

504. REVERSE OSMOSIS SYSTEM – “P SERIES”

Function:

Reverse Osmosis systems “P SERIES” are used to generate pure water which is free from dissolved salts(ions), particles, colloids, organics. They range from 200 lph(4800 liters/day) to 550lph(10200 liters/day).

Applications:

“P series Reverse osmosis” system is designed to cater to drinking and low flow process requirements in industrial, commercial and residential applications. The system is available in five sizes P-200; P-300; P-400; P-480 and P-550.

Advantages:

- Compact and modular.
- Low operation and maintenance cost.
- Expandable and skid mounted.
- Customizable and expandable.

Specifications:

	P-200	P-300	P-400	P-480	P-550
Permeate flow(lph)	200	300	400	480	550
Feed size(F NPT)	1 ½" inch	1 ½" inch	1 ½" inch	1 ½" inch	1 ½" inch
Permeate tube size	¾"	¾"	¾"	¾"	¾"
Concentrate tube size	¾"	¾"	¾"	¾"	¾"
No. Of membranes	2	3	4	5	6
Recovery(%)	20-25	30-35	40-45	50-55	60-65

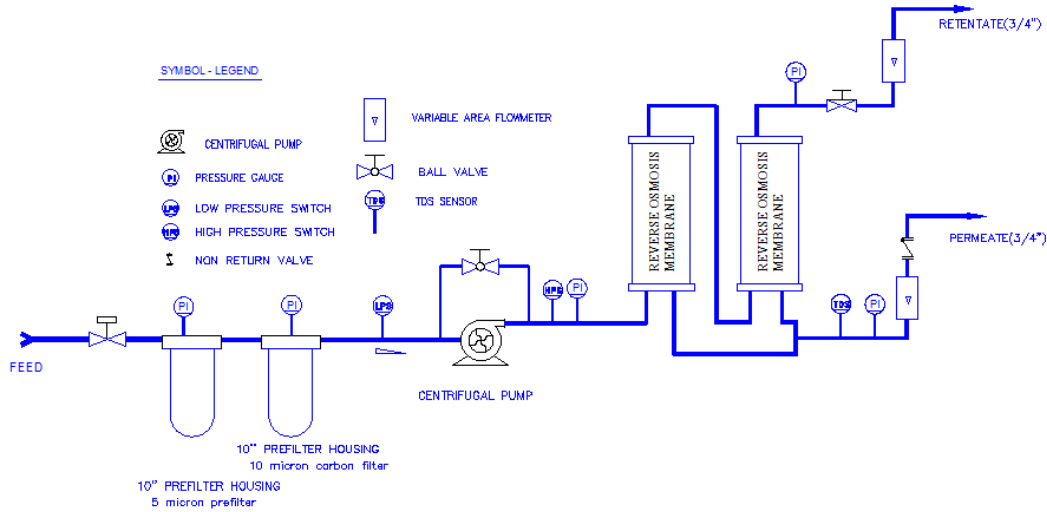
*Membrane size: 61 mm dia x 533 mm L.

**Treatment of the RO system is dependent on the feed water quality

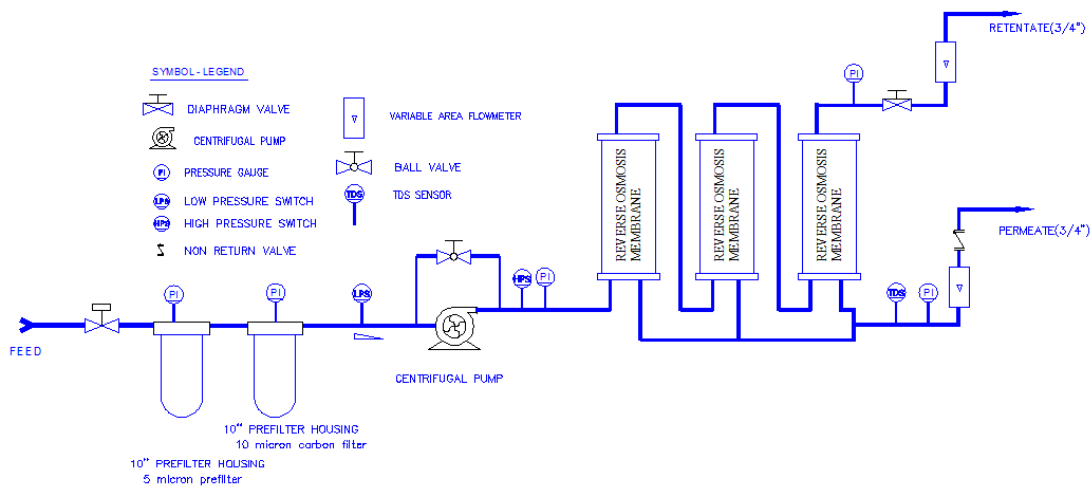
Features:

- Polypropylene Cartridge filter 5 µ
- Carbon block filter 10 µ
- Thin film composite RO membranes(2.5 inch 40")
- PVC reverse osmosis membrane housings
- High pressure centrifugal pump.
- Pressure gauges(0-7 Kg/cm²).
- Low Pressure switches
- Conductivity indicator(200 µS)
- Control panel with starter for motor : Powder coated CRCA.
- PVC variable area flowmeter for permeate.
- Needle valve(brass)
- PVC Ball valve
- Inlet piping schedule 80 PVC

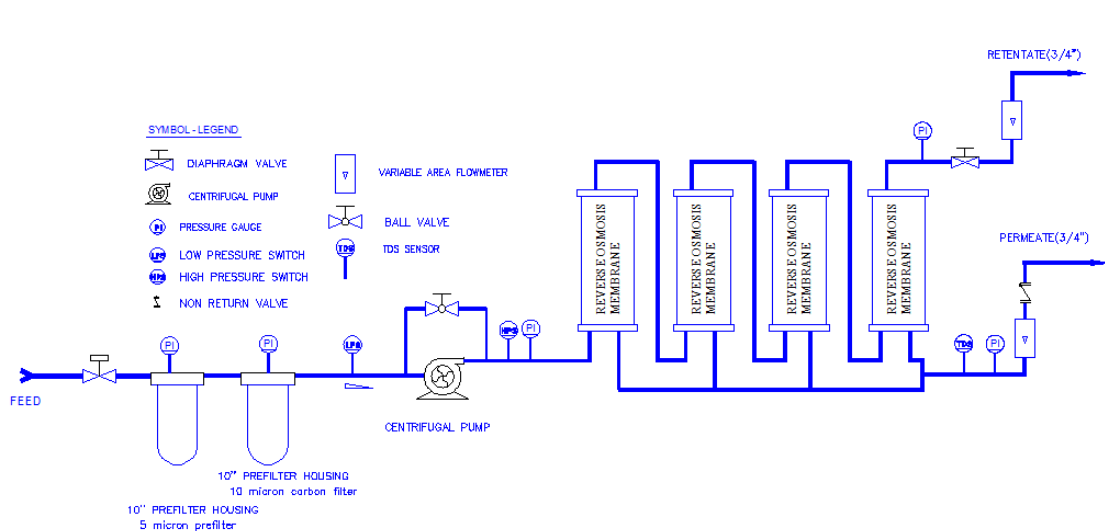
P&ID: P-200



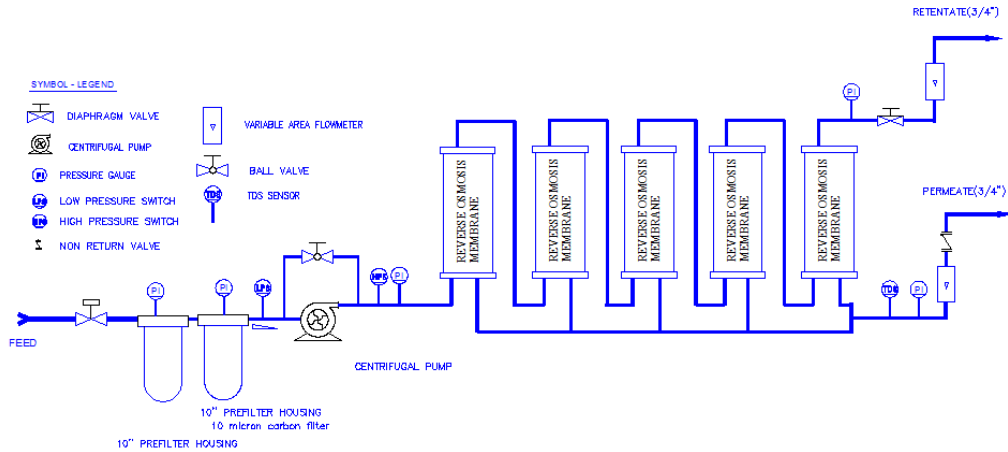
P&ID: P-300



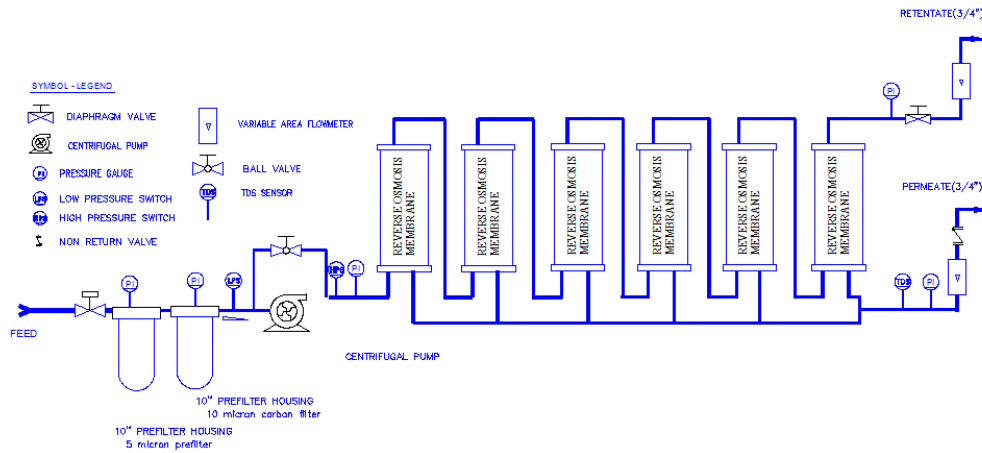
P&ID: P-400



P&ID: P-480



P&ID: P-550



Operating limits:

Max. Feed temperature	29°C
Min. Feed temperature	40°C
Max. ambient temperature	48.9°C
Min. ambient temperature	40°C
Min. Feed pressure	3.1 Kg/cm ²
Max. Feed pressure	5.9 Kg/cm ²
Max. operating pressure	20 Kg/cm ²
Max. SDI	<3

Max. Free chlorine	0
Min. TDS	<10000
Max. Hardness	0
Max. Turbidity NTU	1
Max. pH(continuous)	11
Min. pH(continuous)	5
Max. pH(cleaning)	12
Min. pH(cleaning)	2

Ordering information:

Part No.	Model	Permeate flow (lph)
504-000-001	P-200	200
504-000-002	P-300	300
504-000-003	P-400	400
504-000-004	P-480	400
504-000-005	P-550	550

Cleaning system and antiscalant dosing system is not included in the scope.
Allow minimum 5ft around the system for operation.

GEOMETRY ENGINEERING INNOVATION

Contact: +91-9731300867; +91-9980344155; +91-9880521801; www.geiprocess.com

Filename: 504_Reverse_Osmosis_system P series
Directory: C:\Users\user\Documents
Template: C:\Users\user\AppData\Roaming\Microsoft\Templates\Normal.dot
m
Title:
Subject:
Author: user
Keywords:
Comments:
Creation Date: 15-01-2014 20:35:00
Change Number: 32
Last Saved On: 21-02-2014 09:13:00
Last Saved By: user
Total Editing Time: 411 Minutes
Last Printed On: 04-07-2014 17:06:00
As of Last Complete Printing
Number of Pages: 4 (approx.)
Number of Words: 368 (approx.)
Number of Characters: 2,103 (approx.)