

TSUNAMI Stainless Steel Pump

ENGINEERED TO WITHSTAND THE TOUGHEST CONDITIONS


KAB
ISO 9001
CERTIFIED

HIGH PRESSURE MULTI-STAGE CENTRIFUGAL PUMPS
COMMERCIAL + FIRE + INDUSTRIAL + MUNICIPAL + AGRICULTURAL + MINING



APPLICATIONS

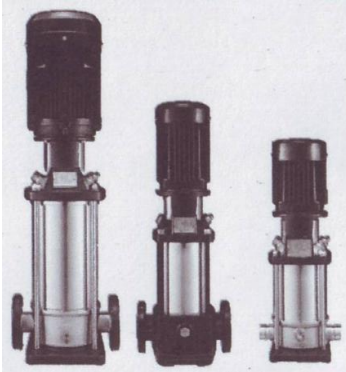
- Jockey Pumps for Fire Protection Systems
- Golf Course, Parks, Irrigation, Farms, Sprinkler Systems
- Boiler & Chemical Feed
- Water Treatment : RO, DI & Filtration Systems
- Packaged Pressure Booster Systems
- Petrochemical Refinery & Offshore
- Pressure Boosting + Water Supply
- Condensate Return, Cooling Towers, Water Circulation of Hot & Cold Liquids for HVAC
- Commercial, Civil, Municipal, Agricultural, Mining & Industrial

PRODUCT FEATURES AND BENEFITS

- Cost Efficient, Space Saving, High Efficiency Design
- Steady, Quiet & Vibration Free Operation
- Standard Totally Enclosed, Fan Cooled (TEFC) Electric Motors
- Adaptable to Various Operating Conditions
- ISO Certified
- All Liquid Contact Parts are Corrosion Resistant #304 or #316 Stainless Steel Construction
- Standard Tungsten Carbide Mechanical Seals
- Thicker Base Plate for Hazardous Conditions
- Easy Installation for New & Retrofit Systems
- ASTM & AISI Certified Materials



Tsunami Vertical In-line Multi stage Pump



The RXN, RXNN and RXNNs pumps are non- self priming vertical multistage pump of in-line design, flange or victaulic coupling with equally sized suction and discharge ports.

Stage construction with stainless steel impellers and motor shaft of the IEC standard motor are directly couple.

All pump are equipped with a cartridge type mechanical seal for easy maintenance

Pump is desing with different size and various number of stage to provide the flow and the required pressure.

Application

WATER SUPPLY AND PRESSURE BOOSTING

- Pressure boosting in buildings, hotels, residential complexes
- Pressure booster station supply of water network
- Pressure boosting for industrial water supply

LIGHT INDUSTRY

- Washing and cleaning systems
- Car washing facilities
- Fire fighting systems
- Process water system
- Machine tools (cooling lubricant)

IRRIGATION AND AGRICULTURE

- Greenhouses
- Sprinkler irrigation
- Field Irrigation (flooding)

WATER TREATMENT

- Water softener and de-mineralization
- Reverse Osmosis systems
- Distillation systems
- Filtartion
- Ultra-filtration systems

HEATING, VENTILATION AND AIR-CONDITIONING

- Boiler
- Induction heating
- Heat exchangers
- Refrigeration
- Cooling towers and system
- Temperature Control System

TSUNAMI General Data

Vertical Multistage Centrifugal In-line Pump

Product Data

Range	RXN,RXNN,RXNNs					
	1	3	5	10	15	20
60Hz						
Nominal Flow (m3/h)	1.2	3.6	6	12	18	24
Flow range (m3/h)	0.8-2.9	1.5-5.4	3.0-10.0	6.0-15.5	10.5-28	12.5-35
Max. Pressure (bar)	23.5	23.3	23	24.5	23.5	20.5
Fluid temperature (deg C)	neg 15 to 120 deg C					
Motor power (kw)	0.37 to 3.0	0.37 to 4.0	0.55 to 7.5	0.75 to 11	1.5 to 18.5	2.2 to 18.5
Version						
RXN Cast Iron and Stainless steel EN 1.4301/AISI 304	●	●	●	●	●	●
RXNN Stainless steel EN 1.4301/AISI 304	●	●	●	●	●	●
RXNNs Stainless steel EN 1.4401/AISI 316	●	●	●	●	●	●
Motor						
Main connection 3-phase (V/Hz)	0.37-1.1 kw 220-225/380-440 V 60Hz					
	1.5-7.5 kw 220-225/380-480 V 60Hz					
	from 11 kw 220/380/440 V 60Hz					
Insulation Class	F					
Protection Class	IP55					
Ambient Temperature	40 deg C					
RXN Pipe Connection						
Flange	DN25/ DN32	DN25/ DN32	DN25/ DN32	DN40	DN50	DN50
RXNN, RXNNs Pipe Connection						
Flange	DN25/ DN32	DN25/ DN32	DN25/ DN32	DN40	DN50	DN50
Victaulic connection	R 1-1/4 DN32	R 1-1/4 DN32	R 1-1/4 DN32	R 2 DN50	R 2 DN50	R 2 DN50
Mechanical seal						
SIC/SIC	Standard					
Seals						
EPDM	Standard					
Viton						

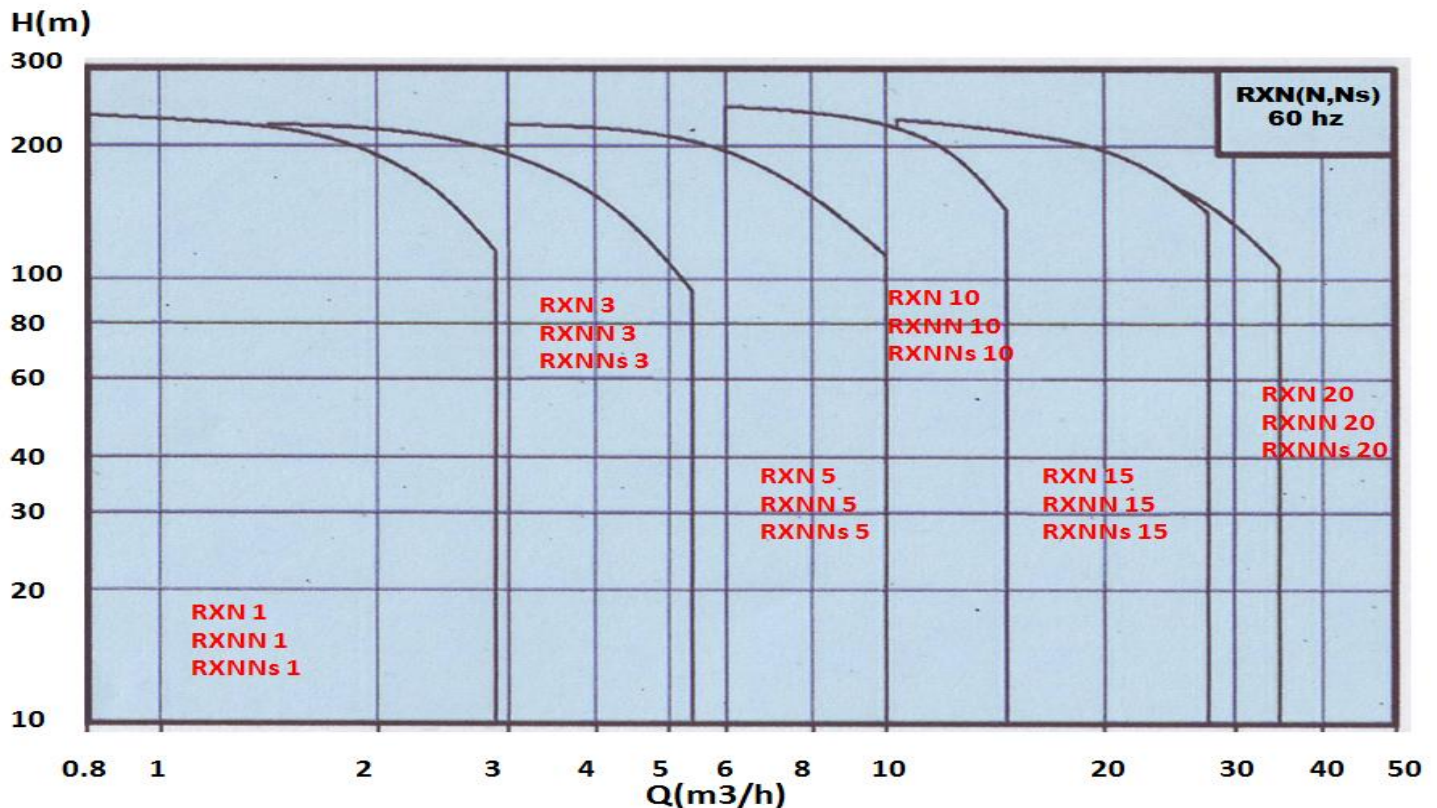
*Flange standards: Refer to dimensional drawing

TSUNAMI General Data

Vertical Multistage Centrifugal In-line Pump

RXN,RXNN,RXNNs Series

Performance range 60hz



Motor Data

Motor Type					Nominal current in [A]				
HP	KW	Pole	Flange	Frame	3~220 V	3~255 V	3~380 V	3~440 V	
0.5	0.37	2	B14	71	1.8	1.7	1	1.1	
0.75	0.55			71	2.5	2.4	1.5	1.6	
1.0	0.75			80	2.9	2.8	1.7	1.8	
1.5	1.1			90S	4.1	4	2.4	2.5	
2.0	1.5					3~220V	3~277V	3~380V	3~480V
				90S	5.7	5	3.3	2.9	
3.0	2.2			90L	8.3	6.9	4.8	4	
4.0	3.0			100L	11.4	9.9	6.6	5.7	
5.5	4.0			112M	14	14.2	8.1	8.2	
7.5	5.5			132S	20.3	18.2	11.7	10.5	
10.0	7.5			132M	26.8	22.9	15.5	13.2	
15	11						3~220V	3~380V	3~440V
				160M			36.5	21.2	18.3
20.0	15.0			B5	160M		47.5	27.5	23.8
25	18.5			160L			58.5	33.9	29.3
30	22			180M			73.3	42.4	36.7
40	30	180L			97.8	56.6	48.9		
50	37	200L			122	70.6	61		
60	45	200L			143	82.8	71.5		

* Squirrel cage induction motor, TEFC, 2-pole standard motor, IP55, Class F Ins.,

TSUNAMI General Data

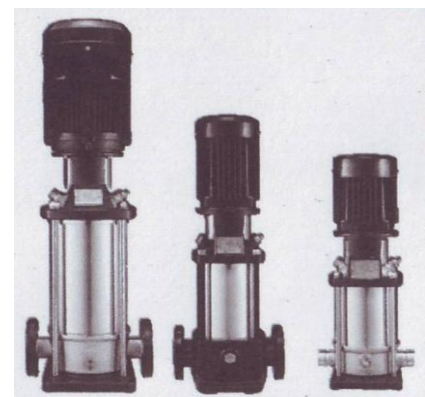
Vertical Multistage Centrifugal In-line Pump

MAXIMUM OPERATING PRESSURE AND INLET PRESSURE

STAGE	MAXIMUM OPERATING PRESSURE	STAGE	MAX. INLET PRESSURE
RXN,RXNN,RXNS 1			
2 TO 27	25 bar	2 to 25	10 bars
		27	15 bars
RXN,RXNN,RXNS 3			
2 TO 25	25 bar	2 to 15	10 bars
		17 to 25	15 bars
RXN,RXNN,RXNS 5			
2 TO 24	25 bar	2 to 9	10 bars
		10 to 24	15 bars
RXN,RXNN,RXNS 10			
1 to 10	16 bar	2 to 9	8 bars
12 to 17	25 bar	10 to 24	15 bars
RXN,RXNN,RXNS 15			
1 to 8	16 bar	1 to 2	8 bars
9 to 12	25 bar	3 to 12	15 bars
RXN,RXNN,RXNS 20			
1 to 7	16 bar	1	8 bars
8 to 10	25 bar	2 to 10	10 bars

Mechanical Seal

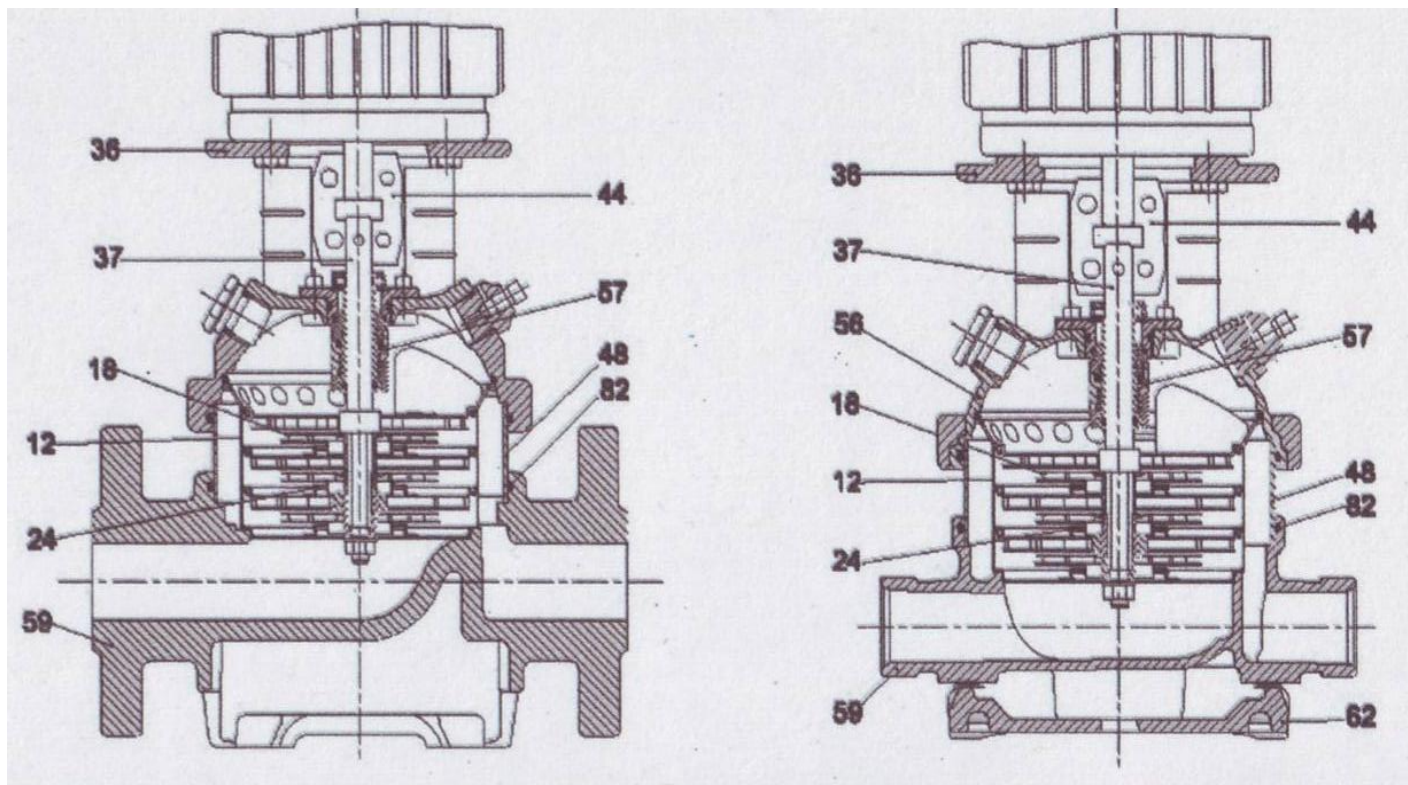
Standard Cartridge type mechanical seal made of Silicon Carbide/Silicon Carbide/EPDM or Viton. Based on the type of application, alternative materials are available for the seal and the elastomers. The cartridge type mechanical seal can be replaced in minutes without special tools and without dismantling the pump.



TSUNAMI General Data

Vertical Multistage Centrifugal In-line Pump

Construction Materials



Pos.	Name	Materials	RXN 1,3,5,10,15,20		RXNN 1,3,5,10,15,20		RXNNs 1,3,5,10,15,20	
			Standard		Standard		Standard	
			EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM	EN/DIN	AISI/ASTM
36	Pump Head	Cast Iron	EN-GJL-200	ASTM 25B	EN-GJS-450-10	ASTM 70-50-05	EN-GJS-450-10	ASTM 70-50-05
56	Pump Head Cover	Stainless Steel	N/A	N/A	1.4301	AISI 304	1.4401	AISI 316
18	Impeller	Stainless Steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
37	Shaft	Stainless Steel	1.4057	AISI431	1.4057	AISI431	1.4401	AISI 316
48	Outer Sleeve	Stainless Steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
82	Oring for Outer Sleeve	EPDM						
12	Chamber	Stainless Steel	1.4301	AISI 304	1.4301	AISI 304	1.4401	AISI 316
24	Neck ring	PTFE						
59	Base	Cast Iron	EN-GJL-200	ASTM 25B	N/A	N/A	N/A	N/A
	Base	Stainless Steel	N/A	N/A	1.4301	AISI 304	1.4401	AISI 316
62	Base plate	Cast Iron	N/A	N/A	EN-GJL-200	ASTM 25B	EN-GJL-200	ASTM 25B
44	Coupling	Fe-Cu-C	SINT C11	MPIF FC0525	SINT C11	MPIF FC0525	SINT C11	MPIF FC0525
57	Mechanical seal	Cartridge type						