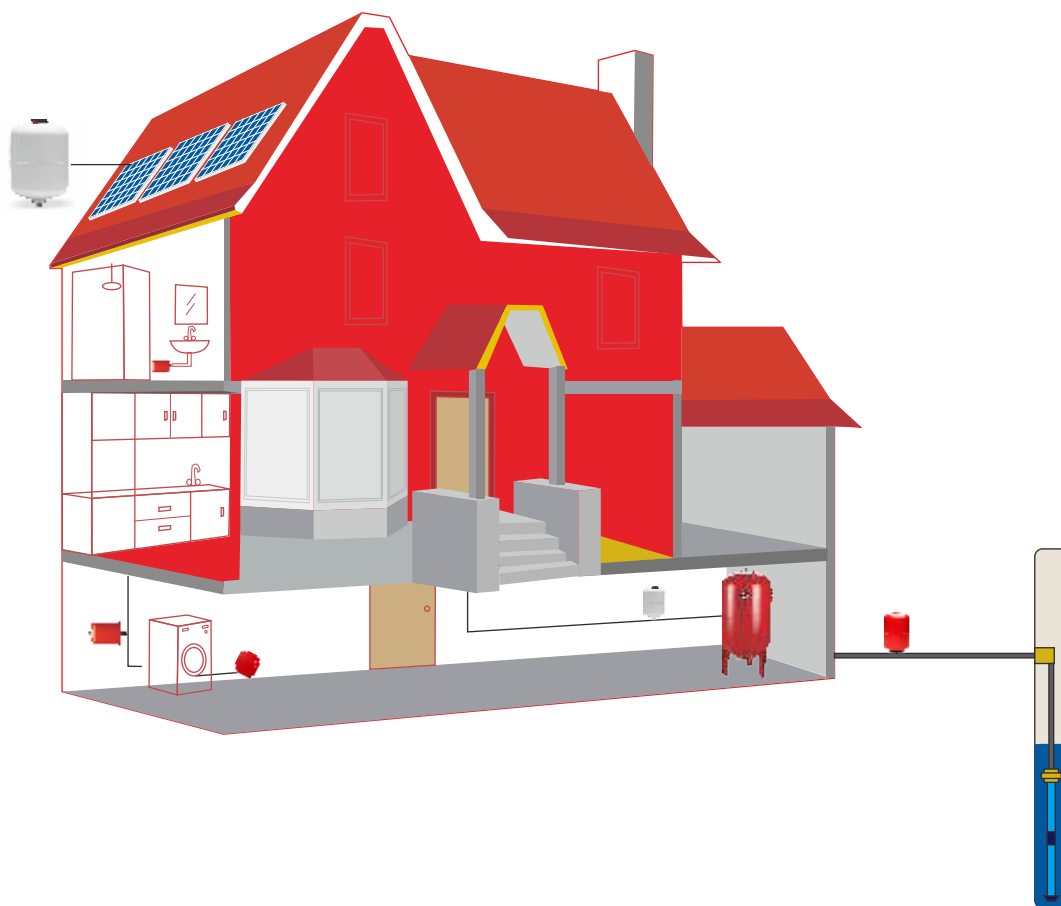




PRESSURE TANK

The Applications Scheme of Expansion Tank in House

To accommodate all requirements from market, including water system, heating system, irrigation system, water hammer arresting etc., Yuanhua supply a wide range expansion tanks for different applications, the volume from 0.16L to 500L and the working pressure from 3bar to 16bar.

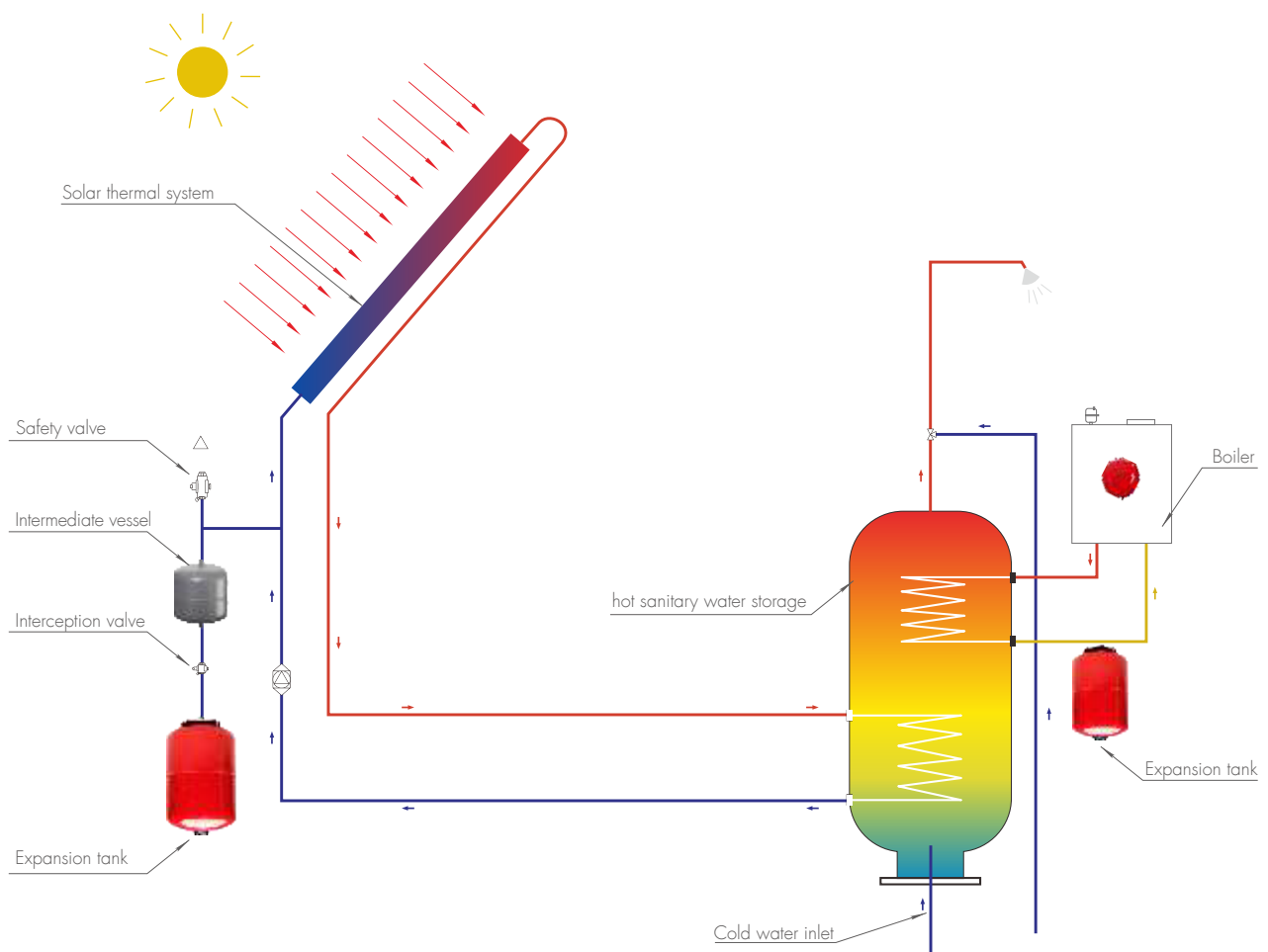




With expansion tank the benefits we can get

- Reach the goal of energy conservation and emission reduction
- Extend the pump life by reducing the operating frequency
- Protect against heat expansion damage to pump body
- Protect against water hammer damage to pump body and impeller
- Reduce the noise from unnecessary pump start and stop times
- Eliminate motor burn outs by reducing the operating frequency

Heating & Solar System Scheme





(Pressure Gauge Upon Request)



(With guage for reference)

Specification

Replaceable membrane Expansion Tank carbon steel
 Working temperature:
 Butyl:-10°C/99°C
 Epdm:-10°C/99°C

Model	MAX-Pressure(bar)	Diameter(mm)	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
36 VT	6/8/10	350	600	1"	1.8-2.0	0.0723
50 VT	6/8/10/16	350	710	1"	1.8-2.0	0.0868
60 VT	6/8/10/16	380	800	1"	1.8-2.0	0.1316
80 VT	6/8/10/16	450	750	1"	1.8-2.0	0.1539
100 VT	6/8/10/16	450	835	1"	1.8-2.0	0.1701
200 VT	10/16	628	1080	1 1/2"	2.5/4.0	0.4682
300 VT	10/16	628	1360	1 1/2"	2.5/4.0	0.5831
500 VT	10/16	790	1465	1 1/2"	2.5/4.0	0.9344



(Pressure Gauge Upon Request)



(Pressure Gauge Upon Request)

Specification

Replaceable membrane Expansion Tank carbon steel
 Working temperature:
 Butyl: -10°C/99°C
 Epdm: -10°C/99°C

Model	MAX-Pressure(bar)	Diameter(mm)	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
60 NVT	6/8/10/16	380	728	1"	1.8-2.0	0.1126
80 NVT	6/8/10/16	450	685	1"	1.8-2.0	0.1481
100 NVT	6/8/10/16	450	765	1"	1.8-2.0	0.1650
60 WVT	6/8/10/16	380	835	1"	1.8-2.0	0.1381
80 WVT	6/8/10/16	450	785	1"	1.8-2.0	0.1600
100 WVT	6/8/10/16	450	870	1"	1.8-2.0	0.1782
150 WVT	10/16	500	1135	1"	2.5/4.0	0.3023
200 WVT	10/16	628	1080	1 1/2"	2.5/4.0	0.4682
300 WVT	10/16	628	1360	1 1/2"	2.5/4.0	0.5831
500 WVT	10/16	790	1465	1 1/2"	2.5/4.0	0.9344



Specification

Replaceable membrane expansion tank carbon steel

Working temperature:

Butyl:-10°C/99°C

Epdm:-10°C/99°C

Naturalrubber: 0°C/77°C

Model	MAXPressure(bar)	Diameter(mm)	Height(mm)	Connector	Prechargepressure(bar)	Packing(cbm)
36 RVT	6/8/10	350	455	1"	1.8-2.0	0.0633
50 RVT	6/8/10	350	565	1"	1.8-2.0	0.0779
80 RVT	6/8/10/16	450	620	1"	1.8-2.0	0.1354
100 RVT	6/8/10/16	450	705	1"	1.8-2.0	0.1534



Specification

Replaceable membrane expansion tank carbon steel

Working temperature:

Butyl:-10°C/99°C

Epdm:-10°C/99°C

Naturalrubber: 0°C/77°C

Model	MAXPressure(bar)	Diameter(mm)	Height(mm)	Connector	Prechargepressure(bar)	Packing(cbm)
3 VT	6/8/10	170	235	1"	1.8-2.0	0.0081
4 VT	6/8/10	155	302	1"	1.8-2.0	0.0077
5 VT	6/8/10	170	275	1"	1.8-2.0	0.0088
8 VT	6/8/10	200	328	1"	1.8-2.0	0.0140
12 VT	6/8/10/16	270	305	1"	1.8-2.0	0.0233
19 VT	6/8/10/16	270	395	1"	1.8-2.0	0.0321
24 VT	6/8/10/16	270	460	1"	1.8-2.0	0.0361

WATER SYSTEM

The expansion tank is a basic element for a long lasting and efficiency water distribution system. The expansion tank stores the pressurized water of the booster systems working as hydrodynamic flywheel during drawing.

The application reduces the ON/OFF switching frequency of the booster system. A pressure adjusts the internal pressure and activates the pump only if the water pressure in the tank is lower than the minimum required.

Switching on, the pump start working again to fill the tank with water.





Specification

Replaceable membrane expansion tank carbon steel
 Working temperature:
 Butyl: -10°C/99°C
 Epdm: -10°C/99°C
 Natural rubber: 0°C/77°C

Model	MAX-Pressure(bar)	Length	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
19 CF	6/8/10/16	395	292	1"	1.8-2.0	0.0356
24 CF	6/8/10/16	460	292	1"	1.8-2.0	0.0399
36 CF	6/8/10	435	375	1"	1.8-2.0	0.0588
50 CF	6/8/10	545	375	1"	1.8-2.0	0.0752
60 CF	6/8/10/16	645	408	1"	1.8-2.0	0.1082
80 CF	6/8/10/16	600	470	1"	1.8-2.0	0.1325
100 CF	6/8/10/16	685	470	1"	1.8-2.0	0.1524



Specification

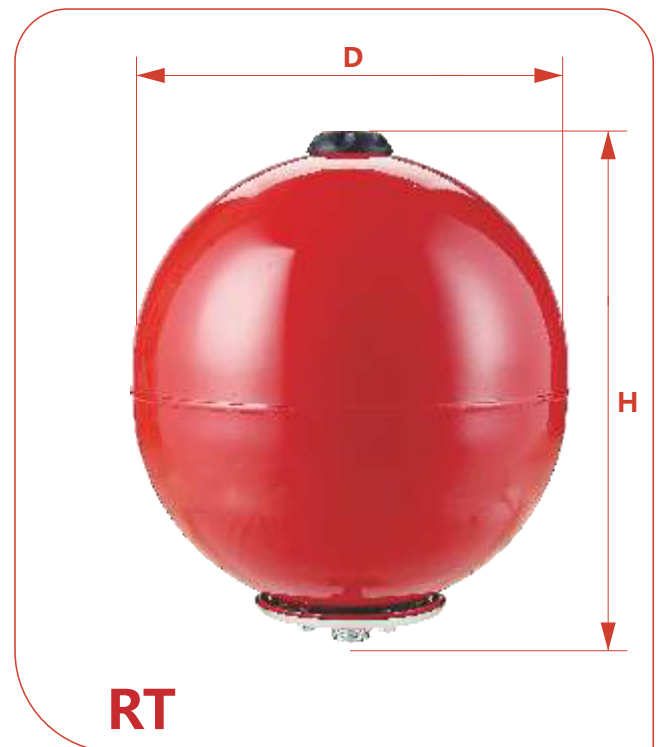
Replaceable membrane expansion tank carbon steel

Working temperature:

Butyl: -10°C/99°C

Epdm: -10°C/99°C

Model	MAX-Pressure(bar)	Length	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
60 NCF	6/8/10/16	665	408	1"	1.8-2.0	0.1031
80 NCF	6/8/10/16	618	470	1"	1.8-2.0	0.1325
100 NCF	6/8/10/16	705	470	1"	1.8-2.0	0.1524
60 WCF	6/8/10/16	680	408	1"	1.8-2.0	0.1054
80 WCF	6/8/10/16	640	470	1"	1.8-2.0	0.1398
100 WCF	6/8/10/16	725	470	1"	1.8-2.0	0.1616
150 WCF	10/16	980	532	1 "	2.5/4.0	0.2803
200 WCF	10/16	912	660	1 1/2"	2.5/4.0	0.4134
300 WCF	10/16	1192	660	1 1/2"	2.5/4.0	0.5353



Specification

Replaceable membrane expansion tank carbon steel
 Working temperature:
 Butyl: -10°C/99°C
 Epdm: -10°C/99°C
 Natural rubber: 0°C/77°C

Model	MAX-Pressure(bar)	Diameter(mm)	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
24 SF	6/8	330	335	1"	1.8-2.0	0.0405
25 SF	6/8	350	325	1"	1.8-2.0	0.0441
26 SF	6/8	360	365	1"	1.8-2.0	0.0520
24 RT	6/8	350	390	1"	1.8-2.0	0.0525



HEATING SYSTEM

The main purpose of an expansion tank used in heating system makes available volume for water dilation due to temperature increments.

For example, the water heating up from 0°C to 100°C increases its volume of about 4.5%. This means there should be a space inside the system that can keep the exceeding water volume.

This space is the expansion tank which keep the system safe to dangerous pressure variations

HEATING SYSTEM

Expansion tank makes available the volume for
 water dilation due to temperature increments
 Keep the system safe to dangerous pressure variations.



Specification

Fixed diaphragm membrane expansion tank carbon steel
 Max.Working pressure:3bar
 Working temperature:
 Epdm:-10°C/99°C
 Precharge:1.0bar

Model	MAX-Pressure(bar)	Diameter(mm)	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
6 FT	3	325	105	3/4"	1.0	0.0680/5PCS
8 FT	3	325	130	3/4"	1.0	0.0882/5PCS
10 FT	3	325	150	3/4"	1.0	0.0998/5PCS
12 FT	3	325	170	3/4"	1.0	0.1066/5PCS

Specification

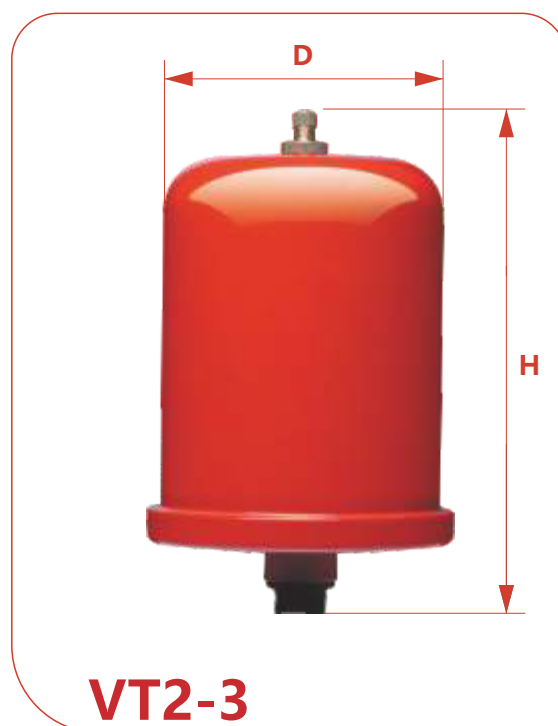
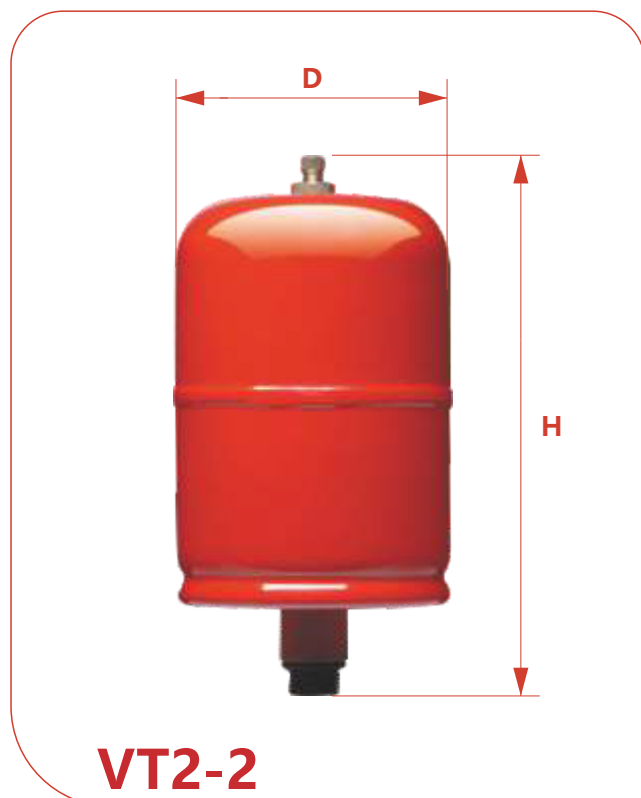
Fixed diaphragm membrane expansion tank carbon steel

Max.Working pressure:3.5bar

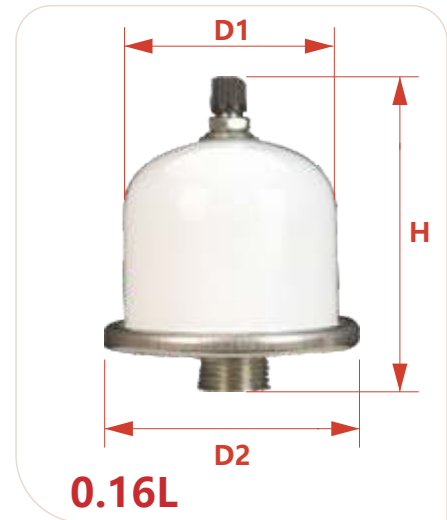
Working temperature:

Epdm:-10°C/99°C

Precharge:1.5bar



Model	MAX-Pressure(bar)	Diameter(mm)	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
6 VT2	3.5	110	222	1/2"	1.5	0.0625/20PCS
8 VT2	3.5	106/116	192	1/2"	1.5	0.0520/20PCS



Specification

Fixed membrane expansion tanks carbon steel
 Stainless steel flange
 Working temperature:-10°C/+99°C

(Hexagonal flange upon request)
 (Steel flange upon request)

Model	MAX·Pressure(bar)	Diameter(mm)	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
0.16 VT-XY	8	65/79	105	1/2"	3.5	0.0309/30PCS
2 VT-XY	8/10	124	240	1/2"	3.5	0.0896/20PCS
4 VT-XY	8/10	155	298	3/4"	3.5	0.0079
5 VT-XY	8/10	170	270	3/4"	3.5	0.0088
8 VT-XY	8/10	200	330	3/4"	3.5	0.0140
12 VT-XY	8/10	270	295	3/4"	3.5	0.0233
19 VT-XY	8/10	270	395	3/4"	3.5	0.0321
24 VT-XY	8/10	270	460	3/4"	3.5	0.0361
36 VT-XY	8/10	350	435	3/4"	3.5	0.0539
50 VT-XY	8/10	350	550	3/4"	3.5	0.0759



(Pressure Gauge Upon Request)

Specification

Replaceable membrane pressure tanks stainless steel

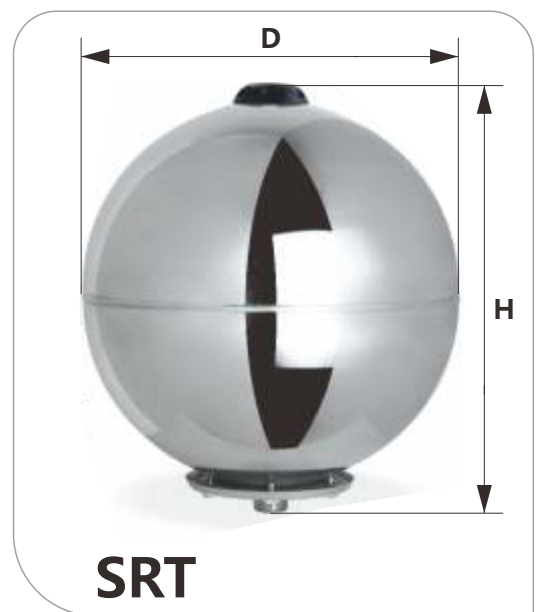
Working temperature:

Butyl: -10°C/99°C

Epdm: -10°C/99°C

Natural rubber: 0°C/77°C

Model	MAX-Pressure(bar)	Diameter(mm)	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
SVT 3L	6/8/10	170	235	1"	1.8-2.0	0.0081
SVT 5L	6/8/10	170	275	1"	1.8-2.0	0.0088
SVT 8L	6/8/10	200	328	1"	1.8-2.0	0.0140
SVT 19L	6/8/10	270	395	1"	1.8-2.0	0.0321
SVT 24L	6/8/10	270	460	1"	1.8-2.0	0.0361
STVT 36L	6/8/10	350	600	1"	1.8-2.0	0.0723
STVT 50L	6/8/10	350	710	1"	1.8-2.0	0.0870
STVT 60L	6/8/10	380	805	1"	1.8-2.0	0.1316
STVT 80L	6/8/10	450	750	1"	1.8-2.0	0.1539
STVT 100L	6/8/10	450	835	1"	1.8-2.0	0.1701



Specification

Replaceable membrane pressure tanks stainless steel

Working temperature:

Butyl: -10°C/99°C

Epdm: -10°C/99°C

Natural rubber: 0°C/77°C

Model	MAX.Pressure(bar)	Length(mm)	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
SCF 19L	6/8/10	395	292	1"	1.8-2.0	0.0356
SCF 24L	6/8/10	460	292	1"	1.8-2.0	0.0399
SCF 36L	6/8/10	435	375	1"	1.8-2.0	0.0588
SCF 50L	6/8/10	545	375	1"	1.8-2.0	0.0752
SCF 60L	6/8/10	645	408	1"	1.8-2.0	0.1082
SCF 80L	6/8/10	600	470	1"	1.8-2.0	0.1325
SCF 100L	6/8/10	685	470	1"	1.8-2.0	0.1524

Model	MAX.Pressure(bar)	Diameter(mm)	Height(mm)	Connector	Precharge pressure(bar)	Packing(cbm)
SRT 24L	6/8	350	390	1"	1.8-2.0	0.0447



Give you the
best life experience

FEATURES:

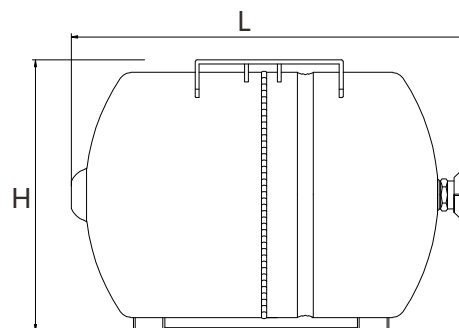
- Single Butyl diaphragm design
- Stainless steel connection
- Polypropylene liner
- Leak free,o-ring sealed in valve cap
- Maintenance free and longer life
- Complete separation between water and air



POPYPROPYLENE LINNER AND BUTYL
DIAPHRAM ARE HELD AGAINST TANK WALL WITH A STEEL CLENCH RING
ABRASION AREA ARE BOTH REINFORCED FOR LONGER LIFE



ET-LH



Specification

Constructed of a polypropylene liner combined with butyl diaphragm

Max. Working Pressure: 10Bar

Max. Working Temperature: 90°C

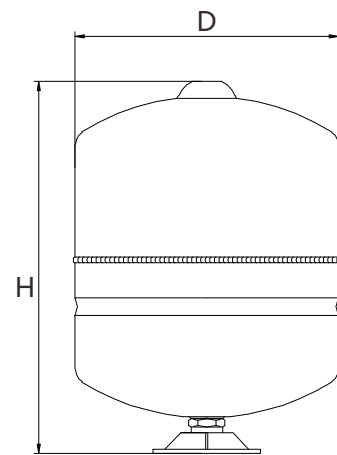
Connector Material: Stainless steel

Standard Connector: 1"

Model	Diameter(mm)	Height(mm)	Length	Connector	Precharge pressure(bar)	Packing(cbm)
8 ET-H	200	230	315	1"	1.8-2.0	0.0181
18 ET-H	278	309	367	1"	1.8-2.0	0.0380
24 ET-H	290	321	447	1"	1.8-2.0	0.0496
35 ET-H	318	353	478	1"	1.8-2.0	0.0631
60 ET-H	390	425	530	1"	1.8-2.0	0.1005
80 ET-H	390	425	726	1"	1.8-2.0	0.1367
100 ET-H	430	475	720	1"	1.8-2.0	0.1652



ET-LX



Specification

Constructed of a polypropylene liner combined with butyl diaphragm

Max. Working Pressure: 10Bar

Max. Working Temperature: 90°C

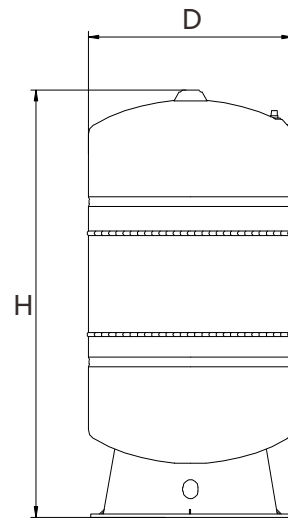
Connector Material: Stainless steel

Standard Connector: 1"

Model	Diameter(mm)	Height(mm)	Length	Connector	Precharge pressure(bar)	Packing(cbm)
2 ET-X	125	210	125	1"	1.8-2.0	0.0105
4 ET-X	162	260	162	1"	1.8-2.0	0.0160
8 ET-X	200	315	200	1"	1.8-2.0	0.0170
18 ET-X	278	372	278	1"	1.8-2.0	0.0350
24 ET-H	290	447	290	1"	1.8-2.0	0.0442
35 ET-X	318	478	318	1"	1.8-2.0	0.0572



ET-LD



Specification

Constructed of a polypropylene liner combined with butyl diaphragm

Max. Working Pressure: 10Bar

Max. Working Temperature: 90°C

Connector Material: Stainless steel

Standard Connector: 1"

Model	Diameter(mm)	Height(mm)	Length	Connector	Precharge pressure(bar)	Packing(cbm)
35 ET-D	318	555	318	1"	1.8-2.0	0.0657
60 ET-D	390	622	390	1"	1.8-2.0	0.1066
80 ET-D	390	815	390	1"	1.8-2.0	0.1386
100 ET-D	430	804	430	1"	1.8-2.0	0.1653

Tank with Accessories

Specification

Replaceable membrane pressure tanks carbon steel

Working temperature:

Butyl: -20°C/99°C

Epdm: -20°C/99°C

Natural rubber: 0°C/77°C



Specification

Replaceable membrane pressure tanks carbon steel

Working temperature:

Butyl: -20°C/99°C

Epdm: -20°C/99°C

Natural rubber: 0°C/77°C



Membrane



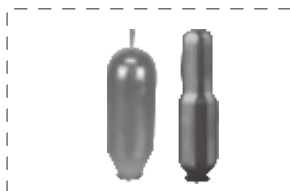
Model	Material
NRM-5L	Natural rubber
ERM-5L	Epdm
BRM-5L	Butyl
NRM-8L	Natural rubber
ERM-8L	Epdm
BRM-8L	Butyl



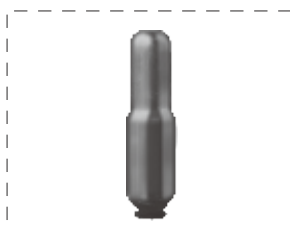
Model	Material
NRM-12L	Natural rubber
ERM-12L	Epdm
BRM-12L	Butyl
NRM-24L	Natural rubber
ERM-24L	Epdm
BRM-24L	Butyl



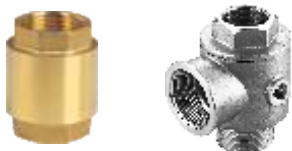
Model	Material
NRM-50L	Natural rubber
ERM-50L	Epdm
BRM-50L	Butyl
NRM-60L	Natural rubber
ERM-60L	Epdm
BRM-60L	Butyl



Model	Material
NRM-100L	Natural rubber
ERM-100L	Epdm
BRM-100L	Butyl



Model	Material
BRM-12L	Butyl
BRM-12L	Butyl
BRM-12L	Butyl
BRM-24L	Butyl

Picture	Model	Description
	3 ways	Length 70mm/80mm N.W. 170g/180g
	5 ways	Length 70mm/80mm/90mm/110mm N.W. 150-170g/190g/170-200-245g 220-260 g
	Check Valve	Material: Brass / Stainless Steel Size: 1" , 1-1/4" , 1-1/2" , 2"
 Axial Radial	Pressure Gauge	Range: 0-10bar/0-16bar/0-25bar Diameter: 50mm Connector: 1/4"
 SK-2 SK-9	Pressure Switch	Monophase / Triphase on request
	Flexible hose	Length: 50cm/60cm/80cm/100cm Special length upon request Connect size: 1/2", 3/4", 1", with elbow, Male-Female
	Wall Bracket	For tank 8L-24L With tightening strap for vertical mounting



**Journey
starts now**

