

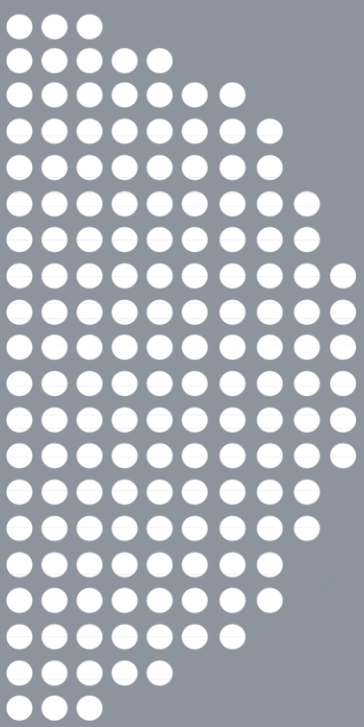
Trykbeholdere

Pressurized buffer tanks

(P.E.D. 97/23/CE)



**Beholderfabrik
& Miljøteknik A/S**
- Komplet leverandør til vvs, industri, service & landbrug



contents

PRESSURIZED BUFFER TANKS

Guide to P.E.D.	04
P.E.D. tested autoclaves	
AC series	06
6 bar	07
8 bar	08
12 bar	09
P.E.D. tested pressurized air tanks	
AK series	10
8 bar	10
11 bar	11
12 bar	12
P.E.D. tested high pressure tanks	
AP series	13
16 bar	13
18 bar	14
20 bar	15
25 bar	16
30 bar	17
35 bar	18
64 bar	19
P.E.D. tested expansion vessels	
VE series	20
6 bar	20
8 bar	21
12 bar	22
P.E.D. tested steam accumulator tanks	
AV series	23
12 bar	23
P.E.D. tested heat-transmitting oil expansion vessels	
VO series	24
6 bar	24
Possible protective treatments	25

APPENDIX

Tables for classification of pressure vessels	26
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Guide to P.E.D.

The Pressure Equipment Directive 97/23/EC (PED) of the EU sets out the standards for the design and fabrication of pressure equipment having a maximum pressure more than 0.5 bar gauge. It has been mandatory throughout the EU since 30 May 2002.

According to the PED, fluids are divided in 2 categories:

GROUP 1: includes dangerous fluids

- Explosives
- Extremely flammable
- Easily flammable
- Flammable (where the maximum allowable temperature is above flashpoint)
- Highly toxic
- Toxic
- Reactive

GROUP 2: includes all fluids not listed in group1 and therefore not dangerous.

Depending on the group and the maximum allowable temperature of the fluid, the pressure equipments are classified into tables. Tables 1,2,3,4, relate to the pressure vessels. Table 5 relates to the pressure equipments for generation of steam or superheated water at temperatures above 110°C.

After choosing the right table, depending on the value of the data (PS and V for pressure vessels) or the value of their product, determine the category (Article 3-paragraph 3, I, II, III, IV) of the equipment. The five tables must be consulted in line.

The pressure equipment not subject to Article 3 -paragraph 3, and belonging to category \geq I must get the CE mark according to PED.

NOTE 1: WATER, ETHYLENE GLYCOL AND PROPYLENE GLYCOL BELONG TO GROUP 2.

SUMMARY CHART FOR THE CE LABEL PRODUCTS

CATEGORY	PED	CE LABEL	AUTHORITY INTERVENTION	ADDITIONAL COSTS
PS ≤ 0,5	Not applicable	No	No	No
paragrafo 3	Applicable	No	No	No
I	Applicable	Yes	No	Yes
II	Applicable	Yes	Project delivery without approval	Inspection survey
III	Applicable	Yes	Project approval	Inspection survey + project approval
IV	Applicable	Yes	Inspection survey + project approval	Inspection survey + project approval

PS [bar]: is the maximum allowable pressure, the maximum pressure for which the equipment is designed, specified by the manufacturer.

V[I]: is the internal volume of a chamber, including the volume of nozzles to the first connection and excluding the volume of permanent internal parts.

ARTICLE 3 PARAGRAPH 3: the pressure equipment belongs to category <I and therefore should not bear the CE mark according to PED.

Note: please consult the technical department

- If a vessel is composed of several compartments, or contains more fluids.
- If the fluid is different from those listed in the NOTE 1.
- If an equipment belongs to a category ≥ I.
- If a vessel contains a pressure equipment belonging to a category ≥ I.
- In case of doubt or uncertainty.

See detailed tables at pag.26

Hydrofor P.E.D

P.E.D. tested autoclaves

Serie AC / AC Series

Application

- Use to maintain a constant pressure
- Used as anti water hammer
- Operating temperature -10°C to + 50°C

Possible protective treatments

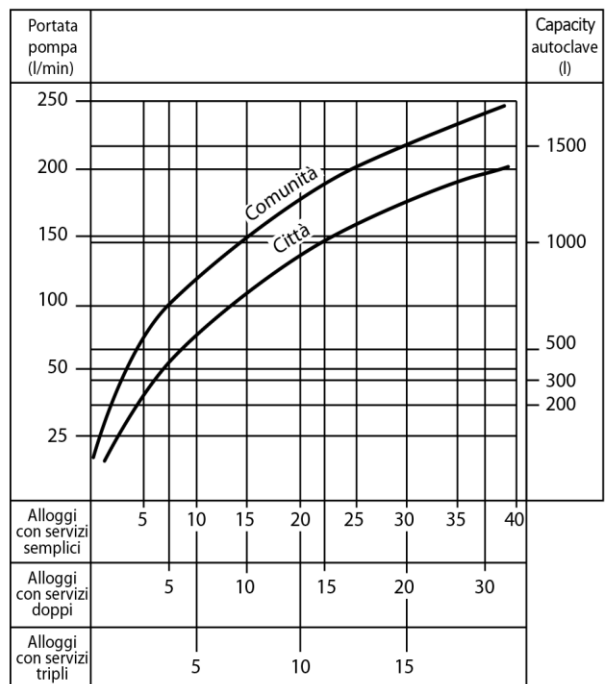
- Galvanizing (UNI EN1179)
- Anti rust external painting
- Teflon internal coating

Possible external coating

- Closedcell elastomeric foam with coloured PVC
- Closedcell elastomeric foam coat with aluminium sheet

KN autoclaves are designed for lifting and distributing water under pressure, are intended to be a lung of pressurized water which, if properly sized, serves to limit the starts of the pump. Are used to ensure perfect water distribution in the upper floors of buildings making up the deficiencies of water aqueducts.

The tanks are made of carbon steel sheet, welded with automatic processes, and can later be protected against corrosion with a galvanized coating, suitable for contact with water intended for human consumption according to DM 21.03.73 or externally painted. All models are equipped as standard with CE certification and instructions; models up to 1000 liters are supplied complete with pressure gauge and safety valve (6,8 bar versions). All standard models are available in the vertical and horizontal versions, 6, 8, 12 bar.

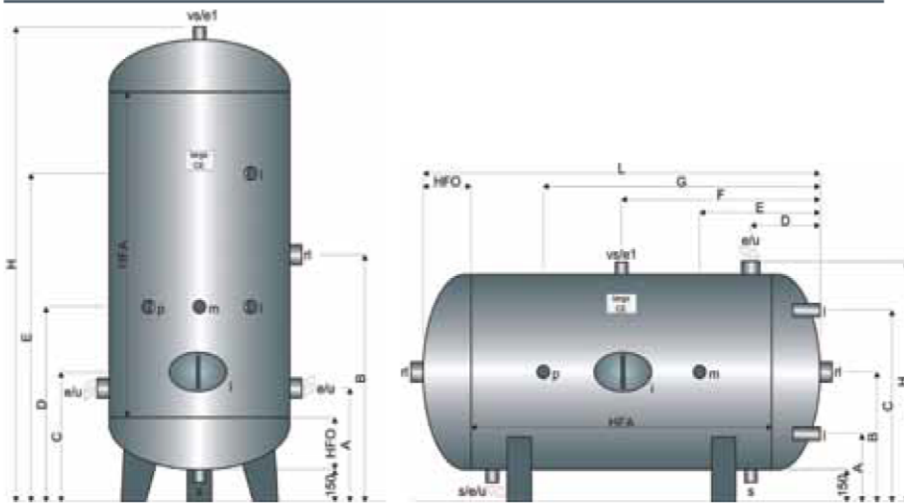


Use the following diagram for the determination of the capacity of the autoclave and the pump flow rate in relation to the number of apartments.

Hydrofor 6 bar P.E.D

P.E.D. tested autoclaves 6 bar

Serie AC / AC Series



Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
rl	Level regulator

Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e/u (°)	l/m/p (°)	rl/vs/s/e1 (°)	i (mm)
300	500	165	1250	415	940	465	715	1415	1760	75	1	1/2	1 1/4	*
500	650	200	1250	450	975	500	750	1450	1830	101	1 1/2	1/2	1 1/4	*
800	800	240	1250	490	1015	540	790	1490	1910	136	2	1/2	1 1/4	*
1000	800	240	1650	490	1215	540	990	1890	2310	162	2	1/2	1 1/4	*
1500	950	280	1750	530	1305	580	1030	2030	2490	232	2	1/2	1 1/4	*
2000	1100	310	1750	560	1335	610	1060	2060	2550	274	2	1/2	1 1/4	*/**
3000	1250	350	2000	620	1500	650	1200	2200	2880	466	2 1/2	1/2	1 1/4	*/**
4000	1400	390	2000	740	1540	690	1240	2240	2960	541	3	1/2	1 1/4	*/**/**
5000	1450	410	2500	760	1810	710	1360	2360	3500	646	3	1/2	1 1/4	*/**/**
6000	1450	410	3000	760	2060	710	1360	2860	4000	767	3	1/2	1 1/4	*/**/**
8000	1650	460	3000	830	2110	860	1410	2910	4100	1090	4	1/2	1 1/4	*/**/**
10000	1650	460	4000	830	2610	860	1610	3110	5100	1318	4	1/2	1 1/4	*/**/**
15000	2000	550	4000	920	2700	1000	1700	3200	5280	2016	4	1/2	1 1/4	300x400
20000	2000	550	5500	920	3450	1000	1700	3700	6780	2513	4	1/2	1 1/4	300x400

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s (°)	l/m/p (°)	rl/vs/e1 (°)	i (mm)
300	500	165	1250	220	400	580	265	265	790	1315	680	1580	75	1	1/2	1 1/4	*
500	650	200	1250	250	475	700	300	300	825	1350	830	1650	101	1 1/2	1/2	1 1/4	*
800	800	240	1250	325	550	775	340	340	865	1390	980	1730	136	2	1/2	1 1/4	*
1000	800	240	1650	250	550	850	340	340	1065	1790	980	2130	162	2	1/2	1 1/4	*
1500	950	280	1750	295	625	955	380	380	1155	1930	1130	2310	232	2	1/2	1 1/4	*
2000	1100	310	1750	315	700	1085	410	410	1185	1960	1280	2370	274	2	1/2	1 1/4	*/**
3000	1250	350	2000	338	775	1213	470	470	1350	2230	1430	2700	466	2 1/2	1/2	1 1/4	*/**
4000	1400	390	2000	360	850	1340	590	590	1390	2190	1580	2780	541	3	1/2	1 1/4	*/**/**
5000	1450	410	2500	375	875	1375	610	610	1660	2710	1630	3320	646	3	1/2	1 1/4	*/**/**
6000	1450	410	3000	375	875	1375	610	610	1910	3210	1630	3820	767	3	1/2	1 1/4	*/**/**
8000	1650	460	3000	425	975	1525	680	680	1960	3240	1830	3920	1090	4	1/2	1 1/4	*/**/**
10000	1650	460	4000	425	975	1525	680	680	2460	4240	1830	4920	1318	4	1/2	1 1/4	*/**/**
15000	2000	550	4000	450	1150	1850	770	770	2550	4330	2180	5100	2016	4	1/2	1 1/4	300x400
20000	2000	550	5500	450	1150	1850	770	770	3300	5830	2180	6600	2513	4	1/2	1 1/4	300x400

Manhole on demand: * 100x150; ** 220x320; *** 300x400

Bispoke execution on demand

Possible protective treatments - see at page 25

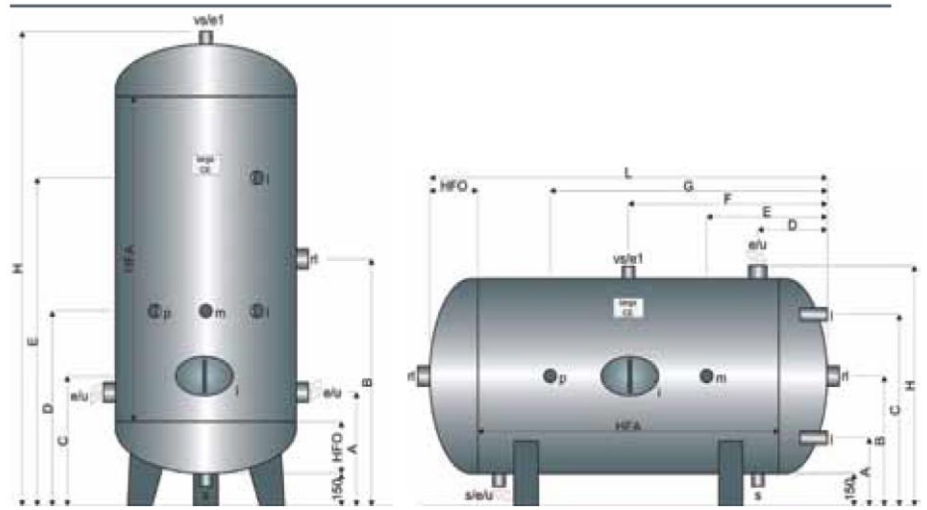
Hydrofor 8 bar P.E.D

P.E.D. tested autoclaves 8 bar

Serie AC / AC Series

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
rl	Level regulator



Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e/u (")	l/m/p (")	rl/vs/s/e1 (")	i (mm)
300	500	165	1250	415	940	465	715	1415	1760	75	1	1/2	1 1/4	*
500	650	200	1250	450	975	500	750	1450	1830	101	1 1/2	1/2	1 1/4	*
800	800	240	1250	490	1015	540	790	1490	1910	150	2	1/2	1 1/4	*
1000	800	240	1650	490	1215	540	990	1890	2310	176	2	1/2	1 1/4	*
1500	950	280	1750	550	1305	580	1030	2030	2490	232	2	1/2	1 1/4	*
2000	1100	310	1750	580	1335	610	1060	2060	2550	353	2	1/2	1 1/4	*/**
3000	1250	350	2000	640	1500	650	1200	2200	2880	466	2 1/2	1/2	1 1/4	*/**
4000	1400	390	2000	680	1540	690	1240	2240	2960	659	3	1/2	1 1/4	*/**/**
5000	1450	410	2500	700	1810	710	1360	2360	3500	790	3	1/2	1 1/4	*/**/**
6000	1450	410	3000	700	2060	810	1360	2860	4000	931	3	1/2	1 1/4	*/**/**
8000	1650	460	3000	840	2110	860	1410	2910	4100	1283	4	1/2	1 1/4	*/**/**
10000	1650	460	4000	840	2610	860	1610	3110	5100	1557	4	1/2	1 1/4	*/**/**
15000	2000	550	4000	930	2700	1000	1700	3200	5280	2320	4	1/2	1 1/4	300x400
20000	2000	550	5500	930	3450	1000	1700	3700	6780	2901	4	1/2	1 1/4	300x400

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s (")	l/m/p (")	rl/vs/e1 (")	i (mm)
300	500	165	1250	220	400	580	265	440	790	1140	680	1580	75	1	1/2	1 1/4	*
500	650	200	1250	250	475	700	300	475	825	1175	830	1650	101	1 1/2	1/2	1 1/4	*
800	800	240	1250	350	550	750	340	340	865	1390	980	1730	150	2	1/2	1 1/4	*
1000	800	240	1650	250	550	850	340	765	1065	1365	980	2130	176	2	1/2	1 1/4	*
1500	950	280	1750	295	625	955	400	805	1155	1505	1130	2310	232	2	1/2	1 1/4	*
2000	1100	310	1750	315	700	1085	430	835	1185	1535	1280	2370	353	2	1/2	1 1/4	*/**
3000	1250	350	2000	338	775	1213	490	950	1350	1750	1430	2700	466	2 1/2	1/2	1 1/4	*/**
4000	1400	390	2000	360	850	1340	530	990	1390	1790	1580	2780	659	3	1/2	1 1/4	*/**/**
5000	1450	410	2500	375	875	1375	550	1160	1660	2160	1630	3320	790	3	1/2	1 1/4	*/**/**
6000	1450	410	3000	375	875	1375	550	1160	1910	2660	1630	3820	931	3	1/2	1 1/4	*/**/**
8000	1650	460	3000	425	975	1525	690	1210	1960	2710	1830	3920	1283	4	1/2	1 1/4	*/**/**
10000	1650	460	4000	425	975	1525	690	1710	2460	3210	1830	4920	1557	4	1/2	1 1/4	*/**/**
15000	2000	550	4000	450	1150	1850	780	1800	2550	3300	2180	5100	2320	4	1/2	1 1/4	300x400
20000	2000	550	5500	450	1150	1850	780	1800	3300	4800	2180	6600	2901	4	1/2	1 1/4	300x400

Manhole on demand: * 100x150; ** 220x320; *** 300x400

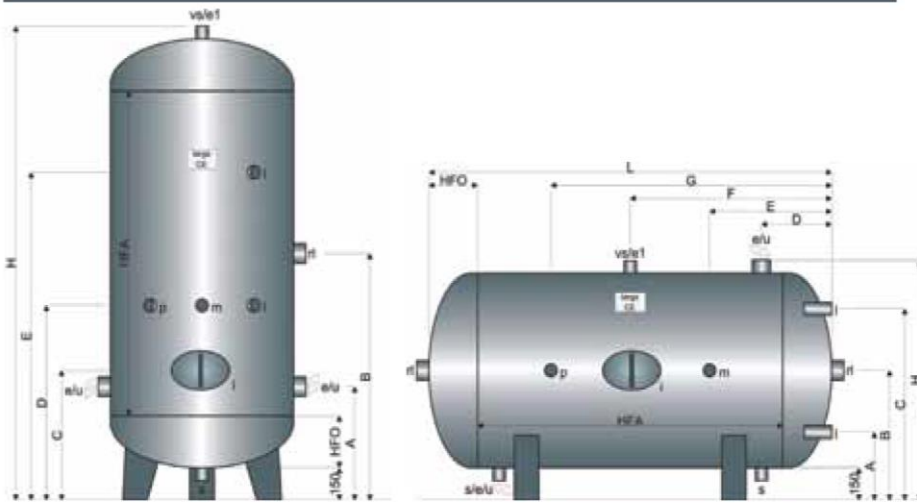
Bispoke execution on demand

Possible protective treatments - see at page 25

Hydrofor 12 bar P.E.D

P.E.D. tested autoclaves 12 bar

Serie AC / AC Series



Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
rl	Level regulator

Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e/u (")	l/m/p (")	rl/vs/s/e1 (")	i (mm)
300	500	165	1250	415	940	465	715	1415	1760	75	1	1/2	1 1/4	*
500	650	200	1250	450	975	500	750	1450	1830	134	1 1/2	1/2	1 1/4	*
800	800	240	1250	490	1015	540	790	1490	1910	178	2	1/2	1 1/4	*
1000	800	240	1700	490	1240	540	990	1890	2360	217	2	1/2	1 1/4	*
1500	950	280	1750	550	1305	580	1030	2030	2490	344	2	1/2	1 1/4	*
2000	1100	310	1750	580	1335	610	1060	2060	2550	431	2	1/2	1 1/4	*/**
3000	1250	350	2000	650	1500	650	1200	2200	2880	670	2 1/2	1/2	1 1/4	*/**
4000	1400	390	2000	760	1540	700	1240	2240	2960	855	3	1/2	1 1/4	*/**/**
5000	1450	410	2500	780	1810	720	1360	2360	3500	1035	3	1/2	1 1/4	*/**/**
6000	1450	410	3000	780	2060	720	1360	2860	4000	1215	3	1/2	1 1/4	*/**/**
8000	1650	460	3000	940	2110	860	1410	2910	4100	1613	4	1/2	1 1/4	*/**/**
10000	1650	460	4000	940	2610	860	1610	3110	5100	1978	4	1/2	1 1/4	*/**/**
15000	2000	550	4000	1030	2700	1000	1700	3200	5280	2708	4	1/2	1 1/4	300x400
20000	2200	620	4500	1120	3020	1070	1770	3270	5920	3845	4	1/2	1 1/4	300x400

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s (")	l/m/p (")	rl/vs/e1 (")	i (mm)
300	500	165	1250	220	400	580	265	440	790	1140	680	1580	75	1	1/2	1 1/4	*
500	650	200	1250	250	475	700	300	475	825	1175	830	1650	134	1 1/2	1/2	1 1/4	*
800	800	240	1250	325	550	775	340	515	865	1215	980	1730	178	2	1/2	1 1/4	*
1000	800	240	1700	250	550	850	340	765	1090	1415	980	2180	217	2	1/2	1 1/4	*
1500	950	280	1750	295	625	955	380	805	1155	1505	1130	2310	344	2	1/2	1 1/4	*
2000	1100	310	1750	315	700	1085	410	835	1185	1535	1280	2370	431	2	1/2	1 1/4	*/**
3000	1250	350	2000	338	775	1213	470	950	1350	1750	1430	2700	670	2 1/2	1/2	1 1/4	*/**
4000	1400	390	2000	360	850	1340	590	990	1390	1790	1580	2780	855	3	1/2	1 1/4	*/**/**
5000	1450	410	2500	375	875	1375	610	1160	1660	2160	1630	3320	1035	3	1/2	1 1/4	*/**/**
6000	1450	410	3000	375	875	1375	610	1160	1910	2660	1630	3820	1215	3	1/2	1 1/4	*/**/**
8000	1650	460	3000	425	975	1525	680	1210	1960	2710	1830	3920	1613	4	1/2	1 1/4	*/**/**
10000	1650	460	4000	425	975	1525	680	1710	2460	3210	1830	4920	1978	4	1/2	1 1/4	*/**/**
15000	2000	550	4000	450	1150	1850	770	1800	2550	3300	2180	5100	2708	4	1/2	1 1/4	300x400
20000	2200	620	4500	500	1250	2000	870	1870	2870	3870	2380	5740	3845	4	1/2	1 1/4	300x400

Manhole on demand: * 100x150; ** 220x320; *** 300x400

Bispoke execution on demand

Possible protective treatments - see at page 25

Trykluftbeholder 8 bar P.E.D

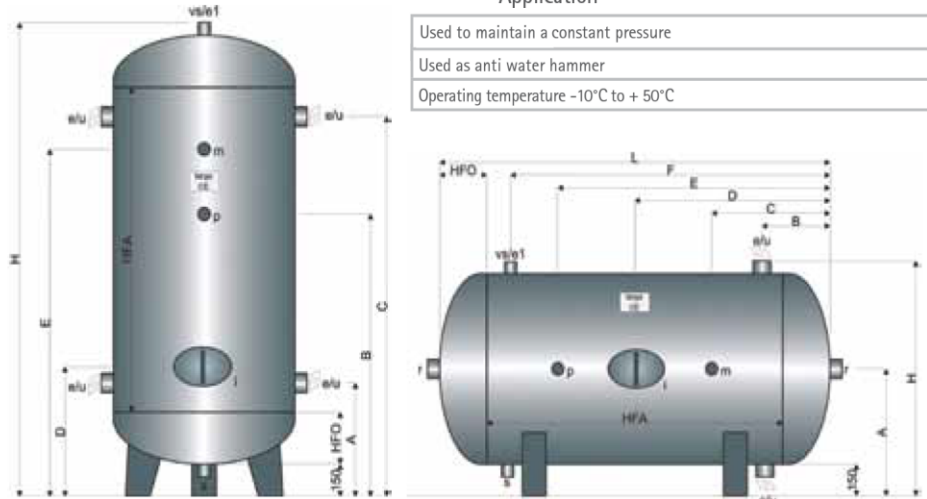
P.E.D. tested pressurized air tanks 8 bar
Serie AK / AK Series

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Application

Used to maintain a constant pressure
Used as anti water hammer
Operating temperature -10°C to + 50°C



Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e/u (")	vs/s/e1 (")	m/p (")	i (mm)
300	500	165	1250	415	1065	1465	465	1365	1760	75	1	1 1/4	1/2	*
500	650	200	1250	450	1100	1500	500	1400	1830	102	1 1/2	1 1/4	1/2	*
800	800	240	1250	490	1140	1540	540	1440	1910	151	2	1 1/4	1/2	*
1000	800	240	1650	490	1540	1940	540	1840	2310	177	2	1 1/4	1/2	*
1500	950	280	1750	550	1680	2060	580	1980	2490	232	2	1 1/4	1/2	*
2000	1100	310	1750	580	1710	2090	610	2010	2550	353	2	1 1/4	1/2	*/**
3000	1250	350	2000	640	2000	2360	650	2300	2880	466	2 1/2	1 1/4	1/2	*/**
4000	1400	390	2000	680	2040	2400	690	2340	2960	660	3	1 1/4	1/2	*/**/**
5000	1450	410	2500	700	2360	2920	710	2760	3500	792	3	1 1/4	1/2	*/**/**
6000	1450	410	3000	700	2860	3420	710	3260	4000	932	3	1 1/4	1/2	*/**/**
8000	1650	460	3000	840	2910	3380	860	3310	4100	1286	4	1 1/4	1/2	*/**/**
10000	1650	460	4000	840	3910	4380	860	4110	5100	1560	4	1 1/4	1/2	*/**/**
15000	2000	560	4000	940	4010	4480	1010	3710	5300	2323	4	1 1/4	1/2	300x400
20000	2000	560	5500	940	5510	5980	1010	5210	6800	2903	4	1 1/4	1/2	300x400

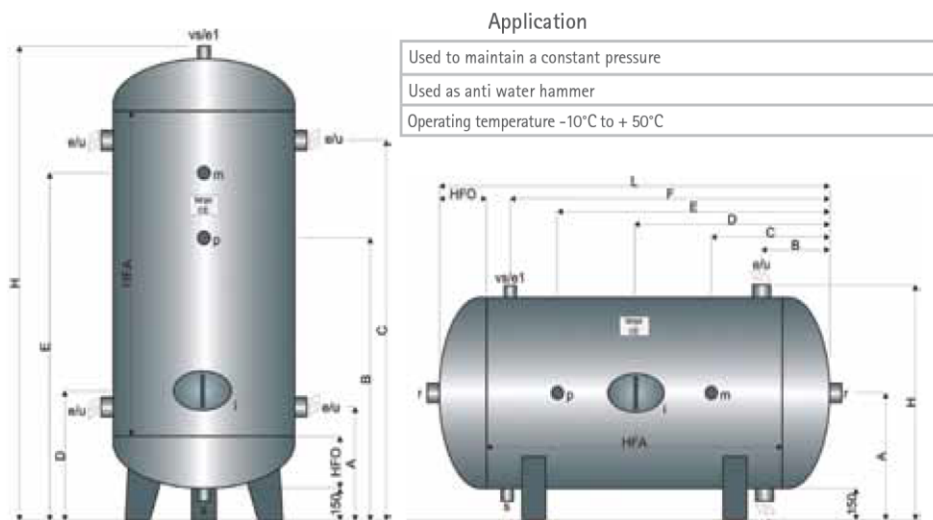
Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	L (mm)	F (mm)	KG	e/u/s/ vs/e1 (")	r (")	m/p (")	i (mm)
300	500	165	1250	400	265	440	790	1140	680	1580	1140	75	1	1 1/4	1/2	*
500	650	200	1250	475	300	475	825	1175	830	1650	1175	102	1 1/2	1 1/4	1/2	*
800	800	240	1250	550	340	515	865	1215	980	1730	1215	151	2	1 1/4	1/2	*
1000	800	240	1650	550	340	765	1065	1365	980	2130	1365	177	2	1 1/4	1/2	*
1500	950	280	1750	625	400	805	1155	1505	1130	2310	1505	232	2	1 1/4	1/2	*
2000	1100	310	1750	700	430	910	1185	1460	1280	2370	1460	353	2	1 1/4	1/2	*/**
3000	1250	350	2000	775	490	625	1350	2075	1430	2700	2075	466	2 1/2	1 1/4	1/2	*/**
4000	1400	390	2000	850	530	1140	1390	1640	1580	2780	1640	660	3	1 1/4	1/2	*/**/**
5000	1450	410	2500	875	550	1660	1660	1660	1630	3320	1660	792	3	1 1/4	1/2	*/**/**
6000	1450	410	3000	875	550	1660	1910	2160	1630	3820	2160	932	3	1 1/4	1/2	*/**/**
8000	1650	460	3000	975	690	1710	1960	2210	1830	3920	2210	1286	4	1 1/4	1/2	*/**/**
10000	1650	460	4000	975	690	1710	2460	3210	1830	4920	3210	1560	4	1 1/4	1/2	*/**/**
15000	2000	560	4000	1150	790	1810	2560	3310	2180	5120	3310	2323	4	1 1/4	1/2	300x400
20000	2000	560	5500	1150	790	2560	3310	4060	2180	6620	4060	2903	4	1 1/4	1/2	300x400

Trykluftbeholder 11 bar P.E.D

P.E.D. tested pressurized air tanks 11 bar

Serie AK / AK Series



Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e/u (")	vs/s/e1 (")	m/p (")	i (mm)
200	450	150	1000	400	800	1200	450	1100	1480	57	1	1 1/4	1/2	*
300	500	165	1250	435	1065	1445	465	1365	1760	75	1	1 1/4	1/2	*
500	600	200	1500	470	1350	1730	500	1650	2080	113	1 1/2	1 1/4	1/2	*
700	700	210	1500	480	1360	1740	510	1660	2100	134	2	1 1/4	1/2	*
800	800	240	1250	510	1140	1520	540	1440	1910	178	2	1 1/4	1/2	*
1000	800	240	1650	510	1540	1920	540	1840	2310	214	2	1 1/4	1/2	*
1500	950	280	1750	550	1680	2060	580	1980	2490	293	2	1 1/4	1/2	*
2000	1000	310	2000	580	1960	2340	610	2260	2800	426	2	1 1/4	1/2	*/**
3000	1200	390	2000	760	2040	2320	690	2340	2960	558	2 1/2	1 1/4	1/2	*/**
4000	1400	390	2000	760	2040	2320	700	2340	2960	779	3	1 1/4	1/2	*/**/**
5000	1450	410	2500	780	2260	2840	810	2760	3500	936	3	1 1/4	1/2	*/**/**
6000	1450	410	3000	780	2760	3340	810	3260	4000	1096	3	1 1/4	1/2	*/**/**
8000	1650	460	3000	850	2610	3370	910	3110	4100	1479	4	1 1/4	1/2	*/**/**
10000	1650	460	4000	850	3110	4370	910	3610	5100	1798	4	1 1/4	1/2	*/**/**

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	L (mm)	F (mm)	KG	e/u/s/ vs/e1 (")	r (")	m/p (")	i (mm)
200	450	150	1000	375	250	425	650	875	630	1300	875	57	1	1 1/4	1/2	*
300	500	165	1250	400	285	440	790	1140	680	1580	1140	75	1	1 1/4	1/2	*
500	600	200	1500	450	320	475	950	1425	780	1900	1425	113	1 1/2	1 1/4	1/2	*
700	700	210	1500	500	330	485	960	1435	880	1920	1435	134	2	1 1/4	1/2	*
800	800	240	1250	550	360	515	865	1215	980	1730	1215	178	2	1 1/4	1/2	*
1000	800	240	1650	550	360	765	1065	1365	980	2130	1365	214	2	1 1/4	1/2	*
1500	950	280	1750	625	400	805	1155	1505	1130	2310	1505	293	2	1 1/4	1/2	*
2000	1000	310	2000	650	430	1060	1310	1560	1180	2620	1560	426	2	1 1/4	1/2	*/**
3000	1200	390	2000	750	610	1140	1390	1640	1380	2780	1640	558	2 1/2	1 1/4	1/2	*/**
4000	1400	390	2000	850	610	1140	1390	1640	1580	2780	1640	779	3	1 1/4	1/2	*/**/**
5000	1450	410	2500	875	630	1660	1660	1660	1630	3320	1660	936	3	1 1/4	1/2	*/**/**
6000	1450	410	3000	875	630	1660	1910	2160	1630	3820	2160	1096	3	1 1/4	1/2	*/**/**
8000	1650	460	3000	975	700	1710	1960	2210	1830	3920	2210	1479	4	1 1/4	1/2	*/**/**
10000	1650	460	4000	975	700	1710	2460	3210	1830	4920	3210	1798	4	1 1/4	1/2	*/**/**

Manhole on demand: * 100x150; ** 220x320; *** 300x400
 Bispoke execution on demand
 Possible protective treatments - see at page 25

Trykluftbeholder 12 bar P.E.D

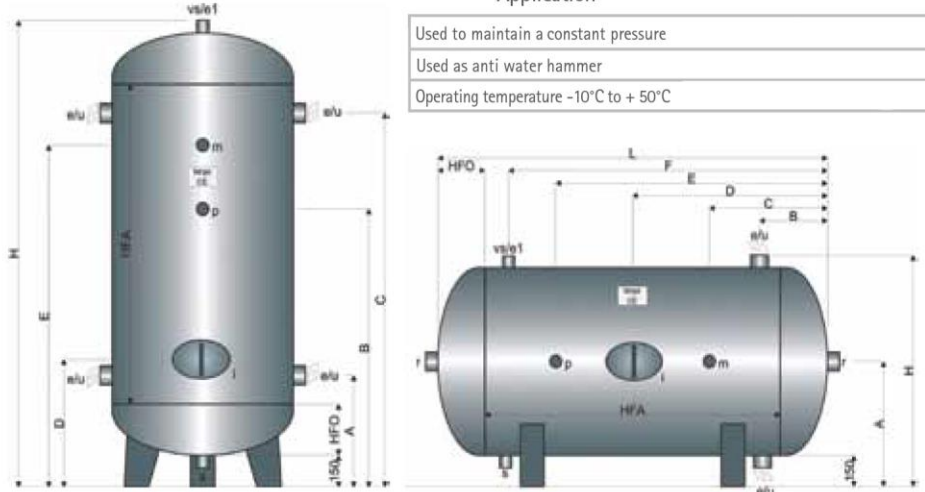
P.E.D. tested pressurized air tanks 12 bar
Serie AK / AK Series

Connections

s	Discharge
vs	Safety valve
m	Pressurere gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Application

Used to maintain a constant pressure
Used as anti water hammer
Operating temperature -10°C to + 50°C



Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e/u (°)	vs/s/e1 (°)	m/p (°)	i (mm)
200	450	150	1000	400	800	1200	450	1100	1480	57	1	1 1/4	1/2	*
300	500	165	1250	415	1065	1465	465	1365	1760	75	1	1 1/4	1/2	*
500	650	200	1250	470	1100	1480	500	1400	1830	133	1 1/2	1 1/4	1/2	*
800	800	240	1250	510	1140	1520	540	1440	1910	178	2	1 1/4	1/2	*
1000	800	240	1700	510	1590	1970	540	1890	2360	218	2	1 1/4	1/2	*
1500	950	280	1750	550	1680	2060	580	1980	2490	344	2	1 1/4	1/2	*
2000	1100	310	1750	610	1710	2060	610	2010	2550	431	2	1 1/4	1/2	*/**
3000	1250	350	2000	720	2000	2280	660	2300	2880	670	2 1/2	1 1/4	1/2	*/**
4000	1400	390	2000	760	2040	2320	700	2340	2960	856	3	1 1/4	1/2	*/**/**
5000	1450	410	2500	780	2260	2840	810	2760	3500	1036	3	1 1/4	1/2	*/**/**
6000	1450	410	3000	780	2760	3340	810	3260	4000	1220	3	1 1/4	1/2	*/**/**
8000	1650	460	3000	850	2610	3370	910	3110	4100	1616	4	1 1/4	1/2	*/**/**
10000	1650	460	4000	850	3110	4370	910	3610	5100	1981	4	1 1/4	1/2	*/**/**
15000	2000	560	4000	950	3210	4470	1010	3710	5300	2725	4	1 1/4	1/2	300x400
20000	2200	620	4500	1020	3770	5020	1070	4270	5920	3863	4	1 1/4	1/2	300x400

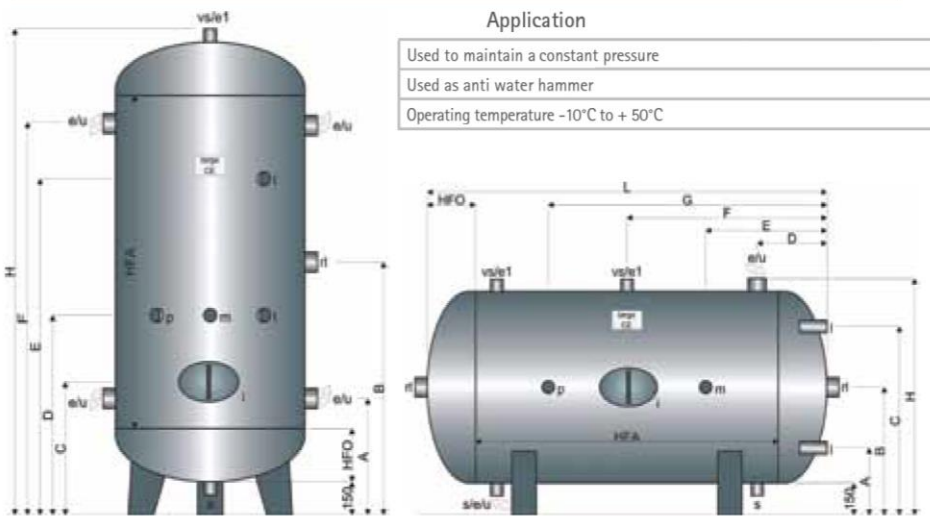
Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	L (mm)	F (mm)	KG	e/u/s/ vs/e1 (°)	r (°)	m/p (°)	i (mm)
200	450	150	1000	375	250	425	650	875	630	1300	875	57	1	1 1/4	1/2	*
300	500	165	1250	400	265	440	790	1140	680	1580	1140	75	1	1 1/4	1/2	*
500	650	200	1250	475	320	475	825	1175	830	1650	1175	133	1 1/2	1 1/4	1/2	*
800	800	240	1250	550	360	515	865	1215	980	1730	1215	178	2	1 1/4	1/2	*
1000	800	240	1700	550	360	515	1090	1665	980	2180	1665	218	2	1 1/4	1/2	*
1500	950	280	1750	625	400	805	1155	1505	1130	2310	1505	344	2	1 1/4	1/2	*
2000	1100	310	1750	700	430	835	1185	1535	1280	2370	1535	431	2	1 1/4	1/2	*/**
3000	1250	350	2000	775	470	1100	1350	1600	1430	2700	1600	670	2 1/2	1 1/4	1/2	*/**
4000	1400	390	2000	850	540	990	1390	1790	1580	2780	1790	856	3	1 1/4	1/2	*/**/**
5000	1450	410	2500	875	630	1160	1660	2160	1630	3320	2160	1036	3	1 1/4	1/2	*/**/**
6000	1450	410	3000	875	630	1160	1910	2660	1630	3820	2660	1220	3	1 1/4	1/2	*/**/**
8000	1650	460	3000	975	680	1210	1960	2710	1830	3920	2710	1616	4	1 1/4	1/2	*/**/**
10000	1650	460	4000	975	680	1710	2460	3210	1830	4920	3210	1981	4	1 1/4	1/2	*/**/**
15000	2000	560	4000	1150	780	1810	2560	3310	2180	5120	3310	2725	4	1 1/4	1/2	300x400
20000	2200	620	4500	1250	870	1870	2870	3870	2380	5740	3870	3863	4	1 1/4	1/2	300x400

Trykluftbeholder 16 bar P.E.D

P.E.D. tested high pressure tanks 16 bar

Serie AP / AP Series



Application

Used to maintain a constant pressure
Used as anti water hammer
Operating temperature -10°C to + 50°C

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	KG	e/u (")	l/m/p (")	vs/e1/rl/s (")	i (mm)
300	500	165	1250	415	940	465	665	1415	1465	1760	99	1	1/2	1 1/4	*
500	650	200	1250	450	975	500	700	1450	1500	1830	144	1 1/2	1/2	1 1/4	*
800	800	240	1250	500	1015	540	740	1490	1530	1910	232	2	1/2	1 1/4	*
1000	800	240	1700	500	1240	540	990	1890	1980	2360	281	2	1/2	1 1/4	*
1500	950	280	1750	550	1305	680	1030	2030	2060	2490	365	2	1/2	1 1/4	*
2000	1000	310	2000	600	1460	710	1060	2060	2320	2800	481	2	1/2	1 1/4	*
2500	1250	360	1500	660	1260	760	910	1810	1860	2400	568	2	1/2	1 1/4	*
3000	1250	360	2000	660	1510	760	1210	2210	2360	2900	670	2 1/2	1/2	1 1/4	*
3500	1400	410	1800	800	1460	860	1260	2260	2120	2800	820	3	1/2	1 1/4	***
4000	1400	410	2000	800	1560	860	1260	2260	2320	3000	898	3	1/2	1 1/4	**/**
5000	1450	425	2500	815	1825	875	1375	2375	2835	3530	1080	3	1/2	1 1/4	**/**
7000	1650	470	2500	860	1870	920	1420	2920	2880	3620	1556	3	1/2	1 1/4	**/**
8000	1650	470	3000	860	2120	920	1420	2920	3380	4120	1741	4	1/2	1 1/4	**/**
10000	1650	470	4000	860	2620	920	1620	3120	4380	5120	2106	4	1/2	1 1/4	**/**

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s (")	l/m/p (")	rl (")	vs/e1 (")	i (mm)
300	500	165	1250	220	400	580	265	440	790	1140	680	1580	99	1	1/2	1 1/4	1	*
500	650	200	1250	250	475	700	300	475	825	1175	830	1650	144	1 1/2	1/2	1 1/4	1 1/2	*
800	800	240	1250	270	550	830	350	515	865	1215	980	1730	232	2	1/2	1 1/4	2	*
1000	800	240	1700	270	550	830	350	765	1090	1415	980	2180	281	2	1/2	1 1/4	2	*
1500	950	280	1750	300	625	950	400	805	1155	1505	1130	2310	365	2	1/2	1 1/4	2	*
2000	1000	310	2000	300	650	1000	450	910	1310	1710	1180	2620	481	2	1/2	1 1/4	2	*
2500	1250	360	1500	338	775	1213	510	860	1110	1360	1430	2220	568	3	1/2	1 1/4	3	*
3000	1250	360	2000	338	775	1213	510	960	1360	1760	1430	2720	670	3	1/2	1 1/4	3	*
3500	1400	410	1800	350	850	1350	650	1010	1310	1610	1580	2620	820	3	1/2	1 1/4	3	***
4000	1400	410	2000	350	850	1350	650	1010	1410	1810	1580	2820	898	4	1/2	1 1/4	4	**/**
5000	1450	425	2500	375	875	1375	665	1175	1675	2175	1630	3350	1080	4	1/2	1 1/4	4	**/**
7000	1650	470	2500	400	975	1550	710	1220	1720	2220	1830	3440	1556	4	1/2	1 1/4	4	**/**
8000	1650	470	3000	400	975	1550	710	1470	1970	2470	1830	3940	1741	4	1/2	1 1/4	4	**/**
10000	1650	470	4000	400	975	1550	710	1720	2470	3220	1830	4940	2106	4	1/2	1 1/4	4	**/**

Manhole on demand: * 100x150; ** 220x320; *** 300x400
 Bispo execution on demand
 Possible protective treatments - see at page 25

Trykbeholder 18 bar P.E.D

P.E.D. tested high pressure tanks 18 bar
Serie AP / AP Series

014

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Vertical

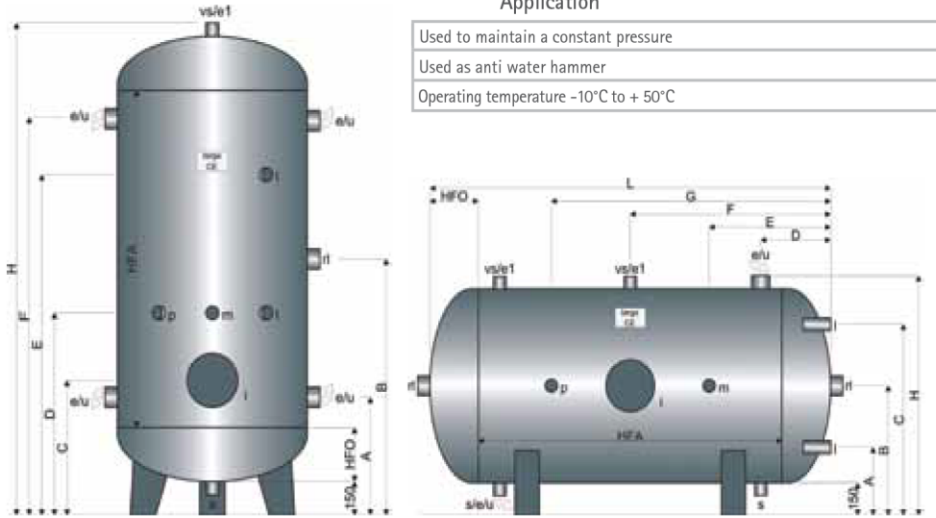
Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	KG	e/u (")	l/m/p (")	rl/vs/e1/s (")	i (mm)
100	350	120	1000	370	770	420	570	1070	1170	1420	82	1	1/2	1 1/4	*
200	450	150	1000	400	800	450	650	1150	1200	1480	110	1	1/2	1 1/4	*
300	500	165	1250	415	940	465	665	1365	1465	1760	146	1	1/2	1 1/4	*
500	650	200	1250	450	975	500	750	1450	1500	1830	199	1 1/2	1/2	1 1/4	*
800	800	240	1250	500	1015	540	790	1490	1530	1910	259	2	1/2	1 1/4	*
1000	800	240	1700	500	1240	540	990	1890	1980	2360	319	2	1/2	1 1/4	*
1500	950	280	1750	560	1305	580	1030	2030	2050	2490	408	2	1/2	1 1/4	*
2000	1100	330	1750	610	1355	630	1080	2080	2100	2590	516	2	1/2	1 1/4	*
2500	1250	360	1500	660	1260	660	910	1810	1860	2400	653	2	1/2	1 1/4	*
3000	1250	360	2000	660	1510	660	1210	2210	2360	2900	772	2 1/2	1/2	1 1/4	*
4000	1400	410	2000	780	1560	710	1260	2260	2340	3000	1067	3	1/2	1 1/4	*
5000	1450	425	2500	795	1825	725	1375	2375	2855	3530	1279	3	1/2	1 1/4	*

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s/ (")	l/m/p (")	rl (")	vs/e1 (")	i (mm)
100	350	120	1000	195	325	475	220	320	620	920	530	1240	82	1	1/2	1 1/4	1	*
200	450	150	1000	225	375	555	250	350	650	950	630	1300	110	1	1/2	1 1/4	1	*
300	500	165	1250	220	400	625	265	440	790	1140	680	1580	146	1	1/2	1 1/4	1	*
500	650	200	1250	250	475	755	300	475	825	1175	830	1650	199	1 1/2	1/2	1 1/4	1 1/2	*
800	800	240	1250	270	550	830	350	515	865	1215	980	1730	259	2	1/2	1 1/4	2	*
1000	800	240	1700	270	550	875	350	765	1090	1415	980	2180	319	2	1/2	1 1/4	2	*
1500	950	280	1750	300	625	1010	410	805	1155	1505	1130	2310	408	2	1/2	1 1/4	2	*
2000	1100	330	1750	315	700	1138	460	855	1205	1555	1280	2410	516	2	1/2	1 1/4	2	*
2500	1250	360	1500	338	775	1213	510	860	1110	1360	1430	2220	653	2	1/2	1 1/4	2	*
3000	1250	360	2000	338	775	1275	510	960	1360	1760	1430	2720	772	2 1/2	1/2	1 1/4	2 1/2	*
4000	1400	410	2000	350	850	1350	630	1010	1410	1810	1580	2820	1067	3	1/2	1 1/4	3	*
5000	1450	425	2500	375	875	875	645	1175	1675	2175	1630	3350	1279	3	1/2	1 1/4	3	*

Application

Used to maintain a constant pressure
Used as anti water hammer
Operating temperature -10°C to + 50°C



* Flanged manhole on demand
Bispoke execution on demand
Possible protective treatments - see at page 25

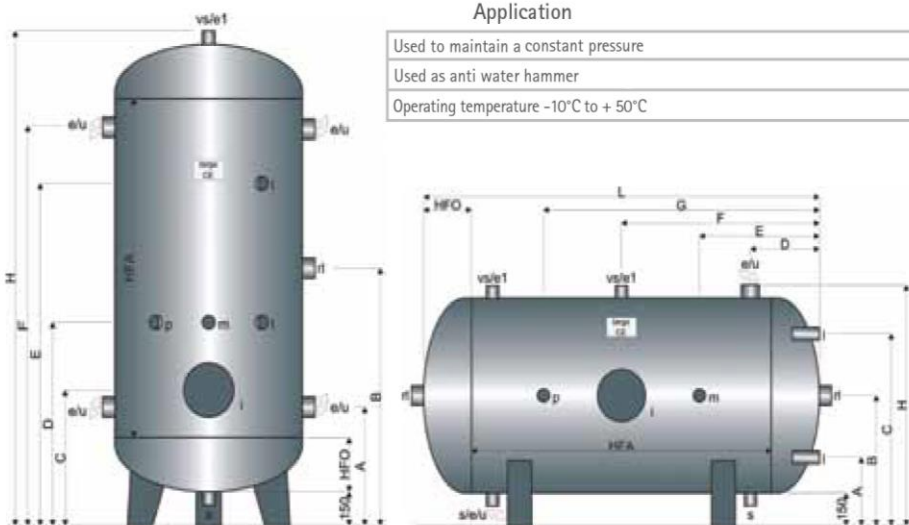
Trykbeholder 18 bar P.E.D

P.E.D. tested high pressure tanks 20 bar

Serie AP / AP Series

Application

Used to maintain a constant pressure
Used as anti water hammer
Operating temperature -10°C to + 50°C



Connections

s	Discharge
vs	Safety valve
m	Pressure gauger
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	KG	e/u (")	l/m/p (")	r/vs/e1/s (")	i (mm)
4000	1400	410	2000	810	1560	850	1260	2260	2310	3000	1222	3	1/2	1 1/4	*
5000	1450	420	2500	820	1820	875	1370	2370	2820	3520	1479	3	1/2	1 1/4	*
6000	1600	460	2300	860	1760	950	1410	2910	2660	3400	1628	3	1/2	1 1/4	*
7000	1650	480	2500	880	1880	975	1430	2930	2880	3640	1902	4	1/2	1 1/4	*
8000	1650	480	3000	880	2130	975	1430	2930	3380	4140	2130	4	1/2	1 1/4	*
9000	1600	460	4000	860	2610	950	1610	3110	4360	5100	2382	4	1/2	1 1/4	*
10000	1650	480	4000	880	2630	975	1630	3130	4380	5140	2586	4	1/2	1 1/4	*

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s/ (")	l/m/p (")	r/vs/e1 (")	i (mm)
4000	1400	410	2000	350	850	1350	660	1010	1410	1810	1580	2820	1222	3	1/2	1 1/4	*
5000	1450	420	2500	375	875	1375	670	1170	1670	2170	1630	3340	1479	3	1/2	1 1/4	*
6000	1600	460	2300	450	950	1450	710	1210	1610	2010	1780	3220	1628	3	1/2	1 1/4	*
7000	1650	480	2500	475	975	1475	730	1230	1730	2230	1830	3460	1902	4	1/2	1 1/4	*
8000	1650	480	3000	475	975	1475	730	1480	1980	2480	1830	3960	2130	4	1/2	1 1/4	*
9000	1600	460	4000	450	950	1450	710	1710	2460	3210	1780	4920	2382	4	1/2	1 1/4	*
10000	1650	480	4000	475	975	1475	730	1730	2480	3230	1830	4960	2586	4	1/2	1 1/4	*

* Flanged manhole on demand
 Bispoke execution on demand
 Possible protective treatments - see at page 25

Trykbeholder 25 bar P.E.D

P.E.D. tested high pressure tanks 25 bar
Serie AP / AP Series

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Vertical

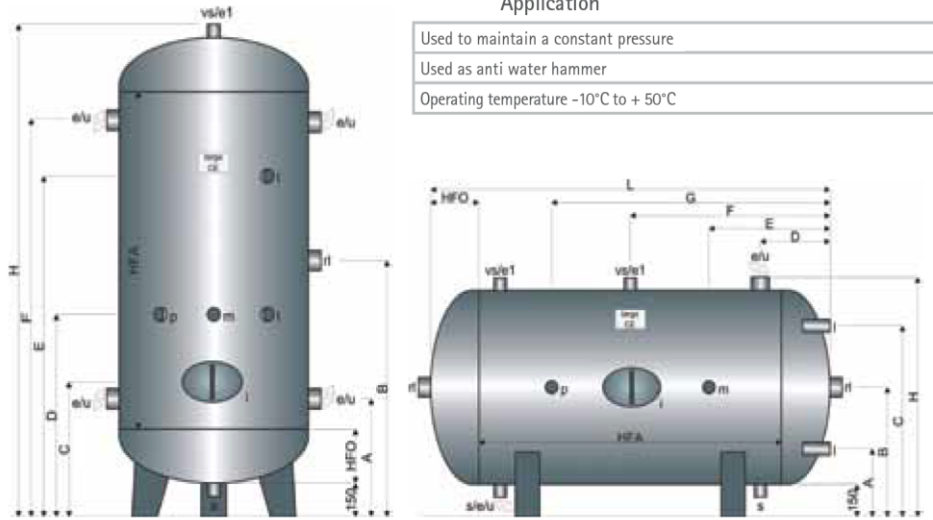
Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	KG	e/u (°)	l/m/p (°)	rl/vs/e1/s (°)	i (mm)
300	500	165	1250	415	940	n.p.	715	1415	1465	1760	146	1	1/2	1 1/4	n.p.
500	650	200	1250	460	975	n.p.	750	1450	1490	1830	200	1 1/2	1/2	1 1/4	n.p.
800	800	240	1250	510	1015	n.p.	790	1490	1520	1910	272	2	1/2	1 1/4	n.p.
1000	800	240	1700	510	1240	n.p.	990	1890	1970	2360	332	2	1/2	1 1/4	n.p.
1500	950	280	1750	570	1305	690	1030	1930	2040	2490	544	2	1/2	1 1/4	***
2000	1000	310	2000	600	1460	720	1260	2260	2320	2800	638	2	1/2	1 1/4	**/**
2500	1250	371	1500	691	1271	801	921	1821	1851	2422	882	2	1/2	1 1/4	**/**
3000	1250	371	2000	691	1521	801	1321	2321	2351	2922	1054	2 1/2	1/2	1 1/4	**/**
3000	1400	415	1500	805	1315	895	965	1765	1825	2510	1238	2 1/2	1/2	1 1/4	**/**
4000	1400	415	2000	805	1565	895	1265	2265	2325	3010	1471	3	1/2	1 1/4	**/**
5000	1450	430	2500	820	1830	910	1280	2280	2840	3540	1780	3	1/2	1 1/4	**/**
5000	1650	490	1700	900	1490	990	1240	2240	2080	2860	1934	3	1/2	1 1/4	**/**
6000	1450	430	3000	820	2080	910	1580	2580	3340	4040	2061	3	1/2	1 1/4	**/**
6000	1650	490	2000	900	1640	990	1240	2240	2380	3160	2166	3	1/2	1 1/4	**/**

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s/vs/e1 (°)	l/m/p (°)	rl (°)	i (mm)
300	500	165	1250	250	400	550	265	440	790	1140	680	1580	146	1	1/2	1 1/4	n.p.
500	650	200	1250	265	475	685	310	475	825	1175	830	1650	200	1 1/2	1/2	1 1/4	n.p.
800	800	240	1250	300	550	800	360	515	865	1215	980	1730	272	2	1/2	1 1/4	n.p.
1000	800	240	1700	300	550	800	360	765	1090	1415	980	2180	332	2	1/2	1 1/4	n.p.
1500	950	280	1750	300	625	950	420	805	1155	1505	1130	2310	544	2	1/2	1 1/4	***
2000	1000	310	2000	300	650	1000	450	810	1310	1810	1180	2620	638	2	1/2	1 1/4	**/**
2500	1250	371	1500	345	775	1205	541	871	1121	1371	1430	2242	882	2	1/2	1 1/4	**/**
3000	1250	371	2000	345	775	1205	541	971	1371	1771	1430	2742	1054	2 1/2	1/2	1 1/4	**/**
3000	1400	415	1500	350	850	1350	655	1165	1165	1165	1580	2330	1238	2 1/2	1/2	1 1/4	**/**
4000	1400	415	2000	350	850	1350	655	1015	1415	1815	1580	2830	1471	3	1/2	1 1/4	**/**
5000	1450	430	2500	375	875	1375	670	1180	1680	2180	1630	3360	1780	3	1/2	1 1/4	**/**
5000	1650	490	1700	475	975	1475	750	990	1340	1690	1830	2680	1934	3	1/2	1 1/4	**/**
6000	1450	430	3000	375	875	1375	670	1180	1930	2680	1630	3860	2061	3	1/2	1 1/4	**/**
6000	1650	490	2000	475	975	1475	750	1090	1490	1890	1830	2980	2166	3	1/2	1 1/4	**/**

Application

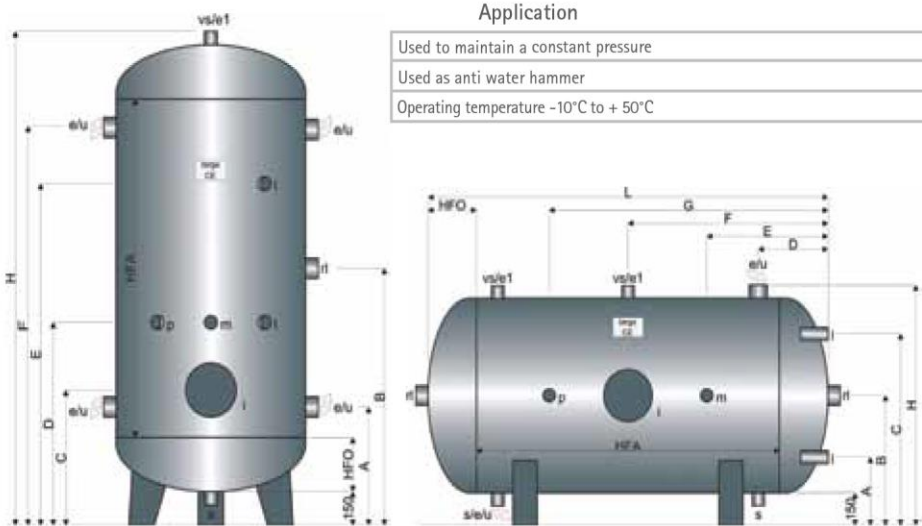
Used to maintain a constant pressure
Used as anti water hammer
Operating temperature -10°C to +50°C



Trykbeholder 30 bar P.E.D

P.E.D. tested high pressure tanks 30 bar

Serie AP / AP Series



Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	KG	e/u (")	l/m/p (")	rl/vs/e1/s (")	i (mm)
800	800	250	1250	530	1025	700	750	1450	1520	1930	427	2	1/2	1 1/4	*
1000	800	250	1700	530	1250	700	900	1850	1970	2380	527	2	1/2	1 1/4	*
1500	900	285	2000	585	1435	785	935	1885	2285	2750	695	2	1/2	1 1/4	*
2000	1100	340	1750	640	1365	840	990	1990	2090	2610	813	2	1/2	1 1/4	*
3000	1100	340	2500	710	1740	840	1490	2490	2770	3360	1050	2 1/2	1/2	1 1/4	*
5000	1450	440	2500	840	1840	990	1590	2590	2840	3560	2073	3	1/2	1 1/4	*
6000	1450	440	3000	840	2090	990	1590	3090	3340	4060	2393	3	1/2	1 1/4	*

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s/vs/e1 (")	l/m/p (")	rl (")	i (mm)
800	800	250	1250	300	550	800	380	525	875	1225	980	1750	427	2	1/2	1 1/4	*
1000	800	250	1700	300	550	800	380	775	1100	1425	980	2200	527	2	1/2	1 1/4	*
1500	950	280	1750	300	625	950	430	805	1155	1505	1130	2310	695	2	1/2	1 1/4	*
2000	1100	340	1750	300	700	1100	490	865	1215	1565	1280	2430	813	2	1/2	1 1/4	*
3000	1100	340	2500	300	700	1100	490	940	1590	2240	1280	3180	1050	2 1/2	1/2	1 1/4	*
5000	1450	440	2500	375	875	1375	690	1190	1690	2190	1630	3380	2073	3	1/2	1 1/4	*
6000	1450	440	3000	375	875	1375	690	1190	1940	2690	1630	3880	2393	3	1/2	1 1/4	*

* Flanged manhole on demand
 Bispoke execution on demand
 Possible protective treatments - see at page 25

Trykbeholder 35 bar P.E.D

P.E.D. tested high pressure tanks 35 bar
Serie AP / AP Series

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Vertical

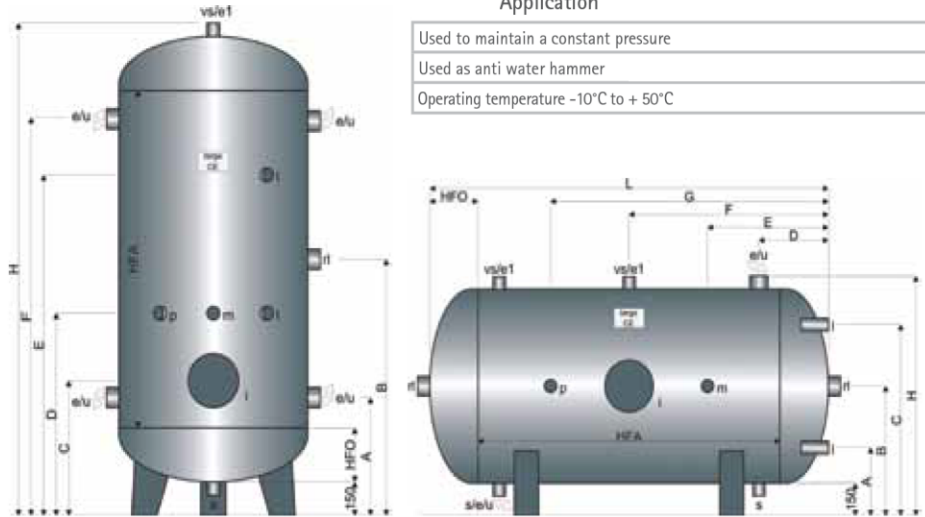
Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	KG	e/u (°)	l/m/p (°)	rl/vs/e1/s (°)	i (mm)
100	350	120	1000	370	770	420	570	1070	1170	1420	81	1	1/2	1 1/4	*
200	450	150	1000	400	800	500	600	1100	1200	1480	109	1	1/2	1 1/4	*
300	500	165	1250	415	940	515	665	1365	1465	1760	144	1	1/2	1 1/4	*
500	650	205	1250	475	980	605	705	1405	1485	1840	229	1 1/2	1/2	1 1/4	*
800	800	250	1250	530	1025	650	750	1450	1520	1930	427	2	1/2	1 1/4	*
1000	800	250	1700	530	1250	650	1000	1900	1970	2380	527	2	1/2	1 1/4	*
1500	950	295	1750	655	1320	695	1045	1945	1985	2520	676	2	1/2	1 1/4	*
2000	1000	315	2000	685	1465	715	1065	2065	2245	2810	954	2	1/2	1 1/4	*
2000	1100	350	1750	740	1375	800	1100	2000	2010	2630	982	2	1/2	1 1/4	*
2500	1250	390	1500	780	1290	890	940	1740	1800	2460	1238	2	1/2	1 1/4	*
3000	1250	390	2000	780	1540	890	1240	2240	2300	2960	1476	2 1/2	1/2	1 1/4	*

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s/vs/e1 (°)	l/m/p (°)	rl (°)	i (mm)
100	350	120	1000	215	325	435	220	320	620	920	530	1240	81	1	1/2	1 1/4	*
200	450	150	1000	235	375	515	250	350	650	950	630	1300	109	1	1/2	1 1/4	*
300	500	165	1250	250	400	550	265	440	790	1140	680	1580	144	1	1/2	1 1/4	*
500	650	205	1250	265	475	685	325	480	830	1180	830	1660	229	1 1/2	1/2	1 1/4	*
800	800	250	1250	300	550	800	380	525	875	1225	980	1750	427	2	1/2	1 1/4	*
1000	800	250	1700	300	550	800	380	775	1100	1425	980	2200	527	2	1/2	1 1/4	*
1500	950	295	1750	300	625	950	505	820	1170	1520	1130	2340	676	2	1/2	1 1/4	*
2000	1000	315	2000	300	650	1000	535	915	1315	1715	1180	2630	954	2	1/2	1 1/4	*
2000	1100	350	1750	315	700	1085	590	875	1225	1575	1280	2450	982	2	1/2	1 1/4	*
2500	1250	390	1500	345	775	1205	630	890	1140	1390	1430	2280	1238	2	1/2	1 1/4	*
3000	1250	390	2000	345	775	1205	630	990	1390	1790	1430	2780	1476	2 1/2	1/2	1 1/4	*

Application

Used to maintain a constant pressure
Used as anti water hammer
Operating temperature -10°C to +50°C

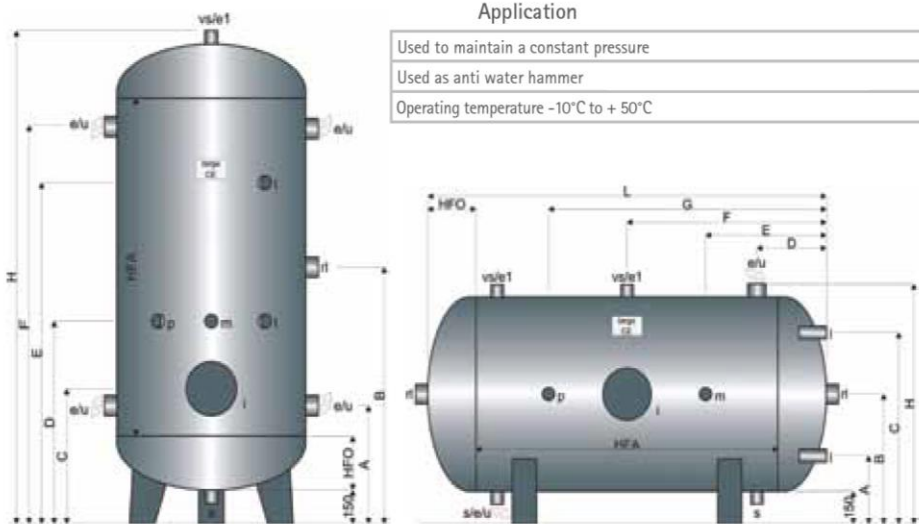


* Flanged manhole on demand
Bispoke execution on demand
Possible protective treatments - see at page 25

Trykbeholder 64 bar P.E.D

P.E.D. tested high pressure tanks 64 bar

Serie AP / AP Series



Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	Reserve

Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	KG	e/u (")	l/m/p (")	rl/vs/e1/s (")	i (mm)
100	350	130	1000	390	780	480	580	1080	1170	1440	94	1	1/2	1 1/4	*
200	450	165	1000	435	815	515	615	1115	1195	1510	178	1	1/2	1 1/4	*
300	500	182	1250	462	957	582	682	1382	1452	1794	237	1	1/2	1 1/4	*
500	650	230	1250	530	1005	680	730	1430	1480	1890	389	1 1/2	1/2	1 1/4	*
800	750	270	1500	580	1170	720	770	1470	1760	2220	620	2	1/2	1 1/4	*
1000	750	270	2000	580	1420	720	1020	2020	2260	2720	765	2	1/2	1 1/4	*

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	KG	e/u/s/vs/e1 (")	l/m/p (")	rl (")	i (mm)
100	350	130	1000	215	325	435	240	330	630	930	530	1260	94	1	1/2	1 1/4	*
200	450	165	1000	235	375	515	285	365	665	965	630	1330	178	1	1/2	1 1/4	*
300	500	182	1250	250	400	550	312	457	807	1157	680	1614	237	1	1/2	1 1/4	*
500	650	230	1250	265	475	685	380	505	855	1205	830	1710	389	1 1/2	1/2	1 1/4	*
800	750	270	1500	275	525	775	430	545	1020	1495	930	2040	620	2	1/2	1 1/4	*
1000	750	270	2000	275	525	775	430	795	1270	1745	930	2540	765	2	1/2	1 1/4	*

* Flanged manhole on demand
 Bispoke execution on demand
 Possible protective treatments - see at page 25

Ekspansionsbeholder 6 bar P.E.D

P.E.D. tested expansion vessels 6 bar 165°C

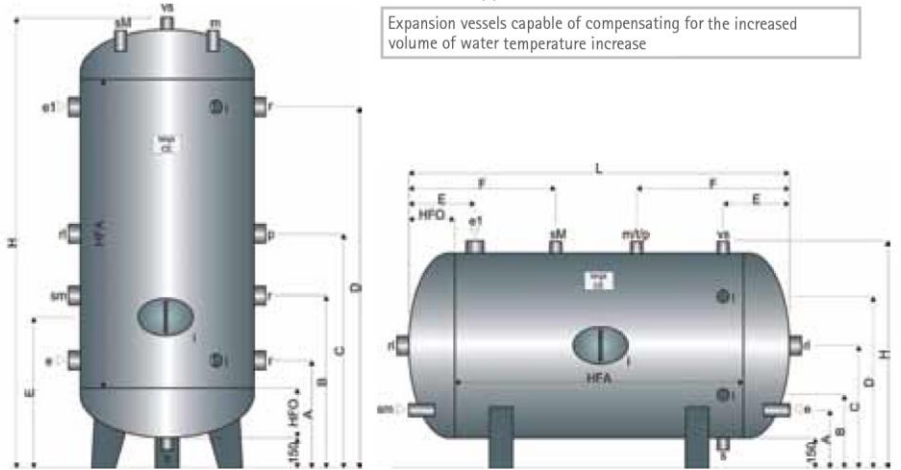
Serie VE / VE Series

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
rl	Level regulator
i	Manhole
e	Water superheated inlet
e1	Air inlet
sm	Minimum probe
sM	Maximum probe
l	Level
r	Reserve

Application

Expansion vessels capable of compensating for the increased volume of water temperature increase



Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e/vs (")	e1/s/sm (")	l (pn16)	rl/p/r (")	m/sM (")	i (mm)
300	550	175	1000	425	625	825	1225	475	1600	89	1 1/4	1 1/4	dn20	1	1/2	*
500	650	200	1250	450	650	975	1500	500	1900	126	1 1/2	1 1/4	dn20	1	1/2	*
1000	800	240	1700	490	690	1240	1990	540	2430	203	2	1 1/4	dn20	1	1/2	*
1500	950	280	1750	530	730	1305	2080	580	2560	262	2 1/2	1 1/4	dn20	1	1/2	100x150
2000	1100	310	1750	580	780	1335	2090	610	2620	330	2 1/2	1 1/4	dn20	1	1/2	100x150
3000	1250	350	2000	700	900	1500	2300	650	2950	437	3	1 1/4	dn20	1	1/2	100x150
4000	1400	390	2000	740	940	1540	2340	790	3030	624	3	1 1/4	dn20	1	1/2	220x320
5000	1450	410	2500	760	960	1810	2860	810	3570	745	3	1 1/4	dn20	1	1/2	220x320
6000	1450	410	3000	760	960	2060	3360	810	4070	873	3	1 1/4	dn20	1	1/2	220x320
8000	1650	460	3000	820	1020	2110	3400	910	4170	1215	4	1 1/4	dn20	1	1/2	300x400
9000	1650	460	3800	820	1020	2510	4200	910	4970	1416	4	1 1/4	dn20	1	1/2	300x400
10000	1650	460	4000	820	1020	2610	4400	910	5170	1466	4	1 1/4	dn20	1	1/2	300x400

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	L (mm)	H (mm)	KG	e/vs (")	e1/rl (")	l (pn16)	s (")	m/sM/p/t/sm (")	i (mm)
300	550	175	1000	280	295	425	555	275	575	1350	800	89	1 1/4	1	dn20	1 1/4	1/2	*
500	650	200	1250	295	345	475	605	300	725	1650	900	126	1 1/2	1	dn20	1 1/4	1/2	*
1000	800	240	1700	340	380	550	720	340	990	2180	1050	203	2	1	dn20	1 1/4	1/2	*
1500	950	280	1750	395	420	625	830	380	1055	2310	1200	262	2 1/2	1	dn20	1 1/4	1/2	100x150
2000	1100	310	1750	410	450	700	950	430	1065	2370	1350	330	2 1/2	1	dn20	1 1/4	1/2	100x150
3000	1250	350	2000	425	525	775	1025	540	1230	2700	1500	437	3	1	dn20	1 1/4	1/2	100x150
4000	1400	390	2000	460	600	850	1100	590	1270	2780	1650	624	3	1	dn20	1 1/4	1/2	220x320
5000	1450	410	2500	465	625	875	1125	610	1530	3320	1700	745	3	1	dn20	1 1/4	1/2	220x320
6000	1450	410	3000	465	625	875	1125	610	1780	3820	1700	873	3	1	dn20	1 1/4	1/2	220x320
8000	1650	460	3000	525	725	975	1225	670	1810	3920	1900	1215	4	1	dn20	1 1/4	1/2	300x400
9000	1650	460	3800	525	725	975	1225	670	2210	4720	1900	1416	4	1	dn20	1 1/4	1/2	300x400
10000	1650	460	4000	525	725	975	1225	670	2310	4920	1900	1466	4	1	dn20	1 1/4	1/2	300x400

Manhole on demand: * 100x150
 Bispoke execution on demand
 Possible protective treatments - see at page 25

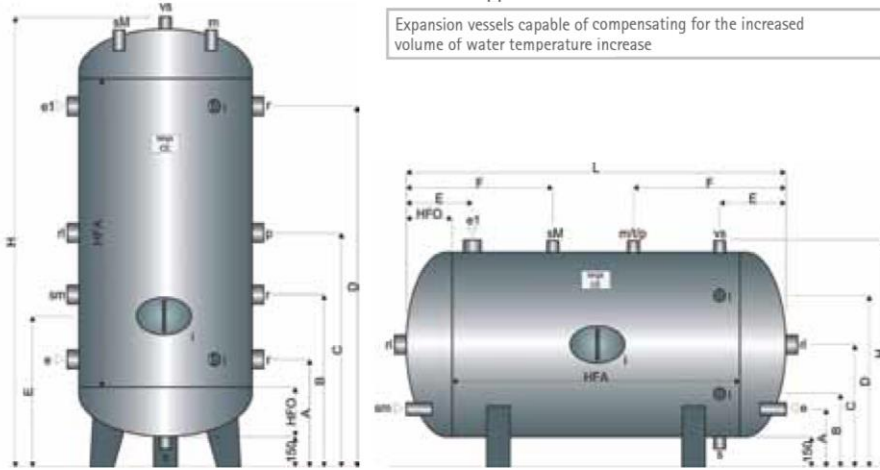
Ekspansionsbeholder 8 bar P.E.D

P.E.D. tested expansion vessels 8 bar 176°C

Serie VE / VE Series

Application

Expansion vessels capable of compensating for the increased volume of water temperature increase



Connections

s	Discharge
vs	Safety valve
m	Pressuere gauge
p	Pressuere controller
rl	Level regulator
i	Manhole
e	Water superheated inlet
e1	Air inlet
sm	Minimum probe
sM	Maximum probe
l	Level
r	Reserve

Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e (°)	e1/sm/s (°)	l (pn16)	rl/p/r (°)	vs (°)	m/sM (°)	i (mm)
300	550	175	1000	425	625	825	1225	475	1600	89	1 1/4	1 1/4	dn20	1	1 1/4	1/2	*
500	650	200	1250	450	650	975	1500	500	1900	126	1 1/2	1 1/4	dn20	1	1 1/2	1/2	*
1000	800	240	1750	500	700	1265	2030	540	2480	207	2	1 1/4	dn20	1	2	1/2	*
1500	950	280	1750	540	740	1305	2070	580	2560	280	2 1/2	1 1/4	dn20	1	2 1/2	1/2	100x150
2000	1100	310	1750	580	780	1335	2090	610	2620	401	2 1/2	1 1/4	dn20	1	2 1/2	1/2	100x150
3000	1250	350	2000	690	890	1500	2310	650	2950	530	3	1 1/4	dn20	1	3	1/2	100x150
4000	1400	390	2000	750	950	1540	2330	790	3030	731	3	1 1/4	dn20	1	3	1/2	220x320
5000	1450	410	2500	770	970	1810	2850	810	3570	876	3	1 1/4	dn20	1	3	1/2	220x320
6000	1450	410	3000	770	970	2060	3350	810	4070	1023	3	1 1/4	dn20	1	3	1/2	220x320
8000	1650	460	3000	840	1040	2110	3380	910	4170	1390	4	1 1/4	dn20	1	4	1/2	300x400
9000	1650	460	3800	840	1040	2510	4180	910	4970	1625	4	1 1/4	dn20	1	4	1/2	300x400
10000	1650	460	4000	840	1040	2610	4380	910	5170	1683	4	1 1/4	dn20	1	4	1/2	300x400
15000	2000	560	4000	950	1150	2710	4470	1010	5370	2496	4	1 1/4	dn20	1	4	1/2	300x400
20000	2000	560	5500	950	1150	3460	5970	1010	6870	3104	4	1 1/4	dn20	1	4	1/2	300x400

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	KG	e/vs (°)	e1/s (°)	l (pn16)	rl (°)	m/sM (°)	i (mm)
300	550	175	1000	280	295	425	555	275	575	800	1350	89	1 1/4	1 1/4	dn20	1	1/2	*
500	650	200	1250	295	345	475	605	300	725	900	1650	126	1 1/2	1 1/4	dn20	1	1/2	*
1000	800	240	1750	340	380	550	720	350	1015	1050	2230	207	2	1 1/4	dn20	1	1/2	*
1500	950	280	1750	395	420	625	830	390	1055	1200	2310	280	2 1/2	1 1/4	dn20	1	1/2	100x150
2000	1100	310	1750	410	450	700	950	430	1065	1350	2370	401	2 1/2	1 1/4	dn20	1	1/2	100x150
3000	1250	350	2000	425	525	775	1025	540	1230	1500	2700	530	3	1 1/4	dn20	1	1/2	100x150
4000	1400	390	2000	460	600	850	1100	600	1270	1650	2780	731	3	1 1/4	dn20	1	1/2	220x320
5000	1450	410	2500	465	625	875	1125	620	1530	1700	3320	876	3	1 1/4	dn20	1	1/2	220x320
6000	1450	410	3000	465	625	875	1125	620	1780	1700	3820	1023	3	1 1/4	dn20	1	1/2	220x320
8000	1650	460	3000	525	725	975	1225	690	1810	1900	3920	1390	4	1 1/4	dn20	1	1/2	300x400
9000	1650	460	3800	525	725	975	1225	690	2210	1900	4720	1625	4	1 1/4	dn20	1	1/2	300x400
10000	1650	460	4000	525	725	975	1225	690	2310	1900	4920	1683	4	1 1/4	dn20	1	1/2	300x400
15000	2000	560	4000	700	900	1150	1400	800	2410	2250	5120	2496	4	1 1/4	dn20	1	1/2	300x400
20000	2000	560	5500	700	900	1150	1400	800	3160	2250	6620	3104	4	1 1/4	dn20	1	1/2	300x400

Manhole on demand: * 100x150
 Bispoke execution on demand
 Possible protective treatments - see at page 25

Ekspansionsbeholder 12 bar P.E.D

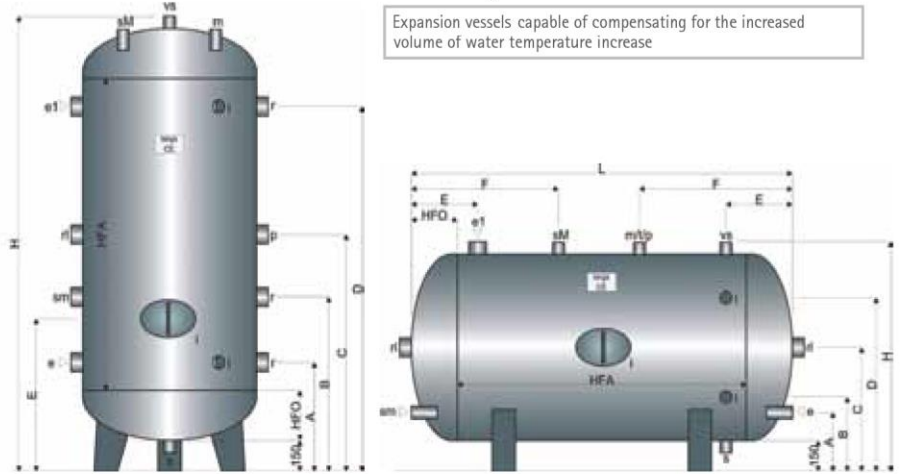
P.E.D. tested expansion vessels 12 bar 200°C
Serie VE / VE Series

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
rl	Level regulator
i	Manhole
e	Water superheated inlet
e1	Air inlet
sm	Minimum probe
sM	Maximum probe
l	Level
r	Reserve

Application

Expansion vessels capable of compensating for the increased volume of water temperature increase



Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e/vs (")	e1/s/sm (")	l (pn16)	rl/p/r (")	m/sM (")	i (mm)
300	550	175	1000	425	625	825	1225	475	1600	89	1 1/4	1 1/4	dn20	1	1/2	*
500	650	200	1250	450	650	975	1500	500	1900	126	1 1/2	1 1/4	dn20	1	1/2	*
1000	800	240	1700	500	700	1240	1980	640	2430	248	2	1 1/4	dn20	1	1/2	*/**
1500	950	280	1750	550	750	1305	2060	680	2560	340	2 1/2	1 1/4	dn20	1	1/2	100x150
2000	1100	320	1750	605	805	1345	2085	720	2640	450	2 1/2	1 1/4	dn20	1	1/2	100x150
3000	1250	360	2000	720	920	1510	2300	760	2970	623	3	1 1/4	dn20	1	1/2	100x150
4000	1400	410	2000	770	970	1560	2350	810	3070	839	3	1 1/4	dn20	1	1/2	220x320
5000	1450	420	2500	800	1000	1820	2840	820	3590	1007	3	1 1/4	dn20	1	1/2	220x320
6000	1450	420	3000	800	1000	2070	3340	820	4090	1172	3	1 1/4	dn20	1	1/2	220x320
8000	1650	480	3000	870	1070	2130	3390	930	4210	1628	4	1 1/4	dn20	1	1/2	300x400
9000	1650	480	3800	870	1070	2530	4190	930	5010	1896	4	1 1/4	dn20	1	1/2	300x400
10000	1650	480	4000	870	1070	2630	4390	930	5210	1962	4	1 1/4	dn20	1	1/2	300x400
15000	1650	480	6000	870	1070	3630	6390	930	7210	2631	4	1 1/4	dn20	1	1/2	300x400

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	KG	e/vs (")	e1/rs (")	l (pn16)	rl (")	m/sM (")	i (mm)
300	550	175	1000	280	295	425	555	275	575	800	1350	89	1 1/4	1 1/4	dn20	1	1/2	*
500	650	200	1250	295	345	475	605	300	725	900	1650	126	1 1/2	1 1/4	dn20	1	1/2	*
1000	800	240	1700	340	380	550	720	350	990	1050	2180	248	2	1 1/4	dn20	1	1/2	*/**
1500	950	280	1750	395	420	625	830	400	1055	1200	2310	340	2 1/2	1 1/4	dn20	1	1/2	100x150
2000	1100	320	1750	410	450	700	950	455	1075	1350	2390	450	2 1/2	1 1/4	dn20	1	1/2	100x150
3000	1250	360	2000	425	525	775	1025	570	1240	1500	2720	623	3	1 1/4	dn20	1	1/2	100x150
4000	1400	410	2000	460	600	850	1100	620	1290	1650	2820	839	3	1 1/4	dn20	1	1/2	220x320
5000	1450	420	2500	465	625	875	1125	650	1540	1700	3340	1007	3	1 1/4	dn20	1	1/2	220x320
6000	1450	420	3000	465	625	875	1125	650	1790	1700	3840	1172	3	1 1/4	dn20	1	1/2	220x320
8000	1650	480	3000	525	725	975	1225	720	1830	1900	3960	1628	4	1 1/4	dn20	1	1/2	300x400
9000	1650	480	3800	525	725	975	1225	720	2230	1900	4760	1896	4	1 1/4	dn20	1	1/2	300x400
10000	1650	480	4000	525	725	975	1225	720	2330	1900	4960	1962	4	1 1/4	dn20	1	1/2	300x400
15000	1650	480	6000	525	725	975	1225	720	3330	1900	6960	2631	4	1 1/4	dn20	1	1/2	300x400

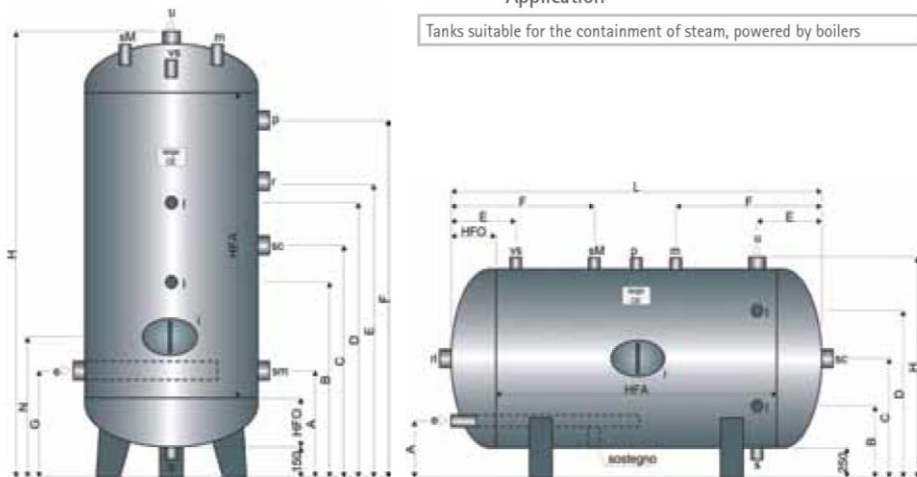
Akkumuleringstank 12 bar P.E.D

P.E.D. tested steam accumulator tanks 12 bar 200°C

Serie AV / AV Series

Application

Tanks suitable for the containment of steam, powered by boilers



Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
sm	Minimum probe
sM	Maximum probe
e	Steam inlet
u	Steam outlet
sc	Condensate discharge
l	Level
rl	Level regulator
r	Reserve

Vertical

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	N (mm)	H (mm)	KG	e/u	l	sc/sm/r (°)	vs	s	m/p/sM (°)	i (mm)
300	550	175	1000	445	695	825	955	1005	1205	445	475	1600	95	Dn40	Dn20	1	Dn25	1 1/4	1/2	100x150
500	650	200	1250	470	805	975	1145	1280	1480	470	500	1900	135	Dn40	Dn20	1	Dn25	1 1/4	1/2	100x150
1000	800	240	1700	590	1070	1240	1410	1690	1890	540	640	2430	270	Dn50	Dn20	1	Dn25	1 1/4	1/2	220x320
1500	950	280	1750	630	1135	1305	1475	1780	1980	580	680	2560	395	Dn65	Dn20	1	Dn40	1 1/4	1/2	220x320
2000	1100	320	1750	720	1175	1345	1515	1770	1970	620	720	2640	545	Dn65	Dn20	1	Dn40	1 1/4	1/2	220x320
3000	1250	360	2000	760	1340	1510	1680	2060	2260	670	760	2970	795	Dn65	Dn20	1	Dn50	1 1/4	1/2	220x320
4000	1400	410	2000	810	1390	1560	1730	2110	2310	800	810	3070	1132	Dn100	Dn20	1	Dn50	1 1/4	1/2	220x320
5000	1450	420	2500	820	1650	1820	1990	2620	2820	810	820	3590	1369	Dn150	Dn20	1	Dn50	1 1/4	1/2	220x320
6000	1450	420	3000	820	1900	2070	2240	3120	3320	810	820	4090	1590	Dn150	Dn20	1	Dn50	1 1/4	1/2	220x320
8000	1650	480	3000	880	1960	2130	2300	3180	3380	880	880	4210	1856	Dn150	Dn20	1	Dn65	1 1/4	1/2	220x320
9000	1650	480	3800	880	2360	2530	2700	3980	4180	880	880	5010	2190	Dn150	Dn20	1	Dn65	1 1/4	1/2	220x320
10000	1650	480	4000	880	2460	2630	2800	4180	4380	880	880	5210	2275	Dn150	Dn20	1	Dn65	1 1/4	1/2	220x320
15000	2000	570	4000	970	2515	2720	2925	4270	4470	990	1020	5390	2910	Dn150	Dn20	1	Dn65	1 1/4	1/2	300x400
20000	2000	570	5500	970	3265	3470	3675	5770	5970	990	1020	6890	3670	Dn150	Dn20	1	Dn65	1 1/4	1/2	300x400

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	KG	e/u	l	sc/rl (°)	vs	s	m/p/sM (°)	i (mm)
300	550	175	1000	380	395	525	655	295	475	900	1350	95	Dn40	Dn20	1	Dn25	Dn25	1/2	100x150
500	650	200	1250	395	445	575	705	320	625	1000	1650	135	Dn40	Dn20	1	Dn25	Dn25	1/2	100x150
1000	800	240	1700	440	480	650	820	440	890	1150	2180	270	Dn50	Dn20	1	Dn25	Dn25	1/2	220x320
1500	950	280	1750	495	555	725	895	480	955	1300	2310	395	Dn65	Dn20	1	Dn40	Dn25	1/2	220x320
2000	1100	320	1750	510	630	800	970	570	995	1450	2390	545	Dn65	Dn20	1	Dn40	Dn25	1/2	220x320
3000	1250	360	2000	525	705	875	1045	610	1080	1600	2720	795	Dn65	Dn20	1	Dn50	Dn25	1/2	220x320
4000	1400	410	2000	560	780	950	1120	660	1130	1750	2820	1132	Dn100	Dn20	1	Dn50	Dn25	1/2	220x320
5000	1450	420	2500	585	805	975	1145	670	1370	1800	3340	1369	Dn100	Dn20	1	Dn50	Dn25	1/2	220x320
6000	1450	420	3000	585	805	975	1145	670	1620	1800	3840	1590	Dn150	Dn20	1	Dn50	Dn25	1/2	220x320
8000	1650	480	3000	575	905	1075	1245	730	1670	2000	3960	1856	Dn150	Dn20	1	Dn65	Dn32	1/2	220x320
9000	1650	480	3800	575	905	1075	1245	730	1900	2000	4760	2190	Dn150	Dn20	1	Dn65	Dn32	1/2	220x320
10000	1650	480	4000	575	905	1075	1245	730	2000	2000	4960	2275	Dn150	Dn20	1	Dn65	Dn32	1/2	220x320
15000	2000	570	4000	700	1045	1250	1455	820	2090	2350	5140	2910	Dn150	Dn20	1	Dn65	Dn32	1/2	300x400
20000	2000	570	5500	700	1045	1250	1455	820	2840	2350	6640	3670	Dn150	Dn20	1	Dn65	Dn32	1/2	300x400

Ekspansionsbeholder 6 bar P.E.D

P.E.D. tested heat-transmitting oil expansion vessels 6 bar 350°C

Serie VO / VO Series

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Manhole
sf	Spill door
e	Oil inlet
r	Reserve
e1	Air-azote inlet
l	Level
rl	Level regulator
rs	Spill door collector
t	Thermometer

Vertical

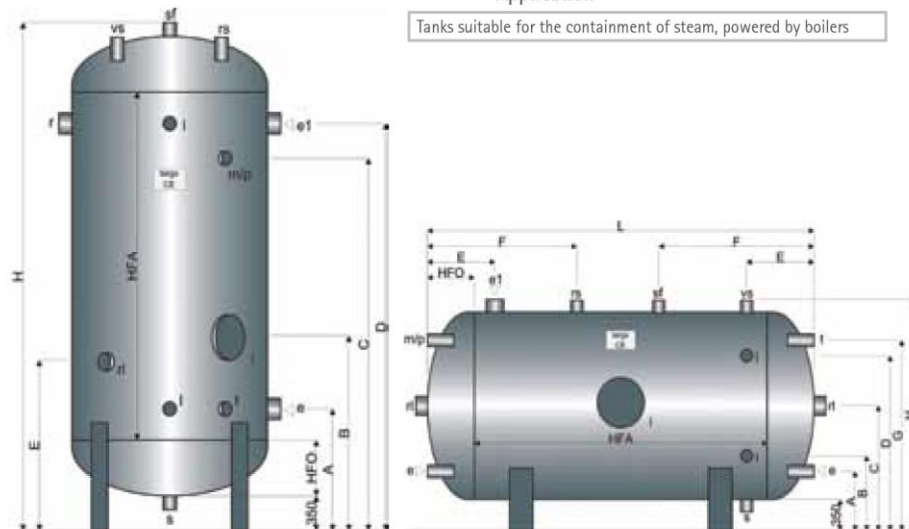
Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	KG	e (pn16)	e1/l/ sf/rs (pn16)	rl (pn16)	vs (pn16)	s (")	m/p/t (")	r (pn16)	i (pn16)
300	500	165	1250	605	915	1615	1675	765	2030	81	Dn32	Dn20	Dn100	Dn25	1 1/2	1/2	Dn15	Dn100
500	650	200	1250	640	1150	1550	1710	800	2100	120	Dn32	Dn20	Dn100	Dn25	1 1/2	1/2	Dn15	Dn150
800	800	240	1250	700	1190	1590	1730	840	2180	192	Dn50	Dn20	Dn100	Dn25	1 1/2	1/2	Dn15	Dn150
1000	800	240	1700	700	1190	2040	2180	840	2630	230	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
1500	950	280	1750	750	1230	2130	2260	880	2760	332	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
2000	1100	310	1750	780	1260	2160	2290	910	2820	412	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
2500	1250	350	1800	840	1300	2250	2360	950	2950	594	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
3000	1250	350	2000	840	1300	2450	2560	950	3150	632	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
4000	1400	390	2000	890	1340	2490	2590	990	3230	837	Dn65	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
5000	1450	410	2500	910	1360	3010	3110	1010	3770	1005	Dn65	Dn20	Dn100	Dn40	1 1/2	1/2	Dn15	Dn150
6000	1450	410	3000	920	1360	3510	3600	1010	4270	1171	Dn65	Dn20	Dn100	Dn40	1 1/2	1/2	Dn15	Dn150
8000	1650	460	3000	970	1410	3560	3650	1060	4370	1594	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn15	Dn150
9000	1650	460	3800	970	1410	4360	4450	1060	5170	1861	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn15	Dn150
10000	1650	460	4000	970	1410	4560	4650	1060	5370	1930	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn15	Dn150
15000	1650	460	6000	1040	1410	6560	6580	1060	7370	2594	Dn100	Dn20	Dn100	Dn80	1 1/2	1/2	Dn15	Dn150

Horizontal

Capacity (litri)	Ø (mm)	HFO (mm)	HFA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	KG	e (pn16)	e1/l/ sf/rs (pn16)	rl (pn16)	vs (pn16)	s (")	m/p/t (")	i (pn16)
300	500	165	1250	430	490	600	710	255	690	950	1580	81	Dn32	Dn20	Dn100	Dn25	1 1/2	1/2	Dn 100
500	650	200	1250	450	545	675	805	290	725	1100	1650	120	Dn32	Dn20	Dn100	Dn25	1 1/2	1/2	Dn 150
800	800	240	1250	480	580	750	920	350	765	1250	1730	192	Dn50	Dn20	Dn100	Dn25	1 1/2	1/2	Dn 150
1000	800	240	1700	480	580	750	920	350	990	1250	2180	230	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
1500	950	280	1750	500	620	825	1030	400	1035	1400	2310	332	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
2000	1100	310	1750	515	650	900	1150	430	1065	1550	2370	412	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
2500	1250	350	1800	590	725	975	1225	490	1130	1700	2500	594	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
3000	1250	350	2000	538	675	975	1275	490	1220	1700	2700	632	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
4000	1400	390	2000	613	750	1050	1350	540	1260	1850	2780	837	Dn65	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
5000	1650	460	1700	605	675	1175	1675	610	1160	2100	2620	1125	Dn65	Dn20	Dn100	Dn40	1 1/2	1/2	Dn 150
6000	1450	410	3000	575	475	1075	1675	570	1760	1900	3820	1171	Dn65	Dn20	Dn100	Dn40	1 1/2	1/2	Dn 150
8000	1650	460	3000	605	675	1175	1675	620	1810	2100	3920	1594	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn 150
9000	1650	460	3800	605	575	1175	1775	620	2210	2100	4720	1861	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn 150
10000	1650	460	4000	605	575	1175	1775	620	2310	2100	4920	1930	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn 150
15000	1650	460	6000	605	575	1175	1775	620	3310	2100	6920	2594	Dn100	Dn20	Dn100	Dn80	1 1/2	1/2	Dn 150

Application

Tanks suitable for the containment of steam, powered by boilers



Possible protective treatments

P.E.D. tested autoclaves
Galvanizing (UNI EN1179)
Anti rust external painting
Teflon internal coating

See at pages 06-09

P.E.D. tested pressurized air tanks
Galvanizing (UNI EN1179)
Anti rust external painting
Teflon internal coating

See at pages 10-12

P.E.D. tested high pressure tanks
Galvanizing (UNI EN1179)
Anti rust external painting
Teflon internal coating

See at pages 13-19

P.E.D. tested expansion vessels
Galvanizing (UNI EN1179)
Anti rust external painting

See at pages 20-22

P.E.D. tested steam accumulator tanks
Galvanizing (UNI EN1179)
Anti rust external painting

See at page 23

P.E.D. tested heat-transmitting oil expansion vessels
Anti rust external painting

See at page 24

Possible external coating
Closedcell elastomeric foam with coloured PVC or aluminium sheet
Flexible polyurethane foam with coloured PVC or aluminium sheet

Tables for classification of pressure vessels

According to the Pressure Equipment Directive 97/23/EC

PRESSURE VESSELS

Type of pressure equipment	Fluid	Temperature (°C)	Refer to table
Tanks and plate heat exchangers	Water	≤110	4
Tanks and plate heat exchangers	Steam or superheated water	>110	2
Tube bundle exchangers	Water	≤110	4
Tube bundle exchangers	Steam or superheated water	>110	2
Steam generator	Steam or superheated water	>110	5
Tanks and plate heat exchangers	Water, ethylene and propylene glycol	≤120	4
Tanks and plate heat exchangers	Water, ethylene and propylene glycol	>120	2
Tanks and plate heat exchangers	Freon and dangerous gas		1
Autoclaves	Azote or other not dangerous gas		2
Autoclaves	Dangerous gas		1

TABLE 1

V (l)	PS (bar)	PS x V (bar.l)	Categoria
0,1 < V ≤ 1	0,5 < PS < 200		Articolo 3 paragrafo 3
0,1 < V < 1	200 < PS ≤ 1000		III
0,1 < V < 1	PS > 1000		IV
1 < V ≤ 50	PS > 0,5	PS x V ≤ 25	Articolo 3 paragrafo 3
1 < V < 100	PS > 0,5	25 < PS x V ≤ 50	I
1 < V < 400	PS > 0,5	50 < PS x V ≤ 200	II
1 < V < 2000	0,5 < PS < 1000	200 < PS x V ≤ 1000	III
V > 1	PS > 0,5	PS x V > 1000	IV

TABLE 2

V (l)	PS (bar)	PS x V (bar.l)	Categoria / Category
$0,1 < V \leq 1$	$0,5 < PS < 1000$		Articolo 3 paragrafo 3
$0,1 < V \leq 1$	$1000 < PS < 3000$		III
$0,1 < V \leq 1$	$PS > 3000$		IV
$1 < V \leq 100$	$PS > 0,5$	$PS \times V \leq 50$	Articolo 3 paragrafo 3
$1 < V \leq 400$	$PS > 0,5$	$50 < PS \times V \leq 200$	I
$1 < V < 750$	$PS > 0,5$	$1000 < PS \times V \leq 3000$	III
$1 < V \leq 750$	$PS > 0,5$	$PS \times V > 3000$	IV
$V > 750$	$0,5 < PS < 4$		III
$V > 750$	$PS > 4$		IV
$1 < V \leq 2000$	$PS > 0,5$	$200 \leq PS \times V \leq 1000$	II

TABLE 3

V (l)	PS (bar)	PS x V (bar.l)	Categoria / Category
$0,1 < V \leq 1$	$0,5 < PS < 500$		Articolo 3 paragrafo 3
$0,1 < V \leq 1$	$PS > 500$		II
$V > 1$	$200 < PS \leq 500$		II
$V > 1$	$PS > 500$		III
$V > 20$	$0,5 < PS \leq 10$	$PS \times V > 200$	I
$1 < V \leq 400$	$PS > 0,5$	$PS \times V \leq 200$	Articolo 3 paragrafo 3
$V > 1$	$10 < PS \leq 200$	$PS \times V > 200$	II

TABLE 4

V (l)	PS (bar)	PS x V (bar.l)	Categoria / Category
$0,1 < V \leq 10$	$10 < PS < 1000$		Articolo 3 paragrafo 3
$0,1 < V < 10$	$PS > 1000$		I
$V > 0,1$	$0,5 < PS \leq 10$		Articolo 3 paragrafo 3
$V \geq 10$	$PS > 1000$		II
$10 < V < 20$	$500 < PS \leq 1000$	$PS \times V > 10000$	II
$10 < V < 1000$	$PS > 10$	$PS \times V \leq 10000$	Articolo 3 paragrafo 3
$V > 20$	$10 < PS \leq 500$	$PS \times V > 10000$	I

TABLE 5

V (l)	PS (bar)	PS x V (bar.l)	Categoria
$0,1 < V \leq 2$	$PS > 0,5$		Articolo 3 paragrafo 3
$2 < V < 100$	$0,5 < PS < 25$	$PS \times V \leq 50$	I
$V > 2$	$25 < PS < 32$	$PS \times V \leq 200$	II
$V > 2$	$PS > 32$		IV
	$0,5 < PS < 25$	$50 < PS \times V \leq 200$	II
	$3 \leq PS \leq 32$	$PS \times V > 3000$	IV
$V < 1000$	$0,5 < PS < 32$	$200 < PS \times V \leq 3000$	III
$V > 1000$	$0,5 < PS < 3$		IV



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