

Pump classes

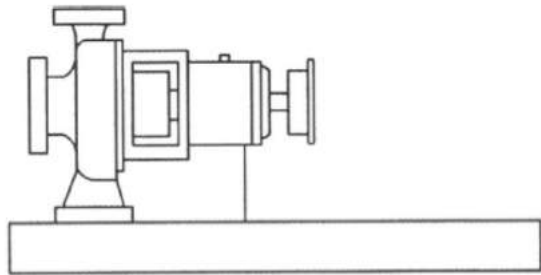
Classified by 「American Petroleum Institute」 API 610

Pump type			Orientation		Type code	
Centrifugal pumps	Overhung	Flexibly coupled	Horizontal	Foot-mounted	OH1	
				Centreline-supported	OH2	
		Rigidly coupled	Vertical in-line	Vertical in-line with bearing bracket	OH3	
				Vertical in-line	OH4	
		Close-coupled	Vertical in-line	Vertical in-line	OH5	
				High-speed integrally geared	OH6	
	Between-bearings	1- and 2-stage	Axially split	Radially split	BB1	
				Radially split	BB2	
		Multistage	Axially split	Radially split	BB3	
				Radially split	Single casing	BB4
					Double casing	BB5
	Vertically suspended	Single casing	Discharge through column	Diffuser	VS1	
				Volute	VS2	
				Axial flow	VS3	
			Separate discharge	Line shaft	VS4	
				Cantilever	VS5	
		Double casing	Diffuser	Diffuser	VS6	
Volute				VS7		

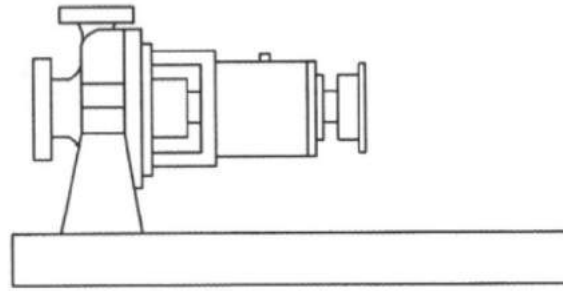
Pump types

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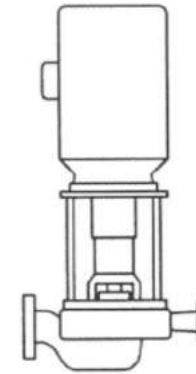
【Overhung】



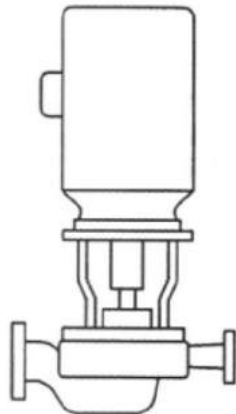
OH1



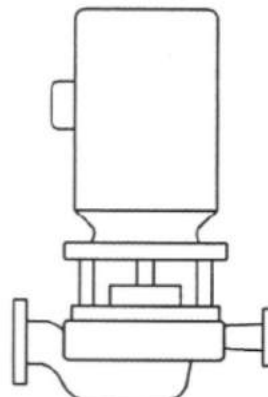
OH2



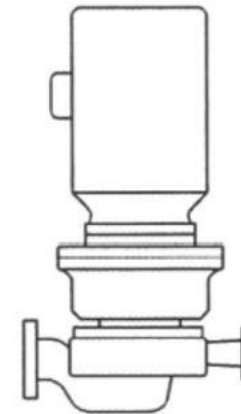
OH3



OH4



OH5

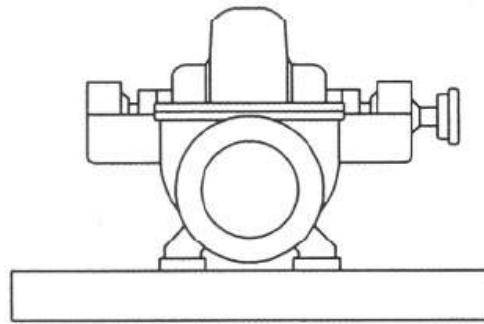


OH6

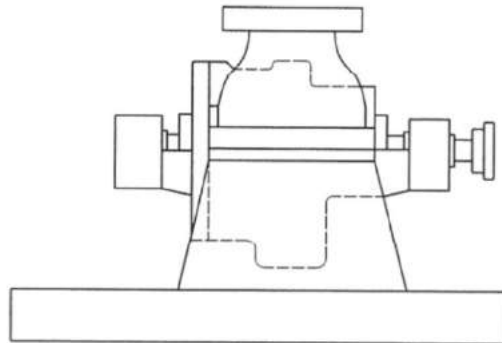
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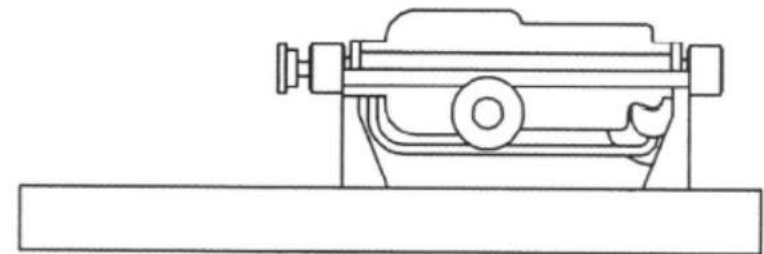
[Between-bearings]



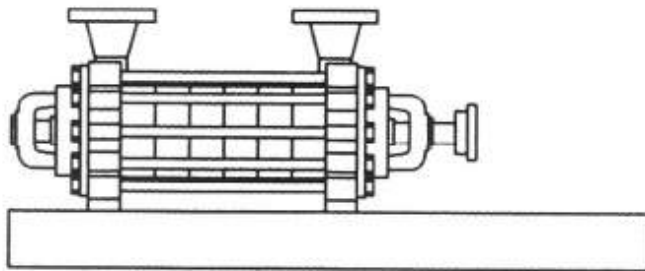
BB1



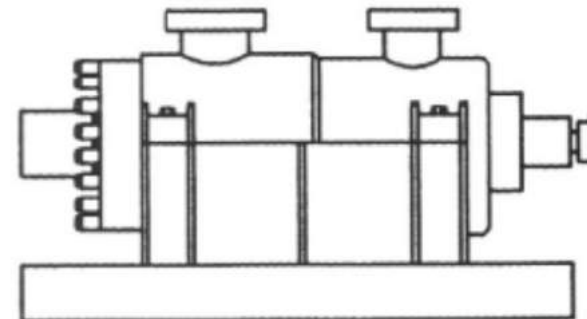
BB2



BB3



BB4

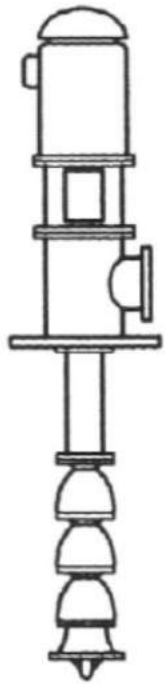


BB5

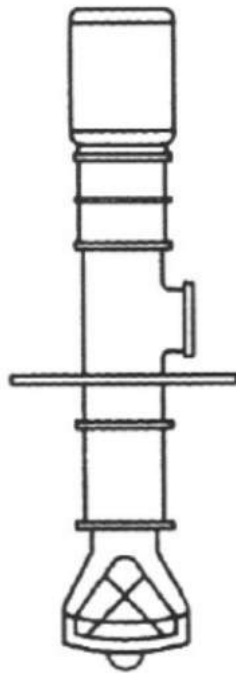
Pump types

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[Vertically suspended]



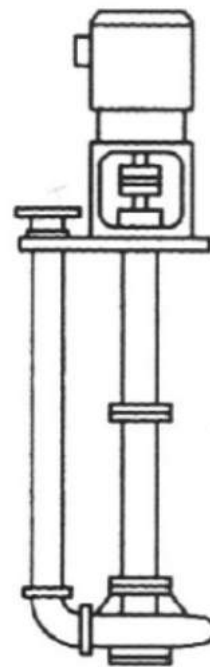
VS1



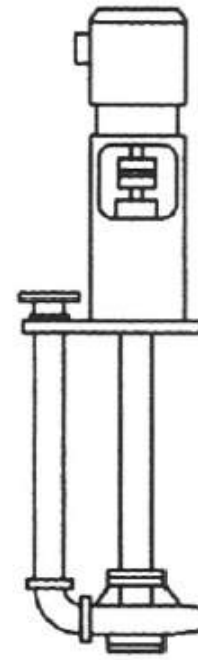
VS2



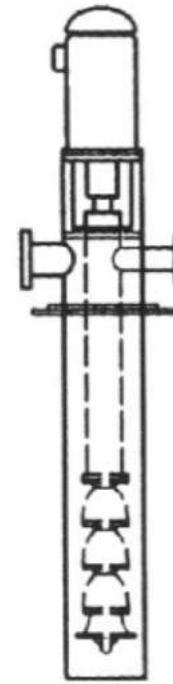
VS3



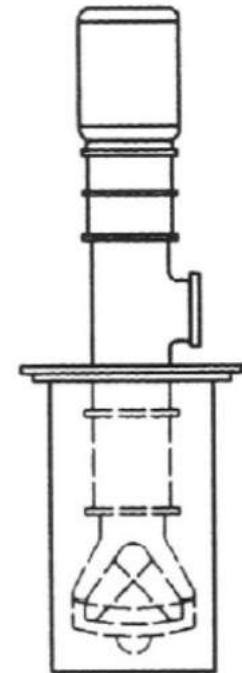
VS4



VS5



VS6



VS7

Pump features

API 610 Type code	Nos. of stages	Casing	Impeller type	Nos. of pump shafts	Radial bearing	Axial bearing	Coupling with driver	Mounting
OH1	1	Volute	Single or Double suction	1	Pump	Pump	Flexible	Foot
OH2	1	Volute	Single suction	1	Pump	Pump	Flexible	Centerline
OH3	1	Volute	Single suction	1	Pump	Pump	Flexible	Piping or Foot
OH4	1	Volute	Single suction	1	Pump	Motor	Rigid	Piping or Foot
OH5	1	Volute	Single suction	0	Pump	Motor	Not required	Piping or Foot
OH6	1 ~ 3	Volute	Single suction	2	Pump	Pump	Gear	Piping or Foot
BB1	1	Volute	Double suction	1	Pump	Pump	Flexible	Foot
BB2	1 or 2	Volute	Double or Single suction	1	Pump	Pump	Flexible	Centerline
BB3	3	Volute or Diffuser	Single or Double suction	1	Pump	Pump	Flexible	Semi-centerline
BB4	3	Diffuser	Single or Double suction	1	Pump	Pump	Flexible	Centerline
BB5	3	Volute or Diffuser	Single or Double suction	1	Pump	Pump	Flexible	Centerline
VS1	1	Diffuser	Single or Double suction	1	Pump	Motor or Pump	Rigid or Flexible	Flange
VS2	1	Volute	Single suction	1	Pump	Motor or Pump	Rigid or Flexible	Flange
VS3	1	Axial	Single suction	1	Pump	Motor or Pump	Rigid or Flexible	Flange
VS4	1	Volute	Single suction	1	Pump	Motor or Pump	Rigid or Flexible	Flange
VS5	1	Volute	Single suction	1	Motor	Motor	Rigid	Flange
VS6	1	Diffuser	Single or Double suction	1	Pump	Motor or Pump	Rigid or Flexible	Flange
VS7	1	Volute	Single suction	1	Pump	Motor or Pump	Rigid or Flexible	Flange

Pump uses

API 610 Type code	Industries								
	Oil refinery	Chemical	Power generation	Water	Sewage	Building	Food	Pulp	Ship
OH1									
OH2									
OH3									
OH4									
OH5									
OH6									
BB1									
BB2									
BB3									
BB4									
BB5									
VS1									
VS2									
VS3									
VS4									
VS5									
VS6									
VS7									