



Wave Cyber



**4" MEMBRANE PRESSURE VESSEL SPARE PART LIST
SIDE PORT AND END PORT**

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4" Membrane Pressure Vessel – Spare Parts List (1000 PSI)

| | |
|---|----------|
| - Head Seal | |
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| - Permeate Pipe | |
| - Permeate Pipe Seal | |
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| - Side Port Seal – Generation 2 | |
| - Side Port Gasket Seal – Generation 2 | |
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| - Head Seal & End Port Seal | |
| - Permeate Pipe Seal | |
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| - Side Port Gasket Seal – Generation 2 | |
| - Retaining Ring | |
| - Clasp & Clasp Cover | |
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| - Sealing End Plate | |
| - Bearing Plate | |
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| - Head Seal | |
| - End Port Seal | |
| - End Port | |
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| - Head Seal | |
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| - Saddle | |
| - Strap | |
| - Strap Nut | |
| - Strap Screw | |
| - Strap Protective Jacket | |

4" Membrane Pressure Vessel – Spare Parts List (1000 PSI)
1. Individual Components
A. Side Port Vessel Components Only
I. *Bearing Plates*

Bearing Plate, SB-211,6061-T6

| | <u>Part No.</u> |
|--------------------------|------------------------|
| 1000 PSI Pressure Vessel | 20063 |

II. *Permeate Pipe*

Permeate Pipe, ABS

| | <u>Part No.</u> |
|--------------------------|------------------------|
| 1000 PSI Pressure Vessel | 10194 |

III. *Sealing End Plate*

Sealing End Plate, ABS

| | <u>Part No.</u> |
|--------------------------|------------------------|
| 1000 PSI Pressure Vessel | 10233 |

IV. *Side Port Parts – Generation 3*

Side Port (SS316L)



| | Q (1") | K (1") |
|--------------------------|------------------------|------------------------|
| | NPT3/4" | |
| | <u>Part No.</u> | <u>Part No.</u> |
| 1000 PSI Pressure Vessel | 20167 | 20393 |

Side Port Seal (EPDM)



| | Q (1") or K (1") |
|--------------------------|------------------------|
| | <u>Part No.</u> |
| 1000 PSI Pressure Vessel | 10620 |

Side Port Gasket Seal (EPDM)



| | Q (1") or K (1") |
|--------------------------|------------------------|
| | <u>Part No.</u> |
| 1000 PSI Pressure Vessel | 10621 |

Clasp (SS316)



| | Q (1") or K (1") |
|--------------------------|------------------------|
| | <u>Part No.</u> |
| 1000 PSI Pressure Vessel | 20692 |

Clasp Cover (SS316)



| | | |
|--------------------------|------------------|--|
| | Q (1") or K (1") | |
| | Part No. | |
| 1000 PSI Pressure Vessel | 20693 | |

V. Side Port Parts – Generation 2

Side Port (SS316L)



| | | |
|--------------------------|-----------------|-----------------|
| | Q (1") | K (1") |
| | NPT3/4" | |
| | Part No. | Part No. |
| 1000 PSI Pressure Vessel | 20167 | 20393 |

Side Port Seal (EPDM)



| | | |
|--------------------------|------------------|--|
| | Q (1") or K (1") | |
| | Part No. | |
| 1000 PSI Pressure Vessel | 10620 | |

Side Port Gasket Seal (EPDM)



| | | |
|--------------------------|------------------|--|
| | Q (1") or K (1") | |
| | Part No. | |
| 1000 PSI Pressure Vessel | 10621 | |

Retaining Ring (SS316)



| | | |
|--------------------------|------------------|--|
| | Q (1") or K (1") | |
| | Part No. | |
| 1000 PSI Pressure Vessel | 20169 | |

VI. Side Port Parts – Generation 1

Side Port (SS316L)



| | | |
|--------------------------|-----------------|-----------------|
| | Q (1") | K (1") |
| | NPT3/4" | |
| | Part No. | Part No. |
| 1000 PSI Pressure Vessel | 20167 | 20393 |

Side Port Seal (EPDM)



| | | |
|--------------------------|------------------|--|
| | Q (1") or K (1") | |
| | Part No. | |
| 1000 PSI Pressure Vessel | 10158 | |

Retaining Ring (SS316)



| | | |
|--------------------------|------------------|--|
| | Q (1") or K (1") | |
| | Part No. | |
| 1000 PSI Pressure Vessel | 20169 | |

B. End Port Vessels Only Components

I. *Bearing Plate*



Bearing Plate, SB-211,6061-T6

Part No.

1000 PSI Pressure Vessel

20070

II. *Permeate Pipe Parts*



Permeate Pipe , ABS

Part No.

1000 PSI Pressure Vessel

10191



Ceramic Rod , Ceramic

10199

III. *Sealing Plate*



Sealing End Plate, ABS

Part No.

1000 PSI Pressure Vessel

10205-1

IV. *End Port Parts*

End Port (S31803)



1000 PSI Pressure Vessel

Part No.

20152-1

End Port Retaining Ring (SS316L)



1000 PSI Pressure Vessel

Part No.

20121

C. Side Port and End Port Vessels Common Parts

I. *Three Turn Retaining Ring*

Three Turn Retaining Ring (316)



1000 PSI Pressure Vessel

Part No.

20026

II. *Head Seal*

Head Seal (EPDM)



All Pressure

Part No.

10177

III. Permeate Port Parts

Permeate Port Retaining Ring (316)



| | |
|--------------------------|-----------------|
| 1000 PSI Pressure Vessel | Part No. |
| | 20109 |

IV. Permeate Pipe Parts

Permeate Pipe Seal (EPDM)



| | |
|--------------------------|-----------------|
| 1000 PSI Pressure Vessel | Part No. |
| | 10187 |

End Port Seal (EPDM)



| | |
|--------------------------|-----------------|
| 1000 PSI Pressure Vessel | Part No. |
| | 10186 |

V. Adaptor Parts

Adaptor (ABS)



| | W/Hole | W/O Hole |
|--------------------------|----------|----------|
| | Part No. | Part No. |
| 1000 PSI Pressure Vessel | 10127-1 | / |



| | | |
|--------------------------|-------|-------|
| 1000 PSI Pressure Vessel | 10469 | 10468 |
|--------------------------|-------|-------|

Adaptor Seal (EPDM)



| Part No. of Adaptor Above | Part No. |
|---------------------------|----------|
| 10127-1 | 10178 |
| 10469 / 10468 | 10389 |

VI. Saddle Parts

Saddle (TPU)



| | |
|--------------|-----------------|
| All pressure | Part No. |
| | 10140 |

Strap (304)



| | |
|--------------|-----------------|
| All pressure | Part No. |
| | 20124 |

Strap Nut (Hpb51-9)



| | |
|--------------|-----------------|
| All pressure | Part No. |
| | 20124 |

Strap Screw (SS)



| | |
|--------------|-----------------|
| All pressure | Part No. |
| | 20128 |

Strap Protective Jacket (Soft PVC)










| | |
|--------------|-----------------|
| All pressure | Part No. |
| | 10189 |

2. Spare Parts Kit Option

A. Side Port Vessels Only Kits

I. *Complete Head Assembly (10632)*

- Sealing End Plate
- Bearing Plate
- Permeate Port Retaining Ring
- Head Seal
- End Port Seal
- Permeate Pipe
- Permeate Pipe Seal

| | | | |
|--|--|---|---|
| Sealing End Plate (10233) | Bearing Plate (20063) | Permeate Port Retaining Ring (20109) | Head Seal (10177) |
|  |  |  |  |
| End Port Seal (10186) | Permeate Pipe (10194) | Permeate Pipe Seal (10187) | |
|  |  |  | |

| | |
|------------------------|-------------------------|
| Pressure Rating | 1000P |
| Complete Head Assembly | <u>Kits Code</u> |
| | 10632 |

II. *Complete MPV Seal/Retaining Ring Kits* (Enough for 4 side ports per vessel)

| Size | Side Port Seal Kits – 1000P | | | |
|------|-----------------------------|------------------------|--------------------------------------|---|
| | Kits code | Part No. & Description | QTY | |
| 1" | 11177 | 10158 | Side Port Curved Seal - Generation 1 | 4 |
| | | 10620 | Side Port Seal - Generation 2 | 4 |
| | | 10621 | Side Port Gasket Seal - Generation 2 | 4 |
| | | 20169 | Retaining Ring | 4 |
| | | 20692 | Clasp | 4 |
| | | 20693 | Clasp Cover | 4 |
| | | 10177 | Head Seal | 2 |
| | | 10186 | End Port Seal | 2 |
| | | 10187 | Permeate Pipe Seal | 2 |
| | | | Part Identification Sheet | 1 |

III. Side Port Kits (Enough for one side port only)

| Size | Side Port Seal Kits-300P/450P/1000P | | | |
|------|-------------------------------------|------------------------|--------------------------------------|-----|
| | Kits code | Part No. & Description | | QTY |
| 1" | 20699 | 10158 | Side Port Curved Seal - Generation 1 | 1 |
| | | 10620 | Side Port Seal - Generation 2 | 1 |
| | | 10621 | Side Port Gasket Seal - Generation 2 | 1 |
| | | 20169 | Retaining Ring | 1 |
| | | 20692 | Clasp | 1 |
| | | 20693 | Clasp Cover | 1 |

B. End Port Vessels Only Kits

I. Complete Head Assembly (10633)

- Sealing End Plate
- Bearing Plate
- Permeate Port Retaining Ring
- Head Seal
- End Port Seal
- End Port
- End Port Retaining Ring
- Permeate Pipe
- Permeate Pipe Seal

| | | | | |
|--------------------------------|------------------------------------|---|-------------------------------|--------------------------|
| Sealing End Plate (10205-1) | Bearing Plate (20070) | Permeate Port Retaining Ring (20109) | Head Seal (10177) | End Port Seal (10186) |
| | | | | |
| End Port (20152-1) | End Port Retaining Ring (20121) | Permeate Pipe (10191) | Permeate Pipe Seal (10187) | |
| | | | | |

| | |
|------------------------|-------------------------|
| Pressure Rating | 1000P |
| Complete Head Assembly | <u>Kits Code</u> |
| | 10633 |

II. Complete MPV Seal/ Retaining Ring Kits

| Pressure Rating | End Port Seal Kits | | | |
|-----------------|--------------------|---------------------------|-------------------------|-----|
| | Kits code | Part No. & Description | | QTY |
| 1000E | 11178 | 10186 | End Port Seal | 4 |
| | | 20121 | End Port Retaining Ring | 4 |
| | | 10177 | Head Seal | 2 |
| | | 10187 | Permeate Pipe Seal | 2 |
| | | Part Identification Sheet | | |

C. Side Port and End Port Vessels Common Kits

I. Saddle Kits

Saddle Kit Options

| | <u>Part No.</u> |
|-------------------------|-----------------|
| Saddle | 10140 |
| Strap & Strap Nut | 20124 |
| Strap Screw | 20128 |
| Strap Protective Jacket | 10189 |
| Complete Saddle Kit | 20277 |



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