

**Axially split , double volute, multistage pumps**

**API 610 8<sup>th</sup> edition**

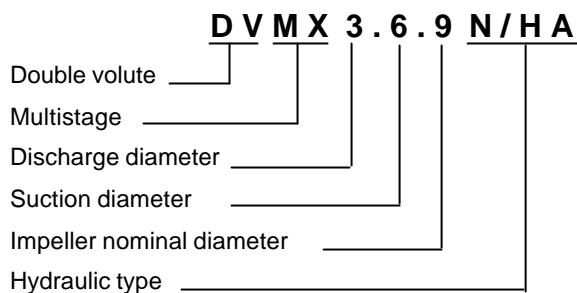
**Applications**

Sea water injection, crude oil and hydrocarbons handling, gas treatment, boiler feed water, energy recovery turbine, in refineries and HPI applications.

**Operating data**

		50Hz	60Hz
DN	mm	80 to 250	80 to 250
	inches	3 to 10	3 to 10
Capacity	m <sup>3</sup> /h	to 1600	1800
	Usgpm	7045	7925
T.M.H	m	to 1500	2000
	Ft	5000	6666
Pressure	bar	max 265	265
	Psi	3850	3850
Temp.	°C	to +205	+205
	°F	+400	+400
Speed	rpm	to 6000	6000

**Designation**



**Pump design**

Horizontal, axially split, double volute casing, single or double suction first impeller. Centerline mounted. Impellers assembled in back to back arrangement ensure hydraulic balance, reduce axial loads and decrease wear.

Full compliance with **API 610 8<sup>th</sup> edition**, including **API 682** seal chamber dimensions.

**Materials**

According to **API 610 8<sup>th</sup> edition** : S1, S5, S5LCB, S6, S8, C6, A8, D1.

**Shaft seal**

Single or double acting mechanical seal (pressurized or unpressurized). Gland packing as option.

**Bearings**

Ball bearings, sleeve bearings or tilting pads bearings in accordance with pumping conditions. Splash lubrication or pressurized with lubrication oil unit.

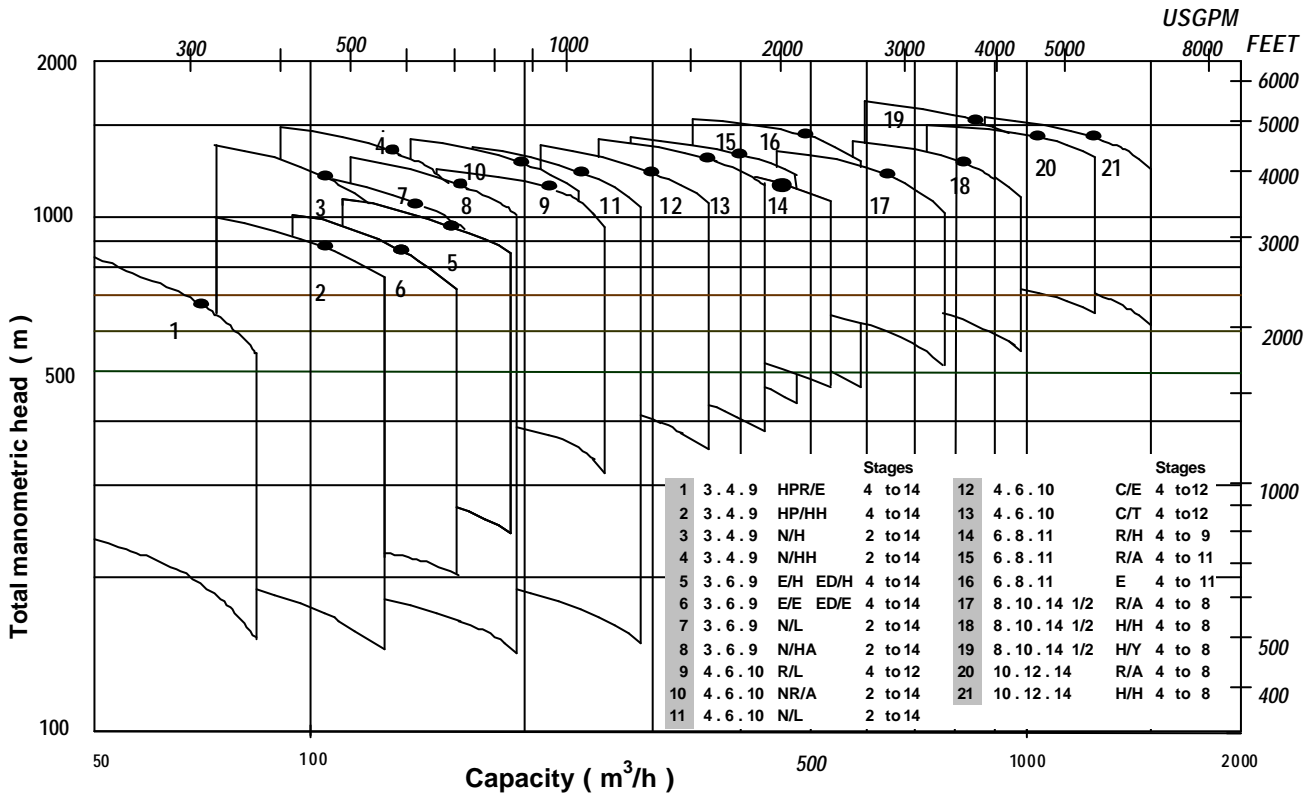
**Drive**

Electrical motor, diesel engine, steam or gas turbine, speed converter, clutch, ...

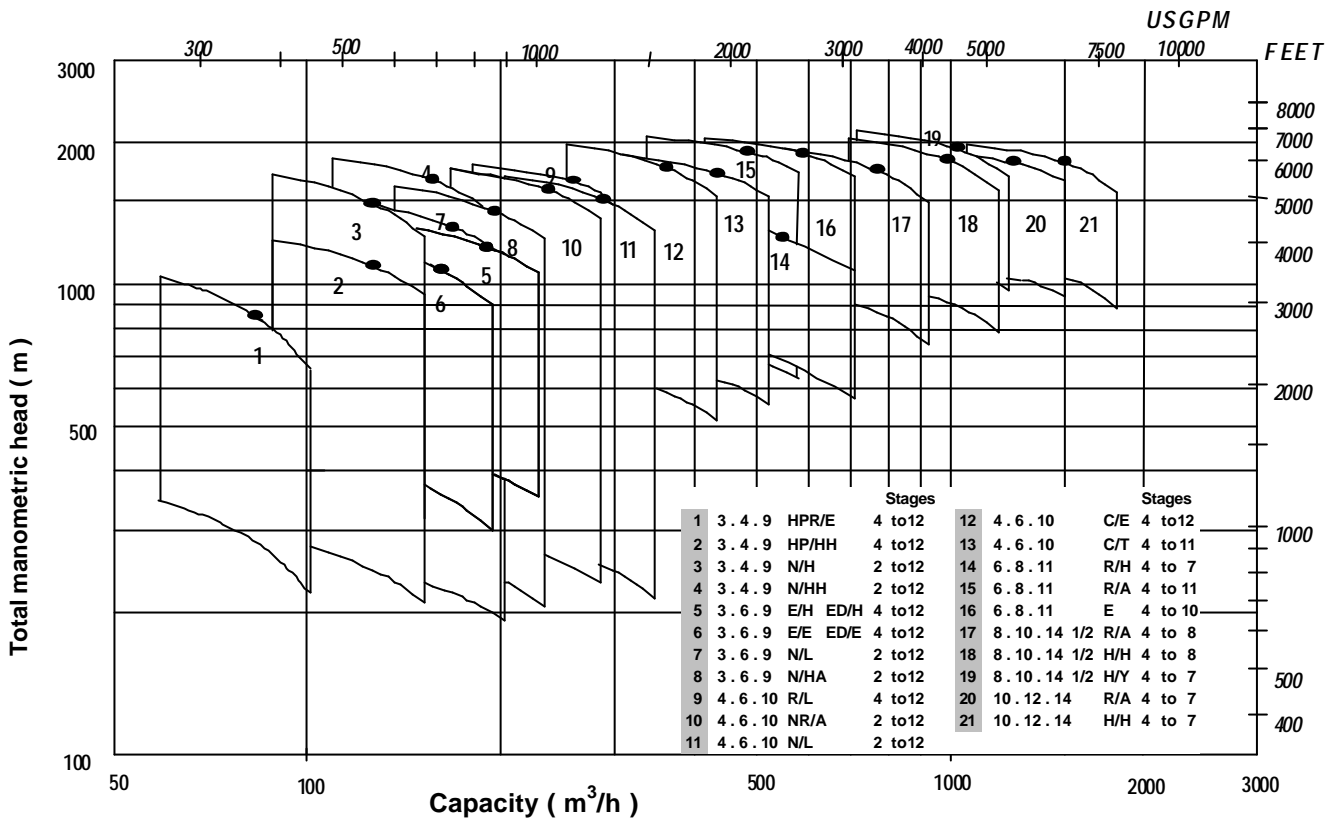
**Support**

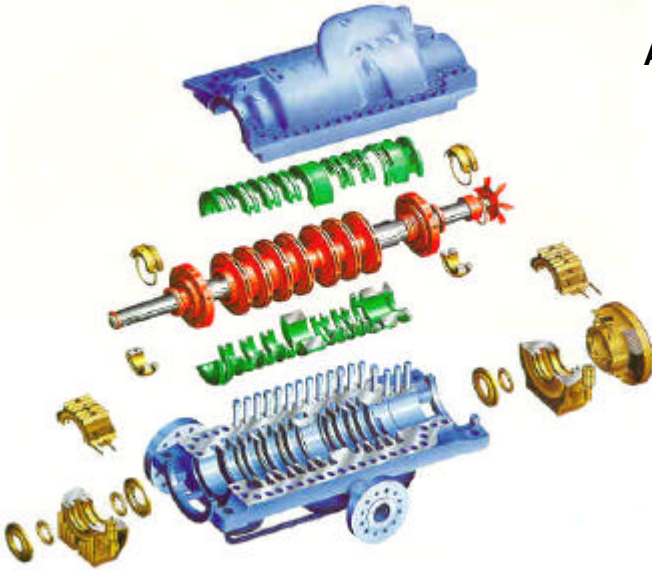
Rigid base frame with or without concrete grouting. A concept without concrete is specially designed for off-shore applications (3 points base frame).

**HYDRAULIC CHARACTERISTICS 50 Hz 2970 rpm**



**HYDRAULIC CHARACTERISTICS 60 Hz 3580 rpm**





### A complete axially split design

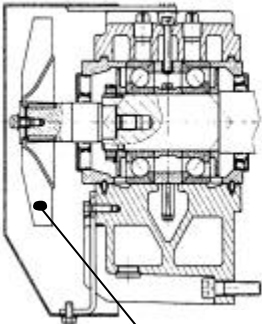
Axially split design permits easy inspection of the rotor parts :

- without disconnecting the piping from the pump
- without dismantling the pump from the base frame
- without dismantling the coupling ( alignment )

And, eventually to change some wear parts ( e.g. : casing wear rings )

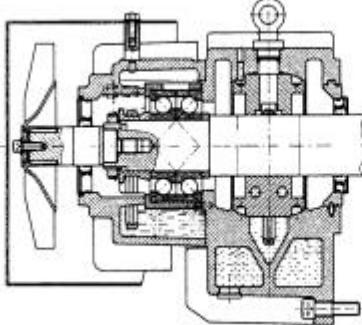
### Available bearings arrangements in compliance with pumping conditions

**Ball bearing /  
thrust ball bearing**

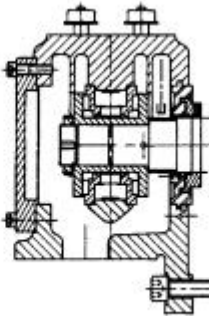


Fan as option

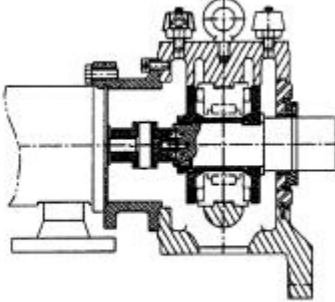
**Sleeve bearing /  
Thrust ball bearing**



**Tilting pads bearing / thrust tilting pads bearing**

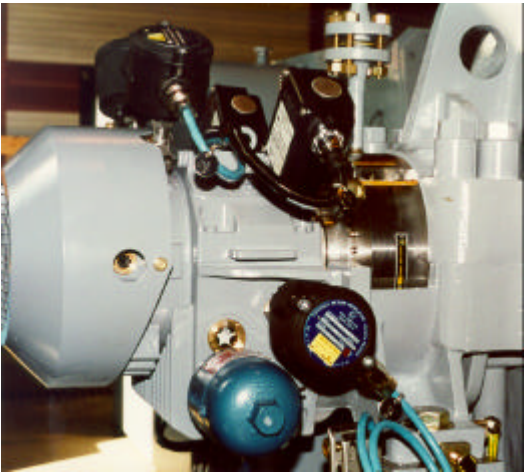


**OPTION :  
Direct driven oil pump**



To ensure the best safety of the pumping unit, all the control and alarm systems can be fitted on the pump :

Vibration sensors, seal leakage detectors, thermometers, displacement sensors, etc...



**DVMX API 610 8<sup>th</sup> edition**

Standard seal chamber :

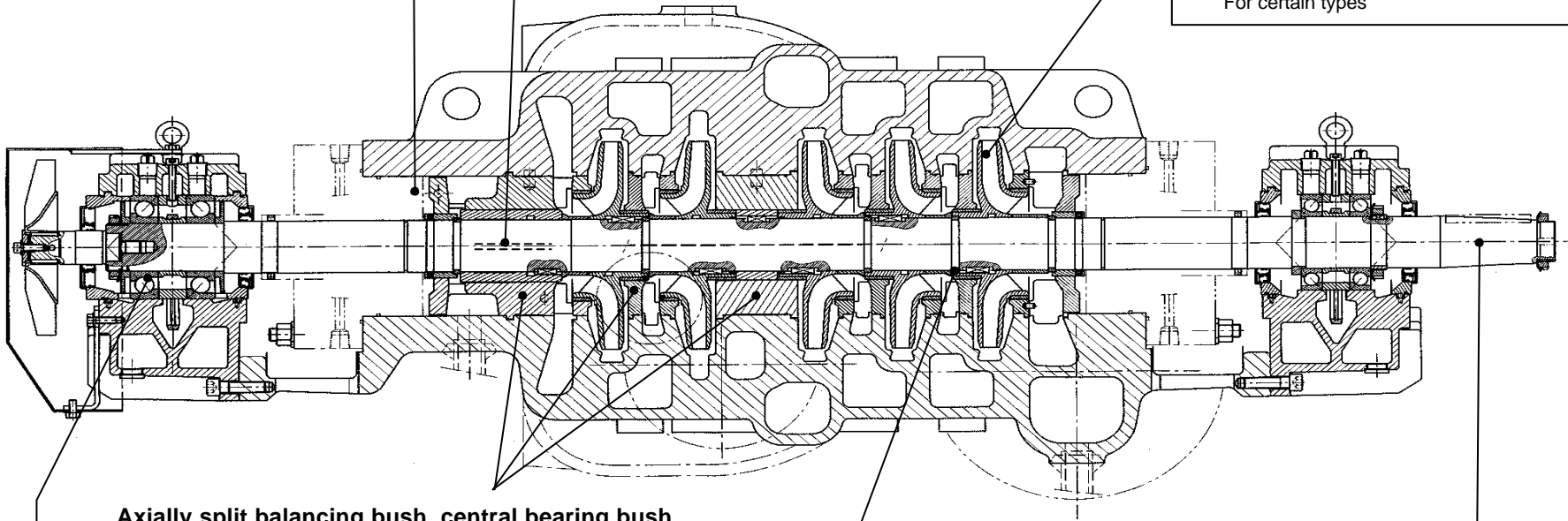
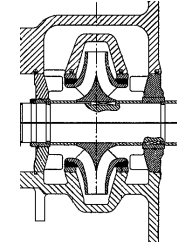
- API 682 table 1

Casing gasket asbestos free

Double suction  
impeller \* :

- Lower N.P.S.H.  
performance  
available

\* For certain types



Axially split balancing bush, central bearing bush,  
wear rings :

- Direct access to the rotor
- Anti-rotation pin fitted

Ball bearings directly fitted on the shaft :

- API § 2.9.1.3

Individually secured impellers :

- API § 5.2.2.1

Taper end shaft :

- API § 3.2.4