

Pressure Vessel Product Line

R25E Series



Low Pressure Vessel



High Pressure Vessel

R40E Series



Low Pressure Vessel



High Pressure Vessel

R40S Series



Low Pressure Vessel



High Pressure Vessel

R80E Series



Low Pressure Vessel



High Pressure Vessel

R80S Series



Low Pressure Vessel



High Pressure Vessel

R80U Series



R160E Series



R160S Series



Certifications

ROPV continues to innovate by developing numerous registered patents related to our manufacturing process and product designs. We've successfully developed a number of OEM products for UF, EDI, large diameter membranes, and emerging water treatment technologies, and is certified by various international-standard-setting bodies.

CERTIFIED BY

ASME Section X, RP	ACS
CNAS	CE
ISO 9001:2000	WRAS
ISO 14001	NSF 61

PATENTS

FRP Pressure Vessel Patents for Water Treatment

ZL 00 2 12602.8	ZL 2004 3 0015079.2	ZL 2004 2 0018590.2	ZL 2005 3 0020421.2
ZL 00 2 12601.X	ZL 2004 2 0018592.1	ZL 2004 3 0058756.9	ZL 2006 2 0021795.5
ZL 03 3 11187.1	ZL 2004 2 0018591.7	ZL 2005 3 0020422.7	
ZL 03 2 12280.2	ZL 2004 3 0058755.4	ZL 2005 2 0020969.1	



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R25E Series

2.5" Standard Pressure Vessel

About ROPV

The ROPV technical team is composed of highly knowledgeable and capable team from the FRP Institute specializing in advanced polymer materials, with over 150 combined years of technical and industry experience in composite design and manufacturing.

The ROPV laboratory is an integrated physical and chemical laboratory equipped with advanced equipment to perform testing and analysis in the areas of:

- Finite Element Analysis
- Resin System Research
- Fatigue Test of Complex Material Compositions

Today ROPV is the largest pressure vessel manufacturer in China with headquarters in Harbin, Heilongjiang Province, China; manufacturing facility in Dezhou, Shandong Province and global sales office in San Francisco, California, USA.

OVERVIEW

The ROPV R25E series model accommodates standard make 2.5" membrane filtration elements. Manufactured to very exacting specifications with only the highest quality materials for continuous use. Our pressure vessels operate within a temperature range of 14–150°F (-10–66°C), at operating pressures of up to 1,200 PSI / 83 Bar. Individual units are hydro-tested prior to shipment to ensure only the highest quality and stable performance.



Low Pressure Vessel



High Pressure Vessel

APPLICATION

Our pressure vessels were developed for permeate and feed/concentrate with variable port options, connection types and sizes. They're fully customizable and are offered as OEM equipment for UF, EDI, Large Diameter Membranes and Emerging Water Treatment Technologies.

FEATURES

- Easy installation and maintenance
- Constructed for best chemical compatibility and corrosion resistance
- Fully customizable and configured based on customer requirements
- Available in the following pressure ratings:
300 Psi, 600 Psi, 1000 Psi, 1200 Psi

Product Datasheet

Model R25E 2.5" Standard Pressure Vessel

R25E Series

Model	Design / Operating Pressure	Max. Operating Temperature	Min. Operating Temperature	Qualification Pressure	Element Length
R2540B300E	300 Psi / 21 Bar	150°F / 66°C	14°F / -10°C	1800 Psi / 126 Bar	40" X 1
R2521B300E	300 Psi / 21 Bar	150°F / 66°C	14°F / -10°C	1800 Psi / 126 Bar	21" X 1
R2514B300E	300 Psi / 21 Bar	150°F / 66°C	14°F / -10°C	1800 Psi / 126 Bar	14" X 1
R2540C600E	600 Psi / 41 Bar	150°F / 66°C	14°F / -10°C	3600 Psi / 246 Bar	40" X 1
R2521C600E	600 Psi / 41 Bar	150°F / 66°C	14°F / -10°C	3600 Psi / 246 Bar	21" X 1
R2514C600E	600 Psi / 41 Bar	150°F / 66°C	14°F / -10°C	3600 Psi / 246 Bar	14" X 1
R2540C1000E	1000 Psi / 69 Bar	150°F / 66°C	14°F / -10°C	6000 Psi / 414 Bar	40" X 1
R2521C1000E	1000 Psi / 69 Bar	150°F / 66°C	14°F / -10°C	6000 Psi / 414 Bar	21" X 1
R2514C1000E	1000 Psi / 69 Bar	150°F / 66°C	14°F / -10°C	6000 Psi / 414 Bar	14" X 1
R2540C1200E	1200 Psi / 83 Bar	150°F / 66°C	14°F / -10°C	7200 Psi / 498 Bar	40" X 1
R2521C1200E	1200 Psi / 83 Bar	150°F / 66°C	14°F / -10°C	7200 Psi / 498 Bar	21" X 1
R2514C1200E	1200 Psi / 83 Bar	150°F / 66°C	14°F / -10°C	7200 Psi / 498 Bar	14" X 1



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R40E Series

4" Standard Pressure Vessel

About ROPV

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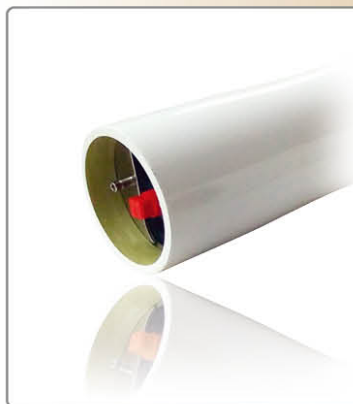
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OVERVIEW

The ROPV R40E series model accommodates standard make 4" membrane filtration elements. Manufactured to very exacting specifications with only the highest quality materials for continuous use. Our pressure vessels operate within a temperature range of 14–150°F (-10–66°C), at operating pressures of up to 1,200 PSI / 83 Bar. Individual units are hydro-tested prior to shipment to ensure only the highest quality and stable performance.



Low Pressure Vessel



High Pressure Vessel

APPLICATION

Our pressure vessels were developed for permeate and feed/concentrate with variable port options, connection types and sizes. They're fully customizable and are offered as OEM equipment for UF, EDI, Large Diameter Membranes and Emerging Water Treatment Technologies.

FEATURES

- Easy installation and maintenance
- Constructed for best chemical compatibility and corrosion resistance
- Fully customizable and configured based on customer requirements
- Available in the following pressure ratings:
300 Psi, 450 Psi, 600 Psi, 1000 Psi, 1200 Psi

Product Datasheet

Model R40E 4" Standard Pressure Vessel

R40E Series

Model	Design/ Operating Pressure	Max. Operating Temperature	Min. Operating Temperature	Qualification Pressure	Element Length
R4040C300E	300 Psi / 21 Bar	150° F / 66°C	14°F / -10°C	1800 Psi/126 Bar	40" X (1-6)
R4040C450E	450 Ps / 31 Bar	150° F / 66°C	14°F / -10°C	2700 Psi/186 Bar	40" X (1-6)
R4040C600E	600 Psi / 41 Bar	150° F / 66°C	14°F / -10°C	3600 Psi/246 Bar	40" X (1-6)
R4040C1000E	1000 Psi / 69 Bar	150° F / 66°C	14°F / -10°C	6000 Psi/414 Bar	40" X (1-6)
R4040C1200E	1200 Psi / 83 Bar	150° F / 66°C	14°F / -10°C	7200 Psi/498 Bar	40" X (1-6)



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R40S Series

4" Standard Pressure Vessel

About ROPV

The ROPV technical team is composed of highly knowledgeable and capable team from the FRP Institute specializing in advanced polymer materials, with over 150 combined years of technical and industry experience in composite design and manufacturing.

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OVERVIEW

The ROPV R40S series model accommodates standard make 4" membrane filtration elements. Manufactured to very exacting specifications with only the highest quality materials for continuous use. Our pressure vessels operate within a temperature range of 14–150°F (-10–66°C), at operating pressures of up to 1,200 PSI / 83 Bar. Individual units are hydro-tested prior to shipment to ensure only the highest quality and stable performance.



Low Pressure Vessel

High Pressure Vessel

APPLICATION

Our pressure vessels were developed for permeate and feed/concentrate with variable port options, connection types and sizes. They're fully customizable and are offered as OEM equipment for UF, EDI, Large Diameter Membranes and Emerging Water Treatment Technologies.

FEATURES

- Easy installation and maintenance
- Constructed for best chemical compatibility and corrosion resistance
- Fully customizable and configured based on customer requirements
- Available in the following pressure ratings: 300 Psi, 450 Psi, 600 Psi, 1000 Psi, 1200 Psi

Product Datasheet

Model R40S

4" Standard Pressure Vessel

R40S Series

Model	Design/ Operating Pressure	Max. Operating Temperature	Min. Operating Temperature	Qualification Pressure	Element Length
R4040C300S	300 Psi / 21 Bar	150°F / 66°C	14°F / -10°C	1800 Psi / 126 Bar	40" X (1-6)
R4040C450S	450 Psi / 31 Bar	150°F / 66°C	14°F / -10°C	2700 Psi / 186 Bar	40" X (1-6)
R4040C600S	600 Psi / 41 Bar	150°F / 66°C	14°F / -10°C	3600 Psi / 246 Bar	40" X (1-6)
R4040C1000S	1000 Psi / 69 Bar	150°F / 66°C	14°F / -10°C	6000 Psi / 414 Bar	40" X (1-6)
R4040C1200S	1200 Psi / 83 Bar	150°F / 66°C	14°F / -10°C	7200 Psi / 498 Bar	40" X (1-6)



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R80E Series

8" Standard Pressure Vessel

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OVERVIEW

The ROPV R80E series model accommodates standard make 8" membrane filtration elements. Manufactured to very exacting specifications with only the highest quality materials for continuous use. Our pressure vessels operate within a temperature range of 14–150°F (-10–66°C), at operating pressures of up to 1,200 PSI / 83 Bar. Individual units are hydro-tested prior to shipment to ensure only the highest quality and stable performance.



Low Pressure Vessel



High Pressure Vessel

APPLICATION

Our pressure vessels were developed for permeate and feed/concentrate with variable port options, connection types and sizes. They're fully customizable and are offered as OEM equipment for UF, EDI, Large Diameter Membranes and Emerging Water Treatment Technologies.

FEATURES

- Easy installation and maintenance
- Constructed for best chemical compatibility and corrosion resistance
- Fully customizable and configured based on customer requirements
- Available Pressure Ratings:
300 Psi, 450 Psi, 600 Psi, 1000 Psi, 1200 Psi

Product Datasheet

Model R80E

8" Standard Pressure Vessel

R80E Series

Model	Design / Operating Pressure	Max. Operating Temperature	Min. Operating Temperature	Qualification Pressure	Element Length
R8040B300E	300 Psi / 21 Bar	150° F / 66°C	14°F / -10°C	1800 Psi / 126 Bar	40' X (1-8)
R8040B450E	450 Psi / 31 Bar	150° F / 66°C	14°F / -10°C	2700 Psi / 186 Bar	40' X (1-8)
R8040B600E	600 Psi / 41 Bar	150° F / 66°C	14°F / -10°C	3600 Psi / 246 Bar	40' X (1-8)
R8040B1000E	1000 Psi / 69 Bar	150° F / 66°C	14°F / -10°C	6000 Psi / 414 Bar	40' X (1-8)
R8040B1200E	1200 Psi / 83 Bar	150° F / 66°C	14°F / -10°C	7200 Psi / 498 Bar	40' X (1-8)



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R80S Series

8" Standard Pressure Vessel

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OVERVIEW

The ROPV R80S series model accommodates standard make 8" membrane filtration elements. Manufactured to very exacting specifications with only the highest quality materials for continuous use. Our pressure vessels operate within a temperature range of 14–150°F (-10–66°C), at operating pressures of up to 1,200 PSI / 83 Bar. Individual units are hydro-tested prior to shipment to ensure only the highest quality and stable performance. The R80S series model is certified and meets the standards of the ASME [American Society of Mechanical Engineers], Section X, RP.



Low Pressure Vessel



High Pressure Vessel

APPLICATION

Our pressure vessels were developed for permeate and feed/concentrate with variable port options, connection types and sizes. They're fully customizable and are offered as OEM equipment for UF, EDI, Large Diameter Membranes and Emerging Water Treatment Technologies.

FEATURES

- Easy installation and maintenance
- Constructed for best chemical compatibility and corrosion resistance
- Fully customizable and configured based on customer requirements
- Available Pressure Ratings:
300 Psi, 450 Psi, 600 Psi, 1000 Psi, 1200 Psi

Product Datasheet

Model R80S

8" Standard Pressure Vessel

R80S Series

Model	Design/ Operating Pressure	Max. Operating Temperature	Min. Operating Temperature	Qualification Pressure	Element Length
R8040B300S	300 Psi / 21 Bar	150°F / 66°C	14°F / -10°C	1800 Psi / 126 Bar	40" X (1-8)
R8040B450S	450 Psi / 31 Bar	150°F / 66°C	14°F / -10°C	2700 Psi / 186 Bar	40" X (1-8)
R8040B600S	600 Psi / 41 Bar	150°F / 66°C	14°F / -10°C	3600 Psi / 246 Bar	40" X (1-8)
R8040B1000S	1000 Psi / 69 Bar	150°F / 66°C	14°F / -10°C	6000 Psi / 414 Bar	40" X (1-8)
R8040B1200S	1200 Psi / 83 Bar	150°F / 66°C	14°F / -10°C	7200 Psi / 498 Bar	40" X (1-8)



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R80U Series

8" Standard Pressure Vessel

About ROPV

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- Fatigue Test of Complex Material Compositions

Today ROPV is the largest pressure vessel manufacturer in China with headquarters in Harbin Heilongjiang Province, China; manufacturing facility in Dezhou, Shandong Province and global sales office in San Francisco, California, USA.

OVERVIEW

The ROPV R80U series models accommodates any standard make of 8" UF membrane elements. Manufactured to very exacting specifications with only the highest quality materials for continuous use. Our pressure vessels operate within a temperature range of 14-150°F (-10-66°C). Individual units are hydro-tested prior to shipment to ensure only the highest quality and stable performance.



APPLICATION

Our pressure vessels were developed for permeate and feed/concentrate with variable port options, connection types and sizes. They're fully customizable and are offered as OEM equipment for UF, EDI, Large Diameter Membranes and Emerging Water Treatment Technologies.

FEATURES

- Easy installation and maintenance
- Constructed for best chemical compatibility and corrosion resistance
- Fully customizable and configured based on customer requirements
- Available pressure rating: 150 Psi

Product Datasheet

Model R80UF

8" Standard Pressure Vessel

R80U Series

Model	Design/ Operating Pressure	Max. Operating Temperature	Min. Operating Temperature	Qualification Pressure	Element Length
R8060U150S	150 Psi / 10 Bar	150°F / 66°C	14°F / -10°C	900 Psi / 60 Bar	60" X (1-4)

Please refer to the latest ROPV sales drawings for multi-port options.



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R160E Series

16" Standard Pressure Vessel

About ROPV

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- Fatigue Test of Complex Material Compositions

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OVERVIEW

The ROPV R160E series models accommodates any standard make of 16" membrane filtration elements. Manufactured to very exacting specifications with only the highest quality materials for continuous use. Our pressure vessels operate within a temperature range of 14–150°F (-10–66°C), at operating pressures of up to 1,200 PSI / 83 Bar. Individual units are hydro-tested prior to shipment to ensure only the highest quality and stable performance.



APPLICATION

Our pressure vessels were developed for permeate and feed/concentrate with variable port options, connection types and sizes. They're fully customizable and are offered as OEM equipment for UF, EDI, Large Diameter Membranes and Emerging Water Treatment Technologies.

FEATURES

- Easy installation and maintenance
- Constructed for best chemical compatibility and corrosion resistance
- Fully customizable and configured based on customer requirements
- Available Pressure Ratings:
300 Psi, 450 Psi, 600 Psi, 1000 Psi, 1200 Psi

Product Datasheet

Model R160E

16" Standard Pressure Vessel

R160E Series

Model	Design/ Operating Pressure	Max. Operating Temperature	Min. Operating Temperature	Qualification Pressure	Element Length
R16040B300E	300 Psi / 21 Bar	150° F / 66°C	14°F / -10°C	1800 Psi / 126 Bar	40" X (1-8)
R16040B450E	450 Psi / 31 Bar	150° F / 66°C	14°F / -10°C	2700 Psi / 186 Bar	40" X (1-8)
R16040B600E	600 Psi / 41 Bar	150° F / 66°C	14°F / -10°C	3600 Psi / 246 Bar	40" X (1-8)
R16040B1000E	1000 Psi / 69 Bar	150° F / 66°C	14°F / -10°C	6000 Psi / 414 Bar	40" X (1-8)
R16040B1200E	1200 Psi / 83 Bar	150° F / 66°C	14°F / -10°C	7200 Psi / 498 Bar	40" X (1-8)



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R160S Series

16" Standard Pressure Vessel

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OVERVIEW

The ROPV R160S series models accommodate any standard make of 16" membrane filtration elements. Manufactured to very exacting specifications with only the highest quality materials for continuous use. Our pressure vessels operate within a temperature range of 14–150°F (-10–66°C), at operating pressures of up to 1,200 PSI / 83 Bar. Individual units are hydro-tested prior to shipment to ensure only the highest quality and stable performance. The R160S series model is certified and meets the standards of the ASME [American Society of Mechanical Engineers], Section X, RP.



APPLICATION

Our pressure vessels were developed for permeate and feed/concentrate with variable port options, connection types and sizes. They're fully customizable and are offered as OEM equipment for UF, EDI, Large Diameter Membranes and Emerging Water Treatment Technologies.

FEATURES

- Easy installation and maintenance
- Constructed for best chemical compatibility and corrosion resistance
- Fully customizable and configured based on customer requirements
- Available Pressure Ratings:
300 Psi, 450 Psi, 600 Psi, 1000 Psi, 1200 Psi

Model	Design/ Operating Pressure	Max. Operating Temperature	Min. Operating Temperature	Qualification Pressure	Element Length
R16040B300S	300 Psi/21Bar	150°F /66°C	14°F / -10°C	1800 Psi/126 Bar	40" X (1-8)
R16040B450S	450 Psi/31Bar	150°F /66°C	14°F / -10°C	2700 Psi/186 Bar	40" X (1-8)
R16040B600S	600 Psi/41Bar	150°F /66°C	14°F / -10°C	3600 Psi/246 Bar	40" X (1-8)
R16040B1000S	1000 Psi/69Bar	150°F /66°C	14°F / -10°C	6000 Psi/414 Bar	40" X (1-8)
R16040B1200S	1200 Psi/83Bar	150°F /66°C	14°F / -10°C	7200 Psi/498 Bar	40" X (1-8)



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R180S Series

18" Standard Pressure Vessel

About ROPV

The ROPV technical team is composed of highly knowledgeable and capable team from the FRP Institute specializing in advanced polymer materials, with over 150 combined years of technical and industry experience in composite design and manufacturing.

The ROPV laboratory is an integrated physical and chemical laboratory equipped with advanced equipment to perform testing and analysis in the areas of:

- Finite Element Analysis
- Resin System Research
- Fatigue Test of Complex Material Compositions

Today ROPV is the largest pressure vessel manufacturer in China with headquarters in Harbin Heilongjiang Province, China; manufacturing facility in Dezhou, Shandong Province and global sales office in San Francisco, California, USA.

OVERVIEW

The ROPV R180S series models accommodates any standard make of 18" membrane filtration elements. Manufactured to very exacting specifications with only the highest quality materials for continuous use. Our pressure vessels operate within a temperature range of 14–150°F (-10–66°C), at operating pressures of up to 1,200 PSI/83 Bar. Individual units are hydro-tested prior to shipment to ensure only the highest quality and stable performance. The R180S series model is certified and meets the standards of the ASME [American Society of Mechanical Engineers], Section X, RP.



APPLICATION

Our pressure vessels were developed for permeate and feed/concentrate with variable port options, connection types and sizes. They're fully customizable and are offered as OEM equipment for UF, EDI, Large Diameter Membranes and Emerging Water Treatment Technologies.

FEATURES

- Easy installation and maintenance
- Constructed for best chemical compatibility and corrosion resistance
- Fully customizable and configured based on customer requirements
- Available Pressure Ratings:
300 Psi, 450 Psi, 600 Psi, 1000 Psi, 1200 Psi

Product Datasheet

Model R180S

18" Standard Pressure Vessel

R180S Series

Model	Design/ Operating Pressure	Max. Operating Temperature	Min. Operating Temperature	Qualification Pressure	Element Length
R18060B300S	300 Psi / 21 Bar	150°F / 66°C	14°F / -10°C	1800 Psi / 126 Bar	60" X (1-5)
R18060B450S	450 Psi / 31 Bar	150°F / 66°C	14°F / -10°C	2700 Psi / 186 Bar	60" X (1-5)
R18060B600S	600 Psi / 41 Bar	150°F / 66°C	14°F / -10°C	3600 Psi / 246 Bar	60" X (1-5)
R18060B1000S	1000 Psi / 69 Bar	150°F / 66°C	14°F / -10°C	6000 Psi / 414 Bar	60" X (1-5)
R18060B1200S	1200 Psi / 83 Bar	150°F / 66°C	14°F / -10°C	7200 Psi / 498 Bar	60" X (1-5)



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Please contact your local Impact Filtration sales representative for
the most current information.