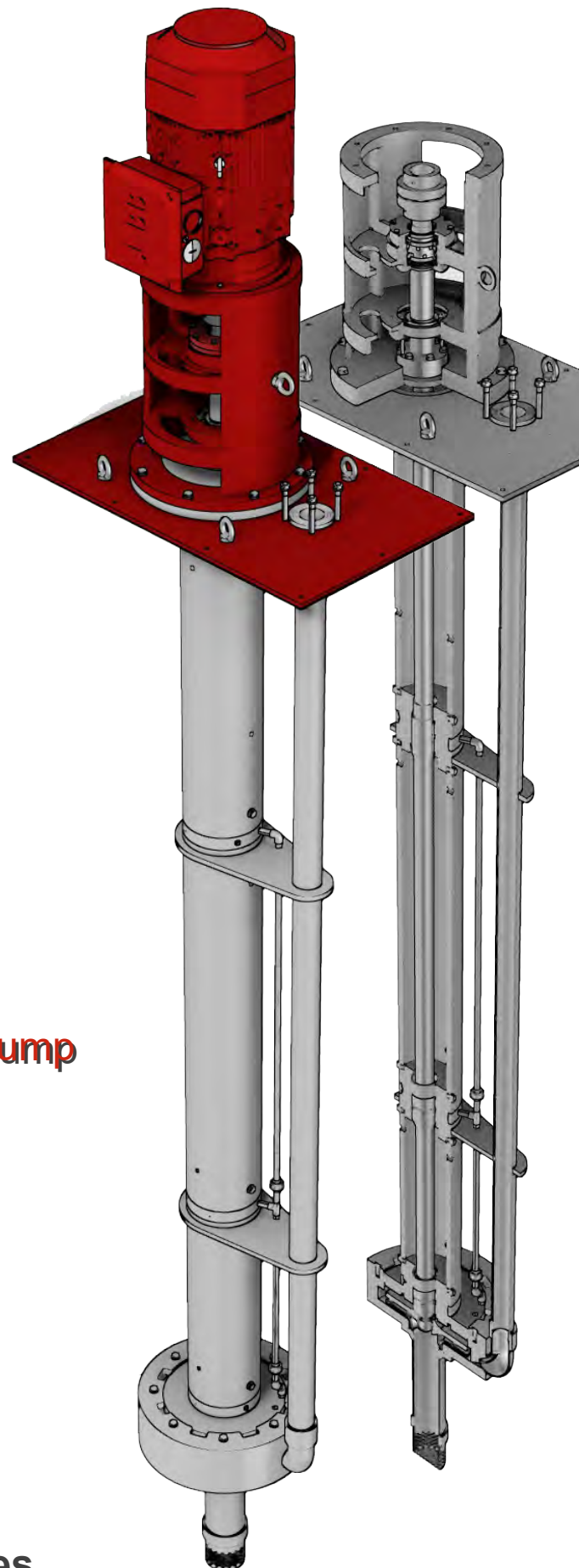




VPN Series

Anticorrosive vertical centrifugal sump pump



GENERAL CHARACTERISTICS

Very sturdily built vertical submerged centrifugal pumps with **column lengths of up to 4.500mm.**

The minimum start up liquid level of the pump is 100mm above of the pump casing.

According to customer needs, the suction prolongation filter pipe can be up to 3500mm.

It allows our VPN series to reach up to 8 m of suction depth

Under request INBEAT produces VPN series with **special arrangements** according end user technical specification, Offering a great flexibility and wide range of technical solutions.

The column bearings are constantly cooled by the pumping product or by the injection of external liquid if the process requires it due to the presence of abrasive elements, thereby protecting the bearings of the unit.

The **vapour-tightness** of the column of the unit is achieved by anticorrosion seals.

DRIVES & SUPPORT BEARINGS

The bearing units are divided into 3 types according to the power required by the process, with the possibility of attaching high power motors of up to size **IEC 315.**

The robustness of the support bearings ensures adequate mechanical resistance to the most demanding operations.

APPLICATIONS

VPN series are widely used in processes involving highly corrosive chemical substances.

The scope of uses of VPN series are wide-ranging: **Chemical industry, Water tratment Processes such as Desalination, steel industry, environment industry, etc.**

Features:

Flows: Up to 450 m³/h - **Head** up to 130 m.c.l.

Immersion length up to 4500 mm

Prolongation filter pipe from 100 mm up to 3500 mm

Materials: PP / PVDF / PEH / GRP / PVC



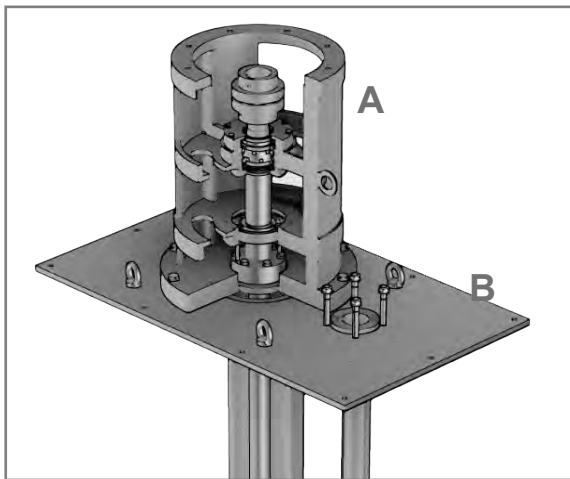
A. SUPPORT BEARINGS

Reliable and robust pump motor support, capable to handle drives up to IEC 315 sizes.

- » Independent support bearing shaft.
- » Axial and radial bearings for a heavy duty efforts support.
- » Depending on assembling pump characteristics, independent removable support bearings from pump cane elements.

B. BASE PLATE

Special dimension design available under request.



C. SLEEVE BEARINGS FLUSHING

Several flushing arrangements:

- » Process fluid / External flushing

D. SLEEVE BEARINGS

Depending the cane length; Up to 3 sleeve bearings for a correct and stable mechanical running.

Several materials Available:

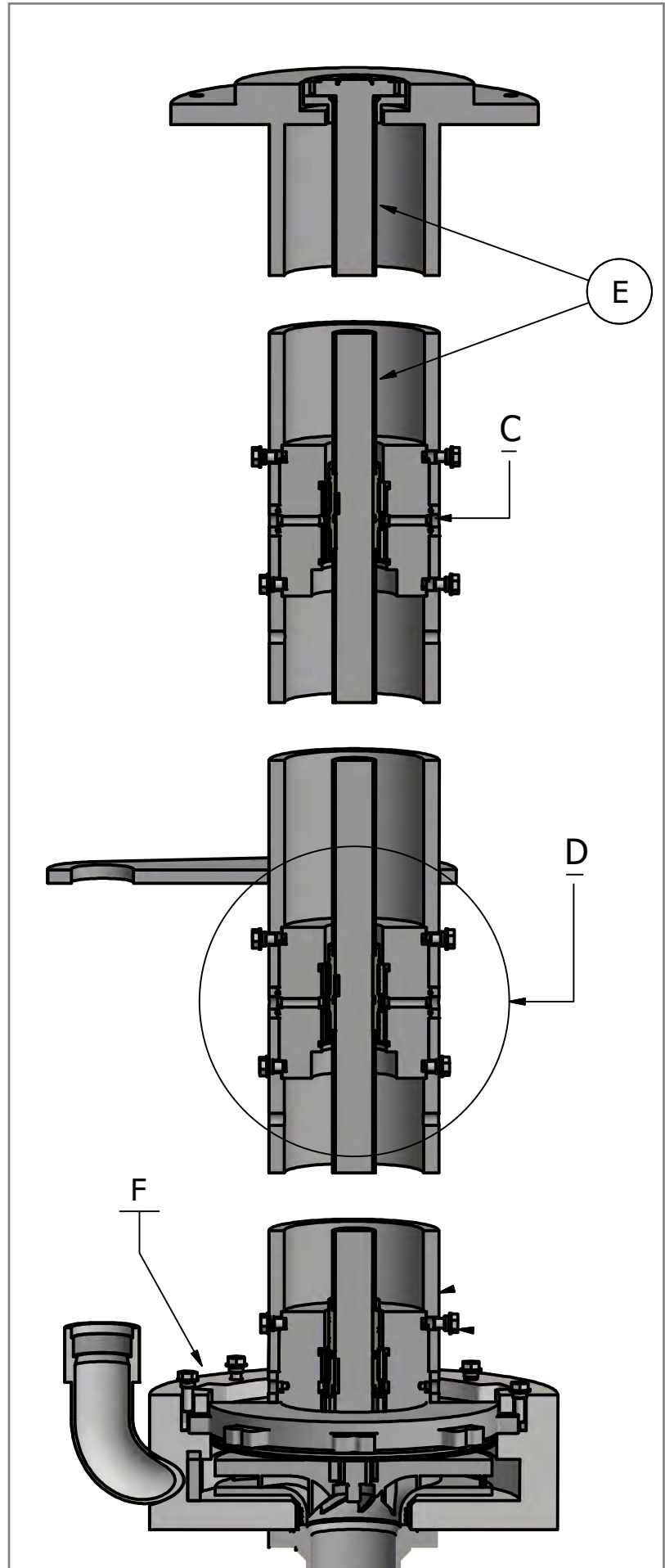
- » Graphite / Special alloys

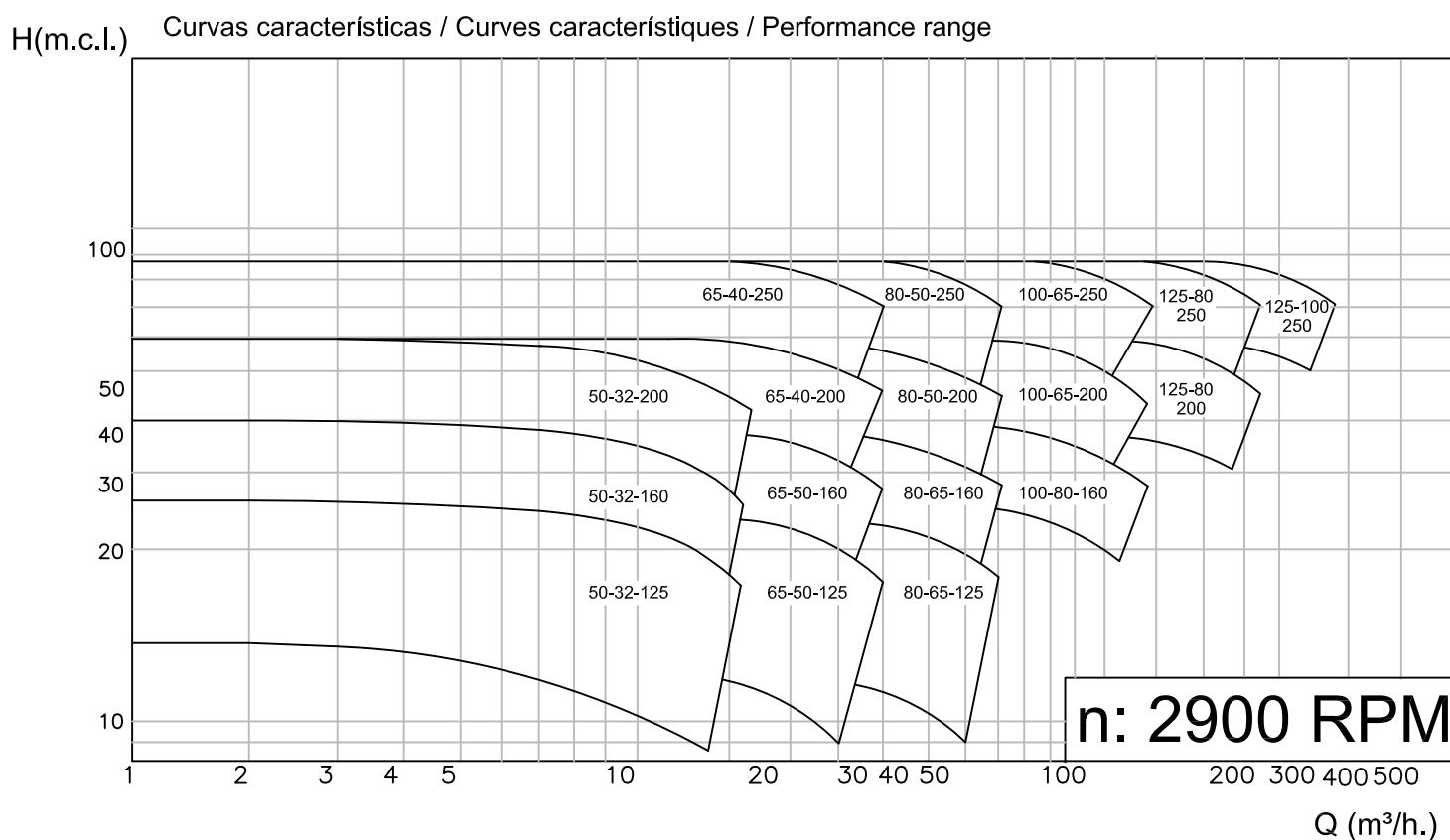
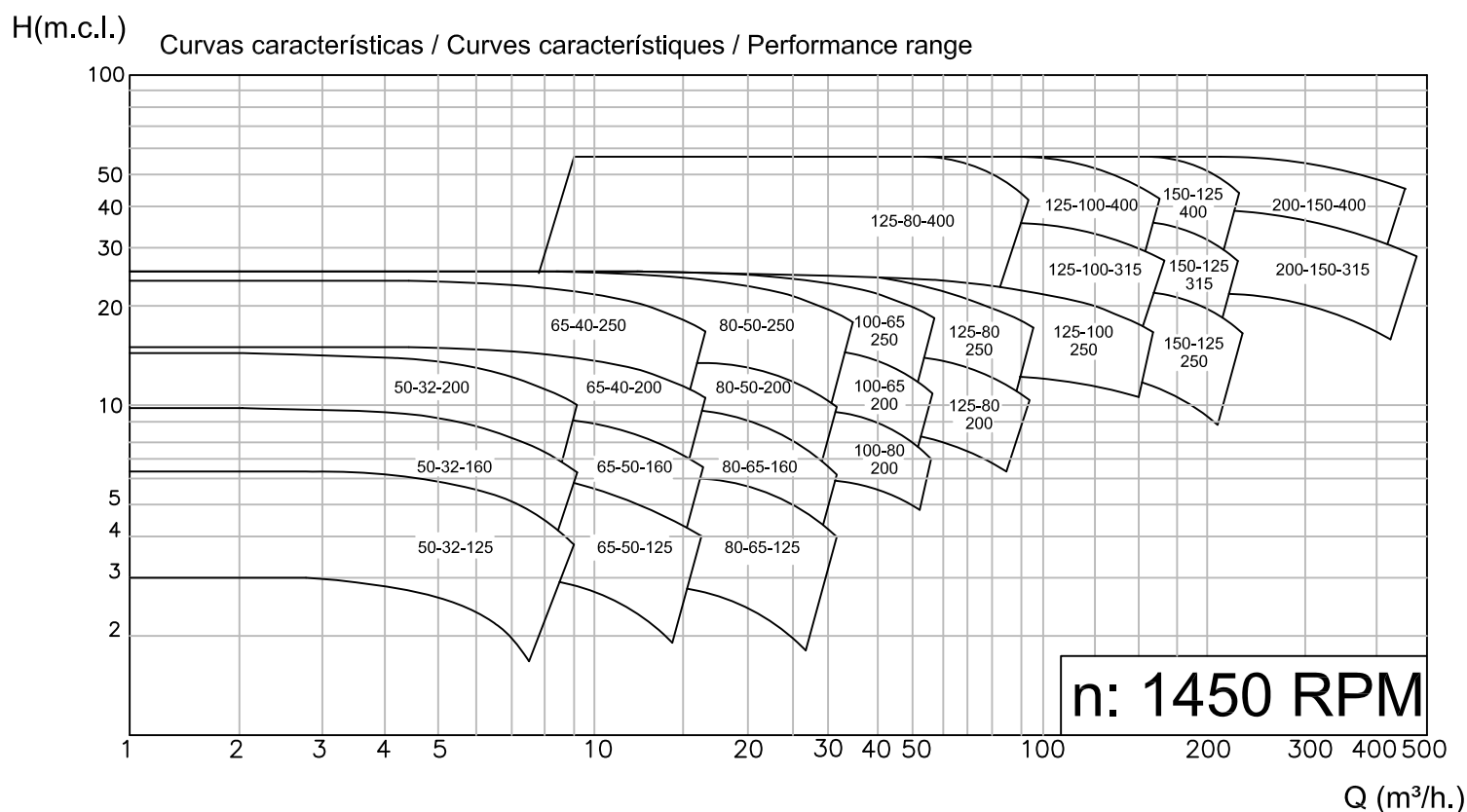
E. SHAFT PROTECTION

All wetted parts protected against corrosion. Shaft sleeve in thermoplastic material.

F. BAYONET ASSEMBLY SYSTEM

Bayonet assembly type for Pump body and casing cover with anti-rotation thermoplastic screws. Avoids corrosion risk and ease the open-close maintenance operation.





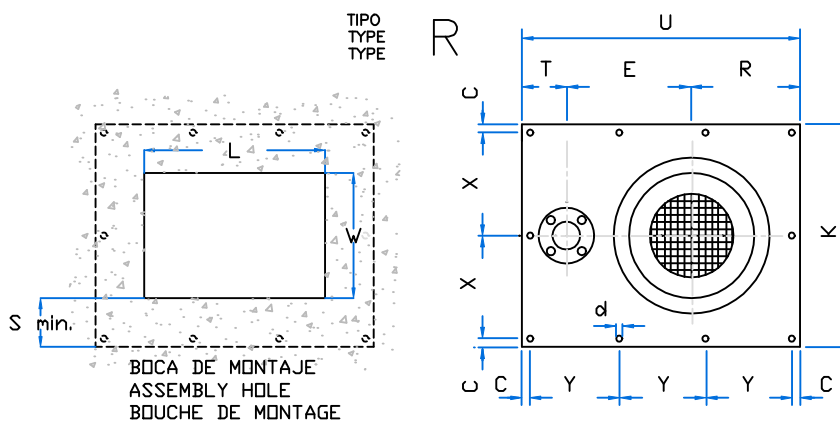
PERFORMANCE CURVES TESTS:

According ISO 9906 - Grade 2 & 1E

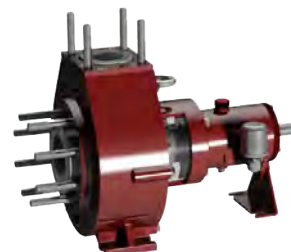


BRIDAS / FLANGES / BRIDES - ISO 7005-1 PN-16

TIPO TYPE TYPE	DN	ET	F	B max.	E	H	D	PLACA BASE BASE PLATE PLAQUE D'ASSISE
32-125	32	1000 / 1500 / 2000 / 2500 / 3000 / 3500 / 4000 / 4500 mm	SEGÚN ESPECIFICACIONES DEL USUARIO ACCORDING END USER SPECIFICATIONS SELON SPECIFICATIONS DE L'UTILISATEUR	465	245	395	260	R2
32-160						413	280	R2
32-200						423	300	R2
50-125	50				275	460	290	R3
50-160						465	300	R3
50-200						502	375	R3
50-250						515	400	R3
50-315	370			645		470	R5	
80-160				320		550	350	R4
						575	400	R4
					595	440	R4	
80-250	80			370	660	470	R5	
675					500	R5		
80-315				530	863	520	R6	
80-400	883				560	R6		
100-250	100			650	1023	600	R7	
100-315				530	890	560	R6	
100-400					890	560	R6	
125-250	125			650	1030	600	R7	
125-315					1050	600	R7	
125-400	1050				600	R7		
150-250	150				1050	600	R7	
150-315				700	1200	700	R8	
150-400								
150-500								



PLACA BASE / BASE PLATE / PLAQUE D'ASSISE													MONTAJE/ASSEMBLY/MONTAGE		
Nº	K	U	T	E	R	C	X	Y	d	e	L	W	S min.		
R2	490	616	125	245	246	20	—	192	14	15	435	310	90		
R3	550	725	150	275	300	25	—	225	14	20	525	410	70		
R4	650	833	163	320	350	25	300	261	14	20	605	450	100		
R5	720	1059	230	370	459	30	330	333	14	20	685	510	105		
R6	720	1200	310	530	360	30	330	380	14	20	900	570	75		
R7	820	1300	240	650	410	30	380	310	14	20	1060	610	105		
R8	920	1400	210	700	490	30	430	335	14	20	1210	710	95		



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