



FIELD SERVICE QUOTE HIGHLAND BEACH FLORIDA

QUOTE FOR 3 RO UNITS. PRO-8-600-SP-7, 1 skid (24 vessels), 2 X 1.5" side ports. Manufactured in 2003.

Original SO# 3616

DATE	5/31/2024			Sales contact:	Taryn Doyle 1.813.909.3880 taryn.doyle@protec-arisawa.com
Part Number	Description	Quantity	Price	Extension	Notes
999	FIELD SERVICE CHARGE (5 Days on site, 3 Technicians, 1 travel day)	18	\$1,800.00	\$32,400.00	Field Service charge is per day for each Field Technician(s). One (1) day built in for travel-weekend time for travel
			TOTAL LABOR	\$32,400.00	
The items below are suggested to be replaced based on the age of the vessel if not routinely done. Normal seal life is 3-5 years.					
6121187	Side port retaining ring 1.5"	150	\$27.38	\$4,107.00	2 per housing (outer only)
6184604-N	Side port seal 1.5"	150	\$6.39	\$958.50	2 per housing
4080257-1	Side port	10	\$103.60	\$1,036.00	
2080096	Head Assembly, 600 psi 1 1/4" Vic (IPS Grooved End)	5	\$761.69	\$3,808.45	
2080273	Head Assembly, 600 psi 1" FNPT	5	\$702.35	\$3,511.75	
PDMT-GSK-1.25-C	Peidmont Gasket style C, EPDM, 1.5"	146	\$5.90	\$861.40	2 per housing, side ports
61100442MK	Quad head seal	146	\$53.00	\$7,738.00	2 per housing
6110229-N	Perm port seal	146	\$6.39	\$932.94	2 per housing
6180236-N	Perm port adapter seal	146	\$6.39	\$932.94	2 per housing
6180119-N	PWT seals	292	\$6.39	\$1,865.88	4 per housing
6121200	Permeate port retaining ring	20	\$27.38	\$547.60	Replace only those rusted
7030084	Touch-up Paint 12 oz Spray can	3	\$31.82	\$95.46	1 per skid
501190	Spiral ring install tool	1	\$540.00	\$540.00	1 set
501160	Install tool, 1.5" side port seal press seal 6184604-N	1	\$784.00	\$784.00	1 set
501104	Head Removal T-pulls 8"	1	\$43.00	\$43.00	1 set
	Freight to site	1	\$1,200.00	\$1,200.00	Not to exceed
			TOTAL PARTS-THREE (3) TRAINS	\$28,962.92	
GRAND TOTAL FOR LABOR AND PARTS -THREE (3) TRAINS				\$61,362.92	

NOTE: Parts in yellow are only replaced if deemed necessary by Field Technician. If parts are subject to replacement these items will be added to the invoice after written approval by client.					
4080257-1	Side port	10	\$103.60	\$1,036.00	
4080289	Noryl Permeate Port, 1" FNPT, 300, 450, 600 psi	5	\$100.00	\$500.00	
4080042-1	Permeate port 1 1/4" VIC PVC	5	\$148.00	\$740.00	
4080320	Retaining ring w/finger pull	5	\$142.08	\$710.40	
6121200	Permeate port retaining ring	20	\$27.38	\$547.60	
4080032	Bearing Plate 600 psi (with sticker)	10	\$281.20	\$2,812.00	
4080117-3	Seal Plate	10	\$108.04	\$1,080.40	
PDMT-CPL-K-1.25	Piedmont Coupling Style K, 1.25" with Gasket	10	\$22.81	\$228.10	
PDMT-CPL-B-1.5	Piedmont Coupling Style B, 1.5" with Gasket	10	\$43.81	\$438.10	
4080165-3	Thrust cone	8	\$78.44	\$627.52	
5080074	Membrane adapter	16	\$95.82	\$1,533.12	
*THESE PARTS WILL BE ON HAND AND IF SOMETHING IS FOUND TO BE DAMAGED OR NEEDS FUTURE REPLACEMENT, PROTEC TECHNICIAN WILL ADVISE A PRICE AND REPLACEMENT SCHEDULE. THEY WILL BE INSTALLED OR LEFT BEHIND BASED ON CUSTOMER'S APPROVAL ONLY					

Scope of Work

Vessels:

- o Surface cleaning around side port and bell area
- o Assessment of vessel seal area, insert ring for integrity and need for any surface repair of resin.
- o Inspection of shell body for wear and damage for safe operation
- o Touch up paint on end margin/cut face due to wear

Side Ports:

- o Inspection of all side ports -clean and reuse- replace if needed only
- o Removal of wave spacer and replacement of all side port seals
- o Removal of couplings and replacement of gasket and hardware
- o Perform resin repair on seal area if required (if needed)
- o Removal, cleaning and replacement of Victaulic couplings as needed

End Cap Assemblies:

- o Inspection, disassembly and cleaning
- o Replace all seals in head assembly (3 ea)
- o Replace head components as needed due to wear or damage (Bearing plate, Retaining ring, Seal Plate, Adapter)

Site requirements prior to Protec-Arisawa staff arrival:

- o Provide lift, ladder or scaffolding to access vessels
- o Availability of compressed air/compressor (please notify if not available)
- o Notify of any site requirements or restrictions.
- o Notify of work hours and any PPE required
- o Remove all permeate piping, drain system and remove couplings on first train.

Warranty Coverage:

Protec Arisawa is the original and only manufacturer of Protec Pressure Vessels. Protec Arisawa warrants that repairs made to pressure vessels are done with parts/components free of defects and the workmanship conforms to Protec Arisawa procedures, drawings and specifications that were engineered and designed originally by Protec Arisawa. All Work performed will be of the specific area(s) outlined in the original agreement only. Protec Arisawa provides a 1-year Warranty on all services and materials directly related to the Scope of Work in original agreement only. This does not cover damage or incidents due to improper operation of RO system; unauthorized alterations of pressure vessel(s) and or component(s); misuse and abuse of pressure vessel(s) and or component(s); Misalignment of system piping causing damage to vessel connections; ordinary wear and tear; or problems caused by lack of preventative maintenance.