
W80 Series Side Port 600-1200PSI

User Manual

**For Use with Winder RO Pressure Vessel Models:
W80-600S W80-1000S W80-1200S**

General Product Description

W80 600S Design Pressure: 600PSI / 41Bar (at 150°F / 66°C)

W80 1000S Design Pressure: 1000PSI / 69Bar (at 150°F / 66°C)

W80 1200S Design Pressure: 1200PSI / 84Bar (at 150°F / 66°C)

Min. Operating Temp: 14°F / -10°C

Max. Operating Temp: 120°F / 49°C

Factory Test Pressure: Standard: 1.5x Design Pressure

ASME: 1.1x Design Pressure

Operating pH Range: 3 - 11

Cleaning pH Range: 2 - 14 (less than 30 minutes)

General Warning

Winder RO pressure vessels (vessel) are designed to provide safe operation over a long service life if properly installed, operated, and maintained. The vessel may cause loss of life, severe bodily harm, or property damage if it is NOT correctly installed, operated, or maintained. Please make sure you read and understand all the guidelines in the User Manual provided with the vessel. Observe every precaution contained therein. Failure to do so may result in malfunction and potential catastrophic failure. It is recommended that only qualified technicians experienced in servicing hydraulic systems work with this vessel. Misuse, incorrect assembly, or use of damaged/corroded components may result in catastrophic failure, or may cause to void the warranty.

Vessel Use and Precautions

- Positive pressure up to the design pressure (PSI) of the specific model being used
- Accommodates standard 8" nominal diameter spiral-wound element
- The required vessel/element interface hardware is supplied with the vessel (please refer to Winder's adapter list)
- Vessel expands under pressure and careful consideration must be taken when installing straps/saddles and system connection piping
- Installation with the straps/saddles provided is strongly recommended
- Vessel should not support any other system components, connections should be non-load bearing
- Periodic inspection of the vessel end cap is recommended to ensure all parts are dry and free of corrosion
- Failure to understand and follow all precautions may void warranty and result in catastrophic failure of the vessel
- These guidelines are subject to change without prior notice. Please check with *Winder* to ensure that the User Manual is the latest version for the vessel model being used.
- Mount vessel using strap/saddle hardware provided and span recommended in the engineering drawing
- Do not over tighten the straps - vessel must be allowed to expand under operation
- Maximize the connection flexibility to allow for vessel growth under pressure
- Align the side ports with the system manifold, correcting any misalignment before final installation
- Provide overpressure protection in the system safety devices
- Inspect end caps regularly for signs of corrosion. Immediate corrective action and/or replacement are recommended in case of corrosion.
- Relieve system pressure before working on the vessel
- Do not attempt to over-tighten the Permeate Port connections as this may damage the end cap. One turn past hand tight should be sufficient.
- Never operate the vessel in excess of its ratings. This may void the warranty and cause bodily or property damage.

- Do not operate the vessel permeate port over 125PSI
- Flush the vessel with permeate before system shutdown to reduce the chance of corrosion
- Do not install the vessel under direct sunlight
- Operate the vessel within the recommended pH range
 - Operating pH Range: 3 - 11
 - Cleaning pH Range: 2 - 14 (less than 30 minutes)

Piping and Mounting Recommendations

Use two flexible Victaulic™ connections with an intermediate section of pipe when possible

This is the preferred method for connecting the feed/concentrate ports to the system piping, especially when system manifold tolerances cannot be guaranteed. There is a maximum 0.03" misalignment allowance per port.

√ Single flexible Victaulic™ connections should only be used when the axial misalignment from the port to the manifold is less than 0.03" per port.

Make sure the vessel is centered on the rack when checking for port/manifold alignment.

√ Using intermediate flexible Victaulic™ connections in the manifold will ease port alignment and vessel installation.

√ Do not force any connections.

√ The Header and related piping should be self-supported.

√ Space strap/saddle locations using "S" dimension shown in model engineering drawing. 4 and longer vessels have a third strap/saddle assembly, to be installed at the center point of the vessel.

√ Tighten straps to hand tightness plus one turn.

√ Manifold span should be greater than vessel span to allow for vessel growth under pressure.

Winder Limited Warranty

HEBEI CHENGDA HUAMO TECHNOLOGY CO.,LTD (hereinafter called "HBCD") RO pressure vessels (the "Product") are warranted to the original purchaser (the "Customer") under normal use and if installed, operated and maintained in accordance with applicable User Guides to be free of defects in material and/or workmanship for a period of one (1) year from date of manufacture subject to the following. Any replacement Product or Part will be warranted only for the remainder of the original warranty period or thirty (30) days, whichever is longer.

Exclusions from this Limited Warranty

The warranty shall be void if:

1. Defects are not reported during the warranty period.
2. The Product is subject to accident, damage, incorrect installation, mishandling, abuse, misuse, negligence or accident by any other party.
3. Problems caused by modification or alteration.
4. Chemical exposure or acts of nature.
5. Any item manufactured by other companies.
6. Wear on replaceable components under normal conditions - seals are excluded from this warranty.

Procedure for Obtaining Warranty Performance

Winder reserves the right to determine if a reported defect is a breach of this warranty. This may require, at *Winder's* discretion, one or more of the following:

1. An inspection or test of the Product and/or the system that was installed by a *Winder* representative - the customer is responsible for arranging access to the Product.
2. An inspection or test of the product and/or the system in which that was installed by the Customer.
3. An inspection or test of the product and/or the system performed by third party inspector appointed by *Winder*.
4. Return of the Product to *Winder's* factory for inspection or testing. This is not a statement of limitations for warranty performance and *Winder* reserves the right to conduct warranty performance outside of the items shown.

If the Product is found by *Winder* to be defective under the terms of this warranty, *Winder* will perform one of the following at its option:

- a. Supply a similar replacement part based on FOB factory terms.
- b. Conduct a field repair of the Product.
- d. Issue a credit for the original cost of the Products. This is not a statement of limitations for warranty performance and *Winder* reserves the right to conduct warranty performance outside of the items shown.

Products returned to *Winder* for inspection or testing must be shipped freight prepaid at the Customer's expense. If a breach of warranty is confirmed, *Winder* will bear all costs related to the inspection and testing. If after investigation, the Product failure is due to breach of warranty, all costs related to the inspection and testing of the Product will be borne by the Customer. This includes a USD\$500 per day fee and all related travel expenses.

All reported defects must be submitted to Winder in writing.

Disclaimer

Winder makes no express or implied warranty other than that specifically set forth in this warranty statement. Winder disclaims any warranty of merchantability or of fitness for a particular purpose. Winder's liability under the terms of this warranty shall not exceed the purchase price of the Product that are claimed to be defective. Winder shall not be liable for any consequential or incidental damages whatsoever, including but not limited to injuries or damages to person or property, loss of business profits, business interruption, loss of use, cost of removing/installing Products, or the claims of third parties.

Warranties or Representations by Others

No agent, employee, dealer, or other person has any authority to make any warranties or representations concerning Winder or the Product. Winder is not responsible for such claims of warranty or representation!

ORDERING CHART

Purchaser: _____ Order NO.: _____ Order model: _____ Order Qty:

Purchaser signature: _____ signing date:

Specifications:

<p>Winder 系列 Brand Name</p> <p>8英寸膜元件 Membrane Housing Diameter: 8"</p> <p>原/浓水口端联为E (侧联为S) Feed/Concentrate Port Type End port E(Side port S)</p> <p>内装4支膜元件 Membranes of element inside</p> <p>工作压力为300PSI Membrane Housing Max Operating pressure: 900PSI</p>	Operating pressure	<input type="checkbox"/> 300 <input type="checkbox"/> 450 <input type="checkbox"/> 600 <input type="checkbox"/> 1000 <input type="checkbox"/> 1200
	Element inside	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8
	Shell body color	<input type="checkbox"/> W (Standard: white) <input type="checkbox"/> Other ()

Side ports information:

Feed/Concentrate ports position & size: as the picture	Position code		Port size code		
	Position code		Port size code		
	Position code		Port size code		
	Position code		Port size code		
	Position code		Port size code		
	Position code		Port size code		

Feed/Concentrate ports material:	<input type="checkbox"/> 304 <input type="checkbox"/> 316L <input type="checkbox"/> 2507 Others ()
---	--



Con./Feed port standard & complied & outer Dia.(mm); for detailed Winder refer to the chart with China GB standard & American standard	China national standard	C(1"): 32.0	D(1.5"): 48.0	E(2"): 60.0
		F(2.5"): 76.0	G(3"): 89.0	I(4"): 114.0

End ports position & material:

Feed/Concentrate ports size	
-----------------------------	--

Feed/Concentrate ports material	
---------------------------------	--

Membrane housing permeate port:

Permeate ports size	<input type="radio"/> 2.5" membrane housing				
	<input type="radio"/> 4" membrane housing				
	<input type="radio"/> 8" membrane housing	1" FNPT	Other()		
Permeate ports material	<input type="radio"/> 2.5" membrane housing				
	<input type="radio"/> 4" membrane housing				
	<input type="radio"/> 8" membrane housing		ABS() PP()		
Straps & Saddles:					
Straps&Saddles Qty per housing	<input type="radio"/> 2.5" membrane housing	N/A	Strap nuts:	<input type="radio"/> 2.5" membrane housing	
	<input type="radio"/> 4" membrane housing	N/A		<input type="radio"/> 4" membrane housing	
	<input type="radio"/> 8" membrane housing	3 Sets		<input type="radio"/> 8" membrane housing	M8*90
	<input type="radio"/> Other()			Other()	
Logo:					
Logo on the shell body			Other()		
Logo on the cap	<input type="radio"/> 2.5"/4" membrane housing	N/A	Other()		
	<input type="radio"/> 8" membrane housing		Other()		
Using environment:					
Temperature	<input type="checkbox"/> -10°C-66°C <input type="checkbox"/> other ()		<input type="checkbox"/> PH: 3-11 <input type="checkbox"/> Other ()		
Medium	<input type="checkbox"/> Surface、 Ground、 Tap water		<input type="checkbox"/> Electroplating effluent		
	<input type="checkbox"/> Sea water、 subsea water		<input type="checkbox"/> Landfill leachate		
	<input type="checkbox"/> Brackish water <input type="checkbox"/> Special separation filtrate (such as heavy metal recovery, chlor alkali liquid)				
	<input type="checkbox"/> Industrial waste water		<input type="checkbox"/> High quality pure water		
	<input type="checkbox"/> Municipal waste water		<input type="checkbox"/> Other ()		
If membrane element brand and model not provided:adaptors will be as commonly used membranes(central tube inner dia 1.125")Vendor is not responsible for any problems at installation.					
Membrane brand & model:					
Others:					

Price offer will be this chart, Please confirm the chart before ordering .This chart is an attachment of the contract and takes effect after it is signed. Email:sales@chengdapipe.com/ Mary Hu +86 189 3163 3719