356	310	744	235	100	16	80
	125 x 100 - 250	896	620	408	310	836	250	100	20	125
	100 x 65 - 315	804	590	356	310	744	235	100	20	80
	100 x 80 - 315	836	620	374	310	776	250	100	20	100

Circular mounting plate is available on request

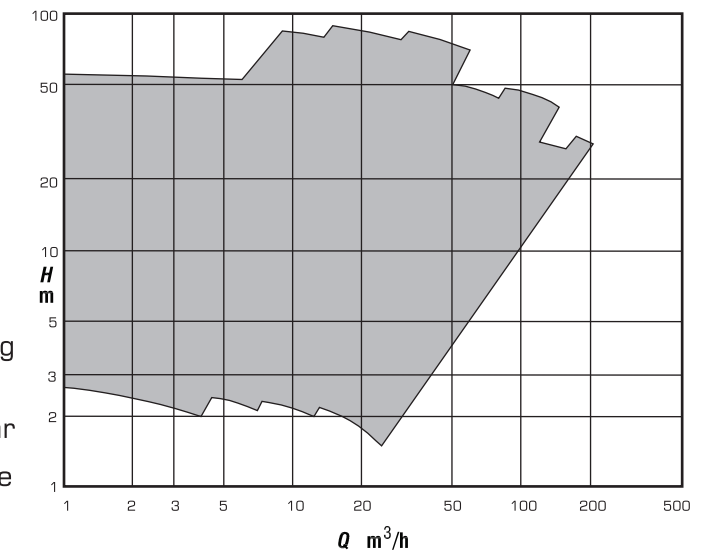
## RANGE

- Capacity to 210 m<sup>3</sup>/h
- Temperature to 150°C
- Head to 90 m

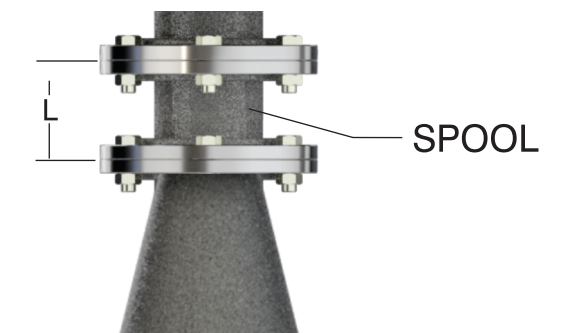
## FEATURES

- Open Impeller keyed and bolted to Shaft
- Self lubricated carbon bush bearing
- Grease lubricated antifriction bearings sized for L10 rating life of 25000 hrs.
- Stuffing box can accommodate any type of sealing arrangement
- Simple external axial adjustment for impeller wear
- Maximum interchangeability, gives minimum spare parts inventory

## HYDRAULIC COVERAGE



STANDARD SUBMERGENCE	NO OF SHAFT	NO OF BUSH BRG
1000	1	2
1250	1	2
1500	1	2
1750	1	2
2000	2	3
2250	2	3
2500	2	3
2750	2	3
3000	2	4
3250	2	4
3500	2	4
3750	2	4
4000	2	5
4250	2	5
4500	2	5
4750	2	5
5000	2	6



### NOTE-

Other than standard submergence are obtained by adding a spool piece at suction to the nearest standard submergence

# MSP-CP FEATURES

# MSP-CP

**18 DOUBLE ROW THRUST BEARING**

Grease lubricated carries pump Thrust load



**73 DISCHARGE PIPE LOCKING**

Discharge pipe locked to mounting plate hence pipe loads do not transmit to pump.

**49 HEAVY COLUMN PIPE**

Provides rigid support for pump and bearings. Machined accurately with register fit for perfect alignment

**2 UNIQUE OPEN IMPELLER**

With back pump out vanes best performance & efficiency. positively retained to shaft by impeller bolt threaded against rotation and locked.

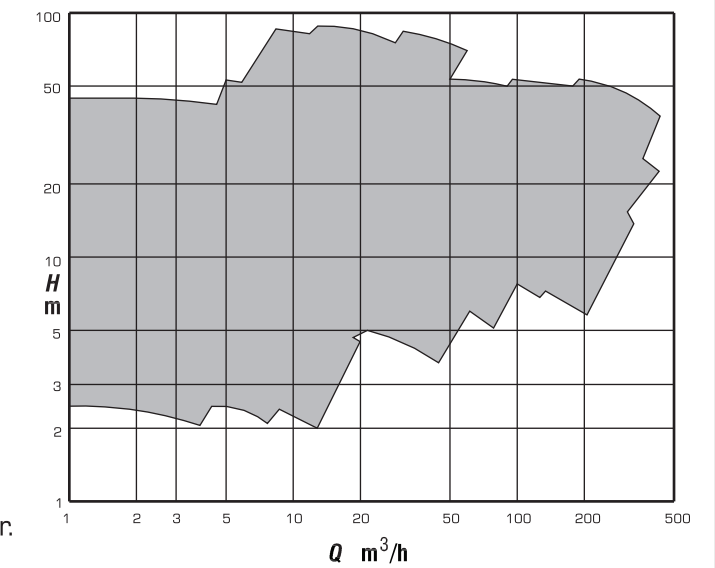
**RANGE**

- Capacity to 430 m<sup>3</sup>/h
- Temperature to 150°C
- Head to 90 m

**FEATURES**

- Cantilever design- no submerged bearings.
- Grease lubricated antifriction bearings sized for L10 rating life of 25000 hrs.
- Cantilever design does not have bush bearing & hence no need for Cooling water requirement
- Fully open impeller with back pump out vanes smoothly contoured for efficient slurry and solids handling and to meet low NPSH requirements
- Eliminates mechanical seal
- Simple external axial adjustment for impeller wear.

**HYDRAULIC COVERAGE**



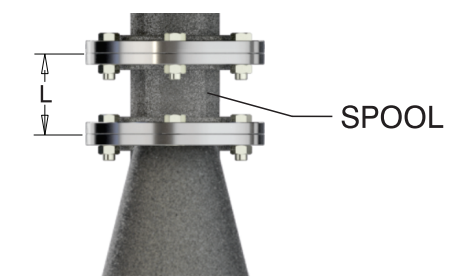
**AVAILABLE SUBMERGENCE**

**GROUP I & II**

MODEL	CSP-I		CSP-II	
	2900	1450	2900	1450
25-125	1000	1250	1250	2000
32-125	750	1000	1000	1750
40-125	—	1000	1000	1500
25-160	750	1250	1250	1750
32-160	750	1000	1000	1500
40-160	—	750	750	1250
25-180	750	1250	1250	2000
25-200	750	1000	1000	1500
32-200	—	1000	750	1250
40-200	—	768	768	1018
80-160	750	1250	1250	2000
100-200	—	1250	1000	1500
25-250	750	1000	1000	1750
32-250	—	1000	1000	1500
40-250	—	750	750	1250
100-250	—	750	—	1250
150-250	—	800	—	1050

**GROUP III**

MODEL	CSP-III
	1450
100-315H	1250
150-315	750
100-400	1000
150-400	750



**NOTE-**  
Required submergence may be obtained by adding spool piece at suction flange