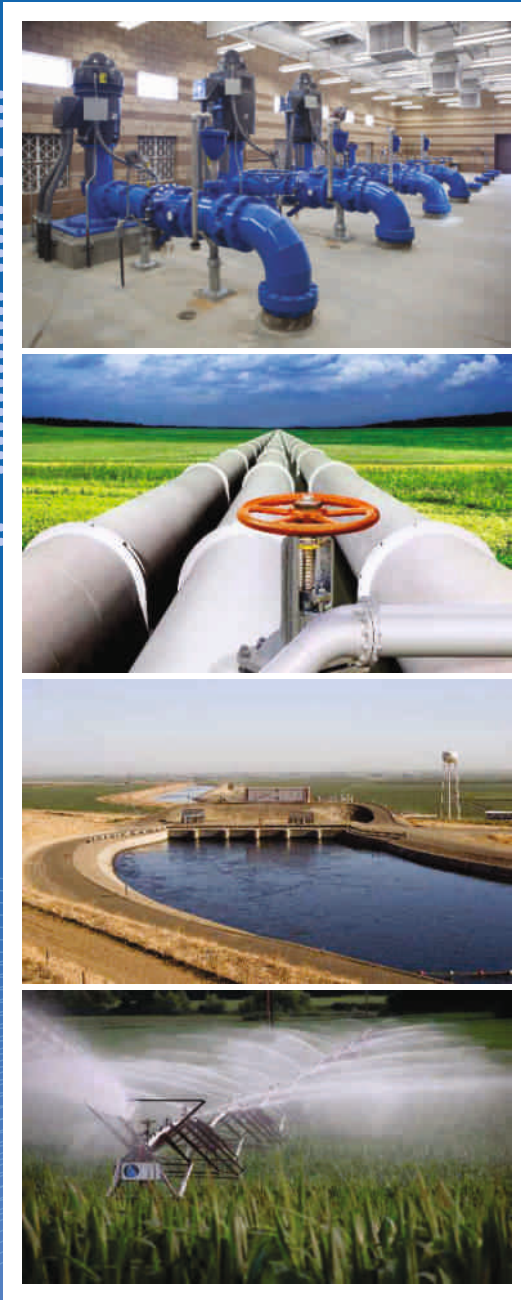


# VERTICAL TURBINE PUMPS

VTP SERIES - 50Hz











## T H E B E G I N N I N G

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an in-house foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 2300 varieties of perfectly engineered pumps and motors and sells its products in numerous countries spread across 6 continents.

## C . R . I . I S O N E A M O N G

the few pioneers in the world to produce 100% stainless steel submersible pumps. Having achieved a record production capacity of over 2 million pumps per annum, today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

## T H E I N F R A S T R U C T U R E

of C.R.I. is pretty comprehensive with state-of-the-art machineries and high potential in-house R&D recognised by the ministry of science and technology, Govt. of India - all within its own covered area of 300,000 square metres. The production environment is accredited with ISO 9001, ISO 14001 & OHSAS 18001 certifications and the products are CE, UR/UL, IEC, TSE & ISI certified. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.

## N E E D L E S S T O S A Y ,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos: "Commitment, Reliability, Innovation".





### Vision, Mission and Values

To be the industry leader providing best - in - class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **commitment, reliability** and **innovation**.

## C O N T E N T S

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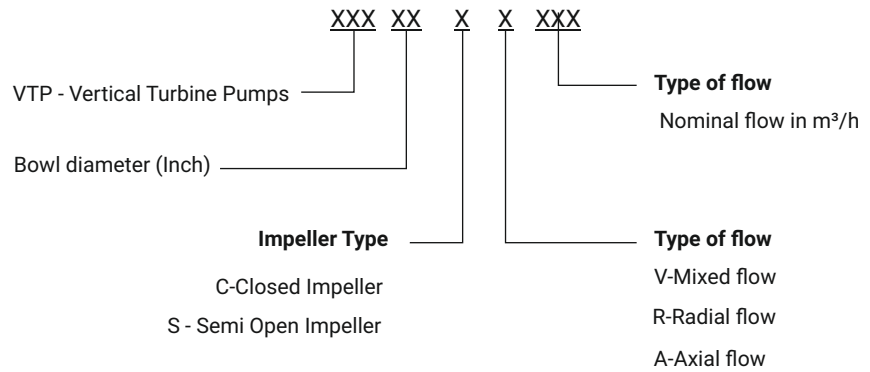


# VERTICAL TURBINE PUMPS VTP SERIES





## MODEL IDENTIFICATION CODE



Example : VTP 11CV170 – Vertical Turbine Pumps

- 11 - 11" Bowl
- C - Enclosed impeller
- V - Mixed flow
- 170 - 170m<sup>3</sup>/h



## VERTICAL TURBINE PUMPS - VTP SERIES

### DESCRIPTION

Vertical turbine pumps are single or multistage in construction and consist of column unit and drive unit assembly. VT pumps are designed to operate without being affected by large fluctuations of the water level. These pumps are supplied with mixed flow or axial flow impeller for higher flow requirement. The transmission shaft in the column pipes are supported with line shaft bearing with self or external lubrication arrangement. And submerged impellers allow the pump to start without need of priming. Ratchet arrangement provided on coupling to avoid reverse rotation.

#### Bowl

A diffuser with vanes cast integrally.

#### Impeller

Impellers are of mixed flow or axial flow.

#### Suction Bell

Designed for smooth entry of water with minimum losses.

#### Strainer

Stainless steel basket type strainers are provided in standard installation in the suction bell to prevent large solids from entering the pump.

#### Shaft

The shaft materials provided are of high tensile strength.

#### Column Pipe

Column pipes are designed in such a way to transfer the water smoothly from bowl assembly to discharge head and the pipes are made either in casted or fabricated.

#### Bearings

##### Line Shaft Bearing

Cutlass bearings are of higher bond strength between rubber and shell material. Also provided in composite material like thordon and ferroform. Lubrication by self/external clear water. Oil lubrication will be provided with bronze bearing.

#### Discharge Head

Either casted or fabricated discharge head is provided to direct flow from column pipe to discharge head located above the ground level.

#### Thrust Bearing

Antifriction type bearings are provided for taking hydraulic axial thrust and weight of rotating unit. Lubrication with oil or grease. Non-reverse ratchet assembly provided to prevent reverse rotation of pump due to back flow of the water in case of its tripping.

#### Motor Stool

Rigid and rugged construction to ensure vibration-free operation of pumpset.

#### Coupling

Flexible pin bush type couplings are generally provided to couple pump and motor. For line shaft coupling either threaded barrel type or muff couplings are provided.

#### Drive

Electric motor with solid shaft is a standard arrangement on request we can provide vertical hollow shaft drive also. Engine driven pumps are provided with right angle gear drive.

#### Direction of rotation

Clockwise when viewed from driving end.

## OPERATING DATA

Operating Data	
Maximum Flow	upto 16000m <sup>3</sup> /h
Maximum Head	upto 250m
Speed	1450/2900 RPM
Impeller Type	Enclosed Impeller
Outlet Size	upto 900mm
Power	upto 2400kW
Liquid Temperature	upto 90°C
Shaft Seal	Gland Packing, Mechanical Seal
Material of Construction (MOC)	Cast Iron, Bronze, Stainless steel, duplex and super duplex
Line shaft	Self / External clear water or oil
Thrust Bearing Lubrication	Grease, Oil
Maximum working Pressure	upto 25bar

## FEATURES

- Wide hydraulic ranges
- Dynamically balanced rotating parts
- Optional surface coating for better efficiency
- Customized material options
- Suction bell bearing provided for better stability

## APPLICATION

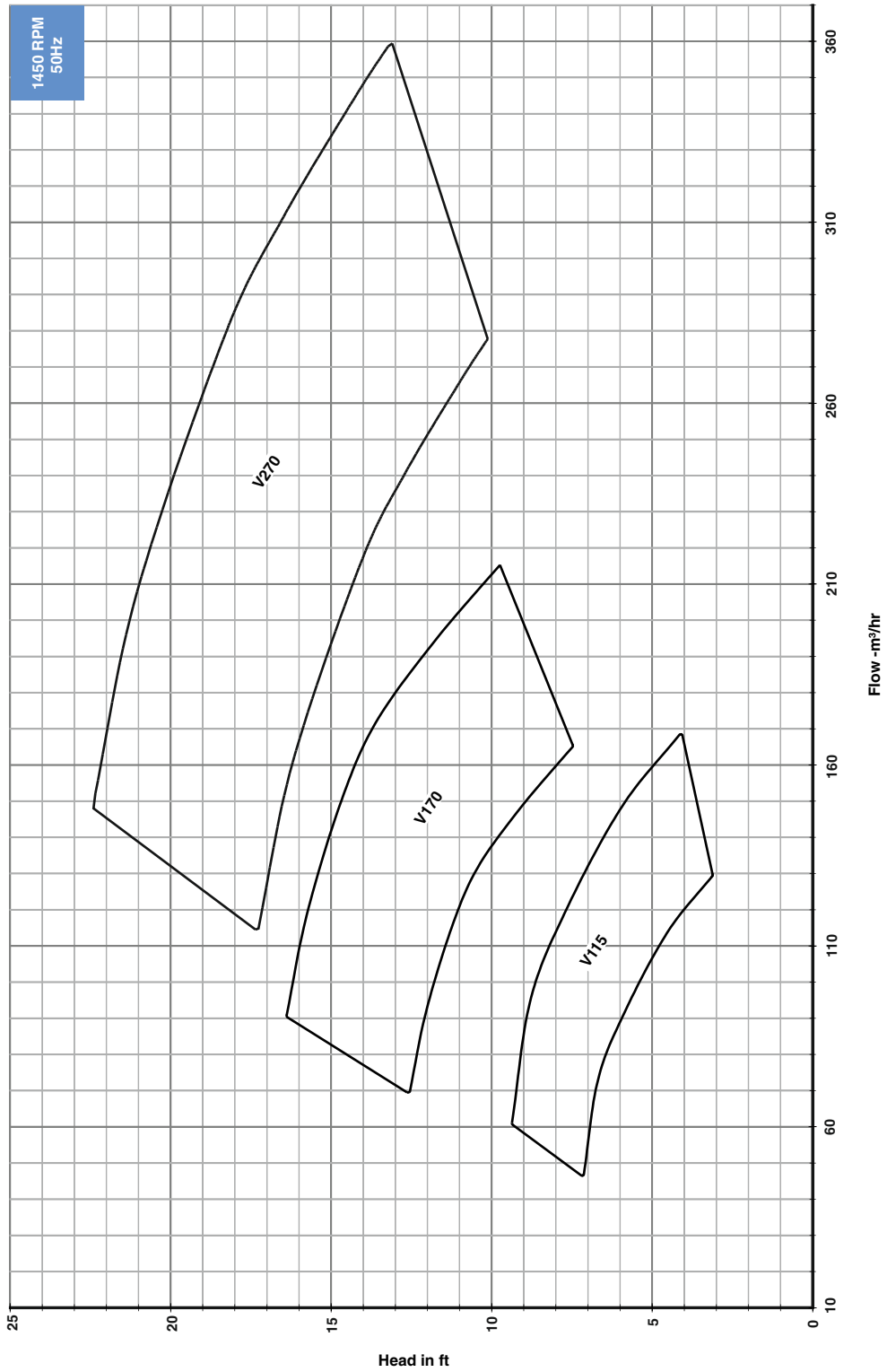
- Raw water intake
- Main cooling water and makeup water supply in power plant
- Various application in steel, cement industry& refineries
- Community water supply
- Dock yard and Offshores platforms
- Flood Control
- Fire fighting
- Irrigation
- Water treatment plants



## MATERIAL OF CONSTRUCTION

Component	Material	American standard (ASTM)	DIN
Bowl	CI with 2% NI	ASTM A48 Class 40	(0.6025)DIN 1691 GG25
Suction Bell	CI / CI with 2% NI	ASTM A48 Class 40	(0.6025)DIN 1691 GG25
Impeller	Bronze / CF8M / CF8 / CI	ASTMB 584 - C90500	DIN 1705 Rg 5
		ASTMA 351/743 Gr. CF8M	1.4408(GX5CrNiMo19-11-2)
		ASTMA 351 Gr. Cf8	1.4301(X5CrNi18-10)
		ASTM A48 Class 40	(0.6025)DIN 1691 GG25
Wear Ring	Bronze / CF8M / CF8 / CI	ASTMB 584 - C90500	DIN 1705 Rg 5
		ASTMA 351/743 Gr. CF8M	1.4408(GX5CrNiMo19-11-2)
		ASTMA 351 Gr. Cf8	1.4301(X5CrNi18-10)
		ASTM A48 Class 40	(0.6025)DIN 1691 GG25
Shaft	SS410 / SS316 / SS304	ASTMA 276 type 410	1.4006(X10Cr13)
		ASTMA 276 type 316	1.4401(X5CrNiMo17122)
		ASTMA 276 type 304	1.4301(X5CrNi18-10)
Sleeve	SS410 / SS316 / SS304	ASTMA 276 type 410	1.4006(X10Cr13)
		ASTMA 276 type 316	1.4401(X5CrNiMo17122)
		ASTMA 276 type 304	1.4301(X5CrNi18-10)
Pipe Column	Mild Steel	ASTM-A283 GR.D	DIN 1700 GR ST4-2 Fabricated Steel 44
Enclosing Pipe	Mild Steel	ASTM-A283 GR.D	DIN 1700 GR ST4-2 Fabricated Steel 44
Cone Pipe	CI / Mild Steel	ASTM A48 Class 40	(0.6025)DIN 1691 Gg25
		ASTM-A283 GR.D	DIN 1700 GR ST4-2 Fabricated Steel 44
Discharge Head	CI / Mild Steel	ASTM A48 Class 40	(0.6025)DIN 1691 Gg25
		ASTM-A283 GR.D	DIN 1700 GR ST4-2 Fabricated Steel 44
Motor Stool	CI / Mild Steel	ASTM A48 Class 40	(0.6025)DIN 1691 Gg25
		ASTM-A283 GR.D	DIN 1700 GR ST4-2 Fabricated Steel 44
Sole Plate	Mild Steel	ASTM-A283 GR.D	DIN 1700 GR ST4-2 Fabricated Steel 44
Strainer	SS304	ASTMA 276 type 304	1.4301(X5CrNi18-10)
Bearing Holder	CI	ASTM A48 Class 40	(0.6025)DIN 1691 GG25
Bowl and Line Shaft Bearing	Bronze / Ferroform	Bronze (LTB 4) / Ferroform	Bronze (LTB 4) / Ferroform
	/ Thordon / Rubber	Thordon / Rubber	Thordon / Rubber
Bearing Housing	CI	ASTM A48 Class 40	(0.6025)DIN 1691 GG25
Bearing Housing Cover	CI	ASTM A48 Class 40	(0.6025)DIN 1691 GG25
Key	SS410 / SS316 / SS304	ASTMA 276 type 410	1.4006(X10Cr13)
		ASTMA 276 type 316	1.4401(X5CrNiMo17122)
		ASTMA 276 type 304	1.4301(X5CrNi18-10)
Pump & Motor Coupling	CI	ASTM A48 Class 40	(0.6025)DIN 1691 GG25
Gland	CI	ASTM A48 Class 40	(0.6025)DIN 1691 GG25

# FAMILY CURVE

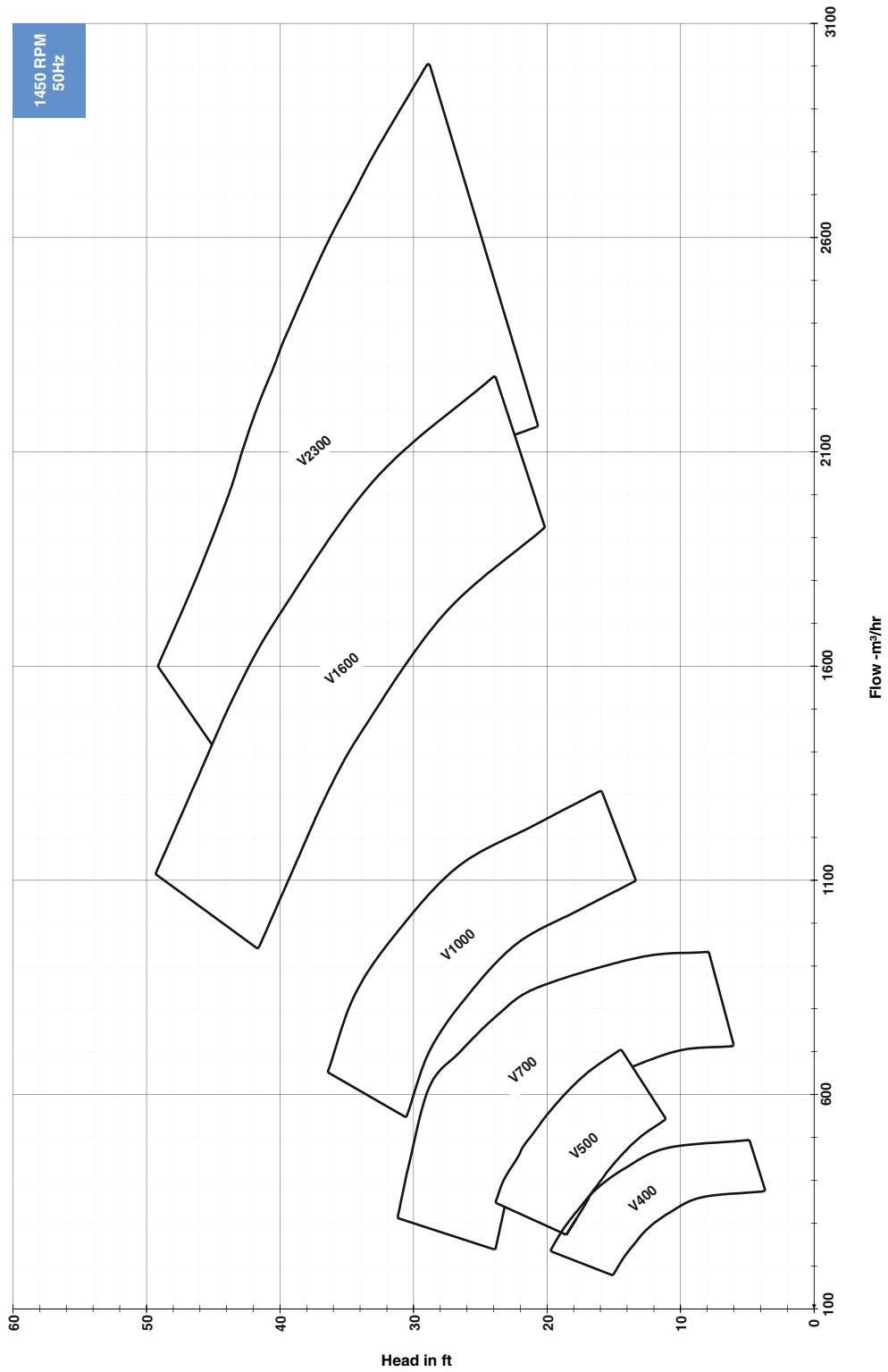


Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice



# FAMILY CURVE



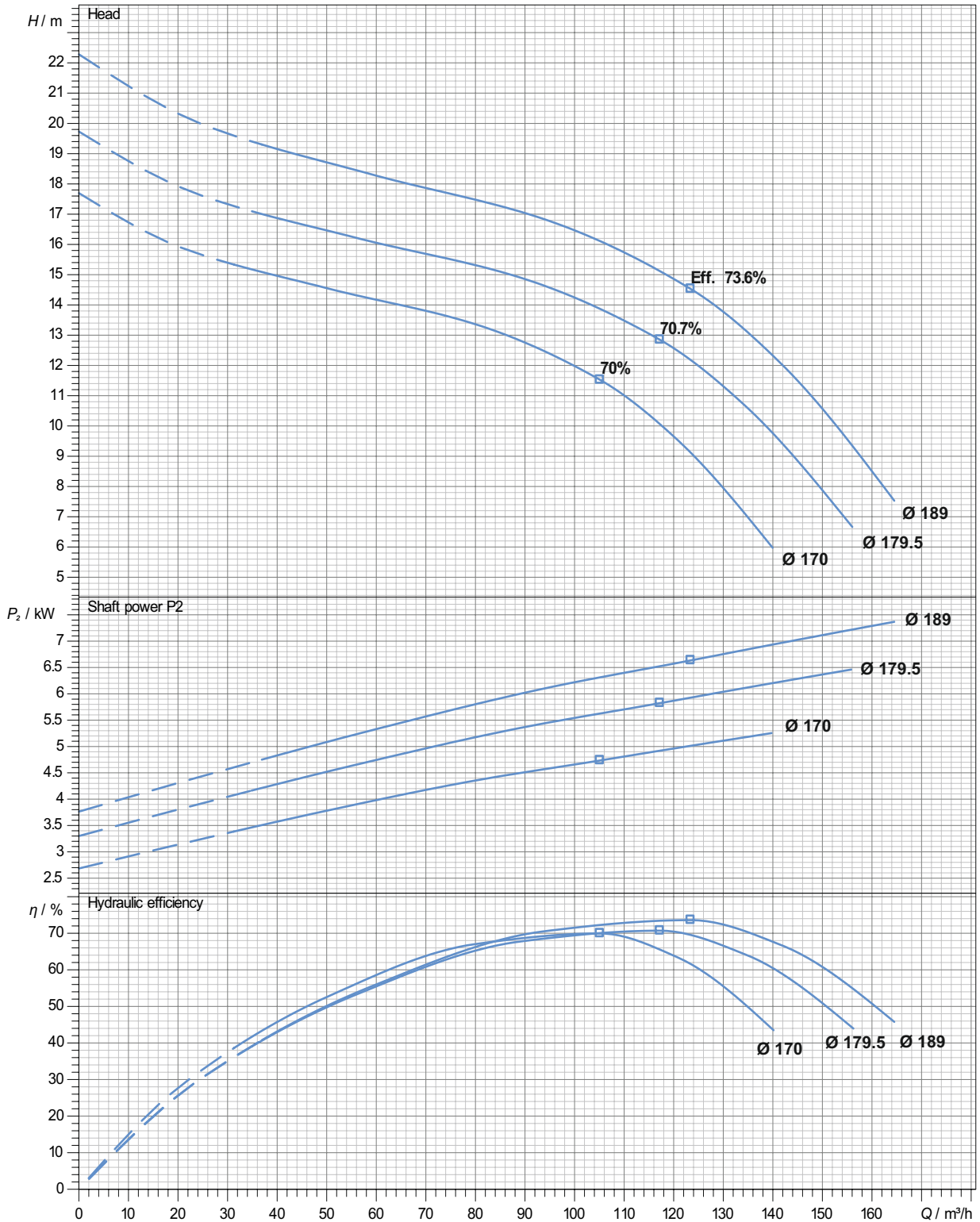
Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

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# PERFORMANCE CURVES

PUMP MODEL | VT - 9CV115

Speed 1450 rpm



\* This pump can be supplied upto 20 stages.

Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

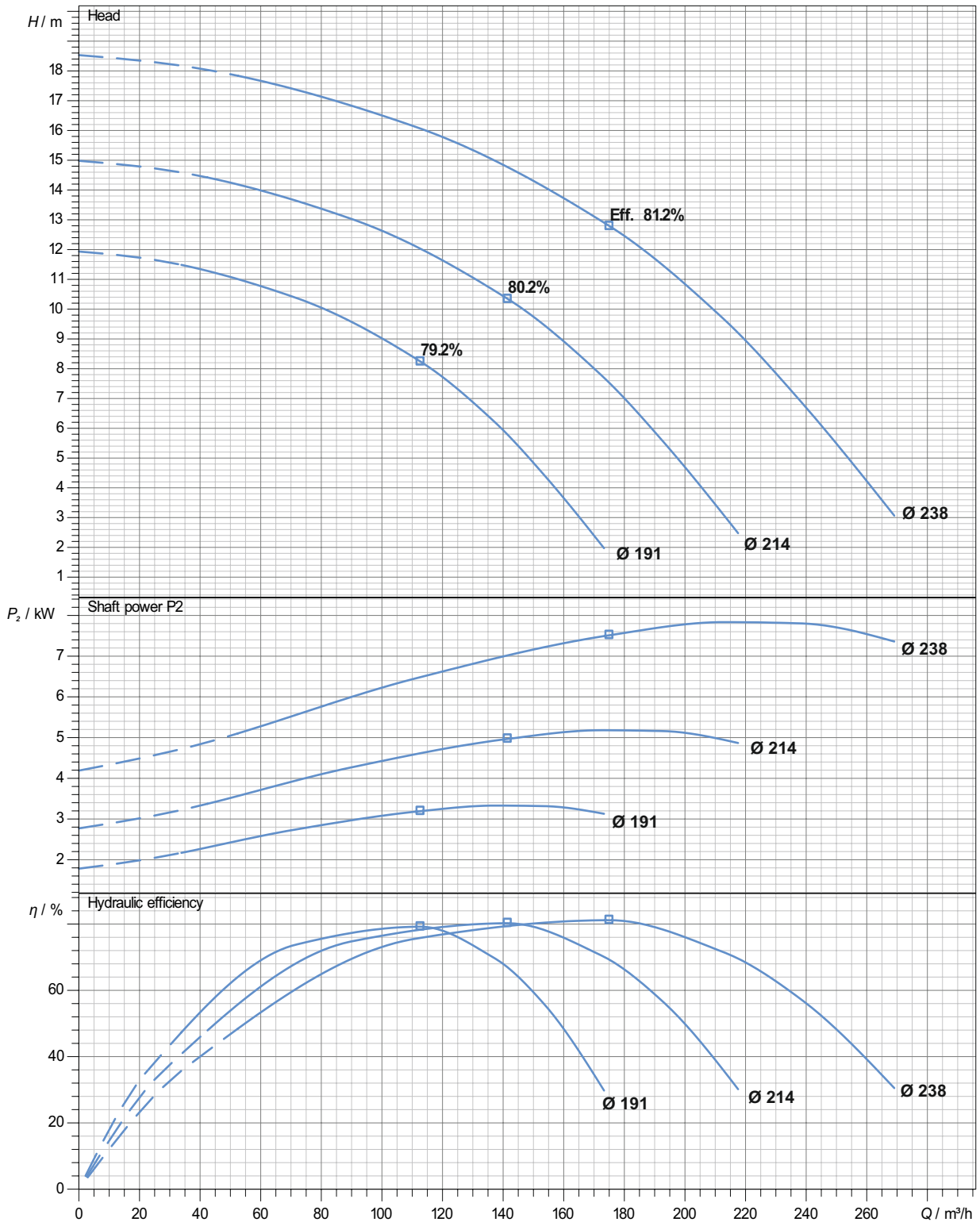
In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice



# PERFORMANCE CURVES

PUMP MODEL | **VT - 11CV170**

**Speed 1450 rpm**



\* This pump can be supplied upto 12 stages.

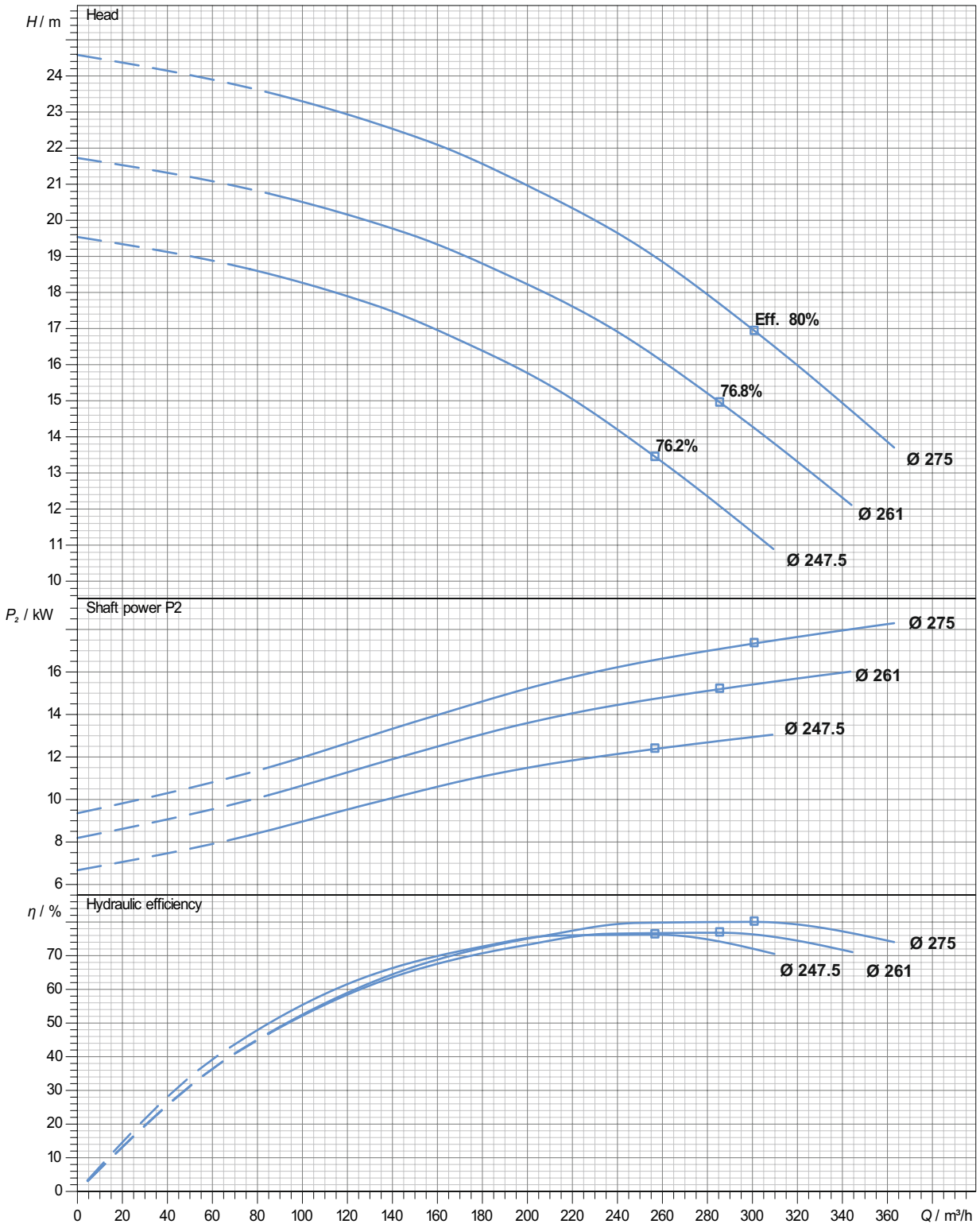
Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

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# PERFORMANCE CURVES

PUMP MODEL | VT - 13CV270

Speed 1450 rpm



\* This pump can be supplied upto 10 stages.

Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

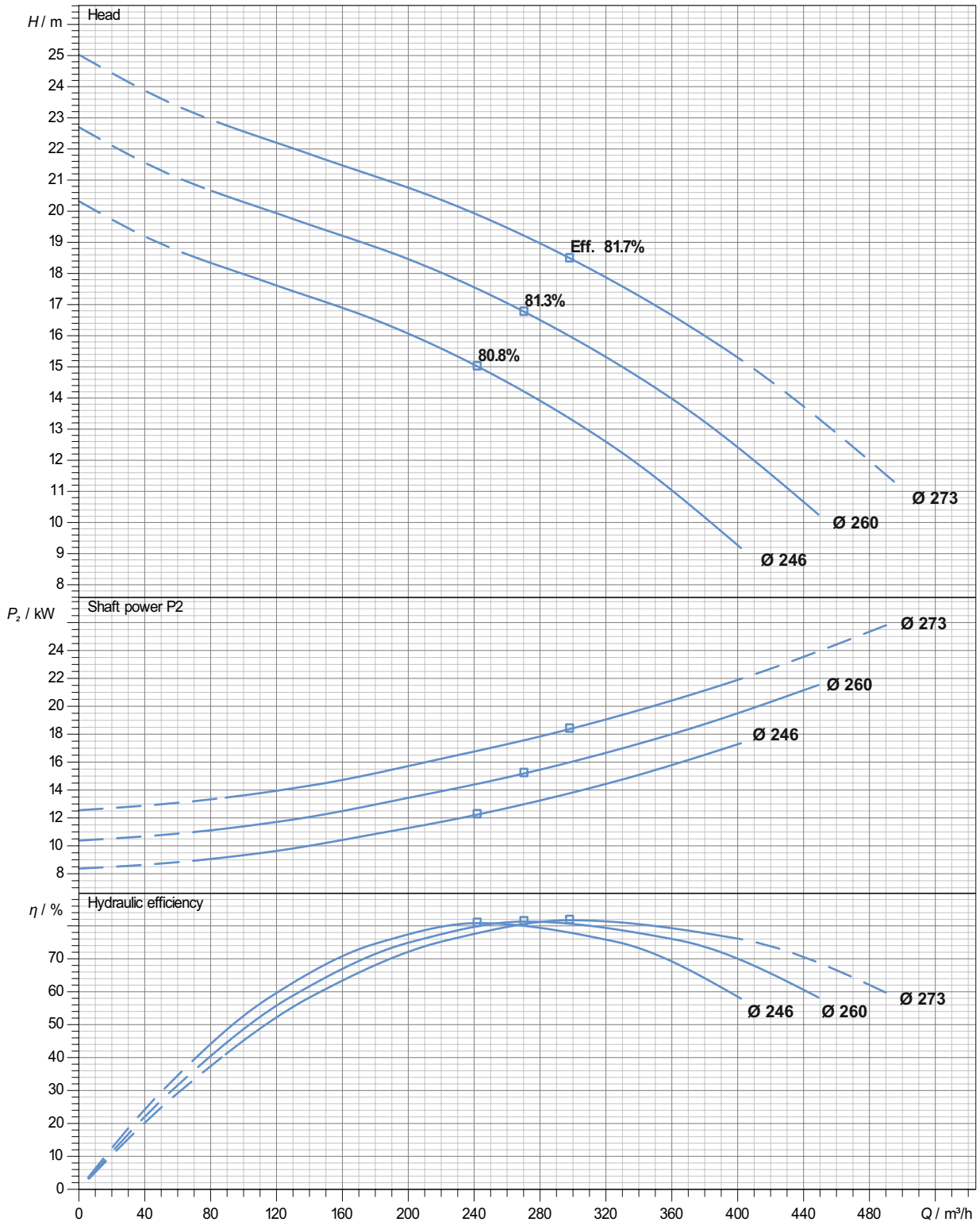
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# PERFORMANCE CURVES

PUMP MODEL | **VT - 14CV400**

**Speed 1450 rpm**



\* This pump can be supplied upto 10 stages.

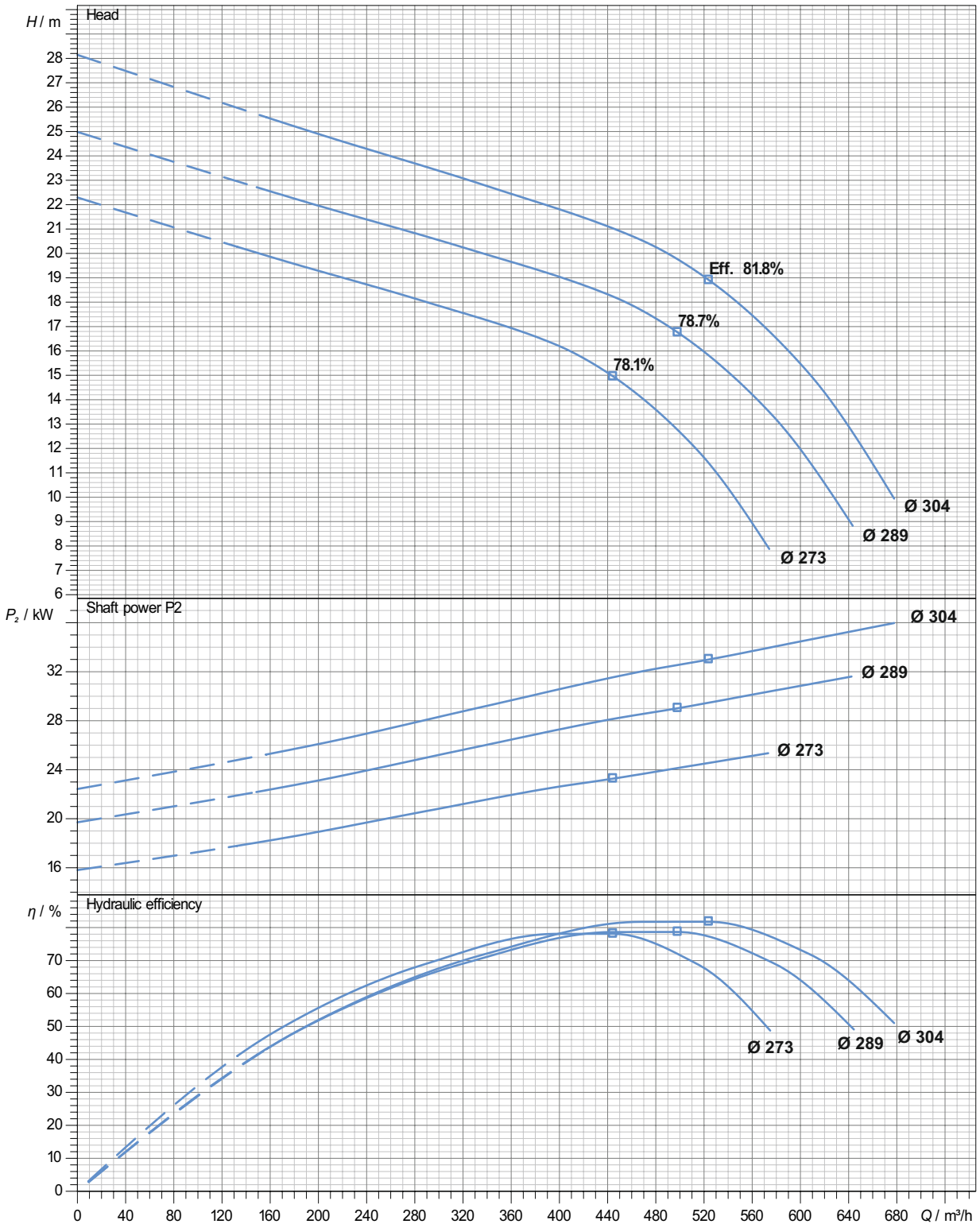
Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

# PERFORMANCE CURVES

PUMP MODEL | VT - 14CV500

Speed 1450 rpm



\* This pump can be supplied upto 10 stages.

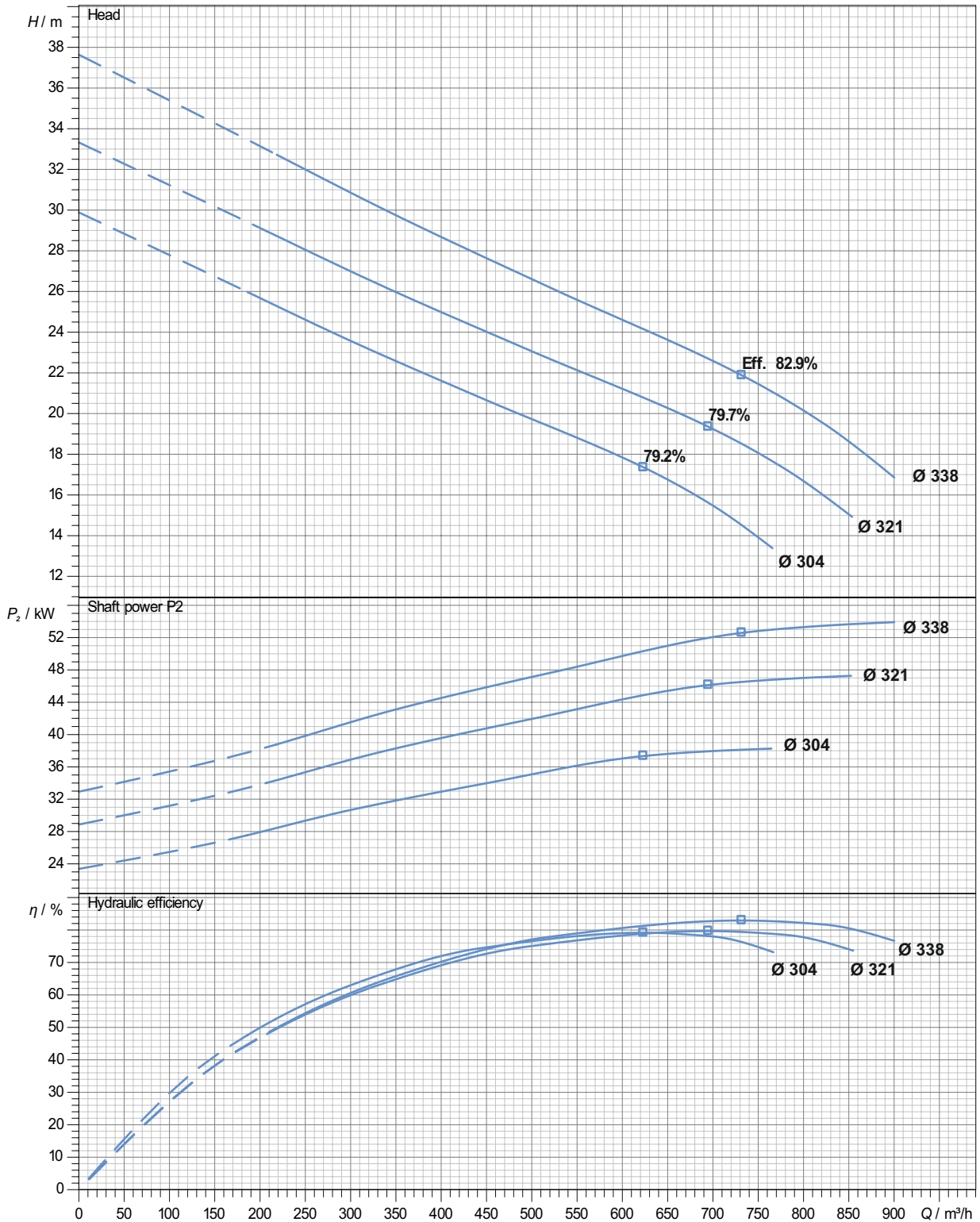
Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

# PERFORMANCE CURVES

PUMP MODEL | **VT - 16CV700**

Speed 1450 rpm



\* This pump can be supplied upto 7 stages.

Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

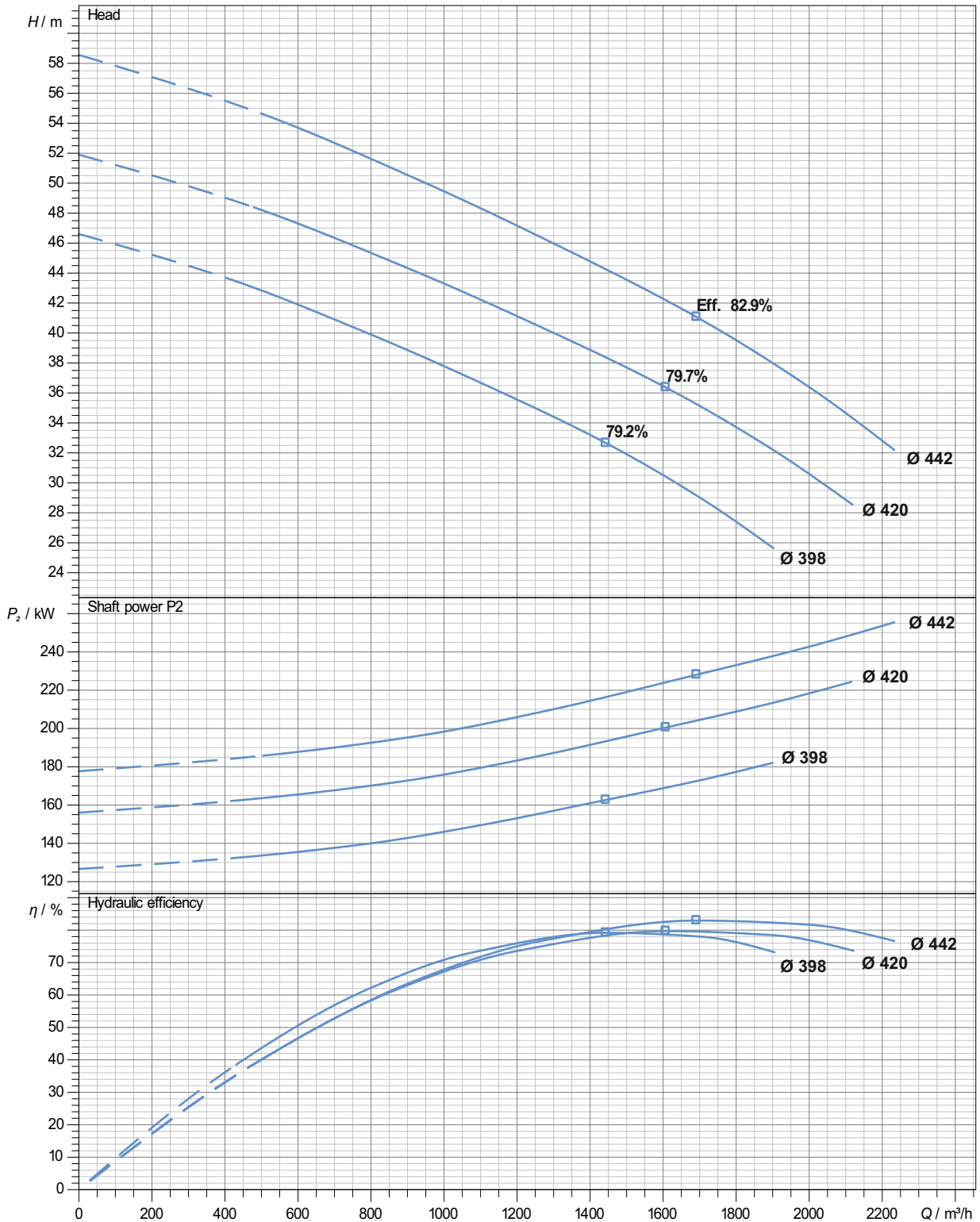
In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice



# PERFORMANCE CURVES

PUMP MODEL | VT - 19CV1000

Speed 1450 rpm



\* This pump can be supplied upto 5 stages.

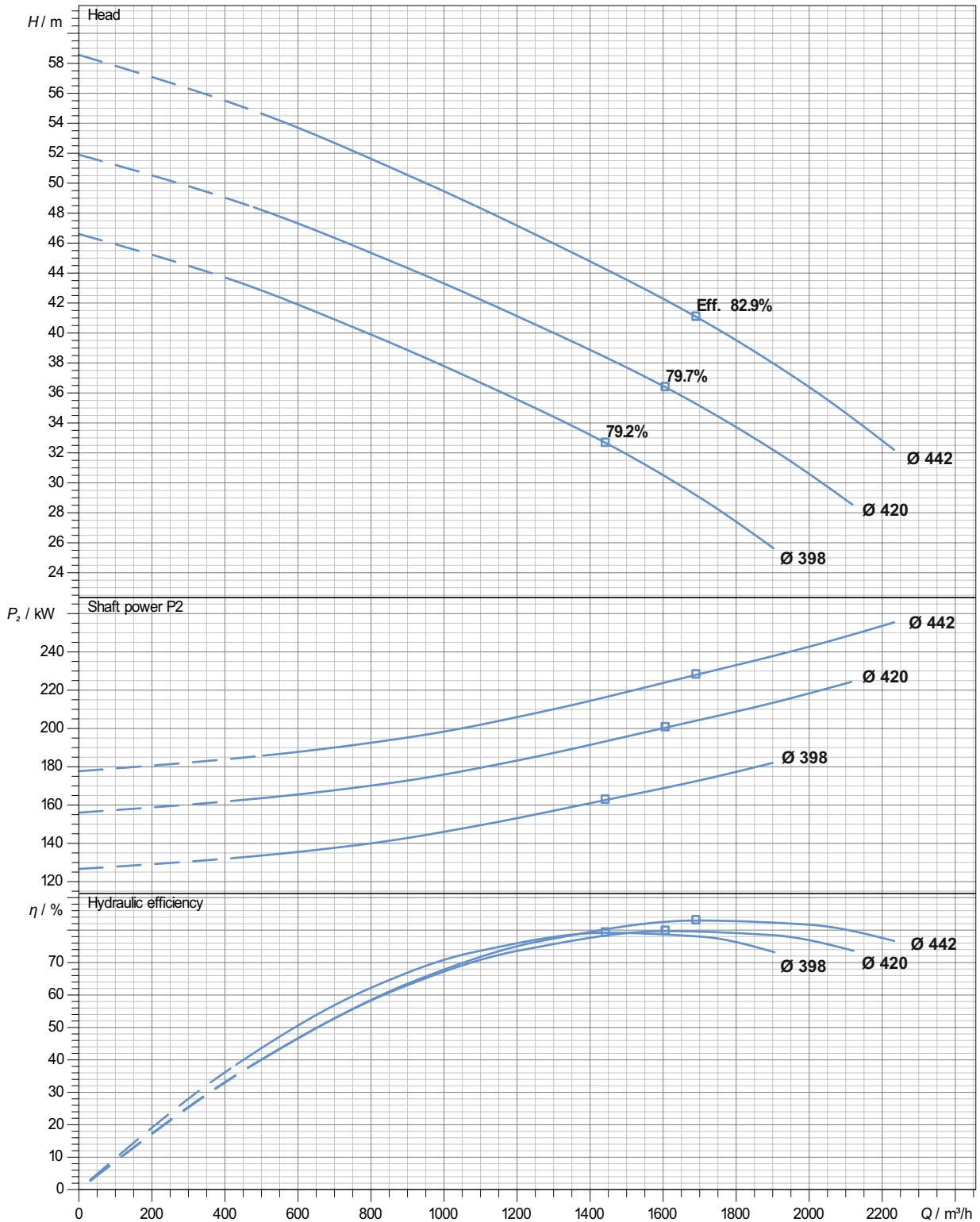
Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

# PERFORMANCE CURVES

PUMP MODEL | **VT - 22CV1600**

Speed 1450 rpm



\* This pump can be supplied upto 2 stages.

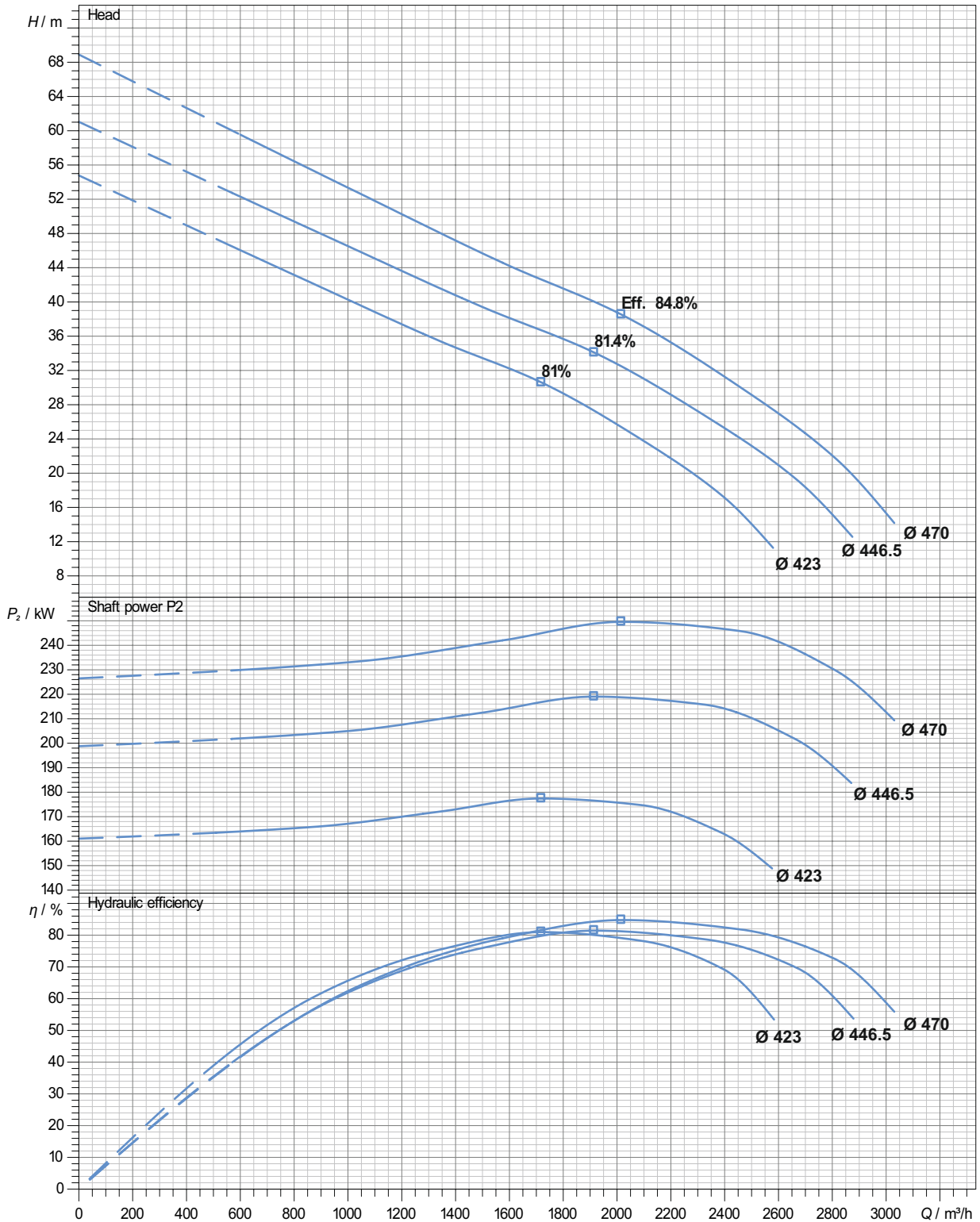
Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

# PERFORMANCE CURVES

PUMP MODEL | VT - 23CV2300

Speed 1450 rpm



\* This pump can be supplied upto 2 stages.

Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

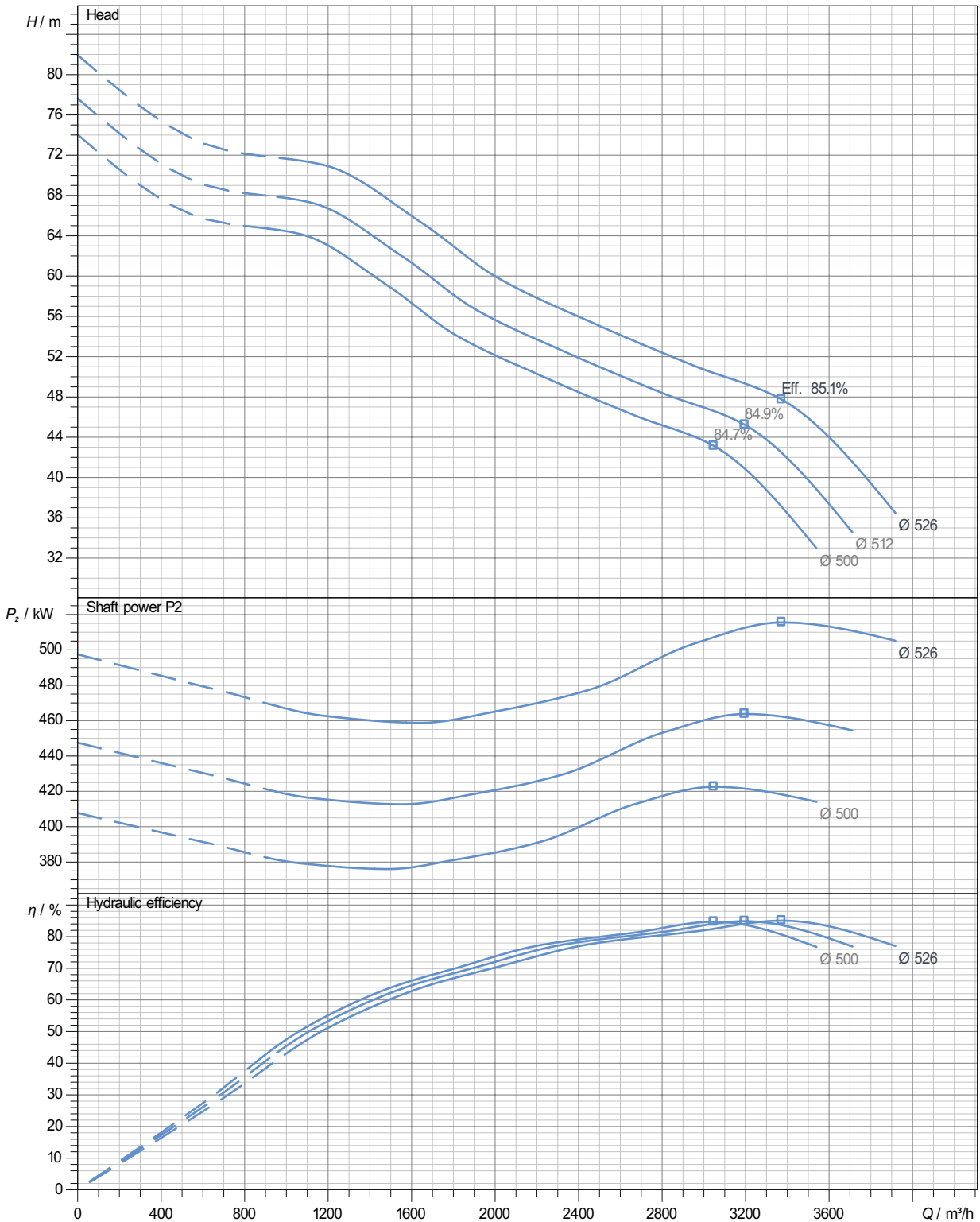
In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice



# PERFORMANCE CURVES

PUMP MODEL | **VT - 33CV3300**

**Speed 1450 rpm**

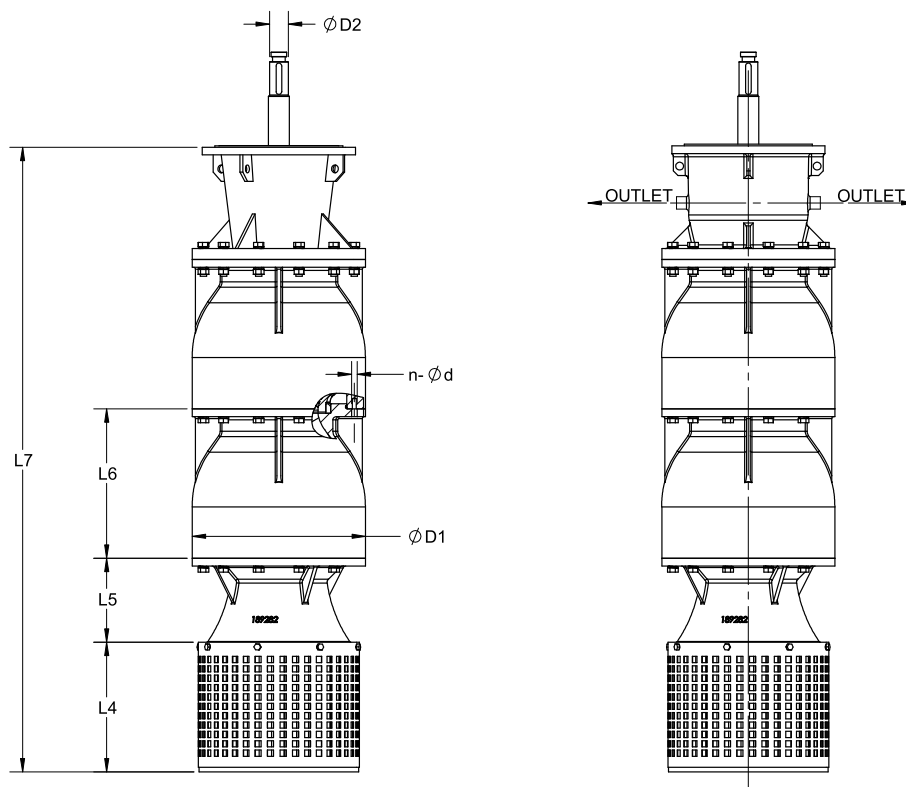


\* This pump can be supplied upto 2 stages.

Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 2B

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

## GENERAL DIMENSION AND MOUNTING DETAILS BOWL ASSEMBLY

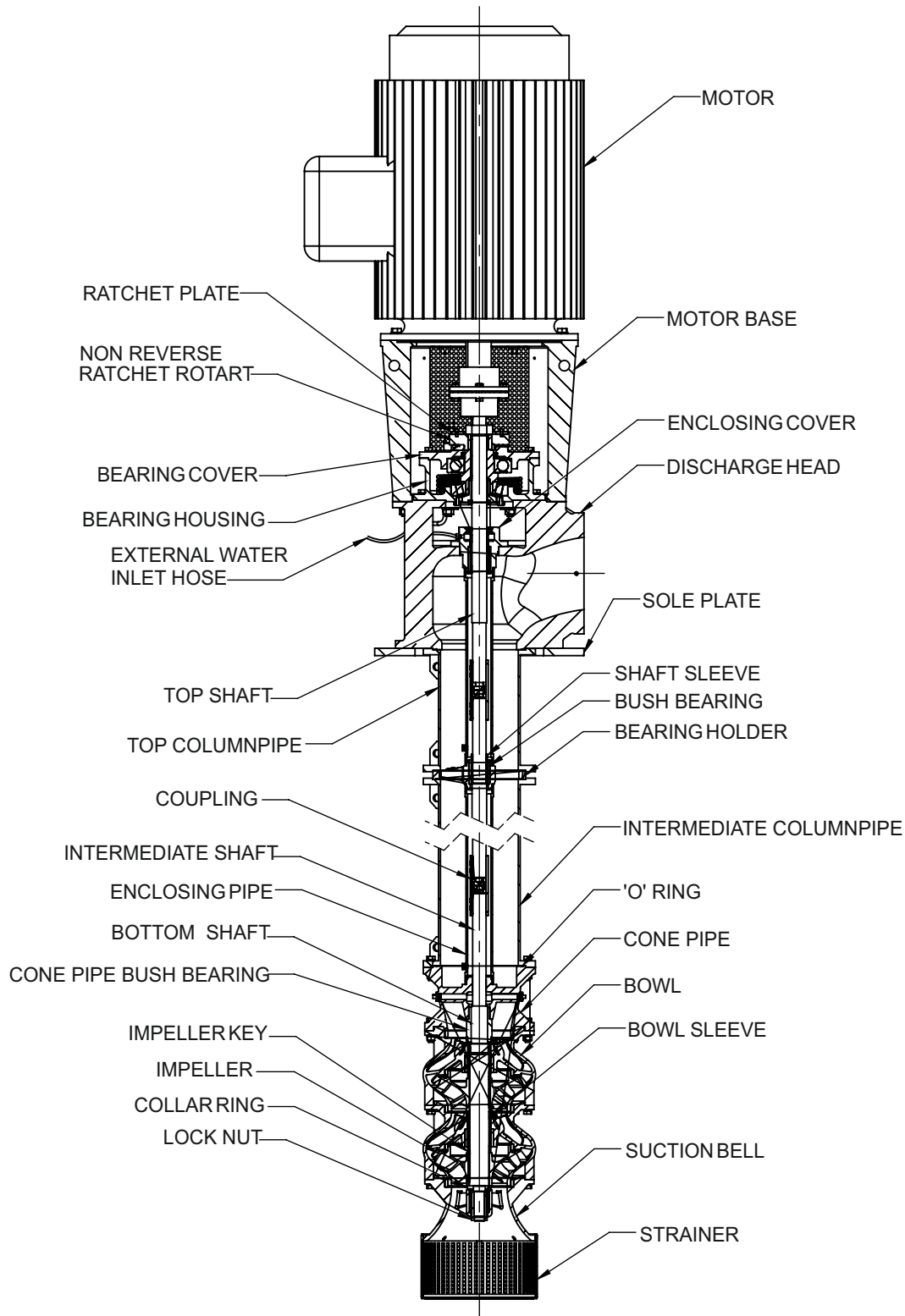


SELF WATER LUBRICATION

EXTERNAL CLEAR WATER / OIL LUBRICATION

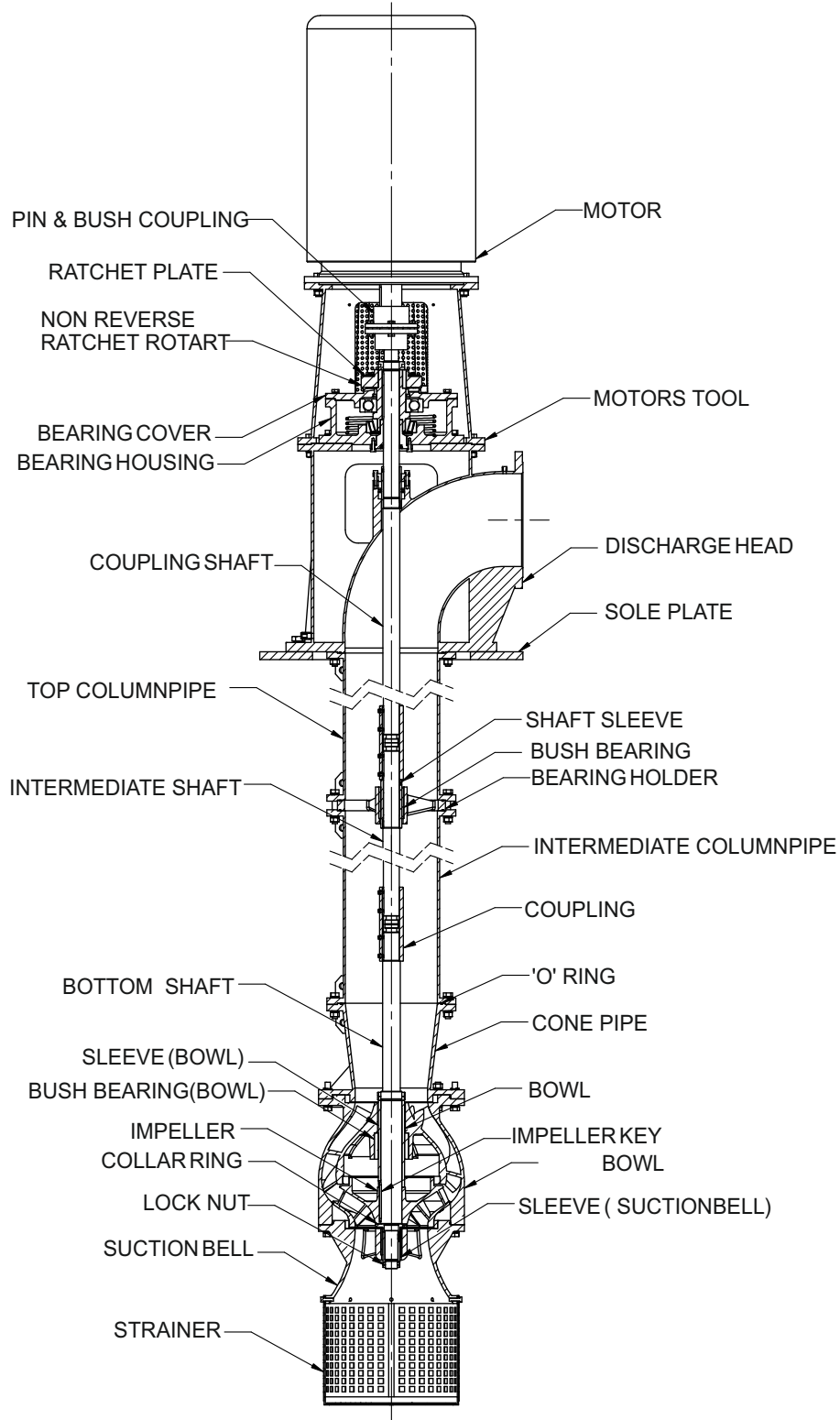
Model	L4	L5	L6	L7	D1	D2	n - Ød
VT - 40	200	90	116	619	175	25	8 - Ø11
VT - 70	200	100	134	646	202	30	8 - Ø11
VT - 115	212	108	155	688	235	35	8 - Ø12
VT - 170	209	170	175	734	282	40	12 - Ø14
VT - 270	212	160	201	782	325	45	12 - Ø14
VT - 400	213	168	230	825	340	50	12 - Ø14
VT - 500	214	185	249	920	365	55	12 - Ø18
VT - 700	320	205	276	1077	408	60	12 - Ø18
VT - 1000	355	235	418	1316	484	65	12 - Ø18
VT - 1600	400	269	478	1506	554	65	12 - Ø22
VT - 2300	431	287	476	1662	574	75	12 - Ø22
VT - 3300	479	320	533	1853	638	75	12 - Ø22
VT - 4500	602	385	672	2379	803	85	16 - Ø22
VT - 5500	638	440	756	2554	850	95	16 - Ø22
VT - 7300	698	485	830	2833	930	95	20 - Ø22
VT - 9500	818	555	970	3263	1090	100	24 - Ø22

# CROSS SECTION VIEW WITH SOLID SHAFT MOTOR FOR EXTERNAL CLEAR WATER LUBRICATION

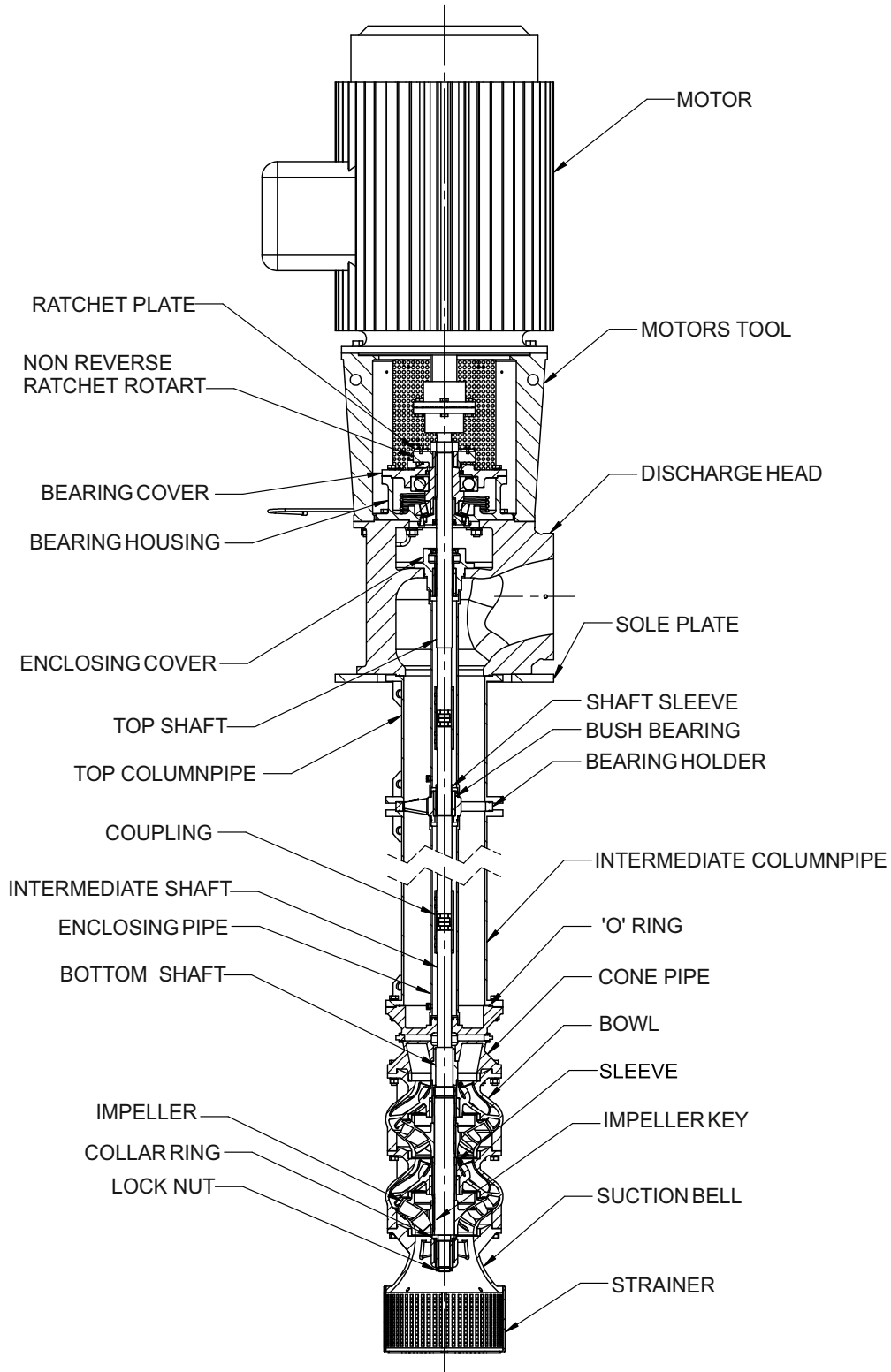




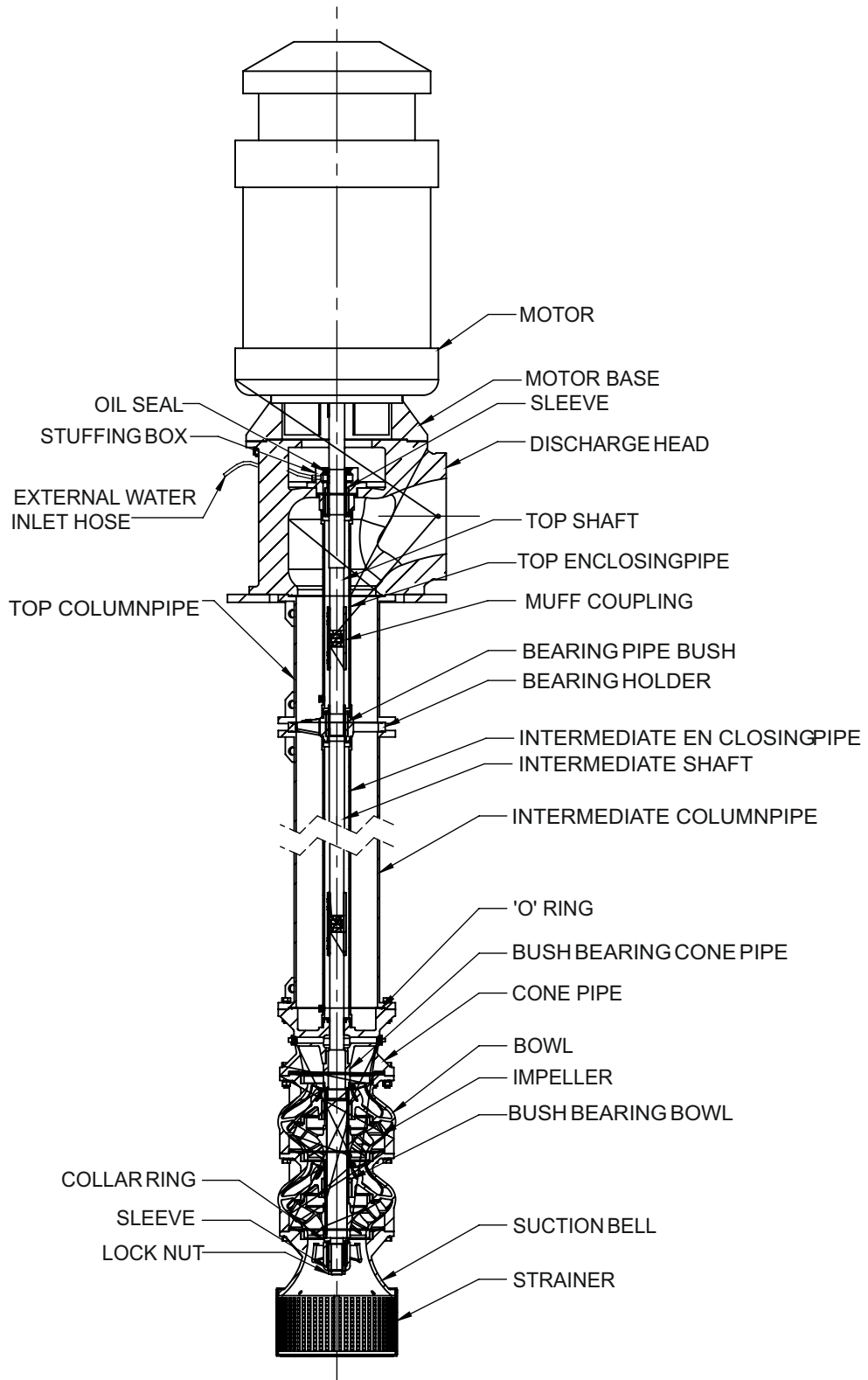
# CROSS SECTION VIEW WITH SOLID SHAFT MOTOR FOR SELF WATER LUBRICATION



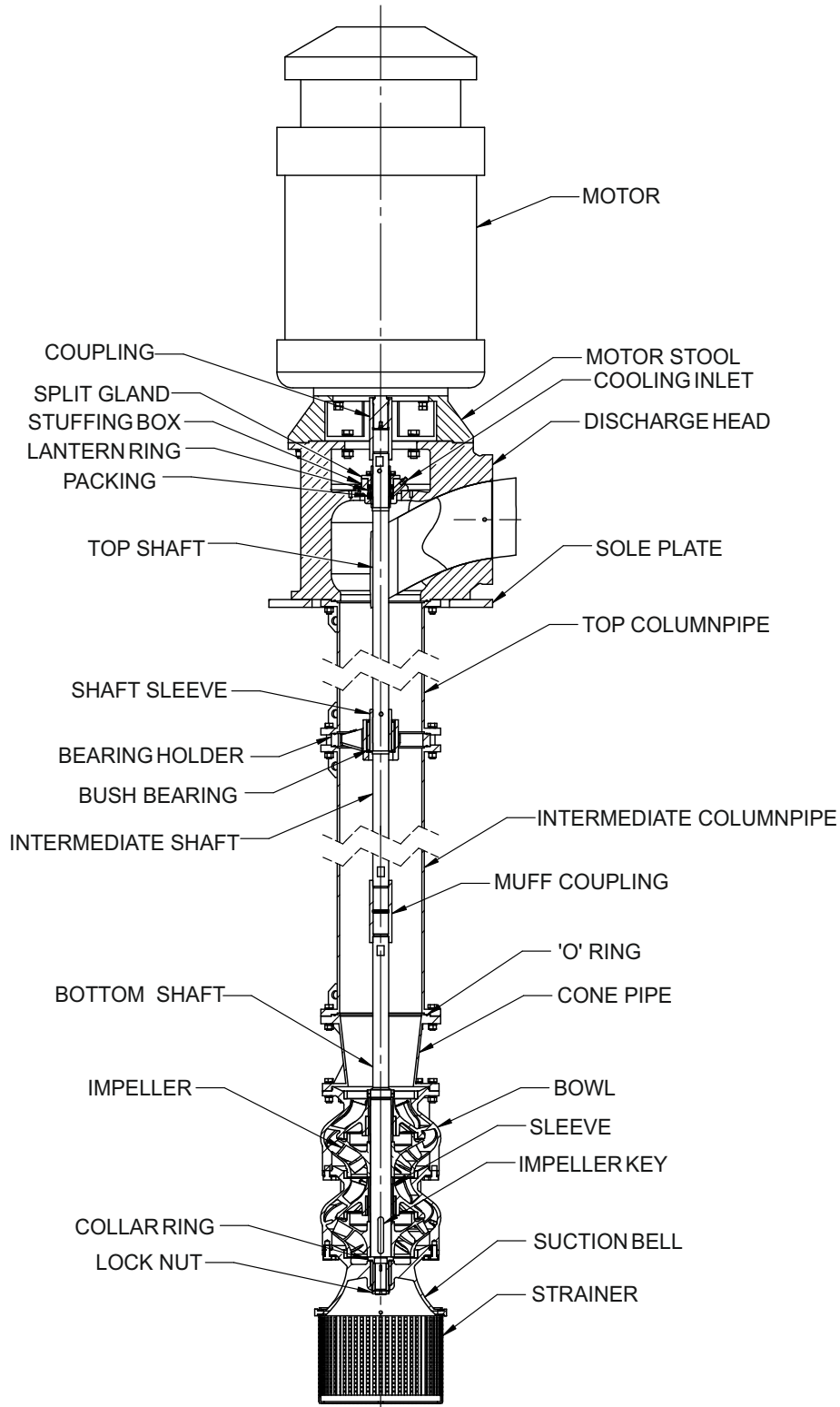
# CROSS SECTION VIEW WITH SOLID SHAFT MOTOR FOR OIL LUBRICATION



# CROSS SECTION VIEW WITH VERTICAL HOLLOW SHAFT MOTOR FOR SELF EXTERNAL CLEAR WATER LUBRICATION

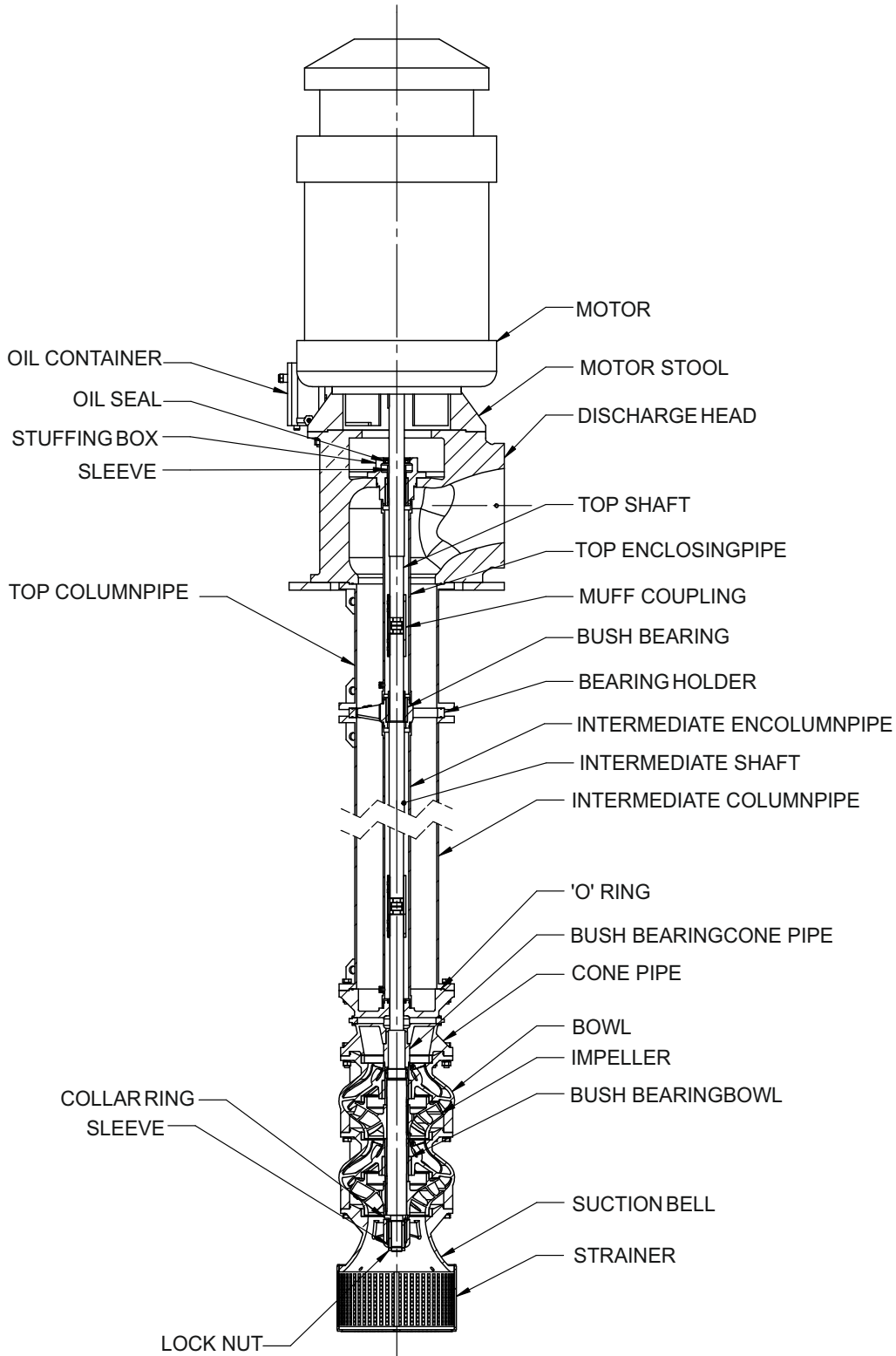


# CROSS SECTION VIEW WITH VERTICAL HOLLOW SHAFT MOTOR FOR SELF WATER LUBRICATION

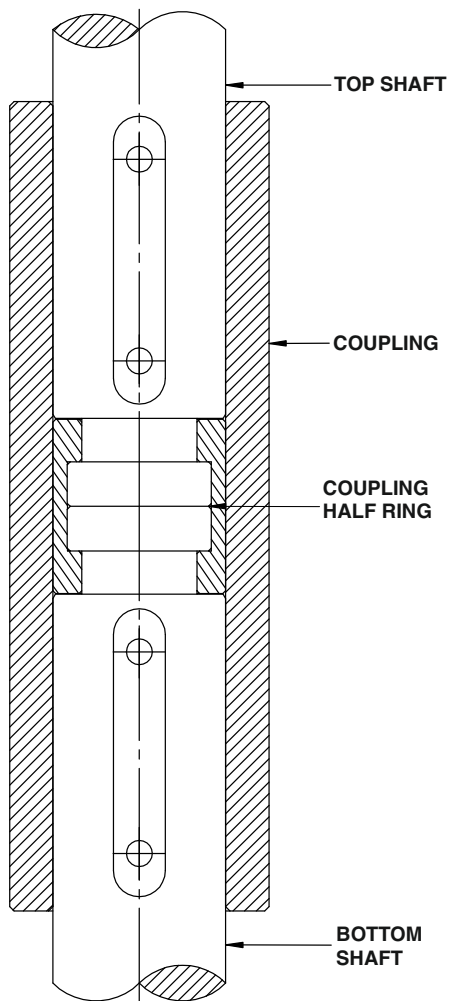




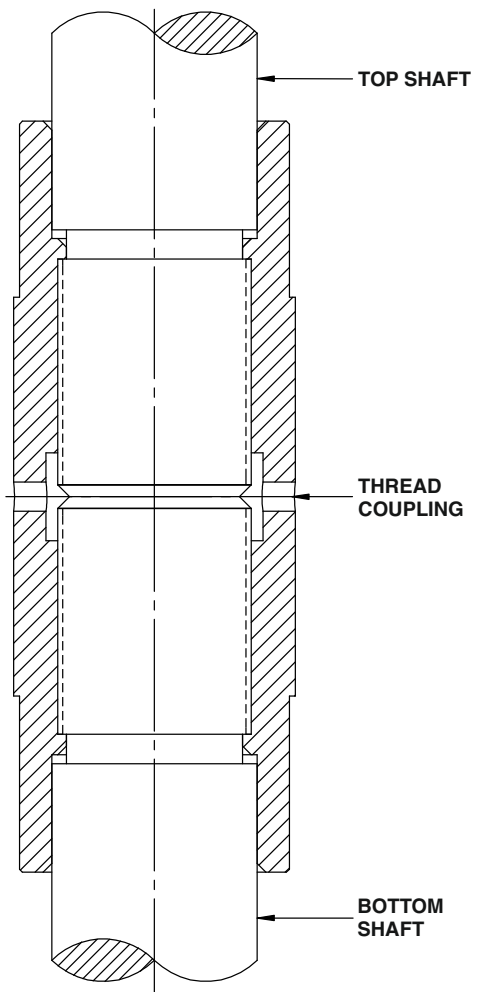
# CROSS SECTION VIEW WITH VERTICAL HOLLOW SHAFT MOTOR FOR OIL LUBRICATION



# LINE SHAFT COUPLING TYPES

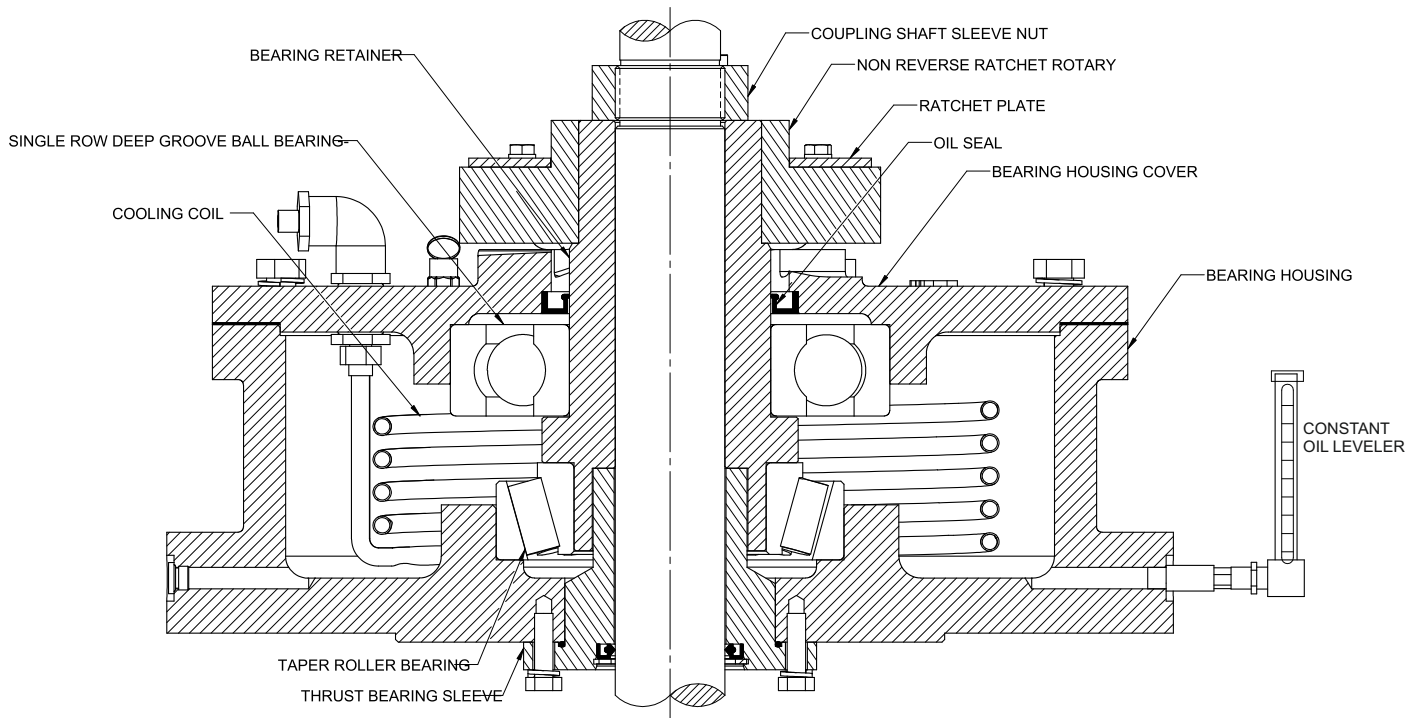


**MUFF COUPLING**



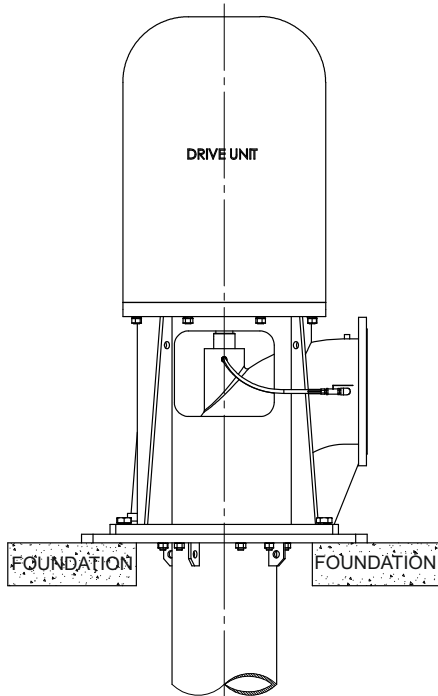
**THREAD COUPLING**

# THRUST BEARING WITH RATCHET ARRANGEMENT

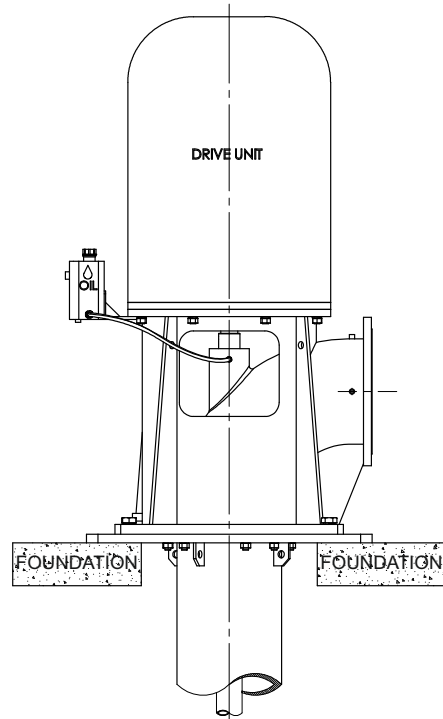


**THRUST BEARING ASSEMBLY WITH RATCHET ARRANGEMENT - ANTIFRICTION BEARING**

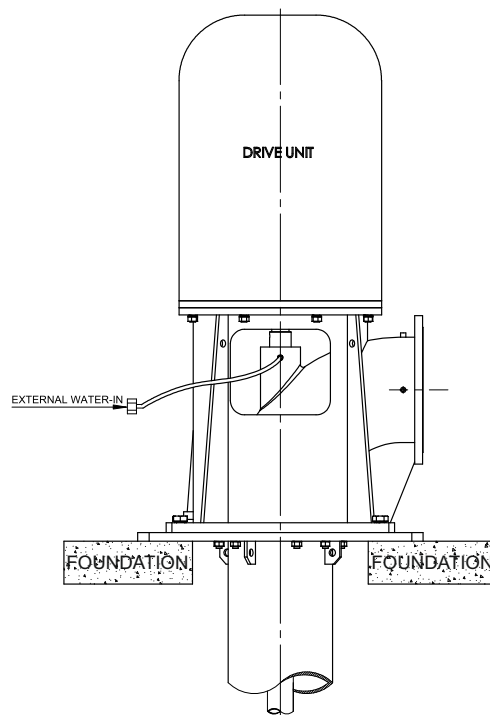
# LUBRICATION ARRANGEMENT



SELF WATER LUBRICATION



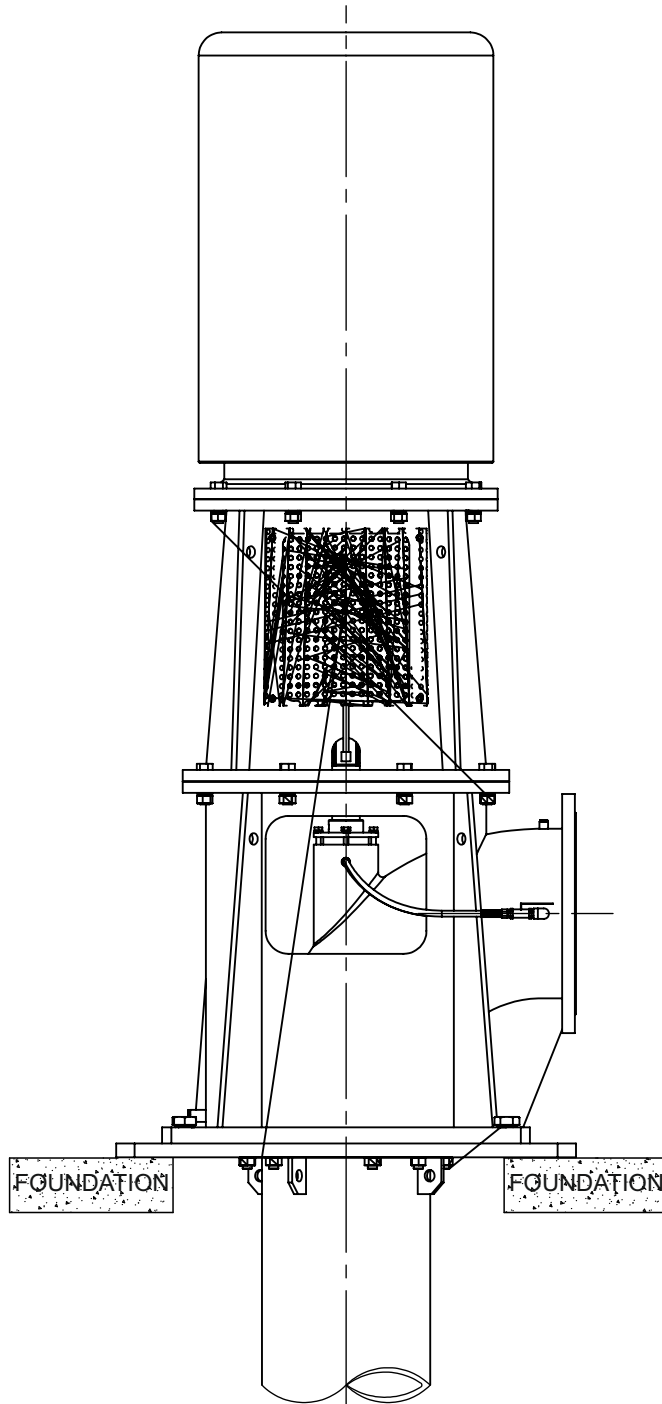
OIL LUBRICATION



EXTERNAL CLEAR WATER LUBRICATION

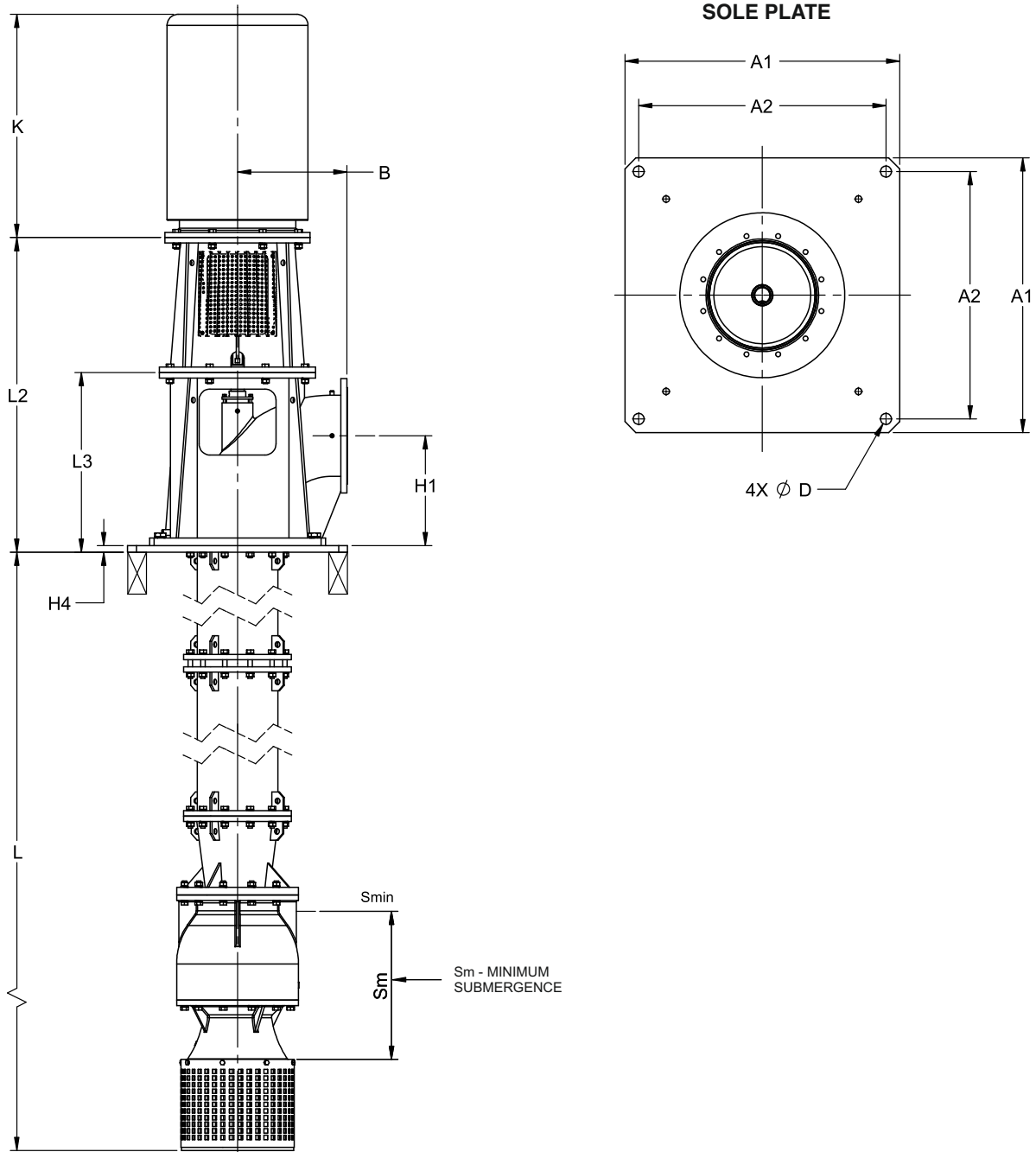


## DISCHARGE HEAD WITH ABOVE GROUND ARRANGEMENT



ABOVE GROUND ARRANGEMENT  
DISCHARGE HEAD - MOTOR DRIVEN

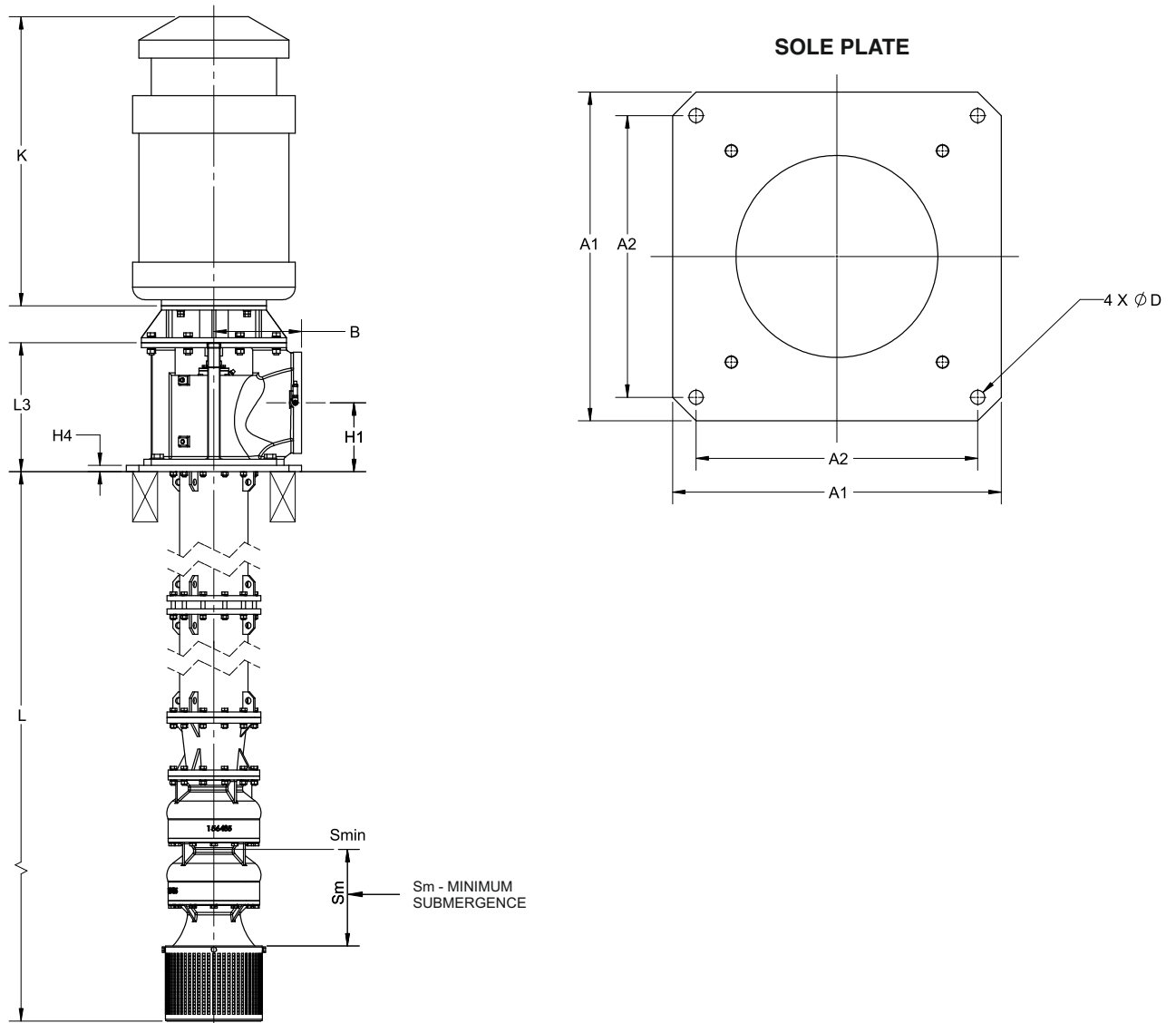
# GENERAL ARRANGEMENT DRAWING (GAD) WITH SOLID SHAFT MOTOR



## GENERAL DIMENSION & MOUNTING DETAILS FOR SOLID SHAFT MOTOR

MODEL	DN	A1	A2	n- ØD	H1	H4	B	Sm	L2	L3
VT40	150	520	430	4 - 30	175	25	260	295	800	405
VT70	150	520	430	4 - 30	175	25	260	330	800	405
VT115	150	520	430	4 - 30	175	25	260	380	800	405
VT170	150	520	430	4 - 30	175	25	260	485	850	405
VT270	200	560	450	4 - 30	200	25	280	535	910	445
VT400	200	560	450	4 - 30	200	25	280	585	940	445
VT500	250	560	450	4 - 30	250	30	350	635	1165	515
VT700	250	560	450	4 - 30	250	30	350	740	1165	515
VT1000	300	750	650	4 - 40	300	30	375	840	1300	746
VT1600	350	750	650	4 - 40	350	35	375	1040	1350	788
VT2300	450	900	750	4 - 40	450	35	500	1245	1350	800
VT3300	500	1300	1200	8 - 40	560	35	630	1425	1552	958
VT4500	700	1700	1500	8 - 40	770	40	850	1700	2089	1420
VT5500	700	1700	1500	8 - 40	770	40	850	1855	1923	1268
VT7300	800	1800	1650	8 - 40	870	40	900	2085	2071	1418
VT9500	900	2000	1840	8 - 40	970	40	950	2340	2610	1640

# GENERAL ARRANGEMENT DRAWING (GAD) WITH VERTICAL HOLLOW SHAFT MOTOR

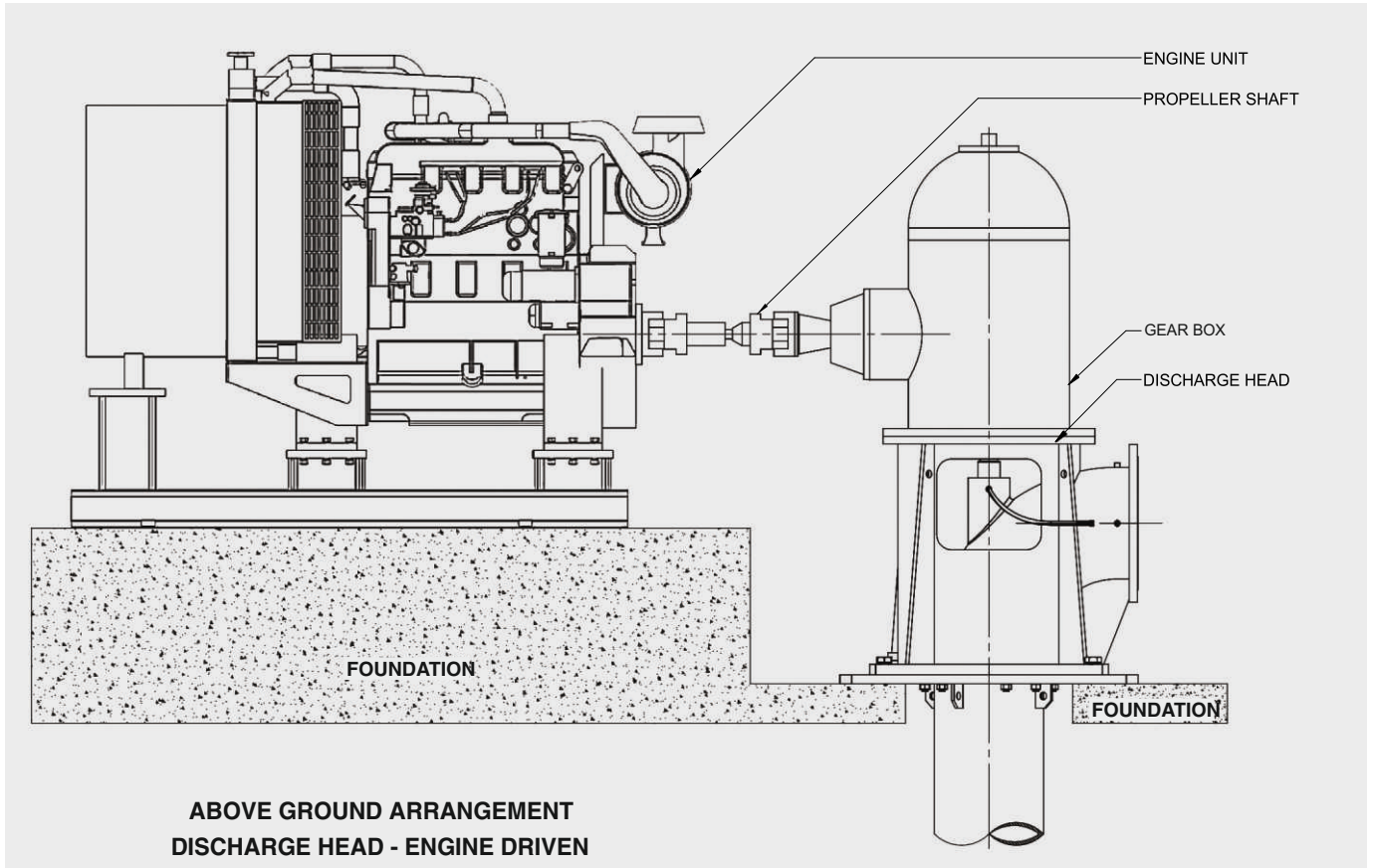




## GENERAL DIMENSION & MOUNTING DETAILS FOR VERTICAL HOLLOW SHAFT MOTOR

MODEL	DN	A1	A2	n- $\varnothing$ D	H1	H4	B	Sm	L3
VT40	150	520	430	4 - 30	175	25	260	295	405
VT70	150	520	430	4 - 30	175	25	260	330	405
VT115	150	520	430	4 - 30	175	25	260	380	405
VT170	150	520	430	4 - 30	175	25	260	485	405
VT270	200	560	450	4 - 30	200	25	280	535	445
VT400	200	560	450	4 - 30	200	25	280	585	445
VT500	250	560	450	4 - 30	250	30	350	635	515
VT700	250	560	450	4 - 30	250	30	350	740	515
VT1000	300	750	650	4 - 40	300	30	375	840	746
VT1600	350	750	650	4 - 40	350	35	375	1040	788
VT2300	450	900	750	4 - 40	450	35	500	1245	800
VT3300	500	1300	1200	8 - 40	560	35	630	1425	958
VT4500	700	1700	1500	8 - 40	770	40	850	1700	1420
VT5500	700	1700	1500	8 - 40	770	40	850	1855	1268
VT7300	800	1800	1650	8 - 40	870	40	900	2085	1418
VT9500	900	2000	1840	8 - 40	970	40	950	2340	1640

## ENGINE DRIVEN PUMP WITH RIGHT ANGLE GEAR BOX











# W I N N I N G W A Y S

When you have a good thing going it is quite in the fitting of things that recognitions come our way. Several prestigious awards, which decorate our shelf, say it all. These rewards not only acknowledge our position as a leader in the water pump industry but also serve as reminders about what the customer expects from a winner. And we, as ever, have our ears perfectly tuned to customer expectations.



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