



Vessels,
accessories,
rotary pumps



2 ½” MEMBRANE VESSELS END PORT SERIES 300 E-2.5

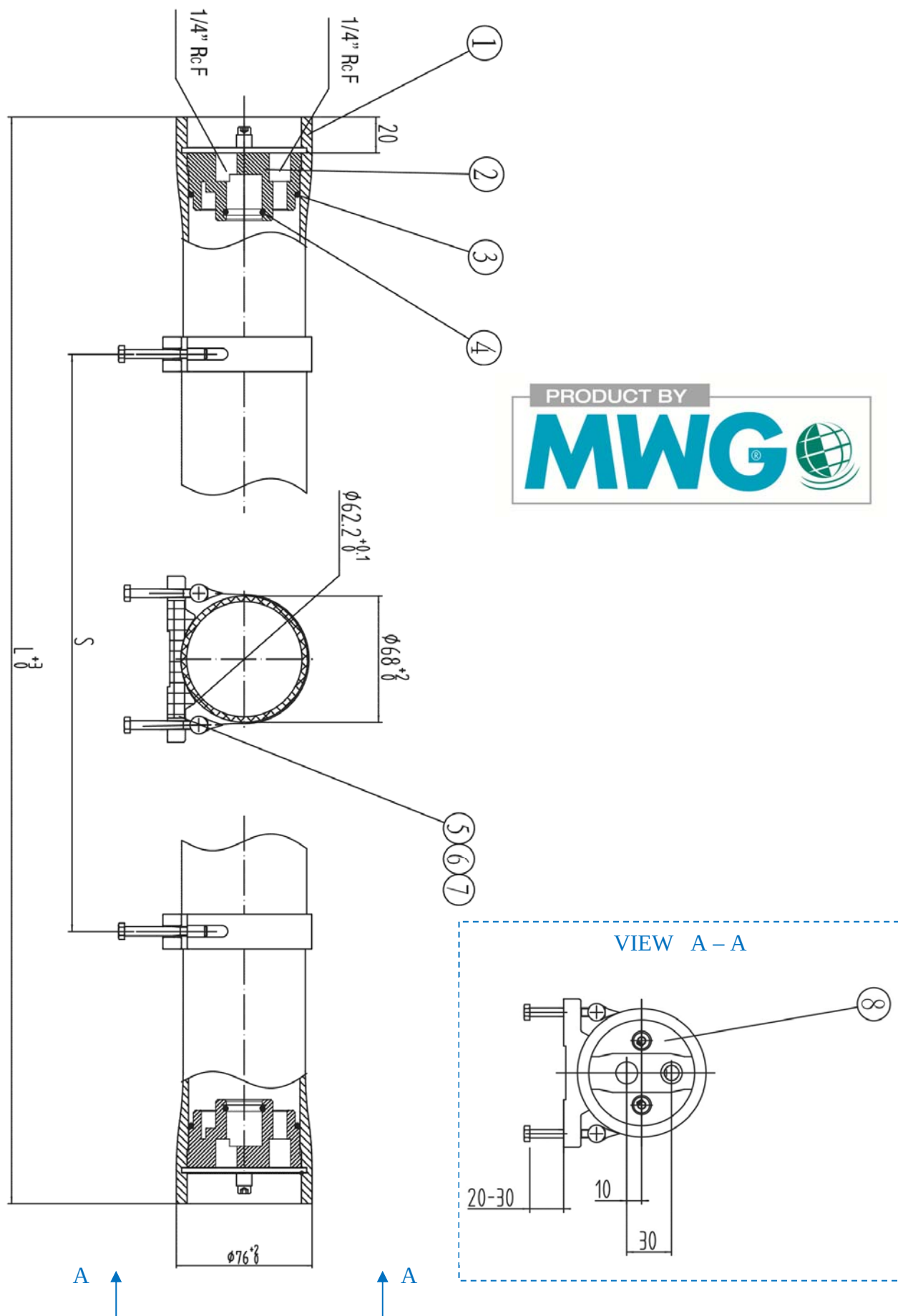
- fiberglass reinforced plastic pressure vessels series 300 E-2.5, D.75” direct connection, white painted, UVA-ray proof material;
- end-cap in PP + 30% FG material;
- max operating pressure 300 psi (21 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- connections: feed/concentrate ¼” Rc female, permeate ¼” Rc female;
- straps and saddles included.

REF.	MODEL	ELEMENTS	L (mm)	S (mm)
H2E1BQ	300 E – 2514	1 x 14”	431	200
H2E1BV	300 E – 2521	1 x 21”	609	400
H2E1B1	300 E – 2.5 – 1	1 x 40”	1092	700

SPARE PARTS:

Item	Description	Quantity	Material	Remark
1	Pressure Shell	1	Epoxy FRP	White
2	End Plate	2	ABS	
3	Head Seal	2	EPDM	56x3,55
4	Adapter Seal	2	EPDM	19x2,65
5	Saddle	2	Rubber	
6	Strap Screw	4	AISI 304	M6x60
7	Strap	2	AISI 304 - Rubber	
8	Seeger	4	AISI 304	

2 ½" MEMBRANE VESSELS END PORT SERIES 300 E-2.5



2 ½” MEMBRANE VESSELS END PORT SERIES 1000 E-2.5

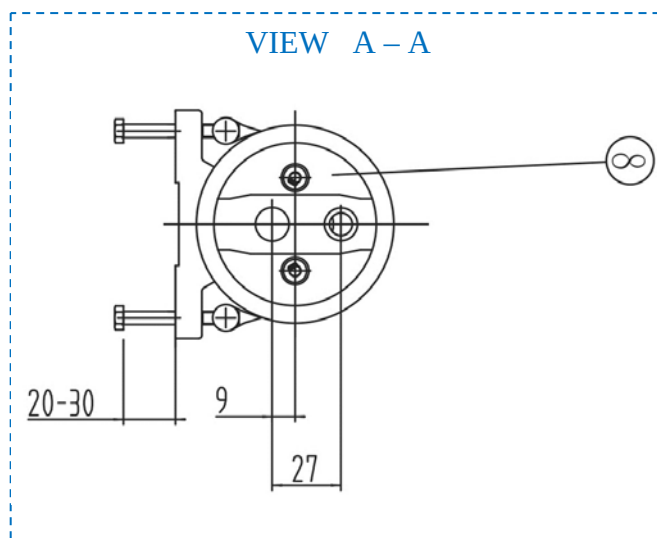
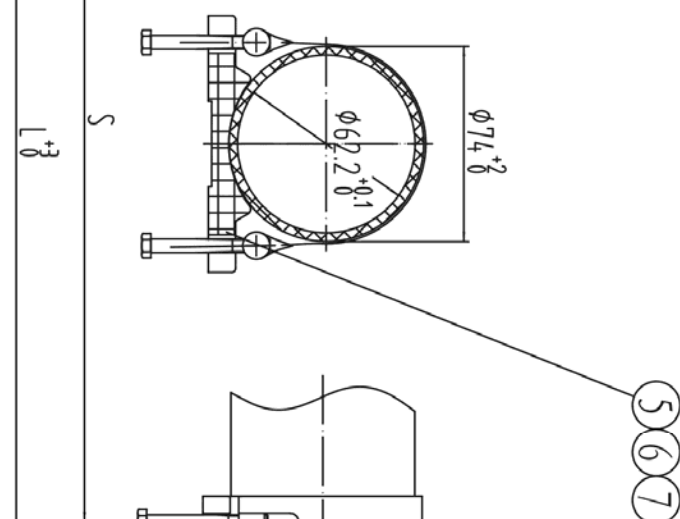
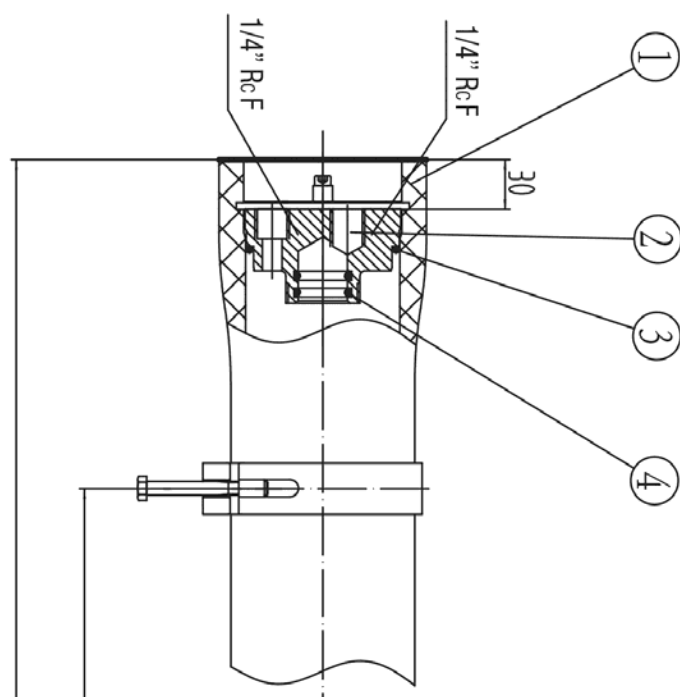
- fiberglass reinforced plastic pressure vessels series 1000 E-2.5, D.75” direct connection, white painted, UVA-ray proof material;
- end-cap in super duplex steel AISI 2507;
- max operating pressure 1000 psi (69 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- connections: feed/concentrate ¼” Rc female, permeate ¼” Rc female;
- straps and saddles included.

REF.	MODEL	ELEMENTS	L (mm)	S (mm)
H2E1GV	1000 E – 2521	1 x 21”	629	400
H2E1G1	1000 E – 2.5 – 1	1 x 40”	1112	700

SPARE PARTS:

Item	Description	Quantity	Material	Remark
1	Pressure Shell	1	Epoxy FRP	White
2	End Plate	2	Super Duplex Steel AISI 2507	
3	Head Seal	2	EPDM	56x3,55
4	Adapter Seal	2	EPDM	19x2,65
5	Saddle	2	Rubber	
6	Strap Screw	4	AISI 316	M6x60
7	Strap	2	AISI 316 - Rubber	
8	Seeger	4	AISI 316	

2 ½" MEMBRANE VESSELS END PORT SERIES 1000 E-2.5



4" MEMBRANE VESSELS END PORT SERIES 300 E-4

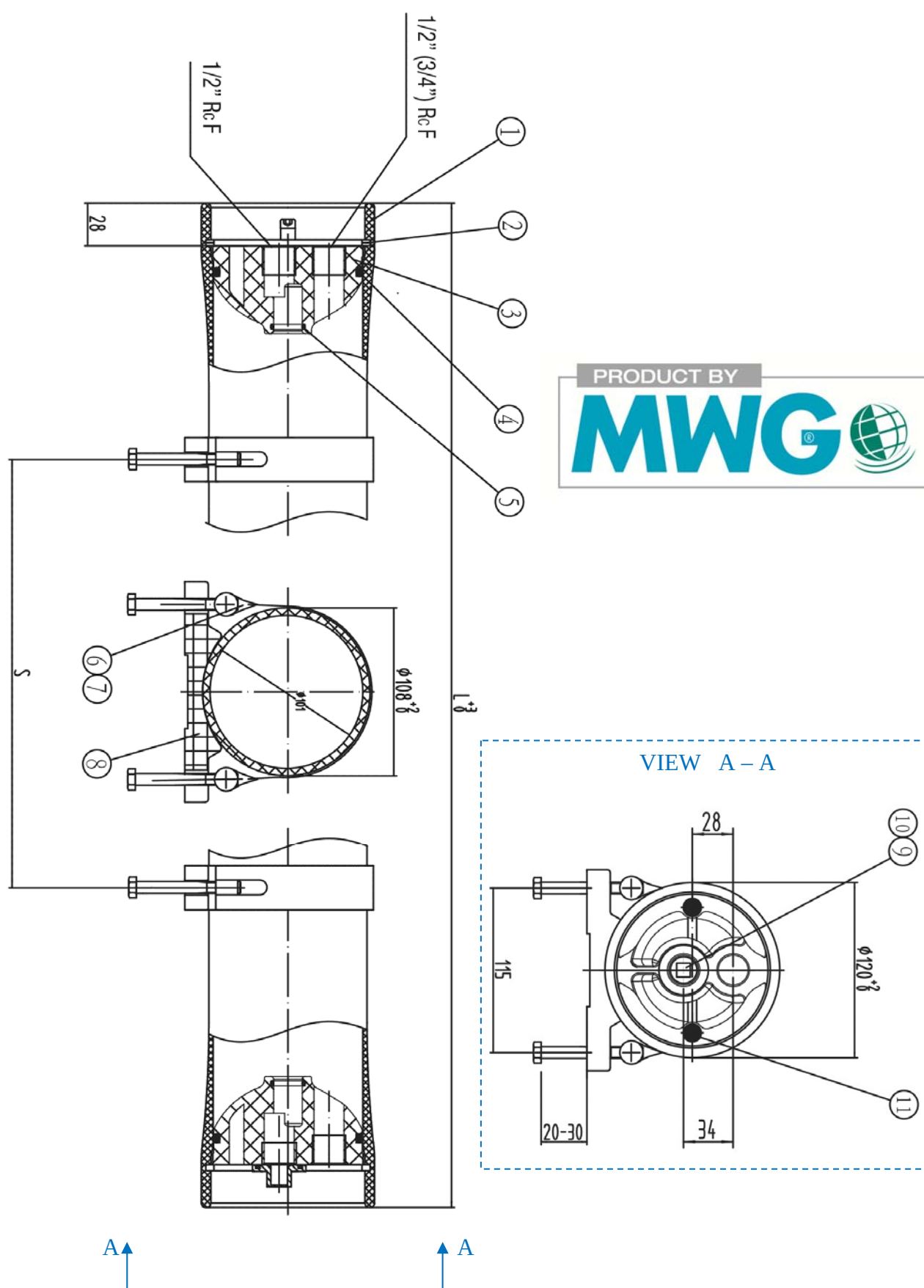
- fiberglass reinforced plastic pressure vessels series 300 E-4, D.75" direct connection, white painted, UVA-ray proof material;
- end-cap in PP + 30% FG material;
- max operating pressure 300 psi (21 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- permeate connections ½" Rc female;
- straps and saddles included.

REF.	MODEL	ELEMENTS	L (mm)	S (mm)	CONNECTIONS FEED / CONCENTRATE
H4E2BV	300 E – 4021	1 x 21"	658	400	½" Rc female
H4E2B1	300 E – 4 – 1	1 x 40"	1140	600	½" Rc female
H4E3B1	300 E – 4 – 1	1 x 40"	1140	600	¾" Rc female
H4E2B2	300 E – 4 – 2	2 x 40"	2156	1200	½" Rc female
H4E3B2	300 E – 4 – 2	2 x 40"	2156	1200	¾" Rc female
H4E2B3	300 E – 4 – 3	3 x 40"	3172	2200	½" Rc female
H4E3B3	300 E – 4 – 3	3 x 40"	3172	2200	¾" Rc female
H4E2B4	300 E – 4 – 4	4 x 40"	4268	1600x2	½" Rc female
H4E3B4	300 E – 4 – 4	4 x 40"	4268	1600x2	¾" Rc female

SPARE PARTS:

Item	Description	Quantity	Material	Remark
1	Pressure Shell	1	Epoxy FRP	White
2	Seeger	4	AISI 304	
3	End Plate	2	ABS	
4	Head Seal	2	EPDM	56x3,55
5	Adapter Seal	2	EPDM	19x2,65
6	Strap	2-3	AISI 304 - Rubber	
7	Strap Screw	4-6	AISI 304	M6x60
8	Saddle	2-3	Rubber	
9	Plug	1	ABS	
10	O-ring of Plug	4	EPDM	23,6x3,55
11	Seeger Screw	4	AISI 304	M6x14

4" MEMBRANE VESSELS END PORT SERIES 300 E-4



4” MEMBRANE VESSELS END PORT SERIES 450 E-4

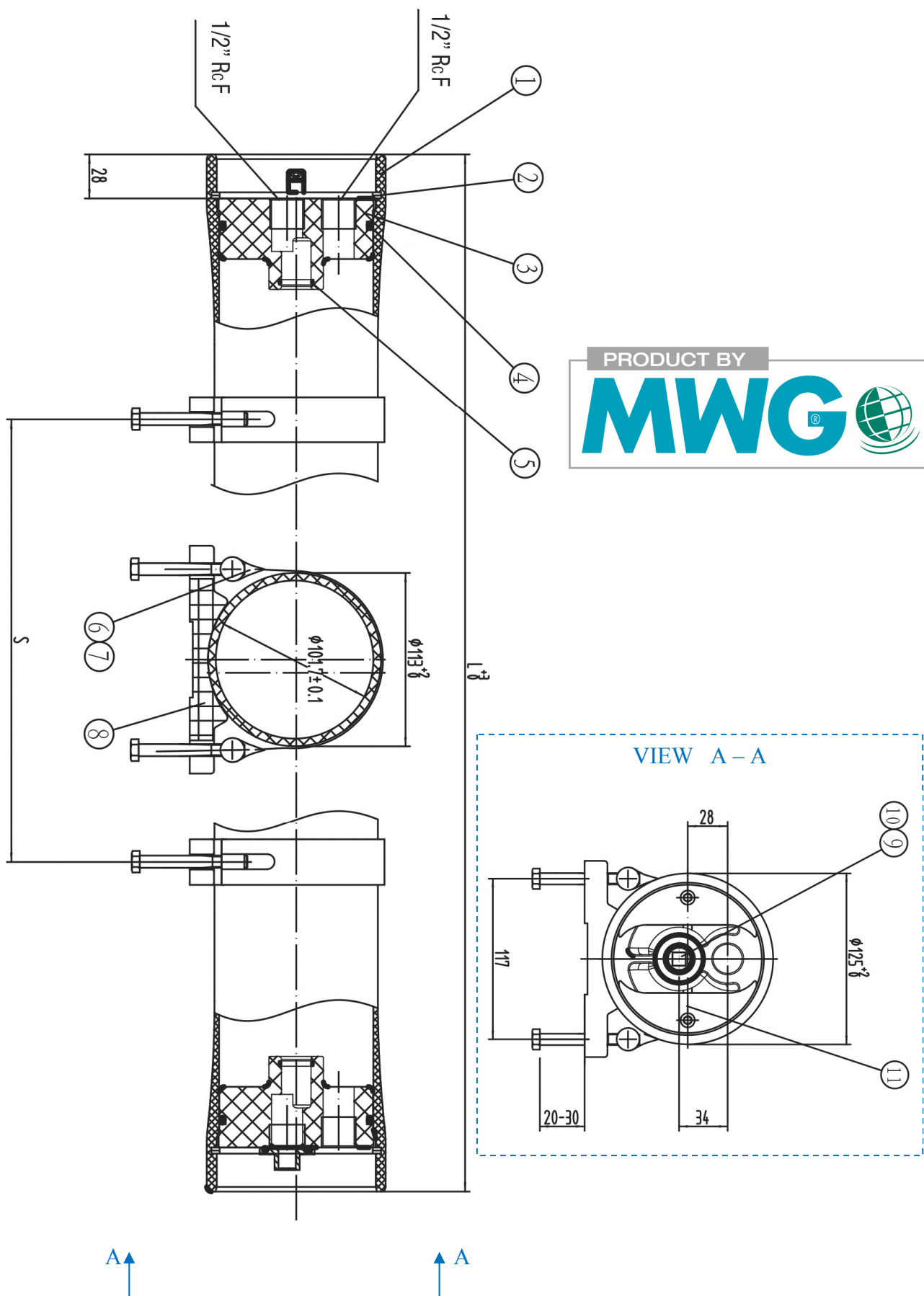
- fiberglass reinforced plastic pressure vessels series 450 E-4, D.75” direct connection, white painted, UVA-ray proof material;
- end-cap in PP + 30% FG material;
- max operating pressure 450 psi (31 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections ½” Rc female;
- permeate connections ½” Rc female;
- straps and saddles included.

REF.	MODEL	ELEMENTS	L (mm)	S (mm)
H4E2C1	450 E – 4 – 1	1 x 40”	1152	600
H4E2C2	450 E – 4 – 2	2 x 40”	2168	1200
H4E2C3	450 E – 4 – 3	3 x 40”	3184	2200
H4E2C4	450 E – 4 – 4	4 x 40”	4280	1600x2
H4E2C5	450 E – 4 – 5	5 x 40”	5296	2300x2
H4E2C6	450 E – 4 – 6	6 x 40”	6312	2700x2

SPARE PARTS:

Item	Description	Quantity	Material	Remark
1	Pressure Shell	1	Epoxy FRP	White
2	Seeger	4	AISI 304	
3	End Plate	2	ABS	
4	Head Seal	2	EPDM	56x3,55
5	Adapter Seal	2	EPDM	19x2,65
6	Strap	2-3	AISI 304 - Rubber	
7	Strap Screw	4-6	AISI 304	M6x60
8	Saddle	2-3	Rubber	
9	Plug	1	ABS	
10	O-ring of Plug	4	EPDM	23,6x3,55
11	Seeger Screw	4	AISI 304	M6x14

4" MEMBRANE VESSELS END PORT SERIES 450 E-4



4" MEMBRANE VESSELS END PORT SERIES 1000 E-4

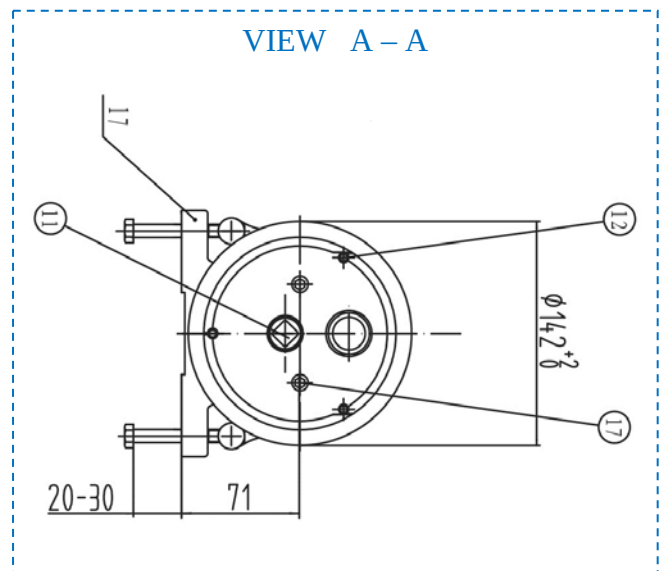
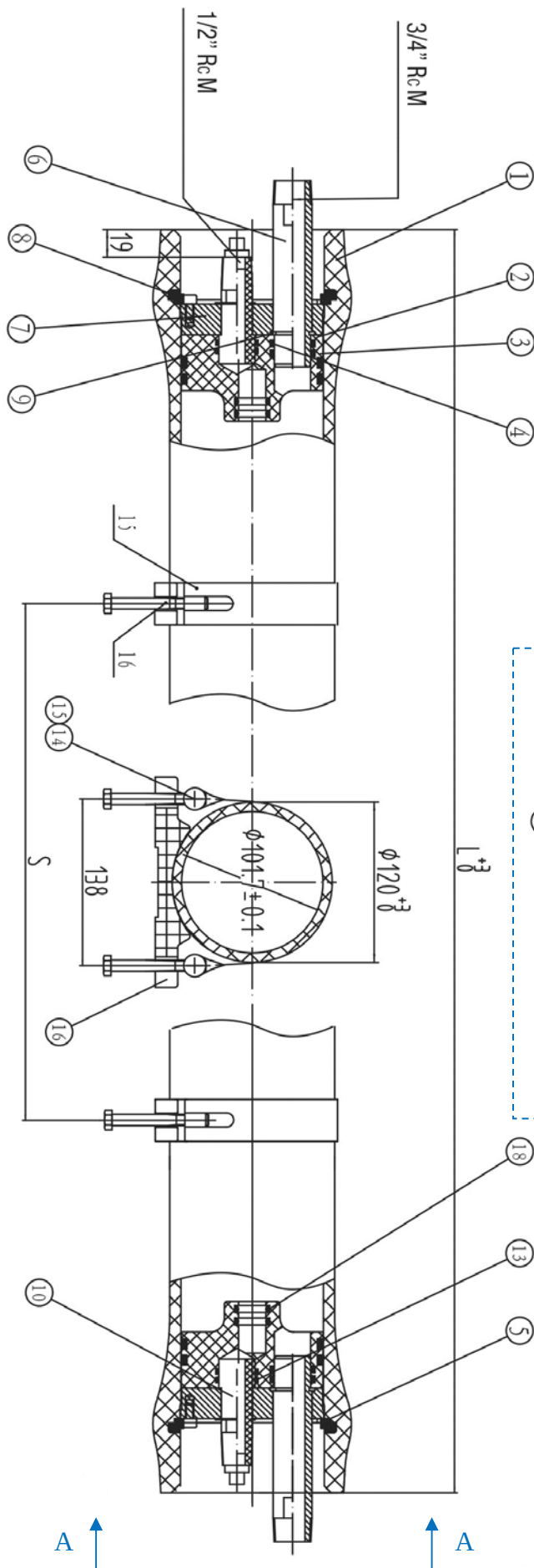
- fiberglass reinforced plastic pressure vessels series 1000 E-4, complete with 0,75" adapters, white painted, UVA-ray proof material;
- max operating pressure 1000 psi (69 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections ¾" Rc male, in super duplex steel AISI 2507;
- permeate connections ½" Rc male;
- straps and saddles included.

REF.	MODEL	ELEMENTS	L (mm)	S (mm)
H4E4GV	1000 E-4021	1 x 21"	762	400
H4E4G1	1000 E-4-1	1 x 40"	1244	600
H4E4G2	1000 E-4-2	2 x 40"	2260	1200
H4E4G3	1000 E-4-3	3 x 40"	3276	2200
H4E4G4	1000 E-4-4	4 x 40"	4372	1600x2
H4E4G5	1000 E-4-5	5 x 40"	5388	2300x2
H4E4G6	1000 E-4-6	6 x 40"	6404	2700x2

SPARE PARTS:

Item	Description	Quantity	Material	Remark
1	Pressure Shell	1	Epoxy FRP	White
2	Sealing Plate	2	ABS	
3	Head Seal	2	EPDM	90x5,3
4	O-ring of Feed Conc. Port	2	EPDM	25,8x3,55
5	Locking Kit Segment	2	AISI 316	
6	Feed/Concentrate Port	2	Super Duplex Steel AISI 2507	
7	Bearing Plate	2	Aluminium	
8	Embedded Ring	2	AISI 316	
9	Retaining Ring	2	AISI 304	
10	Permeate Port	2	ABS	
11	Plug	1	ABS	
12	Securing Screw	6	AISI 304	M6x10
13	O-ring of Permeate Port	2	EPDM	25x2,65
14	Strap	2-3	AISI 304 - Rubber	
15	Strap Screw	4-6	AISI 304	M8x70
16	Saddle	2-3	Rubber	
17	Screw	2	AISI 304	M6x20
18	O-ring of Feed Conc. Port	2	EPDM	19x2,65

4" MEMBRANE VESSELS END PORT SERIES 1000 E-4



4" MEMBRANE VESSELS SIDE PORT SERIES 300 S-4

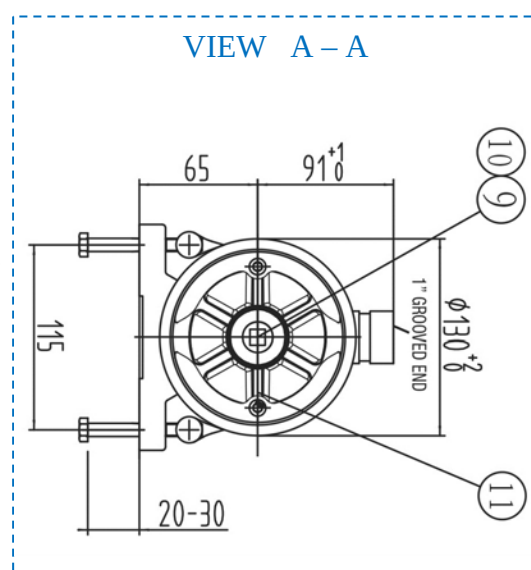
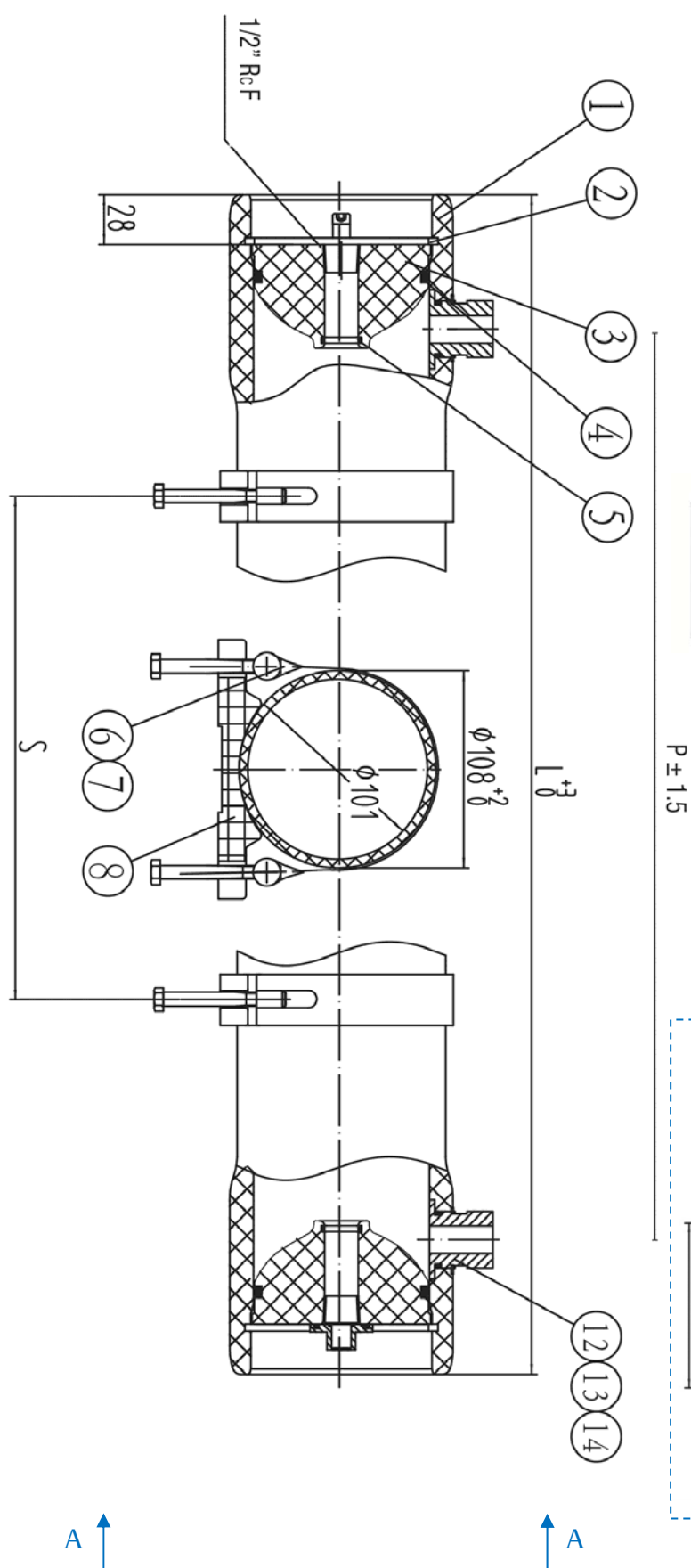
- fiberglass reinforced plastic pressure vessels series 300 S-4, D.75" direct connection, white painted, UVA-ray proof material;
- max operating pressure 300 psi (21 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1" Victaulic, 0° or 180° oriented;
- permeate connections ½" Rc female;
- straps and saddles included.

REF.	MODEL	ELEMENTS	L (mm)	P (mm)	S (mm)	ORIENT.
H410B1	300 S-4-1D5D-1	1 x 40"	1140	984	600	0°
H410B2	300 S-4-1D5D-2	2 x 40"	2156	2000	1200	0°
H410B3	300 S-4-1D5D-3	3 x 40"	3172	3016	2200	0°
H410B4	300 S-4-1D5D-4	4 x 40"	4268	4112	1600x2	0°
H412B1	300 S-4-1D7D-1	1 x 40"	1140	984	600	180°
H412B2	300 S-4-1D7D-2	2 x 40"	2156	2000	1200	180°
H412B3	300 S-4-1D7D-3	3 x 40"	3172	3016	2200	180°
H412B4	300 S-4-1D7D-4	4 x 40"	4268	4112	1600x2	180°

SPARE PARTS:

Item	Description	Quantity	Material	Remark
1	Pressure Shell	1	Epoxy FRP	White
2	Seeger	4	AISI 304	
3	End Plate	2	ABS	
4	Head Seal	2	EPDM	90x5,3
5	Adapter Seal	2	EPDM	19x2,65
6	Strap	2-3	AISI 304 - Rubber	
7	Strap Screw	4-6	AISI 304	M6x60
8	Saddle	2-3	Rubber	
9	Plug	1	ABS	
10	O-ring of Plug	1	EPDM	23,6x3,55
11	Seeger Screw	4	AISI 304	M6x20
12	Feed/Concentrate Port	2-4	AISI 316	
13	O-Ring of Feed/Conc. Port	2-4	EPDM	28x2,65
14	Retaining Ring	2-4	AISI 304	

4" MEMBRANE VESSELS SIDE PORT SERIES 300 S-4



4" MEMBRANE VESSELS SIDE PORT SERIES 1000 S-4

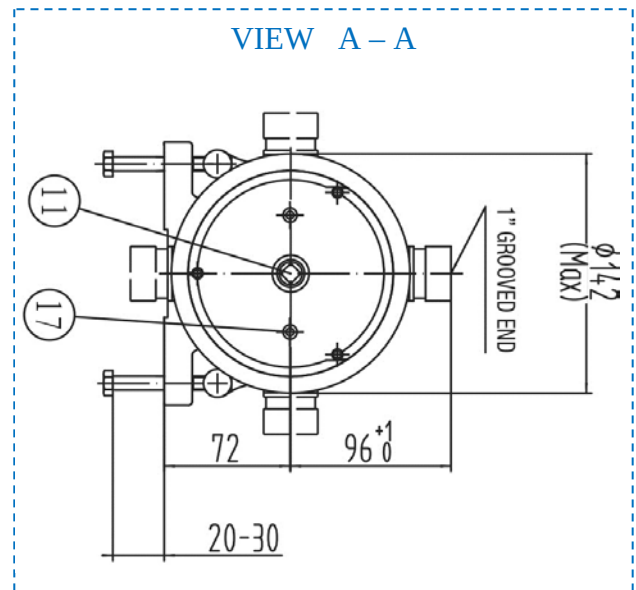
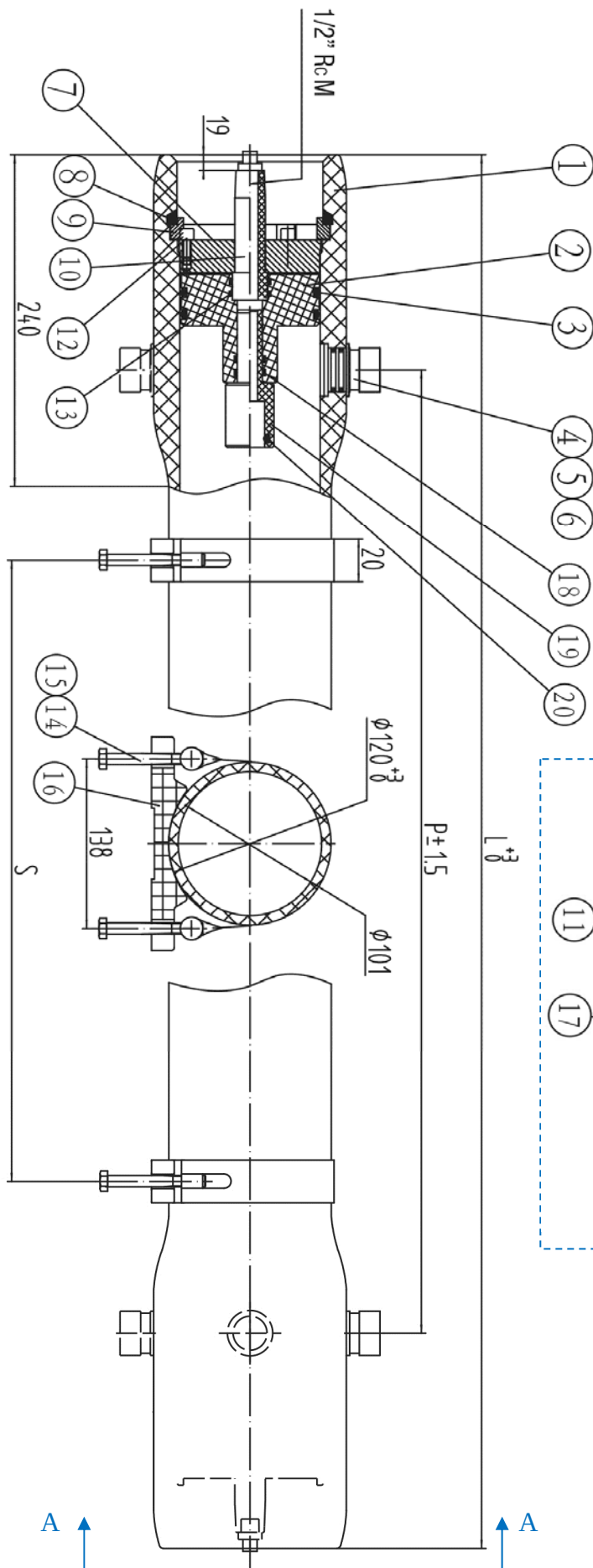
- fiberglass reinforced plastic pressure vessels series 1000 S-4, D.75" direct connection, white painted, UVA-ray proof material;
- max operating pressure 1000 psi (69 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1" Victaulic, 0° or 180° oriented, in super duplex steel AISI 2507;
- permeate connections ½" Rc male;
- straps and saddles included.

REF.	MODEL	ELEMENTS	L (mm)	P (mm)	S (mm)	ORIENT.
H410G1	1000 S-4-1D5D-1	1 x 40"	1364	1036	600	0°
H410G2	1000 S-4-1D5D-2	2 x 40"	2380	2052	1200	0°
H410G3	1000 S-4-1D5D-3	3 x 40"	3396	3068	2200	0°
H410G4	1000 S-4-1D5D-4	4 x 40"	4412	4084	1600x2	0°
H412G1	1000 S-4-1D7D-1	1 x 40"	1364	1036	600	180°
H412G2	1000 S-4-1D7D-2	2 x 40"	2380	2052	1200	180°
H412G3	1000 S-4-1D7D-3	3 x 40"	3396	3068	2200	180°
H412G4	1000 S-4-1D7D-4	4 x 40"	4412	4084	1600x2	180°

SPARE PARTS:

Item	Description	Quantity	Material	Remark
1	Pressure Shell	1	Epoxy FRP	White
2	Sealing Plate	2	ABS	
3	Head Seal	2	EPDM	90x5,3
4	O-ring of Feed Conc. Port	2	EPDM	28x2,65
5	Retaining Ring	2	AISI 304	
6	Feed/Concentrate Port	2	Super Duplex Steel AISI 2507	
7	Bearing Plate	2	Aluminium	
8	Embedded Ring	2	AISI 316	
9	Locking Kit Segment	2	AISI 316	
10	Permeate Port	2	ABS	
11	Plug	1	ABS	
12	Securing Screw	6	AISI 304	M6x10
13	O-ring of Permeate Port	2	EPDM	25x2,65
14	Strap	2-3	AISI 304 - Rubber	
15	Strap Screw	4-6	AISI 304	M8x70
16	Saddle	2-3	Rubber	
17	Screw	2	AISI 304	M6x20
18	O-ring of Sealing Plate	2	EPDM	17x2,65
19	Adapter	2	ABS	
20	O-ring of Feed Conc. Port	2	EPDM	19x2,65

4" MEMBRANE VESSELS SIDE PORT SERIES 1000 S-4

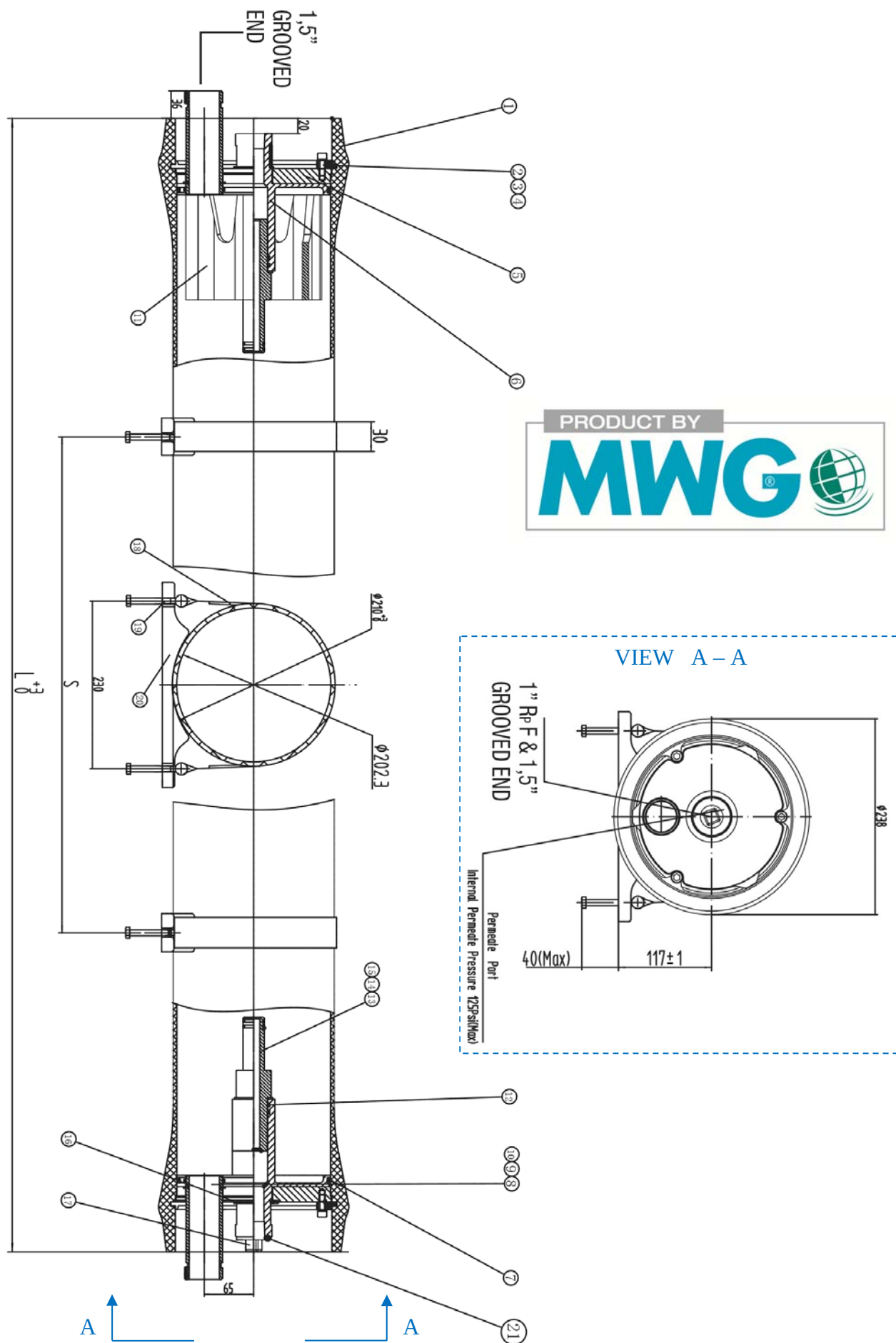


8” MEMBRANE VESSELS END PORT SERIES 300 E-8

- fiberglass reinforced plastic pressure vessels series 300 E-8, white painted, UVA-ray proof material;
- max operating pressure 300 psi (21 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1 ½” Victaulic;
- permeate connections 1” Rp F and 1 ½” Victaulic;
- straps and saddles included (n.2 pcs from 1 to 3 elements, n.3 pcs from 4 to 7 elements);
- 1,125” membrane adapters included.

REF.	MODEL	ELEMENTS	L (mm)	S (mm)
H8E5B1	300 E – 8040 – 1	1 x 40”	1498	700
H8E5B2	300 E – 8040 – 2	2 x 40”	2514	1460
H8E5B3	300 E – 8040 – 3	3 x 40”	3530	2080
H8E5B4	300 E – 8040 – 4	4 x 40”	4546	1600x2
H8E5B5	300 E – 8040 – 5	5 x 40”	5562	2000x2
H8E5B6	300 E – 8040 – 6	6 x 40”	6578	2360x2
H8E5B7	300 E – 8040 – 7	7 x 40”	7594	2860x2

8" MEMBRANE VESSELS END PORT SERIES 300 E-8

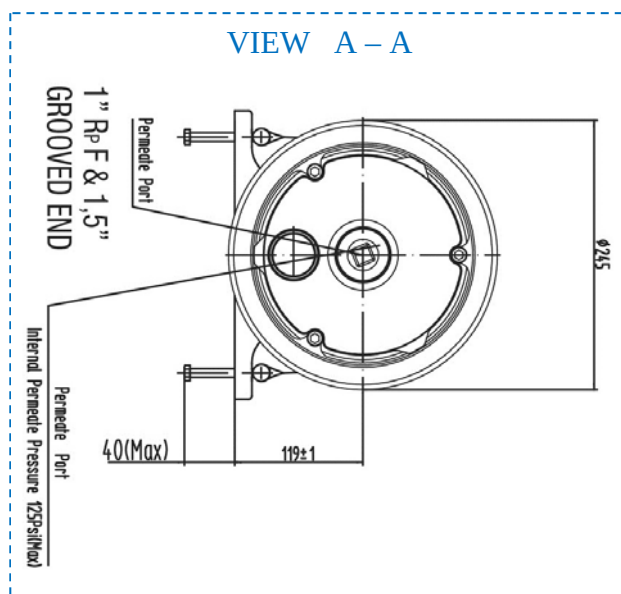
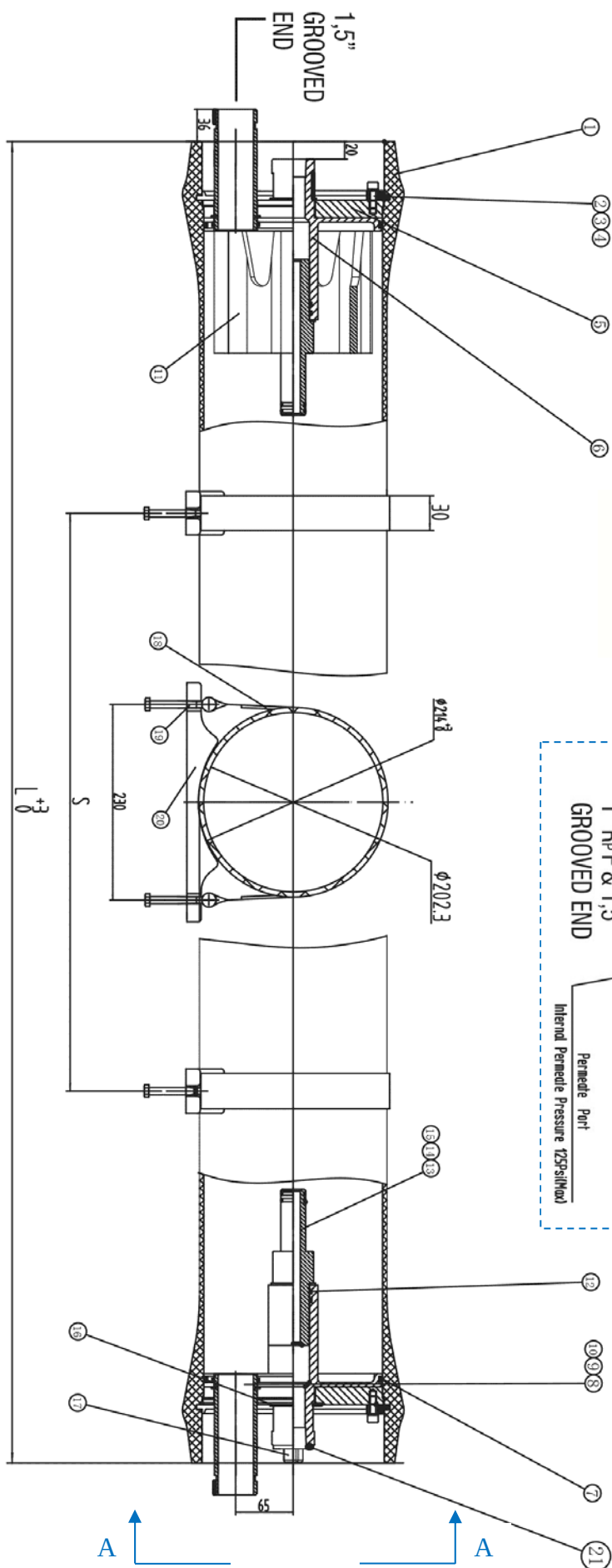


8” MEMBRANE VESSELS END PORT SERIES 450 E-8

- fiberglass reinforced plastic pressure vessels series 450 E-8, white painted, UVA-ray proof material;
- max operating pressure 450 psi (31 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1 ½” Victaulic;
- permeate connections 1” Rp F and 1 ½” Victaulic;
- straps and saddles included (n.2 pcs from 1 to 3 elements, n.3 pcs from 4 to 7 elements);
- 1,125” membrane adapters included.

REF.	MODEL	ELEMENTS	L (mm)	S (mm)
H8E5C1	450 E – 8040 – 1	1 x 40”	1498	700
H8E5C2	450 E – 8040 – 2	2 x 40”	2514	1460
H8E5C3	450 E – 8040 – 3	3 x 40”	3530	2080
H8E5C4	450 E – 8040 – 4	4 x 40”	4546	1600x2
H8E5C5	450 E – 8040 – 5	5 x 40”	5562	2000x2
H8E5C6	450 E – 8040 – 6	6 x 40”	6578	2360x2
H8E5C7	450 E – 8040 – 7	7 x 40”	7594	2860x2

8" MEMBRANE VESSELS END PORT SERIES 450 E-8

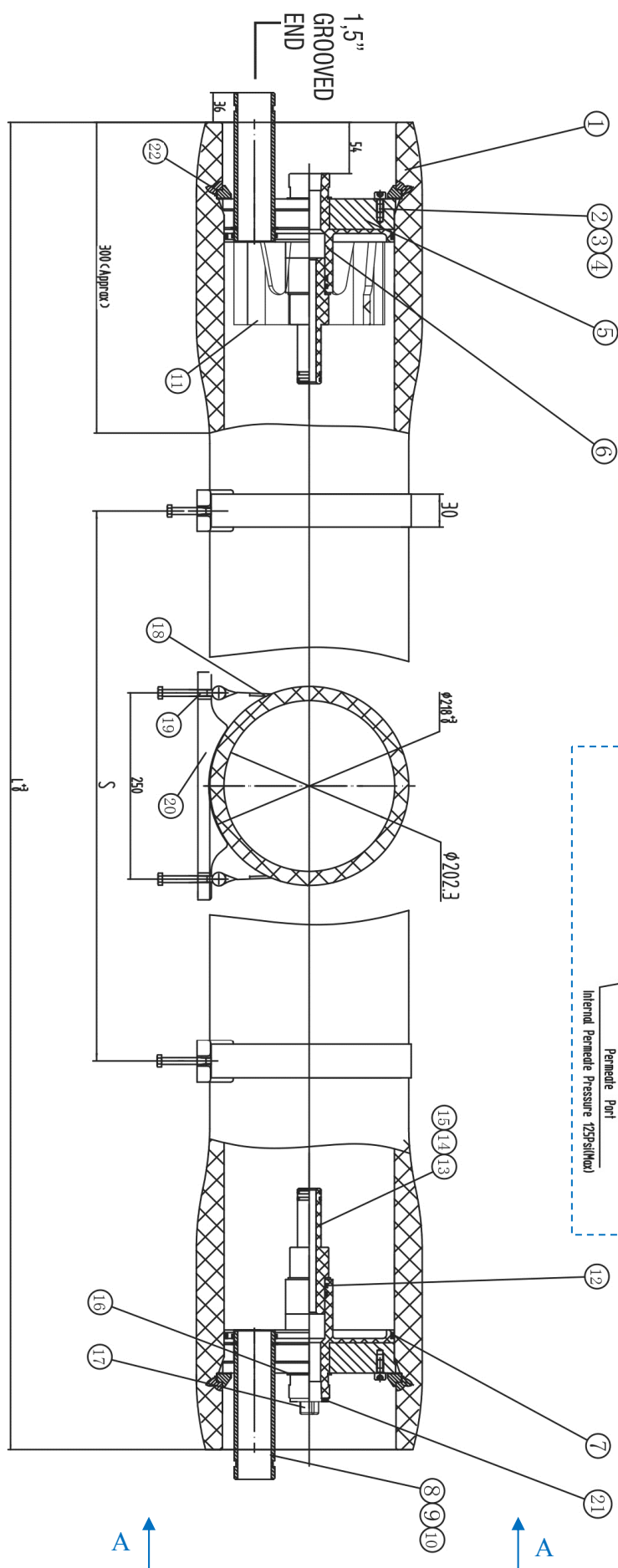


8” MEMBRANE VESSELS END PORT SERIES 600 E-8

- fiberglass reinforced plastic pressure vessels series 600 E-8, white painted, UVA-ray proof material;
- max operating pressure 600 psi (41 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1 ½” Victaulic in super duplex steel AISI 2507;
- permeate connections 1” Rp F;
- straps and saddles included (n.2 pcs from 1 to 3 elements, n.3 pcs from 4 to 7 elements);
- 1,125” membrane adapters included.

REF.	MODEL	ELEMENTS	L (mm)	S (mm)
H8E5D1	600 E – 8040 – 1	1 x 40”	1514	700
H8E5D2	600 E – 8040 – 2	2 x 40”	2530	1460
H8E5D3	600 E – 8040 – 3	3 x 40”	3546	2080
H8E5D4	600 E – 8040 – 4	4 x 40”	4562	1600x2
H8E5D5	600 E – 8040 – 5	5 x 40”	5578	2000x2
H8E5D6	600 E – 8040 – 6	6 x 40”	6594	2360x2
H8E5D7	600 E – 8040 – 7	7 x 40”	7610	2860x2

8" MEMBRANE VESSELS END PORT SERIES 600 E-8

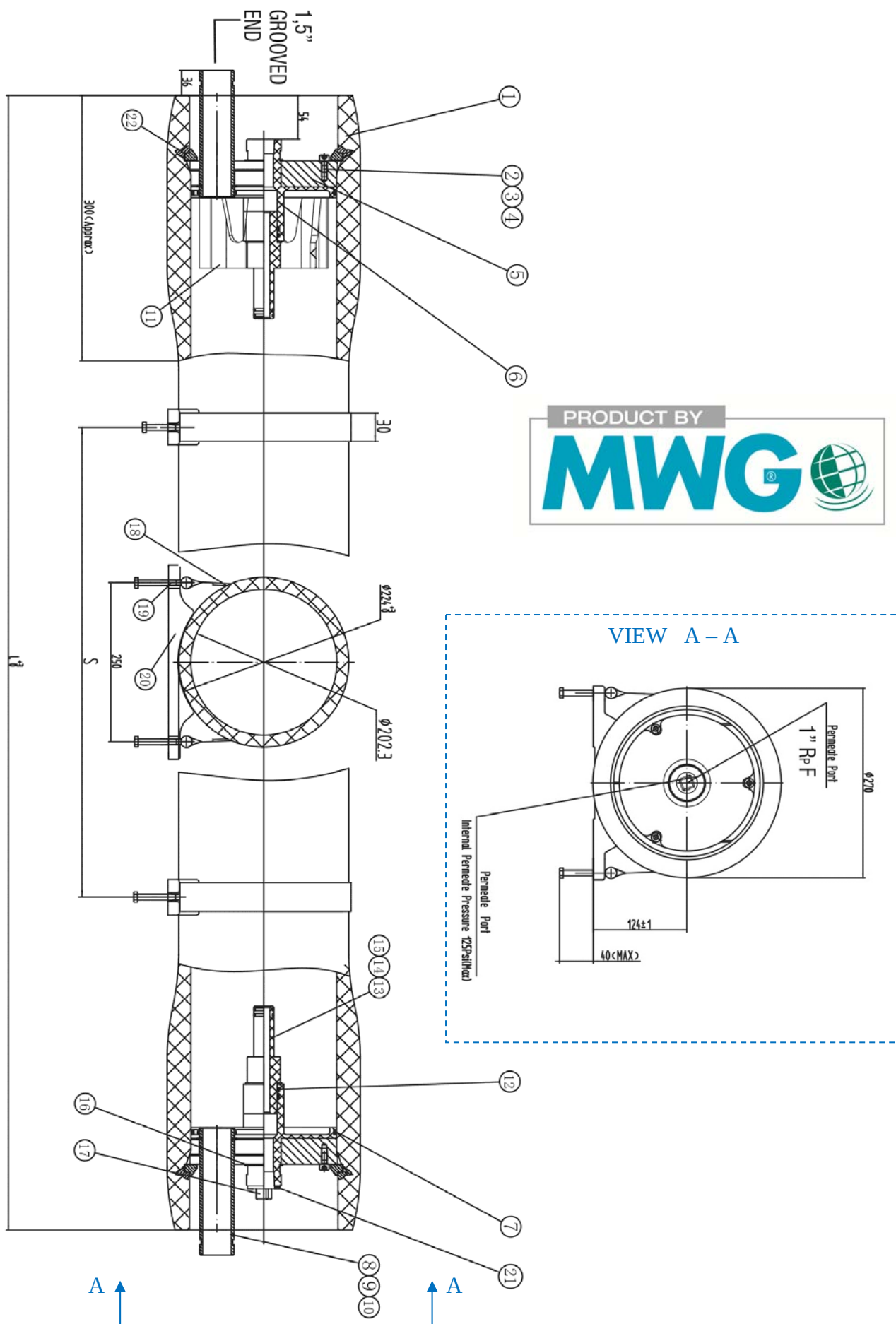


8” MEMBRANE VESSELS END PORT SERIES 1000 E-8

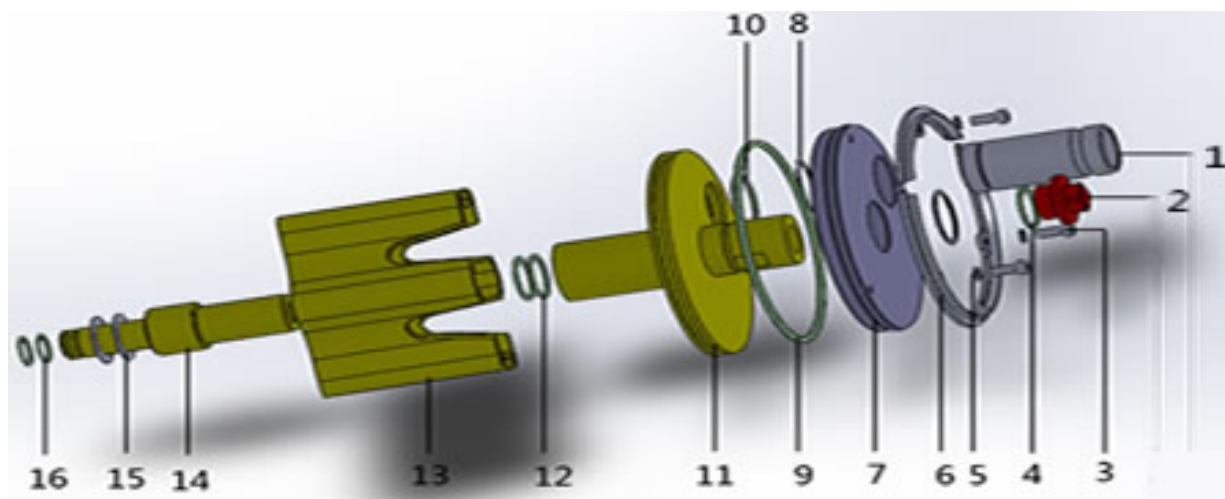
- fiberglass reinforced plastic pressure vessels series 1000 E-8, white painted, UVA-ray proof material;
- max operating pressure 1000 psi (69 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1 ½” Victaulic in super duplex steel AISI 2507;
- permeate connections 1” Rp F;
- straps and saddles included (n.2 pcs from 1 to 3 elements, n.3 pcs from 4 to 7 elements);
- 1,125” membrane adapters included.

REF.	MODEL	ELEMENTS	L (mm)	S (mm)
H8E5G1	1000 E – 8040 – 1	1 x 40”	1514	700
H8E5G2	1000 E – 8040 – 2	2 x 40”	2530	1460
H8E5G3	1000 E – 8040 – 3	3 x 40”	3546	2080
H8E5G4	1000 E – 8040 – 4	4 x 40”	4562	1600x2
H8E5G5	1000 E – 8040 – 5	5 x 40”	5578	2000x2
H8E5G6	1000 E – 8040 – 6	6 x 40”	6594	2360x2
H8E5G7	1000 E – 8040 – 7	7 x 40”	7610	2860x2

8" MEMBRANE VESSELS END PORT SERIES 1000 E-8

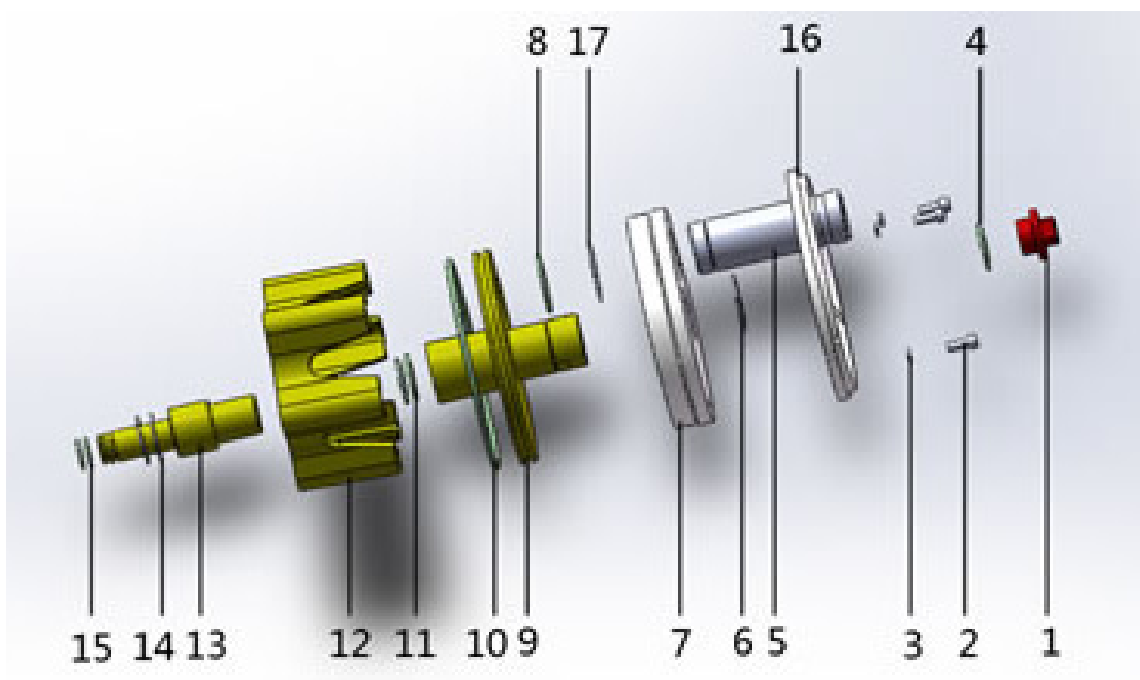


8” END PORT 300-450 PSI VESSELS SPARE PARTS



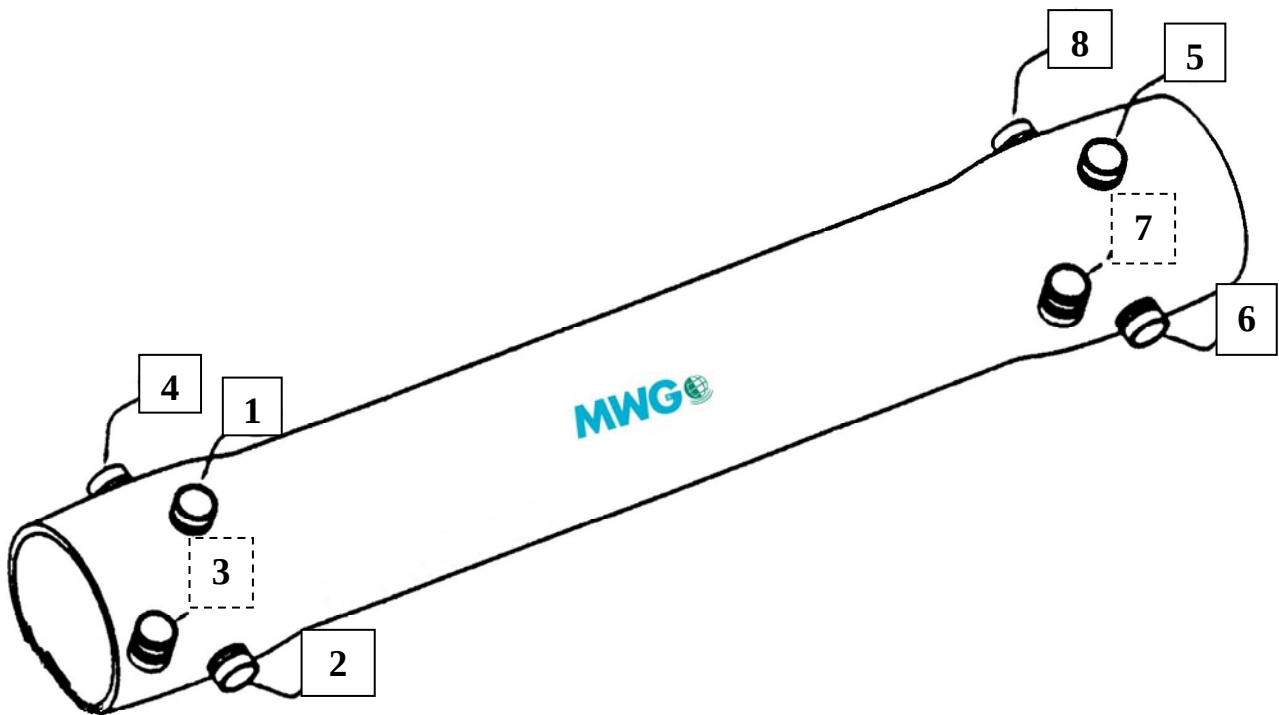
ITEM	DESCRIPTION	MATERIAL
1	FEED CONCENTRATE PORT 1,5” VICTAULIC	AISI 316
2	PLUG	ABS
3	LOCKING SEGMENT SCREW	AISI 304
4	PWT SEAL	EPDM
5	SPRING PAD	AISI 304
6	LOCKING KIT SEGMENT	AISI 304
7	BEARING PLATE	ALUMINUM
8	RETAINING RING	AISI 304
9	HEAD SEAL	EPDM
10	FEED CONCENTRATE PORT SEAL	EPDM
11	SEALING PLATE (PERMEATE PORT)	ABS
12	PWT SEAL	EPDM
13	THRUST CONE	ABS
14	1,125” ADAPTER	ABS
15	1,125” ADAPTER PAD	ABS
16	1,125” ADAPTER O-RING	EPDM

8" END PORT 600-1000-1200 PSI VESSELS SPARE PARTS



ITEM	DESCRIPTION	MATERIAL
1	PLUG	ABS
2	LOCKING SEGMENT SCREW	AISI 304
3	SPRING PAD	AISI 304
4	PWT SEAL	EPDM
5	FEED CONC. PORT 1,5" VICTAULIC	SUPER DUPLEX AISI 2507
6	RETAINING RING	AISI 304
7	BEARING PLATE	ALUMINUM
8	FEED CONCENTRATE PORT SEAL	EPDM
9	SEALING PLATE (PERMEATE PORT)	ABS
10	HEAD SEAL	EPDM
11	PWT SEAL	EPDM
12	THRUST CONE	ABS
13	1,125" ADAPTER	ABS
14	1,125" ADAPTER PAD	ABS
15	1,125" ADAPTER O-RING	EPDM
16	LOCKING KIT SEGMENT	AISI 304
17	RETAINING RING	AISI 304

8" SIDE PORT VESSELS FEED/CONCENTRATE PORT OPTIONS



Each vessel 8" side port can have maximum 3 ports per each end, located in 4 different positions 90° among them. The drawing shows the numbers of different positions.

Each port can have three different dimensions:

- o D = 1 ½" (standard connection)
- o E = 2"
- o F = 2 ½"
- o G = 3"

Note: a 2 ½" port is not allowed at 90° from any other.

To determine the required configuration, identify the ports starting from N°1 with relevant dimension, complete this side and identify the opposite end.

Example: vessel with ports 1 & 5 connection 1½", ports 2 & 6 connection 2".

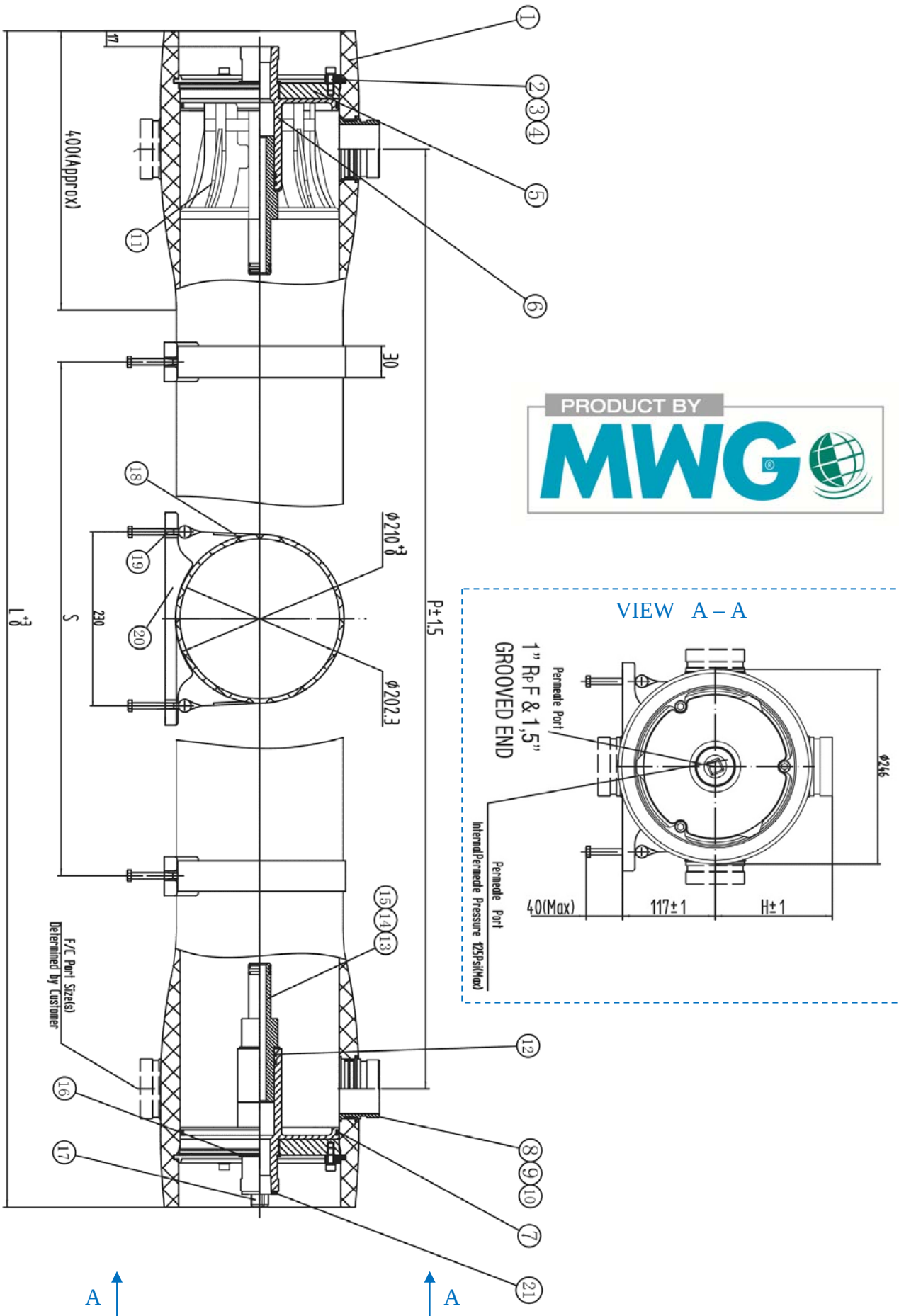
The configuration is: 1D 5D 2E 6E

8" MEMBRANE VESSELS SIDE PORT SERIES 300 S-8

- fiberglass reinforced plastic pressure vessels series 300 S-8, white painted, UVA-ray proof material;
- max operating pressure 300 psi (21 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1 ½" Victaulic (optional 2", 2 ½" or 3");
- permeate connections 1" Rp F and 1 ½" Victaulic;
- straps and saddles included (n.2 pcs from 1 to 3 elements, n.3 pcs from 4 to 7 elements);
- 1,125" membrane adapters included;
- version from 2 to 7 ports (see list of options).

REF. ORIENT. 0°	REF. ORIENT. 180°	MODEL	ELEMENTS	L (mm)	P (mm)	S (mm)
H815B1	H817B1	300S-8-1	1 x 40"	1494	1194	700
H815B2	H817B2	300S-8-2	2 x 40"	2510	2210	1460
H815B3	H817B3	300S-8-3	3 x 40"	3526	3226	2080
H815B4	H817B4	300S-8-4	4 x 40"	4542	4242	1600x2
H815B5	H817B5	300S-8-5	5 x 40"	5558	5258	2000x2
H815B6	H817B6	300S-8-6	6 x 40"	6574	6274	2360x2
H815B7	H817B7	300S-8-7	7 x 40"	7590	7290	2860x2

8" MEMBRANE VESSELS SIDE PORT SERIES 300 S-8

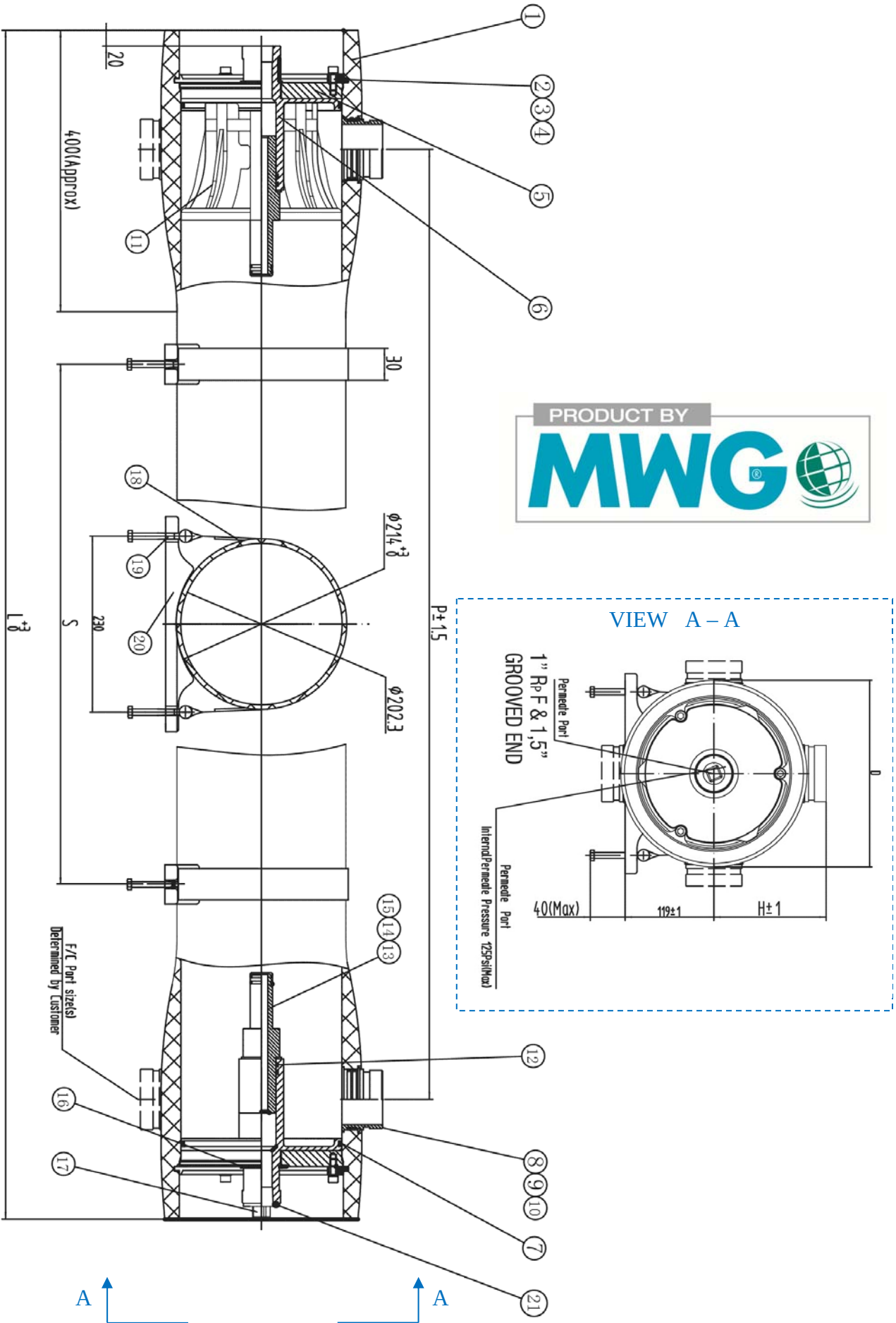


8" MEMBRANE VESSELS SIDE PORT SERIES 450 S-8

- fiberglass reinforced plastic pressure vessels series 450 S-8, white painted, UVA-ray proof material;
- max operating pressure 450 psi (31 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1 ½" Victaulic (optional 2", 2 ½" or 3");
- permeate connections 1" Rp F and 1 ½" Victaulic;
- straps and saddles included (n.2 pcs from 1 to 3 elements, n.3 pcs from 4 to 7 elements);
- 1,125" membrane adapters included;
- version from 2 to 7 ports (see list of options).

REF. ORIENT. 0°	REF. ORIENT. 180°	MODEL	ELEMENTS	L (mm)	P (mm)	S (mm)
H815C1	H817C1	450S-8-1	1 x 40"	1498	1194	700
H815C2	H817C2	450S-8-2	2 x 40"	2514	2210	1460
H815C3	H817C3	450S-8-3	3 x 40"	3530	3226	2080
H815C4	H817C4	450S-8-4	4 x 40"	4546	4242	1600x2
H815C5	H817C5	450S-8-5	5 x 40"	5562	5258	2000x2
H815C6	H817C6	450S-8-6	6 x 40"	6578	6274	2360x2
H815C7	H817C7	450S-8-7	7 x 40"	7594	7290	2860x2

8" MEMBRANE VESSELS SIDE PORT SERIES 450 S-8

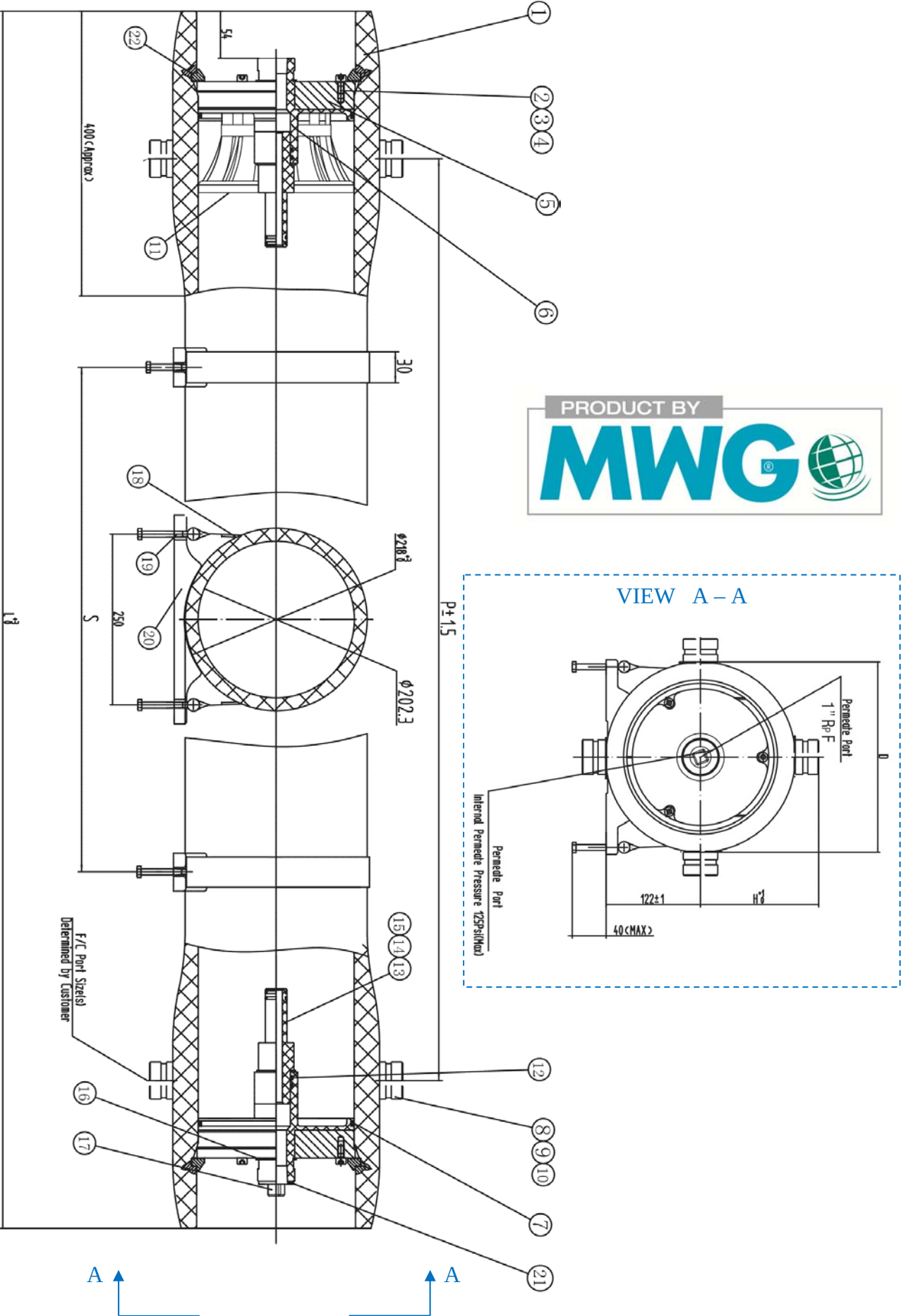


8” MEMBRANE VESSELS SIDE PORT SERIES 600 S-8

- fiberglass reinforced plastic pressure vessels series 600 S-8, white painted, UVA-ray proof material;
- max operating pressure 600 psi (41 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1 ½” Victaulic (optional 2”, 2 ½” or 3”) in super duplex steel AISI 2507;
- permeate connections 1” Rp F;
- straps and saddles included (n.2 pcs from 1 to 3 elements, n.3 pcs from 4 to 7 elements);
- 1,125” membrane adapters included;
- version from 2 to 7 ports (see list of options).

REF. ORIENT. 0°	REF. ORIENT. 180°	MODEL	ELEMENTS	L (mm)	P (mm)	S (mm)
H815D1	H817D1	600S-8-1	1 x 40”	1514	1143	700
H815D2	H817D2	600S-8-2	2 x 40”	2530	2159	1460
H815D3	H817D3	600S-8-3	3 x 40”	3546	3175	2080
H815D4	H817D4	600S-8-4	4 x 40”	4562	4191	1600x2
H815D5	H817D5	600S-8-5	5 x 40”	5578	5207	2000x2
H815D6	H817D6	600S-8-6	6 x 40”	6594	6223	2360x2
H815D7	H817D7	600S-8-7	7 x 40”	7610	7239	2860x2

8" MEMBRANE VESSELS SIDE PORT SERIES 600 S-8

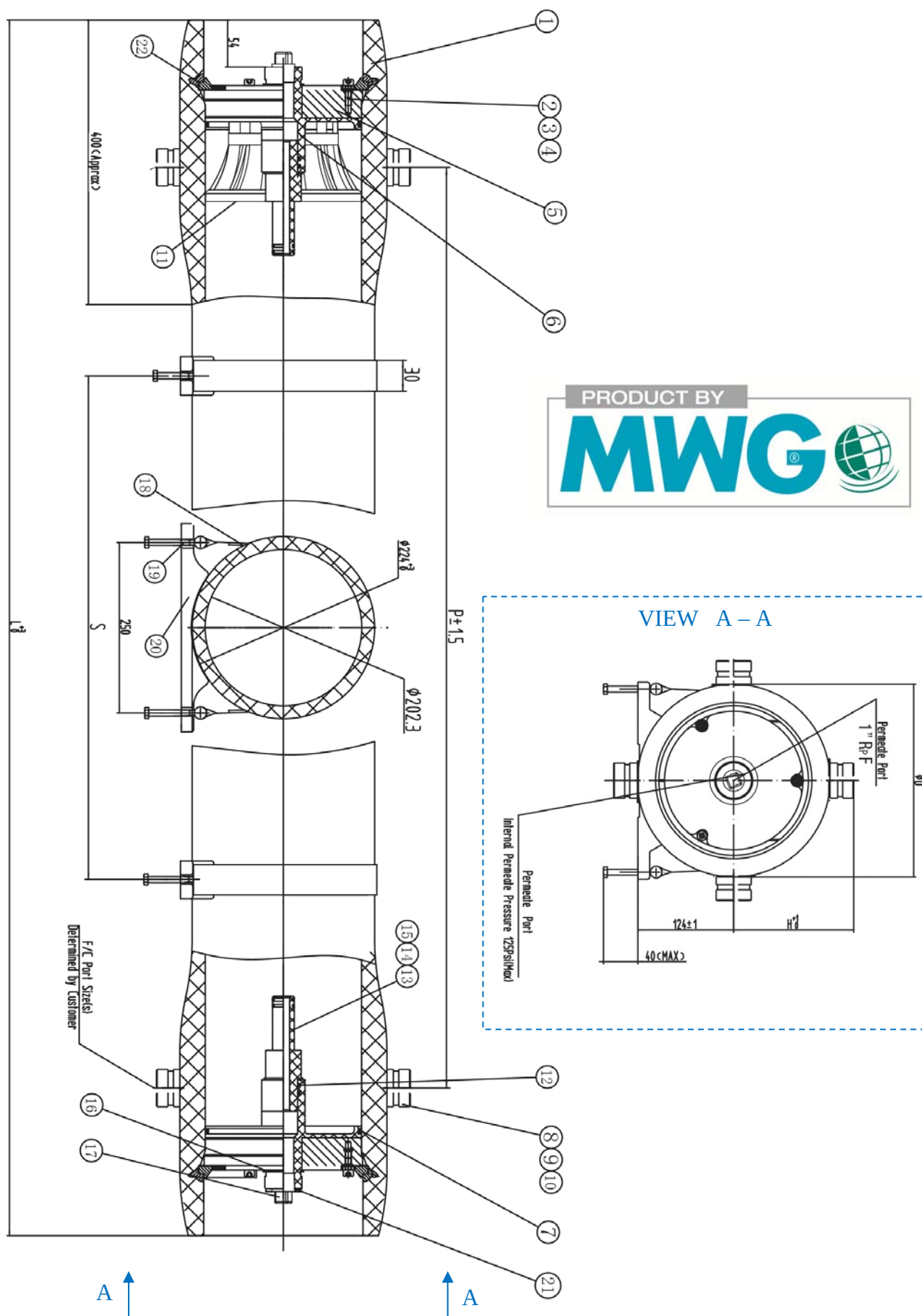


8” MEMBRANE VESSELS SIDE PORT SERIES 1000 S-8

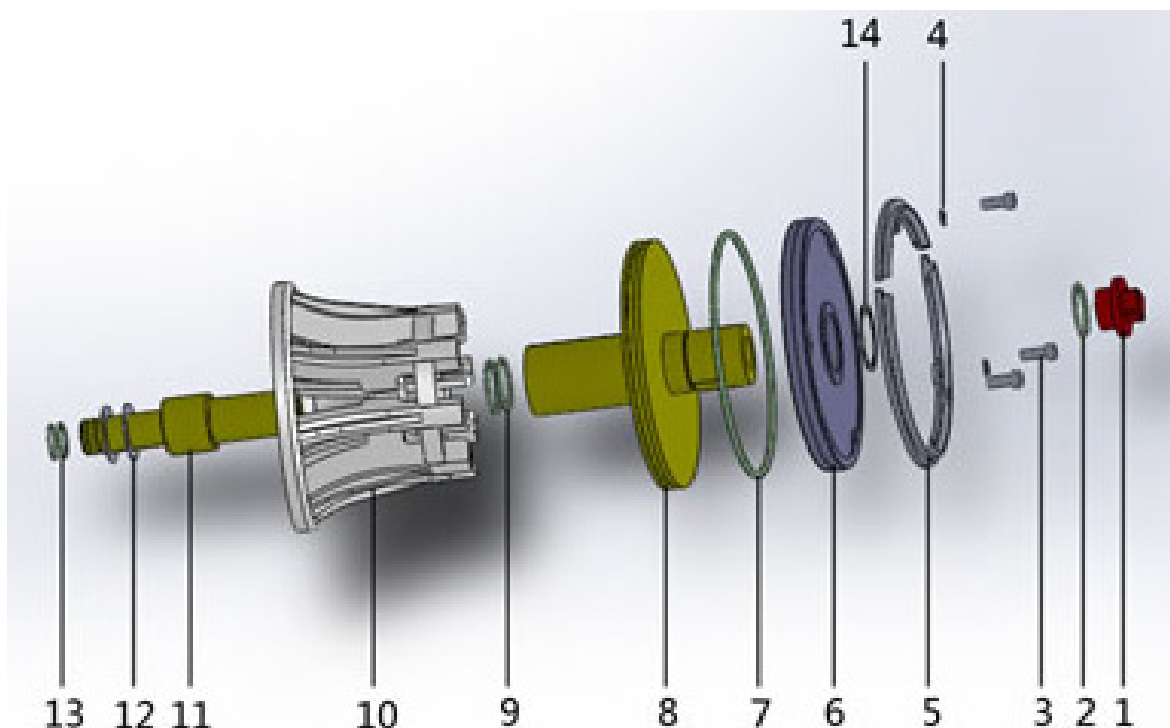
- fiberglass reinforced plastic pressure vessels series 1000 S-8, white painted, UVA-ray proof material;
- max operating pressure 1000 psi (69 bar);
- built in accordance with ASME code section X;
- each vessel is factory tested at 1,5 times max operating pressure;
- feed/concentrate connections 1 ½” Victaulic (optional 2”, 2 ½” or 3”) in super duplex steel AISI 2507;
- permeate connections 1” Rp F;
- straps and saddles included (n.2 pcs from 1 to 3 elements, n.3 pcs from 4 to 7 elements);
- 1,125” membrane adapters included;
- version from 2 to 7 ports (see list of options).

REF. ORIENT. 0°	REF. ORIENT. 180°	MODEL	ELEMENTS	L (mm)	P (mm)	S (mm)
H815G1	H817G1	1000S-8-1	1 x 40”	1514	1143	700
H815G2	H817G2	1000S-8-2	2 x 40”	2530	2159	1460
H815G3	H817G3	1000S-8-3	3 x 40”	3546	3175	2080
H815G4	H817G4	1000S-8-4	4 x 40”	4562	4191	1600x2
H815G5	H817G5	1000S-8-5	5 x 40”	5578	5207	2000x2
H815G6	H817G6	1000S-8-6	6 x 40”	6594	6223	2360x2
H815G7	H817G7	1000S-8-7	7 x 40”	7610	7239	2860x2

8" MEMBRANE VESSELS SIDE PORT SERIES 1000 S-8

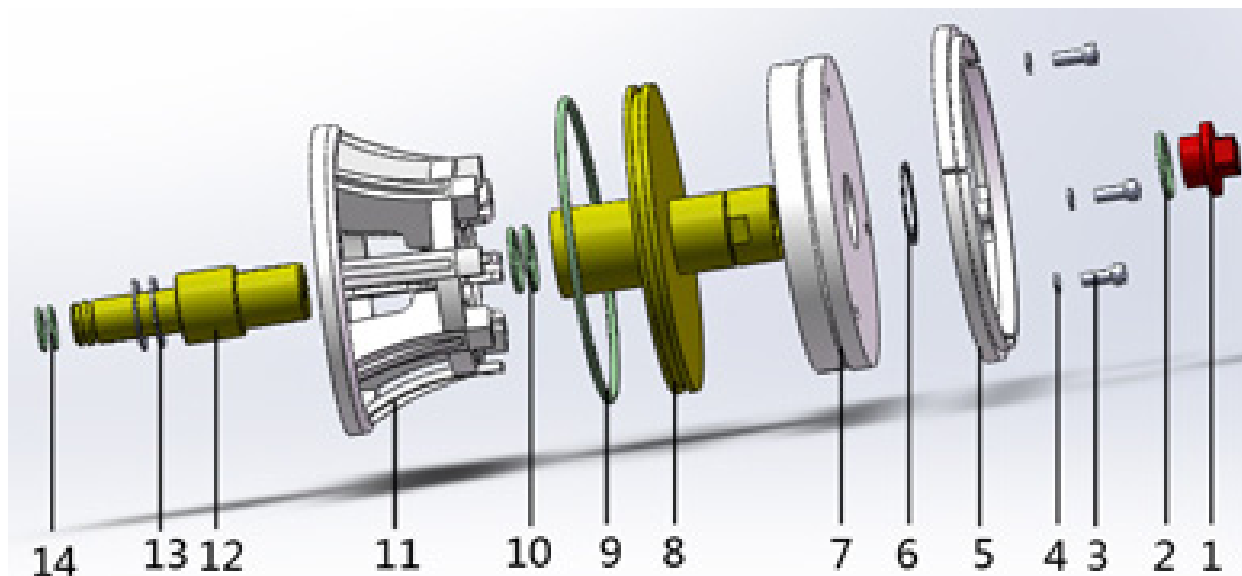


8” SIDE PORT 300-450 PSI VESSELS SPARE PARTS



ITEM	DESCRIPTION	MATERIAL
1	PLUG	ABS
2	PWT SEAL	EPDM
3	LOCKING SEGMENT SCREW	AISI 304
4	SPRING PAD	AISI 304
5	LOCKING KIT SEGMENT	AISI 304
6	BEARING PLATE	ALUMINUM
7	HEAD SEAL	EPDM
8	SEALING PLATE (PERMEATE PORT)	ABS
9	PWT SEAL	EPDM
10	THRUST CONE	ABS
11	1,125” ADAPTER	ABS
12	1,125” ADAPTER PAD	ABS
13	1,125” ADAPTER O-RING	EPDM
14	RETAINING RING	AISI 304

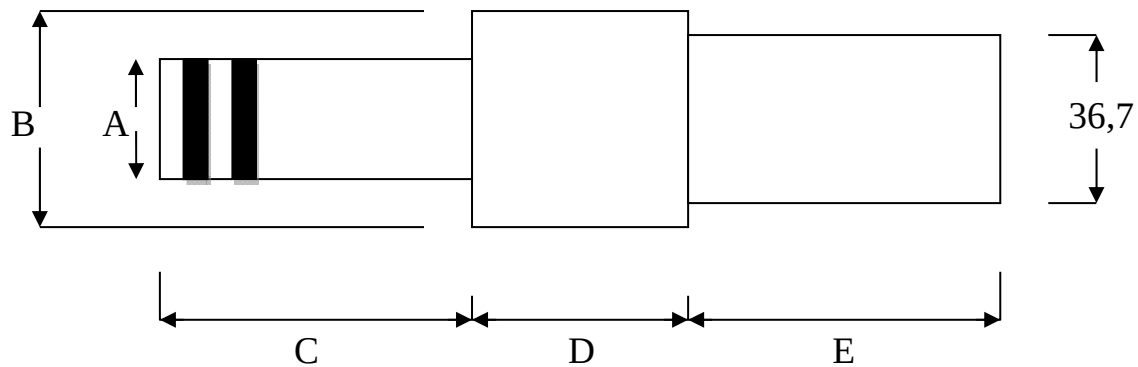
8" SIDE PORT 600-1000-1200 PSI VESSELS SPARE PARTS



ITEM	DESCRIPTION	MATERIAL
1	PLUG	ABS
2	PWT SEAL	EPDM
3	LOCKING SEGMENT SCREW	AISI 304
4	SPRING PAD	AISI 304
5	LOCKING KIT SEGMENT	AISI 304
6	RETAINING RING	AISI 304
7	BEARING PLATE	ALUMINUM
8	SEALING PLATE (PERMEATE PORT)	ABS
9	HEAD SEAL	EPDM
10	PWT SEAL	EPDM
11	THRUST CONE	ABS
12	1,125" ADAPTER	ABS
13	1,125" ADAPTER PAD	ABS
14	1,125" ADAPTER O-RING	EPDM

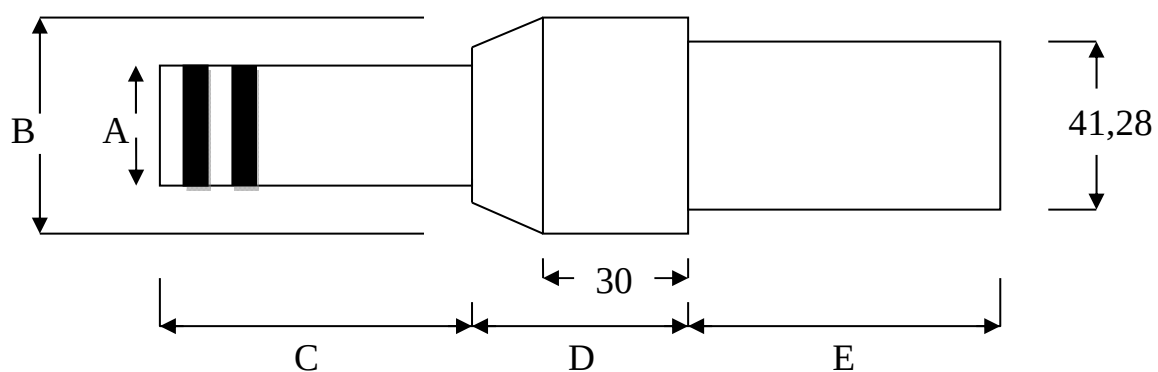
8" MEMBRANE ADAPTERS

- suitable for 8" membrane;
- complete with o-rings.



REF.	MATE - RIAL	A *	B *	C *	D *	E *	FOR MEMBRANE	FOR VESSEL	O-RING REF.
EA340	ABS	28,5 (1,125")	48 (1,89")	65 (2,56")	45 (1,77")	67 (2,64")	BW30-400 or similar	Wave Cyber	EA354
EA341	ABS	38 (1,5")	58 (2,28")	50 (1,97")	45 (1,77")	67 (2,64")	BW30LE440 or similar	Wave Cyber	EA355
EA025	PVC	28,5 (1,125")	48 (1,89")	65 (2,56")	27 (1,05")	73 (2,87")	BW30-400 or similar	Codeline Style	EA354

* Dimensions are in: mm (inch)

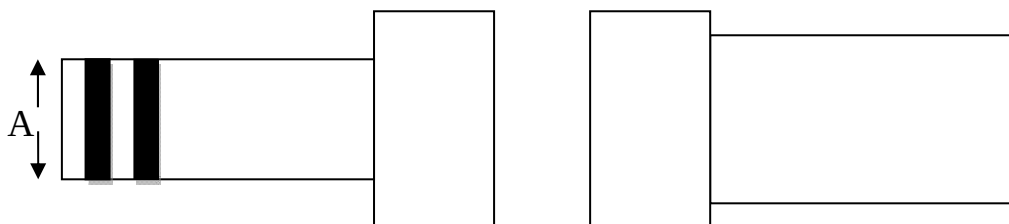


REF.	MATE - RIAL	A *	B *	C *	D *	E *	FOR MEMBRANE	FOR VESSEL	O-RING REF.
EA023	PVC	28,5 (1,125")	50 (1,97")	73 (2,87")	50 (1,97")	64 (2,52")	BW30-400 or similar	Bekaert Style	EA354

* Dimensions are in: mm (inch)

BLANK ADAPTER KIT

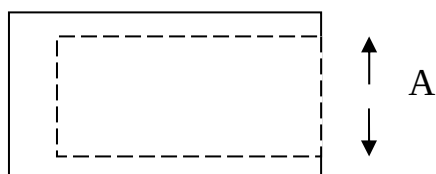
- suitable for 8" membranes;
- material PVC complete with o-rings.



REF.	A (mm)	A (inch)	FOR MEMBRANE	FOR VESSEL	O-RING REF.
EA026	28,5	1,125"	BW30-400 or similar	Wave Cyber	EA264

BLANK ADAPTER

- material PVC.



REF.	A (mm)	A (inch)	FOR MEMBRANE
EA028	28,5	1,125"	BW30-400 or similar

CLOSURE DISC FOR PERMEATE CONNECTION FOR 8" VESSELS



- material PVC.

REF.	EA350
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CAST IRON VICTAULIC STYLE COUPLINGS – 1000 PSI

- complete with gaskets;
- max operating pressure 1000 psi (69 bar).



REF.	NOMINAL DIAMETER (inch)	NOMINAL DIAMETER (mm)
EA030	1"	33,4
EA032	1 ¼"	42,2
EA031	1 ½"	48,3
EA033	2"	60,3
EA034	2 ½"	73,0
EA035	3"	88,9

AISI 304 VICTAULIC STYLE COUPLINGS – 1200 PSI

- complete with gaskets;
- max operating pressure 1200 psi (83 bar).



REF.	NOMINAL DIAMETER (inch)	NOMINAL DIAMETER (mm)
EA190	¾"	26,7
EA191	1"	33,4
EA192	1 ¼"	42,2
EA193	1 ½"	48,3
EA194	2"	60,3
EA195	2 ½"	73,0
EA196	3"	88,9

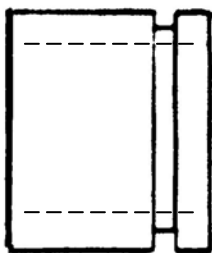
AISI 304 VICTAULIC STYLE COUPLINGS – 350 PSI

- complete with gaskets;
- max operating pressure 350 psi (23 bar).



REF.	NOMINAL DIAMETER (inch)	NOMINAL DIAMETER (mm)
EA070	¾"	26,7
EA071	1"	33,4
EA072	1 ¼"	42,2
EA073	1 ½"	48,3
EA074	2"	60,3
EA075A	2 ½"	73,0
EA075	3" O. D.	76,1
EA076	3"	88,9

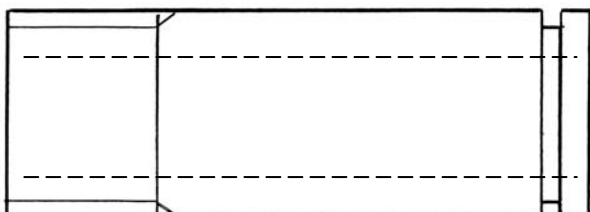
STUB PIPES TO WELD



- stub pipe with end part to weld;
- material AISI 316.

REF.	ANSI B36.10 SCHEDULE	DIAMETER (inch)	DIAMETER (mm)	LENGTH (mm)
EA080	40	¾"	26,7	40
EA081	40	1"	33,4	40
EA082	40	1 ¼"	42,2	50
EA083	40	1 ½"	48,3	60
EA084	40	2"	60,3	80
EA085A	40	2 ½"	73,0	90
EA086	40	3"	88,9	100

THREADED STUB PIPES



- stub pipe with end part threaded;
- material AISI 316.

REF.	DIAMETER (inch)	LENGTH (mm)
EA050	¾" BSP male	65
EA051	1" BSP male	65
EA052	1 ¼" BSP male	80
EA053	1 ½" BSP male	100
EA054	2" BSP male	100
EA055	2 ½" BSP male (external diameter 76,1 mm)	100

ELECTRIC CONTROL PANEL FOR R.O. SYSTEMS



- operating control panel for R.O. systems complete with conductivity meter and $\frac{3}{8}$ " cell;
- the unit, more than operate the high pressure pump and the two feed and fluxing electric valves, can also control the different instruments installed on the RO system;
- conform to CE Directives;
- LCD display 2 x 16 digit;
- power supply 220V – 50Hz;
- protection class IP54;
- dimension 190 x 160 depth 135 mm.

REF.	DG012
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Operated functions:

- high pressure pump (max power 736 W);
- feed electric valve;
- fluxing electric valve.

Conductivity meter:

- standard module, with a double reading scale of conductivity:
 - 0 ÷ 100,0 μ S/cm, with conductivity cell K5 (ref. DG013) included;
 - 0 ÷ 500,0 μ S/cm with optional conductivity cell K1 to buy separately (ref. DG014);
- on demand it is available a conductivimetre module, with a double reading scale of conductivity in an optional power board to buy separately (ref. DG011), if you have high salinity:
 - 0 ÷ 500,0 μ S/cm, with conductivity cell K5 (ref. DG013) included;
 - 0 ÷ 2500,0 μ S/cm with optional conductivity cell K1 to buy separately (ref. DG014);
- set point and alarm delay adjustable;
- possibility of alarm, for exceeding set, by electrical contact or flashing display.

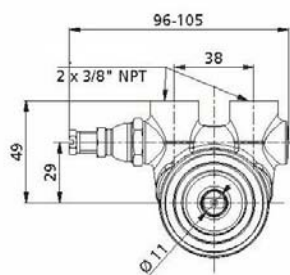
External input receivable:

- low permeate storage tank level;
- high permeate storage tank level;
- low permeate storage tank safety level;
- low pressure manostat;
- high pressure manostat;
- pretreatment in service.

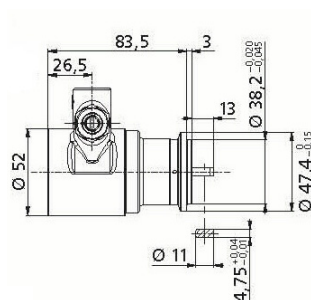
Alarms:

- high conductivity;
- low pressure;
- high pressure.

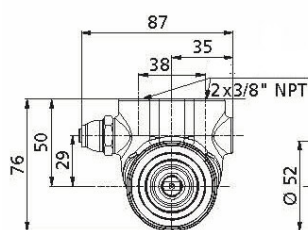
IN-OUT 3/8" ROTARY PUMPS FOR R.O.



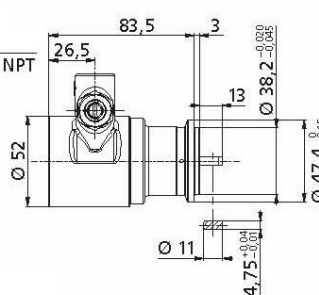
BRASS PUMPS



Dimensions are in mm



AISI 303 PUMPS



Dimensions are in mm

- rotary vane pumps for R.O. systems, direct connection V-band clamp to motor;
- housing material brass or AISI 303;
- IN-OUT connections 3/8" NPT – F;
- security by-pass on show models.

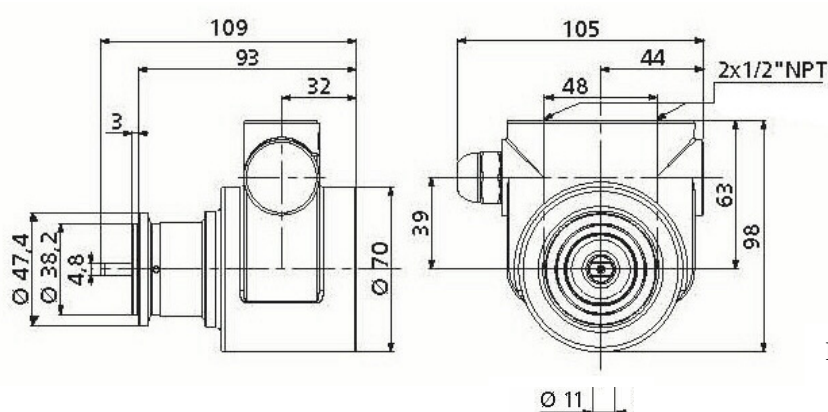
REF.	MODEL	BY-PASS	MATERIAL	FLOW * @ 7 bar (l/h)	FLOW * @ 14 bar (l/h)
DE804	RO 50 OT	w/ By-Pass	Brass	65	55
DE805	RO 150 OT	w/ By-Pass	Brass	165	150
DE806	RO 200 OT	w/ By-Pass	Brass	225	206
DE807	RO 300 OT	w/ By-Pass	Brass	334	315
DE808	RO 400 OT	w/ By-Pass	Brass	434	415
DE827	RO 300 AISI	w/ By-Pass	AISI 303	334	315
DE828	RO 400 AISI	w/ By-Pass	AISI 303	434	415
DE811	RO 200 OT	w/o By-Pass	Brass	225	206
DE812	RO 300 OT	w/o By-Pass	Brass	334	315
DE813	RO 400 OT	w/o By-Pass	Brass	434	415
DE832	RO 300 AISI	w/o By-Pass	AISI 303	334	315
DE833	RO 400 AISI	w/o By-Pass	AISI 303	434	415

(*) = average flow rate with motor 1.450 rpm.

IN-OUT ½” ROTARY PUMPS FOR R.O.



- rotary vane pumps for R.O. systems, direct connection V-band clamp to motor;
- housing material brass or AISI 303;
- IN-OUT connections ½” NPT – F.

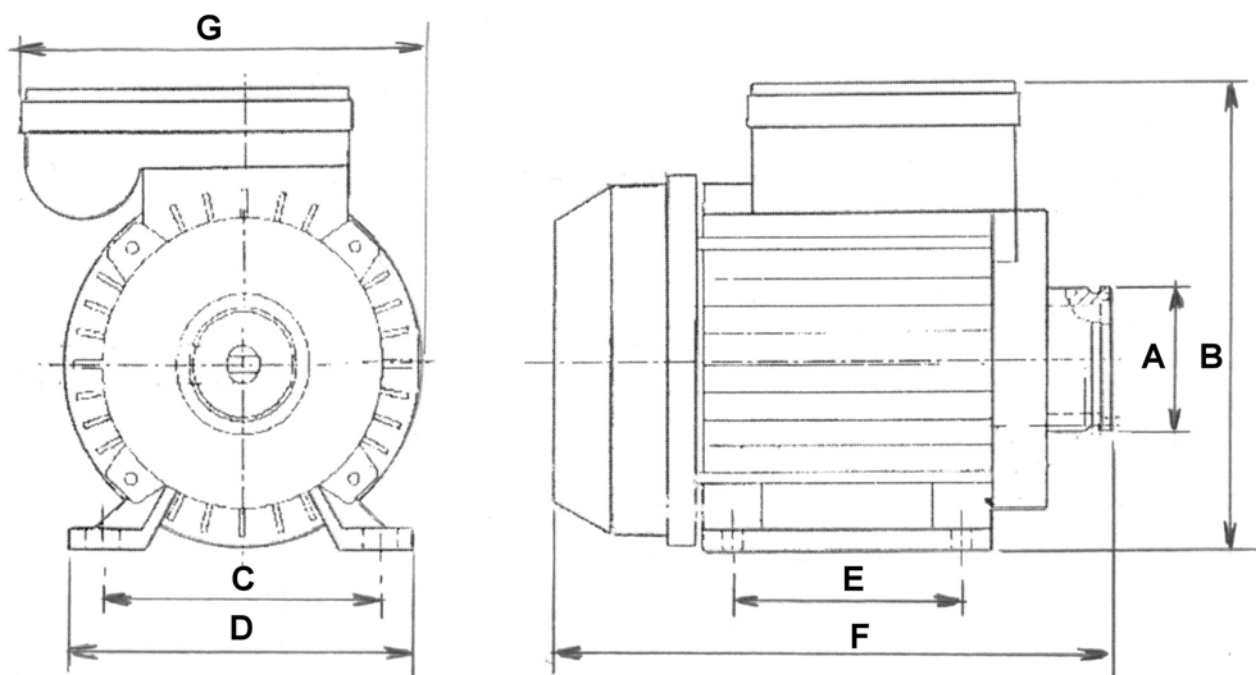


Dimensions are in mm

REF.	MODEL	BY-PASS	MATERIAL	FLOW * @ 7 bar (l/h)	FLOW * @ 14 bar (l/h)
DE809	RO 600 OT	w/ By-Pass	Brass	620	597
DE810	RO 800 OT	w/ By-Pass	Brass	820	797
DE814	RO 1000 OT	w/ By-Pass	Brass	1020	997
DE817	RO 600 OT	w/o By-Pass	Brass	620	597
DE818	RO 800 OT	w/o By-Pass	Brass	820	797
DE819	RO 1000 OT	w/o By-Pass	Brass	1020	997
DE837	RO 600 AISI	w/o By-Pass	AISI 303	620	597
DE838	RO 800 AISI	w/o By-Pass	AISI 303	820	797
DE839	RO 1000 AISI	w/o By-Pass	AISI 303	1020	997

(*) = average flow rate with motor 1.450 rpm.

MOTORS FOR ROTARY PUMPS FOR R.O. 200-300

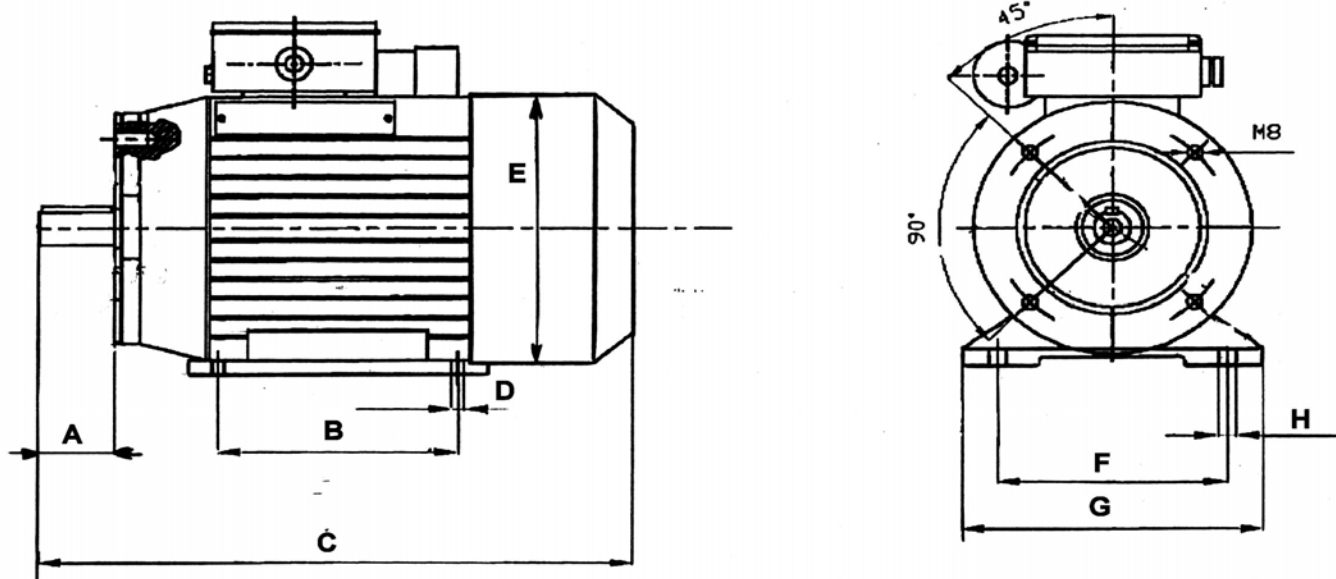


REF.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
DE850	47	156	97	120	80	200	138

- **single phase motors direct connections for rotary vane pumps;**
- **power supply 220V – 50 Hz;**
- **protection class IP44;**
- **complete with thermic protection.**

REF.	POWER (W)	ELECTR. INPUT (A)	RPM	FOR PUMPS
DE850	300	1,6	1.300	RO 200 RO 300

MOTORS FOR ROTARY PUMPS FOR R.O. 300-400-600-800-1000



MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
0,5 CV	30	90	222	7	141	112	142	10
0,75 CV	40	100	255	10	157	125	160	13
1 CV	40	100	255	10	157	125	160	13

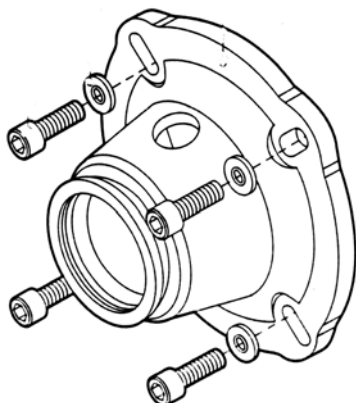
- range of single and three phase motors for application with rotary vane pumps, using coupling and adapter;
- 4 poles motor, power supply 220V – 50 Hz single phase, 380V – 50 Hz three phase;
- for couplings and adapters see 06-04-08-EN data sheet.

REF.	MODEL	POWER (CV)	POWER (W)	ELECTR. INPUT (A)	RPM	SINGLE PHASE / THREE PHASE	FOR PUMP	ADAPTER REF.	COUPLING REF.
DE860	0,5 CV-M71-MONO	0,5	370	3,1	1360	SINGLE PHASE	RO 300 RO 400	DE871	DE872
DE861	0,75 CV-M80-MONO	0,75	550	4,4	1360	SINGLE PHASE	RO 600 RO 800	DE873	DE874
DE862	1 CV-M80-MONO	1	750	5,4	1370	SINGLE PHASE	RO 1000	DE873	DE874
DE863	0,5 CV-M71-TRI	0,5	370	1,1	1360	THREE PHASE	RO 300 RO 400	DE871	DE872
DE864	0,75 CV-M80-TRI	0,75	550	1,5	1360	THREE PHASE	RO 600 RO 800	DE873	DE874
DE865	1 CV-M80-TRI	1	750	2,0	1360	THREE PHASE	RO 1000	DE873	DE874

NOTE: It's absolutely necessary to provide an adequate electric protection to avoid further overloaded.

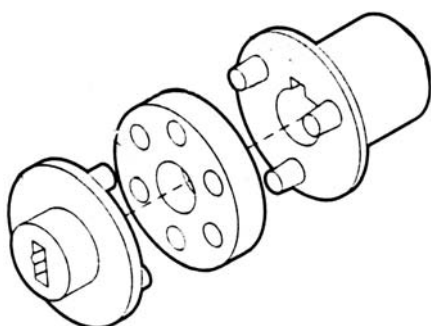
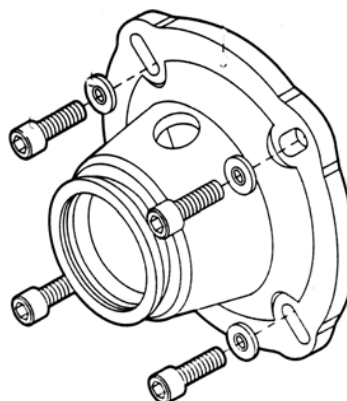
ADAPTER COUPLINGS AND ADAPTERS FOR ROTARY PUMPS MODELS R.O. 300-400-600-800-1000

- for relative motors coupling see 06-04-07-EN data sheet.



REF.	DESCRIPTION
DE871	Adapter M71

REF.	DESCRIPTION
DE873	Adapter M80



REF.	DESCRIPTION
DE872	Coupling M71

REF.	DESCRIPTION
DE874	Coupling M80

