

H₂O₅ Selection Matrix

Polish Deionization Components

Product Description/Equipment Specifications

FLEXIBILITY

LATITUDE

ENGINEERING

EXECUTION

EXCELLENCE

Process Water Systems designed with ultimate **FLEXXIBILITY** in mind.



General Description:

The primary purpose of Polish components is further polish Reverse Osmosis (RO) permeate prior to being delivered to the point of use.

Mechanical Description:

A powder coated carbon steel structural frame supports the major components. These frames are configured to provide maximum support while allowing access for maintenance and operation. If more than one option is selected, they will be mounted on a single frame

A wide range of piping materials are available. The typical Polish components are built to install from left to right and be positioned lengthwise along a wall (custom configurations available).

Utility Connections:

Utility connections for the Polish components are simple; requiring a feed water source, a power source, drain access, and connections to the downstream equipment.

Electrical Service (If Applicable):	115 VAC, 1 phase, 60 Hz
Feed Water Source:	Distribution Pump
Deionization outlet:	Downstream Equipment or Point of Use
Drain connections:	Direct access to drain



Factory Procedures:

Assembly	Fully assembled at factory.	
Piping / Wiring	Fully wired and piped at the factory.	
Testing	Hydrostatic pressure test, Factory functional test (Optional FAT available).	
Shipping preparation	Crated for domestic shipment (some components may be removed for protection prior to shipment). Global freight preparation available.	

Regulations and Standards:

Quality System	Factory procedures.
Plastic Joining	PVC solvent welding.
Carbon Steel Frame	ASME Compliant.
Electrical and Controls	Underwriters Laboratory (UL), National Electrical Code (NEC).
NEMA rating	NEMA 4 / 12
Pipe Pitching	Piping on skids is NOT pitched - it is plumb and true. If system pitching is required, please request at time of proposal.
Seismic rating	None (Optional Seismic calculations available, must request at time of proposal).





Polish Deionization Component Selection Matrix

Select Select Select Select

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EXAMPLE PART NUMBER

PXDR 030 PVC Q1

EXAMPLE ADDITIONAL SERVICES

SZD X X X X X

NOTES:

¹ Schedule 80 CPVC and Sanitary Stainless Steel are the only available piping options when selecting hot water sanitizable deionization components.

² All applicable exchange carbon tanks and hoses are supplied by Others

³If multiple selections are chosen and components such as pressure gauges, sample valves and manual valves become redundant, the redundant components will be removed.

FIELD 1 Polish Deionization Components:

Enter the code for the type of Polish Deionization Components desired. All deionization selections include the applicable inlet and outlet isolation valves, sample valves, pressure gauges, flow switches and flow meters.

	gauges, now switches and now meters.	
	Code	Code Description
PCDR Polish Continuous Deionization Components		
	PXDR	Polish Exchange Deionization Components
	PCDH	Polish Continuous Deionization Components-Hot Water Sanitizable ¹
	PXDH	Polish Exchange Deionization Components-Hot Water Sanitizable ¹

FIELD 2 Flow Rate GPM (LPM):

Enter the code for the desired product flow.

Code	Code Description		
	C	CDI Available Flow Rates	
	Minimum	Nominal	Maximum
004	0.67 (2.54)	2 (7.6)	3 (11.4)
010	2.5 (9.5)	5 (18.9)	7.5 (28.4)
024	6.25 (23.7)	12.5 (47.3)	18.7 (70.8)
301	7.5 (28.4)	15 (56.7)	22.5 (85)
302	15 (56.7)	30 (113.6)	45 (170.3)
303	22.5 (85)	45 (170.3)	67.5 (255.5)
402	25 (94.6)	50 (189)	75 (284)
XDI Available Flow Rates		s	
010		1 (3.8)	
020		1.4 (5.3)	
030		2.7 (10.2)	
050		4.4(16.7)	
080		9.2 (34.8)	
150		15 (56.8)	
260		26 (98.4)	
380		38 (143.8)	
750		75 (283.5)	
999		100 (378)	



FIELD 3	Pipe Material:			
	Enter the code for the o	the desired piping material.		
	Code	Code Description		
	PVC	Schedule 80 PVC		
	CPV	Schedule 80 CPVC		
	BPS	Beta Polypropylene, Socket Fusion		
	BPB	Beta Polypropylene, Butt Fusion		
	NPS	Natural Polypropylene, Socket Fusion		
	NPB	Natural Polypropylene, Butt Fusion		
	PFS	PVDF, Socket Fusion		
	PFB	PVDF, Butt Fusion		
	BCF	PVDF, Bead and Crevice Free		
	SSS	Sanitary Stainless Steel, 316SS		

FIELD 4	Quality Instrumentation: Enter the code for the appropriate instrumentation package for your system. If an instrumentation package is not required, place an X in this field. NOTE: See the Main Control Panel Matrix for corresponding monitors and transmitters for these instruments.		
	Code	Code Description	
	Q1	Quality Light between the Worker and Polisher XDI	
	Q2	Worker/ Polisher Resistivity/Conductivity Sensors and Patch Cords	
	Q3	Final Resistivity/Conductivity Sensor and Patch Cord	

FIELD 5	Additional Services:	
	Enter the codes for the desired additional services.	
	Code	Code Description
	FSP	Factory System Passivation
	PGC	Pressure Gauge Calibration
	WHD	Welding Documentation
	SZC	Seismic Zone Wet Stamp
	SZD	Seismic Zone Drawings Only (Calculations by Others)
	BSI	Boroscope Inspection



PROCESS & INSTRUMENTATION DIAGRAM



