

Regent pumps

A U S T R A L I A

founded 1948

RPZ Series API610 Pumps



**Oil & Gas
Petrochemical
Power Generation
Fertilizer Plant**



..... all about moving fluids

Regent Pumps RPZ Series heavy duty, single stage, overhung process pump built in accordance with the Last Edition of API 610. The RPZ Series is ideally suited design to handle aggressive handling aggressive, organic and inorganic fluids in chemical and petrochemical processes, in refinery off-sites, in the paper and cellulose industries, food and luxury foods industries, sugar industry, in seawater desalination plants, absorption equipment in environmental engineering systems, power stations.



API 610 Pump Set completed with base plate and Electric Motor ready for Delivery

Materials of Construction

API-610 10th Edition Material Classes

Part Name	S-4	S-6	S-8	C-6	A-8
Casing	Carbon Steel			12% Chrome	316L SS
Impeller	Carbon Steel	12% Chrome	316L SS	12% Chrome	316L SS
Bearing End Cover - Outboard	Carbon Steel				
Oil Ring	Bronze				
Bearing End Cover - Inboard			Carbon Steel		
Shaft	AISI 4140 *		316L SS	410 SS	316L SS
Labyrinth Seal - Inboard	Bronze/Viton				
Labyrinth Seal - Outboard	Bronze/Viton				
Throat Bushing	Cast Iron	410 SS	316L SS	410 SS	316L SS
Wear Ring - Casing	Cast Iron	12% Chrome	316L SS	12% Chrome	316L SS
Seal Chamber Cover	Carbon Steel			12% Chrome	316L SS
Wear Rings - Impeller	Cast Iron	12% Chrome	Nitronic 60	12% Chrome	Nitronic 60
Bearing Frame	Carbon Steel				
Wear Ring - Seal Chamber Cover	Cast Iron	12% Chrome	316L SS	12% Chrome	316L SS
Impeller Nut Steel	316 SS				
Casing Gasket Spiral Wound	316 SS				
Gland Studs and Nuts	AISI 4140				
Casing Studs and Nuts	AISI 4140				

Features

Pump Casing

Precision machining and fully confined controlled compression gasket ensures proper sealing and ease to cover alignment

Seal Chamber

Enlarged seal chamber fully conforms to API 610

Heavy Duty Bearing Frame

Piloted and metal meeting API 610 specified limits. Large oil sump capacity.

Impeller and Wear Rings

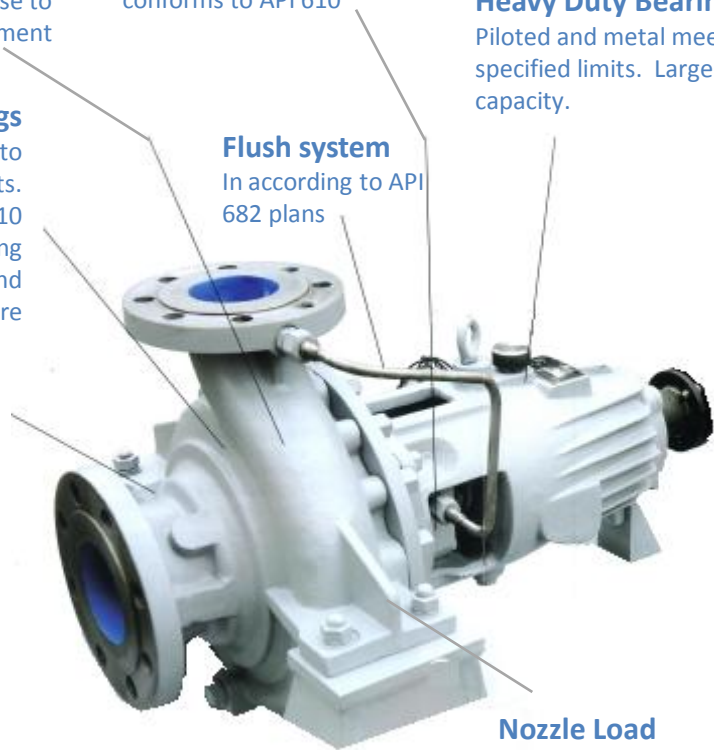
Closed impellers for most castings to meet specific hydraulic requirements. Balanced to stringent to meet API610 standard. Front and rear wear ring control seal chamber flows and pressure

Flush system

In according to API 682 plans

Dual Volute casing >80mm outlet

Minimise radial loads and shaft deflection increasing mechanical seal and bearing life



Nozzle Load

Casing and baseplate design meet API610 nozzle load requirement



API 610 OH1 Process Pumps

RPZA SERIES

Regent Pumps RPZA Series pumps are designed where application of API 610 OH1 is specified. Specifications for Petrochemical, chemical and oil and gas markets.

RPZA Series is a single stage, single flow volute casing pumps of horizontal design, with end suction flange and centerlined vertical discharge flange. The complete bearing bracket, including intermediate casing with shaft sealing and impeller, forms a back-pull-out unit.

Key Features

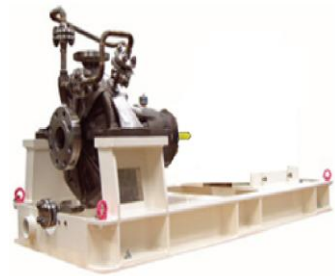
Construction	: Back pullout design with metal to metal fits
Design pressure rating	: 25 bar g @ 20°C
Design Temp range	: -80°C TO +130°C (Higher available on request)
Max Flow rate	: 2600m ³ /h
Max Head	: 360m
Testing	: To API 610 procedures (Acceptable Criteria ISO 9906 Grade 2) – Head, Flow, NPSH, Noise & vibration (FFT spectrum Analysis available on request)



API 610 OH2 Process Pumps

RPZE SERIES

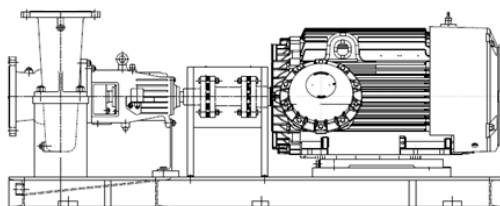
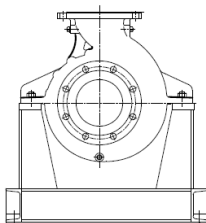
Regent Pumps RPZE Series pumps are designed and manufactured for a number of applications including LPG, fuel transfer, produced water and export duties. The pumps are typically found in the oil & gas production and refinery industries, though they can be used for other applications such as seawater & condensate duties



The pumps can be fitted with a variety of proprietary components (i.e. seals , motors & couplings) from all the major manufacturers to cater for customers site preferences.

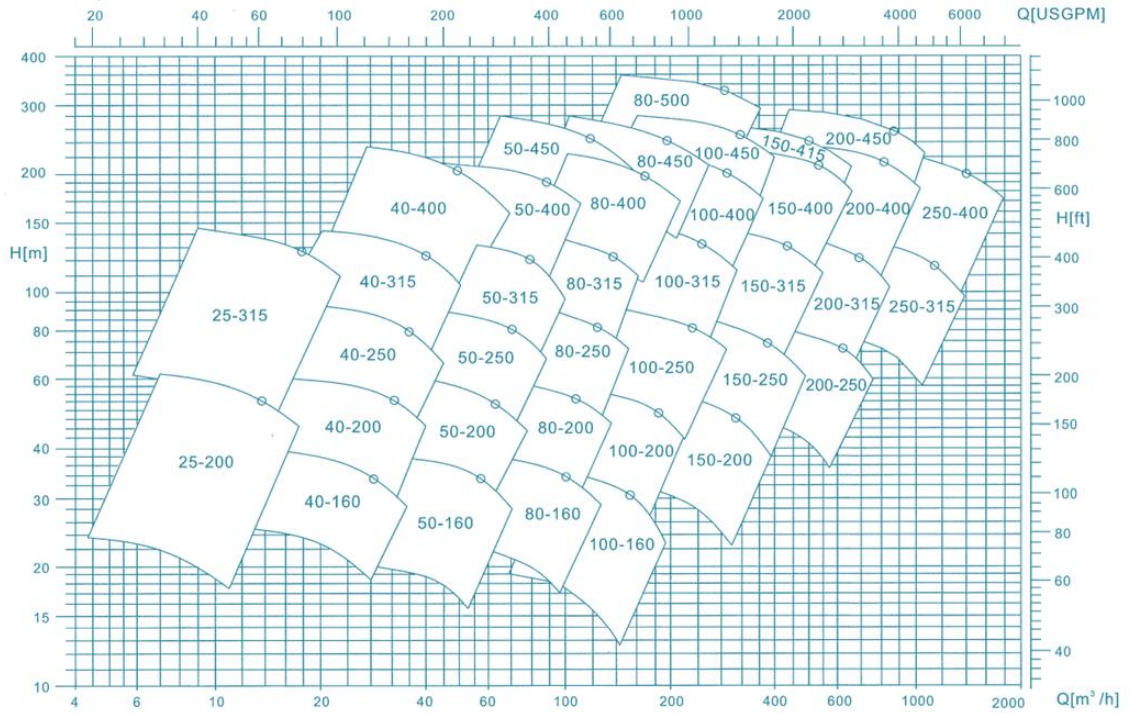
Key Features

- Construction : Back pullout design with metal to metal fits
- Design pressure rating : 50 bar g @ 20°C
- Design Temp range : -80°C TO +450°C
- Max Flow rate : 2600m³/h
- Max Head : 300m
- Testing : To API 610 procedures (Acceptable Criteria ISO 9906 Grade 2) – Head, Flow, NPSH, Noise & vibration (FFT spectrum Analysis available on request)
- Vibration Sensors : Available as option with 4 – 20mA signal output
- Temperature Sensor : RTD's Pt100 -3 wires available as option

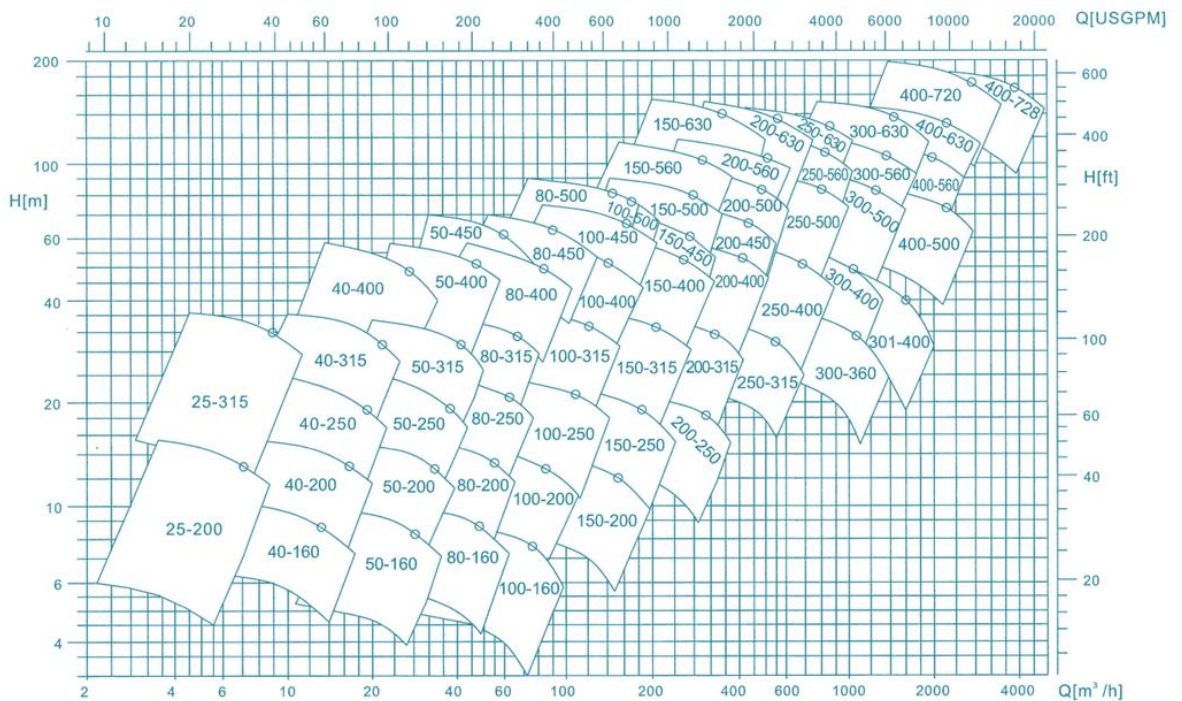


Hydraulic Coverage

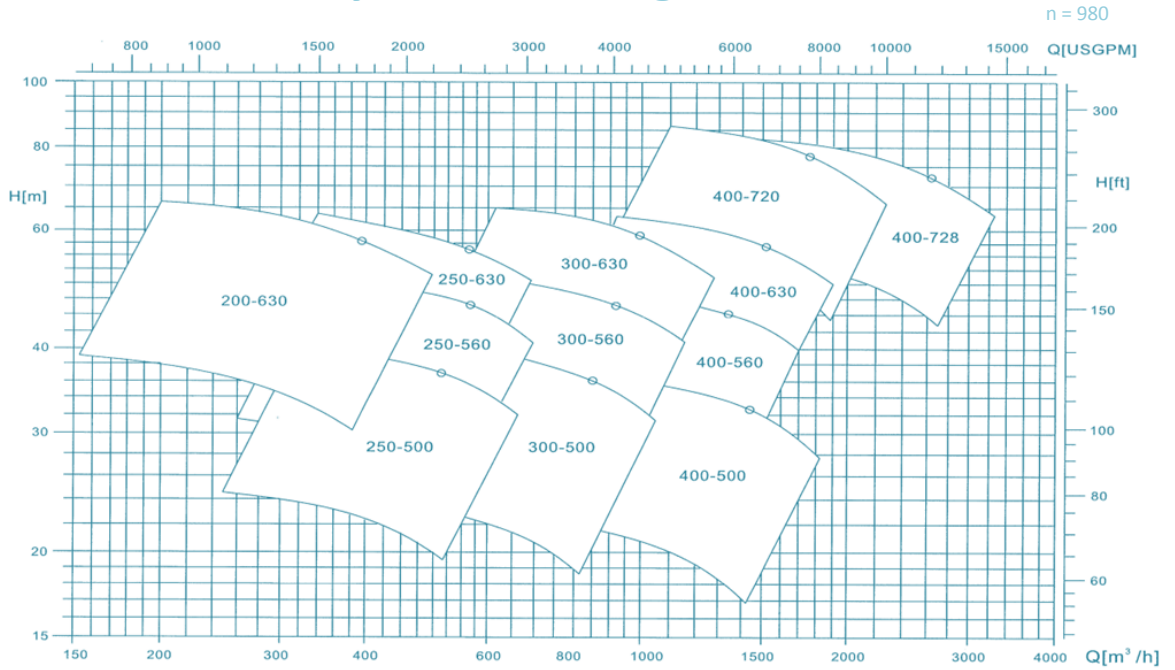
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n = 1480

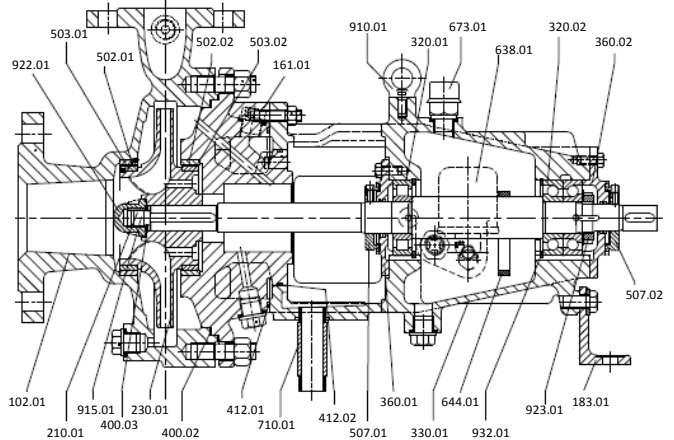


Hydraulic Coverage



Sectional View

Item No	Description
360.02	Bearing Cover
360.01	Bearing Cover
330.01	Bearing Bracket
320.02	Bearing
320.01	Bearing
230.01	Impeller
210.01	Shaft
183.01	Support Foot
161.01	Casing cover
102.01	Voluate Casing
507.02	Labyrinth Oil seal
507.01	Labyrinth Oil seal
503.02	Impeller Wear ring
503.01	Impeller Wear ring
502.02	Wear ring stationary
502.01	Wear ring stationary
412.02	O-ring seal
412.01	O-ring seal
400.03	Gasket
400.02	Gasket
932.01	Circlip
923.01	Bearing nut



Item No	Description
922.01	Impeller nut
915.01	Thread insert
910.01	Eye Bolt
710.01	Pipe
673.01	Air Release Filter
644.01	Lubricating Ring
638.01	Constant Level oiler

All the API 610 Pumps you need



API 610 Chemical
Petrol Pump
Vs5 Pump SS316L
Material



API 610 Chemical Petrol
Pump BB2 Pump

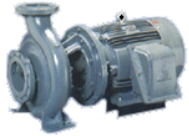


API 610 Chemical Petrol
Pump BB4 Pump



API 610 Chemical Petrol
Pump BB5 Pump

Other Regent Pumps Range



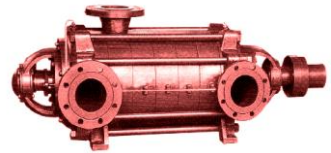
Dinbloc /ISObloc
Direct Coupled



Dinflow/ISOflow – Bare Shaft



Linebloc- DIN/ISO



RPTS-Single or Multiple outlets –
Horizontal Multistage Pump



Vertical Turbine Pump



RSV Vertical In Line
Multistage Pump



RPAH– Slurry Pump



Megaflo
Horizontal Split case



Self-Priming



RPAP - Submersible
Aerator



VSD's Booster Pump
System



Engine Drive Fire Pumps



Trailer Pump Engine Driven

Regent Pumps – Wide Ranging Applications



- Agricultural Irrigation
- Water treatment / RO System
- Mining
- Oil & Gas
- Power Station
- Marine Fire Fighting to FiFi I, II & III
- Palm Oil
- Chemical Plants
- Commercial / Industrial Buildings / Factory
- Leisure Park / Fountains
- Site Drainage
- Public Utilities Pumping Stations
- Sewage Plants
- Food Industries
- Marine – sea water pumps

✓ Quality

✓ Quick Delivery

✓ Reliability

✓ Customer Specific Need

Available From

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