



WATER HAMMER ARRESTER

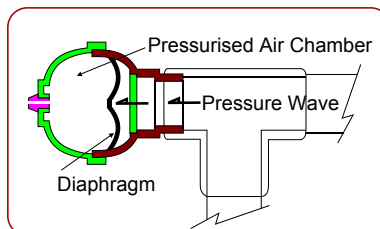
I STYLE SCREWED OR FLANGED



P14

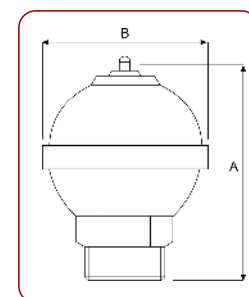
DESCRIPTION

- Installation in any position.
- Suitable for water, air etc.
- Special model for acid/alkaline or light oils.
- Air chamber inflated to 2.5 Bar.
- Diaphragm: NBR
- Screwed port connection:
1/2" - 4" BSP / NPT
- Flanged connection:
3" - 12" PN16, ANSI
- Body materials:
Bronze, Ductile Iron, 316 Stainless Steel



SPECIFICATIONS & DIMENSIONS

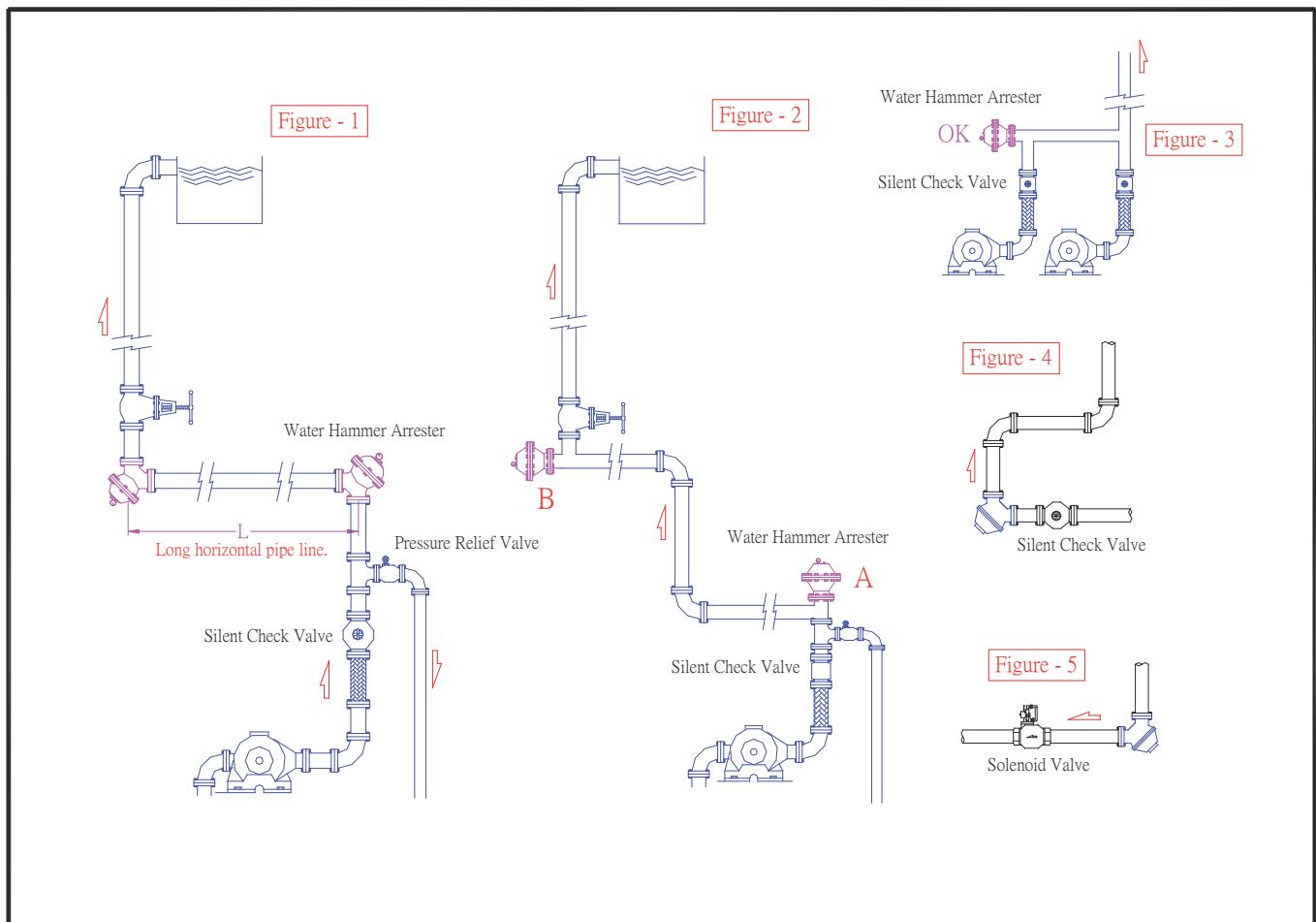
Model with Screwed Port Connection				Test Pressure Bar*/**	Max. Applied Pressure Bar */**/**	Air Chamber (cm ³)	Weight Kg	Dimensions mm	
A	B	C	A					B	
P14	15	F	1/2"	21/21	10/12	17	0.3	74	46
P14	20	H	3/4"	21/21	10/12	30	0.4	82	52
P14	25	L	1"	21/21	10/12	63	0.5	95	62
P14	40	O	1 1/2"	21/21	10/12	205	1.4	120	110
P14	50	P	2"	21/21	10/12	650	3.2	162	135
P14	65	Q	2 1/2"	21/21	10/12	1125	3.9	180	155
P14	80	R	3"	21/21	10/12	2000	6.5	218	188
P14	100	S	4"	21/21	10/12	4400	18	260	235
Model with Flanged Connection				* Bronze ** Stainless Steel *** Ductile Iron					
P14	80	FL	3"	21/42/21	12/20/12	2465	23	240	155
P14	100	FL	4"	21/42/21	12/20/12	5535	34	330	330
P14	125	FL	5"	21/42/21	12/20/12	5535	34	330	330
P14	150	FL	6"	21/42/21	12/20/12	15325	59	420	400
P14	200	FL	8"	21/42/21	12/20/12	27230	90	510	460
P14	250	FL	10"	21/42/21	12/20/12	27230	115	510	460
P14	300	FL	12"	21/42/21	12/20/12	67860	175	620	625



ORDER CODES

A	Body	B	Ported Body			Flanged Body: FL...			C	Seals (fluid temp. min / max)			
T	Bronze	F	1/2" BSP	G	1/2" NPT	Q	2 1/2" BSP	2A	2" PN16	6A	6" PN16	0	NBR (-10°C to + 80°C)
D	Ductile Iron	H	3/4" BSP	I	3/4" NPT	R	3" BSP	25A	2 1/2" PN16	8A	8" PN16		
I	Stainless Steel	L	1" BSP	M	1" NPT	S	4" BSP	3A	3" PN16	10A	10" PN16		
		O	1 1/2" BSP	V	1 1/2" NPT			4A	4" PN16	12A	12" PN16		
		P	2" BSP	W	2" NPT			5A	5" PN16				

Installation of Water Hammer Arrester



- Figure 1. This illustrates, the water hammer effect taking place above a check valve so installing a water hammer arrester can prevent the water hammer effect. If the length of horizontal pipe is longer than 50 meter in the figure 1, installing a water hammer arrester at the corner between the horizontal pipe and vertical pipe can avoid the water hammer effect.
- Figure 2. If the distance between A and B is longer than 50 meter, installing a water hammer arrester at B can reduce the water hammer effect.
- Figure 3. Two pumps are used alternately, installing a water hammer arrester on horizontal pipe can avoid water hammer effect.
- Figure 4. Here is a pipe line with a serious water hammer effect, due to the many bends. Installing a check valve at the lowest point and installing a water hammer arrester above check valve can reduce the noise and vibration made by the water hammer effect.
- If there are gate valves like solenoid valves or air operated valves which close very fast and produce the water hammer effect, installing a water hammer arrester at the inlet of the valve can reduce the noise and vibration made by the water hammer effect.

The air chamber is pressurised by means of a Schrader Type Valve, similar to those found on a car or bicycle tyre.

Standard pressure is around 2.5 - 3 bar (36-44 psi)

A standard bicycle or car pump, preferably with a gauge fitted, can be used to top up the pressure.

The pressure should be checked every 6 months.

