

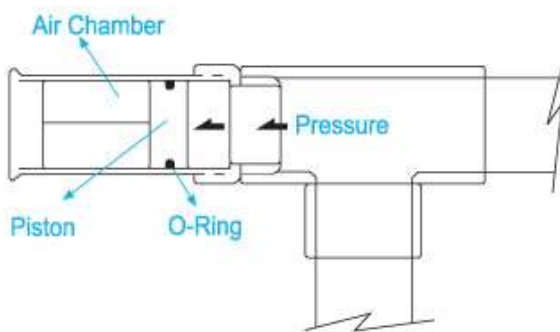
OHO® WATER HAMMER ARRESTER

Water hammering is a pressure wave occurrence created by relatively sudden changes in the liquid velocity. Common occurrence in pipelines is when there's a sudden valve closure or pump shut-off. The closure of valve that leads to sudden stop in fluid's flow can create pressure wave vibrating back and forth in the pipe. During pump shut-off, the pressure decrease instantly and cause unstable pressure gap which can cause water hammering effect, resulting in noise and pipe vibration.

Effects of water hammering are not limited to pipe vibration and unpleasant noise. It can damage pipes, pipe fittings and equipments.

Under these situations, installing one or more sets of **OHO** Water Hammer Arrester will improve the piping system condition. It will absorb water hammering effect, resulting in greatly reduced vibration, noise and ultimately helps to prevent damage to your piping system.

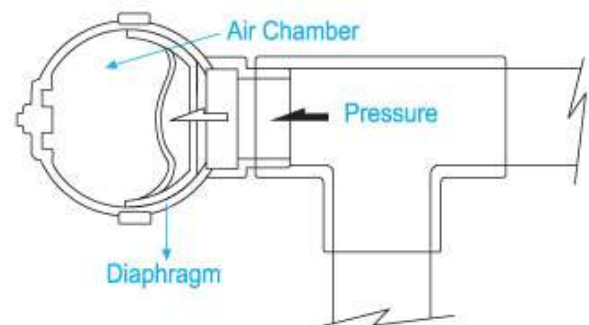
Conventional Cylinder Type Water Hammer Arrester



The conventional water hammer arrester make use of piston's forward-backward movement and pressurized air chamber principal to absorb water hammer effect.

The piston and O-ring of conventional cylinder type water hammer arrester are easy to be worn out and damaged because of friction under front-back movement. The damaged O-ring could result in air chamber and arrester will lose its function.

OHO Water Hammer Arrester

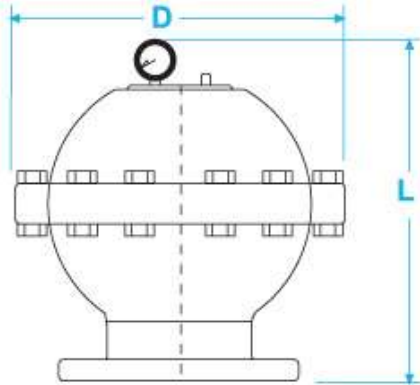


OHO water hammer arrester use diaphragm to form pressurized air chamber to absorb water hammering. The airbag adopts the ball-pressing design, which without friction, less function progress, prompt and quick response. In addition, the life of the arrester will be increased several times.

The air chamber diaphragm of **OHO** water hammer arrester works like an airbag and no friction. In results, direct absorption of pressure and much longer lifespan. To prevent leakage, the pressurized air chamber is covered by permeating prevention rubber.

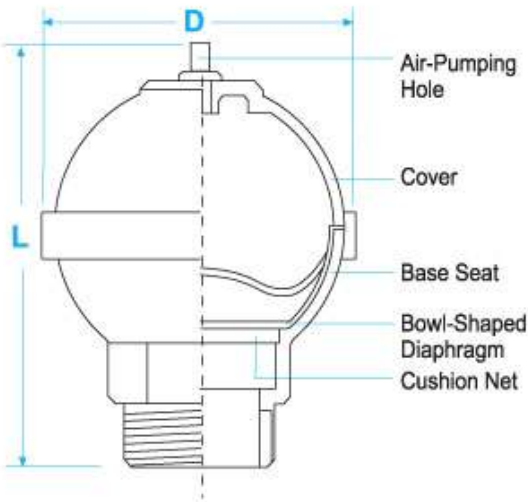
OHO® I STYLE WATER HAMMER ARRESTER

- Standard diaphragm material: EPDM
- Diaphragm material can be accustomed to fluid
- Specification for size above 12" is available on request
- Threaded ends to BSP or NPT.
- Flanged ends to ANSI, JIS and BS standards



I Style Flanged End

MATERIAL	TEST PRESSURE	MAX. APPLIED PRESSURE
Bronze	21 Bar	12 Bar
Ductile Iron	21 Bar	12 Bar
Stainless Steel 316	42 Bar	20 Bar



I Style Male Threaded End

MATERIAL	TEST PRESSURE	MAX. APPLIED PRESSURE
Bronze	21 Bar	10 Bar
Stainless Steel 316	21 Bar	12 Bar

I Style Flanged End Dimension

Size	L (mm)	D (mm)	Air Chamber (cm ³)
3"	240	155	2465
4"	330	330	5535
5"	330	330	5535
6"	420	400	15325
8"	510	460	27230
10"	510	460	27230
12"	625	625	67860

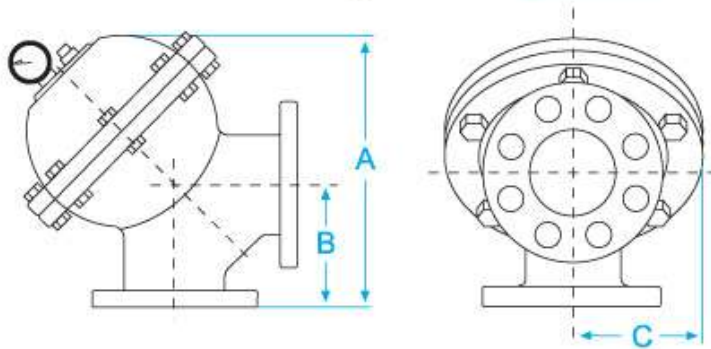
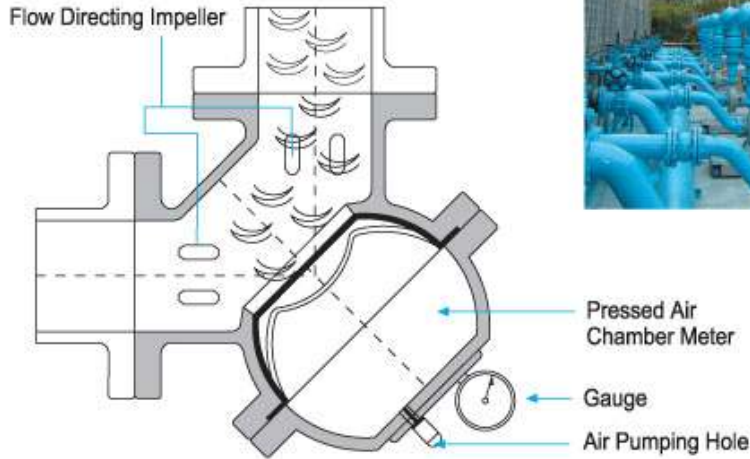
I Style Male Threaded End Dimension

Size	L (mm)	D (mm)	Air Chamber (cm ³)
½"	74	46	17
¾"	82	52	30
1"	95	62	63
1½"	120	110	205
2"	162	135	650
2½"	180	155	1125



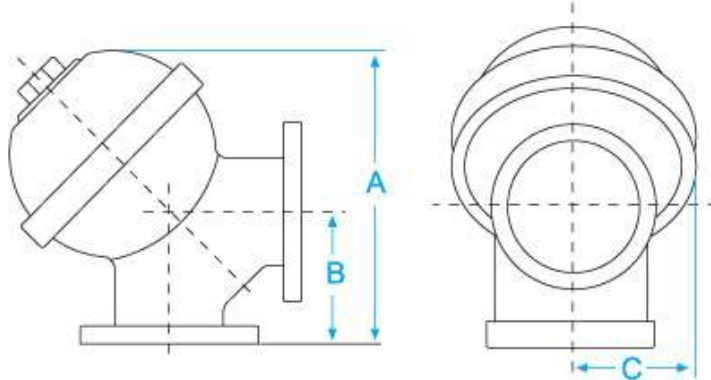
OHO® L STYLE WATER HAMMER ARRESTER

- Standard diaphragm material: EPDM
- Diaphragm material can be accustomed to fluid
- Threaded ends to BSP or NPT.
- Flanged ends to ANSI, JIS and BS standards



L Style Flanged Ends

MATERIAL	TEST PRESSURE	MAX. APPLIED PRESSURE
Bronze	21 Bar	12 Bar
Cast Iron	21 Bar	12 Bar
Stainless	35 Bar	20 Bar
Steel 316		



L Style Female Threaded Ends

MATERIAL	TEST PRESSURE	MAX. APPLIED PRESSURE
Bronze	21 Bar	12 Bar
Stainless	35 Bar	20 Bar
Steel 316		

L Style Flanged Ends Dimension

Size	A (mm)	B (mm)	C (mm)	Air Chamber (cm ³)
2"	230	110	105	1490
2½"	260	130	115	2130
3"	275	140	125	2465
4"	345	155	150	5535
6"	467	200	200	15325
8"	560	235	232	27230

L Style Threaded Ends Dimension

Size	A (mm)	B (mm)	C (mm)	Air Chamber (cm ³)
½"	50	25	25	17
¾"	65	30	30	30
1"	80	35	35	65
1¼"	95	43	45	130
1½"	115	50	50	250
2"	170	110	68	650