



WATER HAMMER ARRESTER

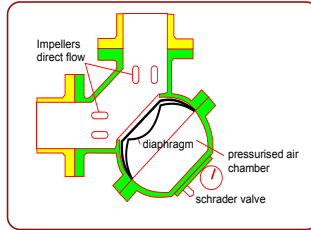
L STYLE SCREWED OR FLANGED



P12

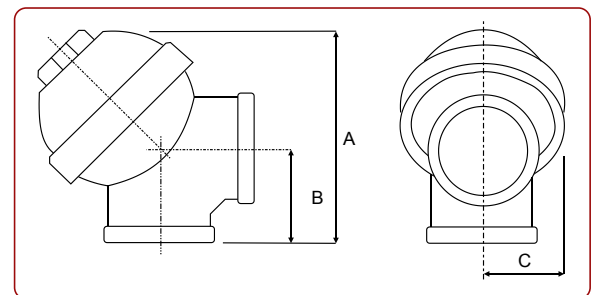
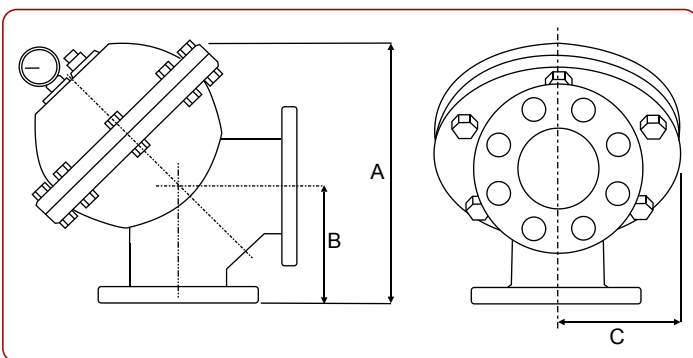
DESCRIPTION

- Installation in any position.
- Suitable for water, air etc.
- Special model for acid/alkaline or light oils.
- Air chamber inflated to 2.5 Bar as standard.
- Diaphragm: NBR
- Screwed port connection: 1/2" - 1", 1 1/2" - 2" BSP / NPT
- Flanged connection: 2" - 8" PN16, ANSI
- Body materials: Bronze, Cast Iron, 316 Stainless Steel



SPECIFICATIONS & DIMENSIONS

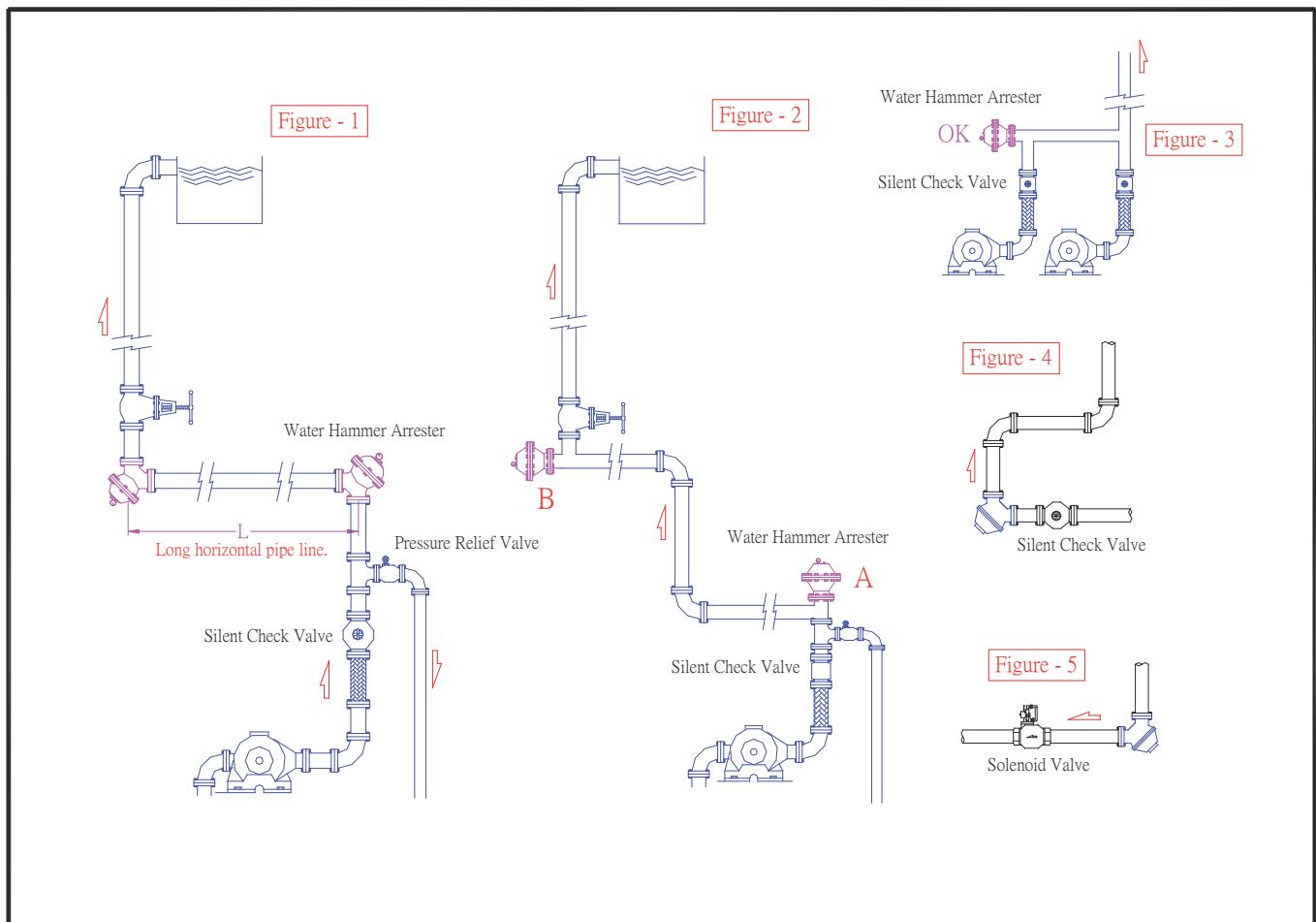
Model with Screwed Port Connection					Test Pressure Bar**/**	Max. Applied Pressure Bar */**/**	Air Chamber (cm ³)	Weight Kg	Dimensions mm		
A	B	C	A	B					C		
P12	15	F/G	1/2"	21/35	12/12/20	17	0.4	50	25	25	
P12	20	H/I	3/4"	21/35	12/12/20	30	0.5	65	30	30	
P12	25	L/M	1"	21/35	12/12/20	63	0.7	80	35	35	
P12	40	O/V	1 1/2"	21/35	12/12/20	205	1.5	115	50	50	
P12	50	P/W	2"	21/35	12/12/20	650	4.0	170	110	68	
Model with Flanged Connection											
P12	50	FL2A	2"	21/35	12/12/20	1490	17.0	230	110	105	
P12	65	FL25A	2 1/2"	21/35	12/12/20	2130	19.0	260	130	115	
P12	80	FL3A	3"	21/35	12/12/20	2465	22.0	275	140	125	
P12	100	FL4A	4"	21/35	12/12/20	5535	34.0	345	155	150	
P12	150	FL6A	6"	21/35	12/12/20	15325	70.0	467	200	200	
P12	200	FL8A	8"	21/35	12/12/20	27230	95.0	560	235	232	



ORDER CODES

A	Body Material	B	Ported Body	B	Flanged Port	C	Seals (fluid temp min / max)
T	Bronze	F	1/2" BSP	G	1/2" NPT	2A	2" PN16
C	Cast Iron	H	3/4" BSP	I	3/4" NPT	25A	2 1/2" PN16
I	Stainless Steel	L	1" BSP	M	1" NPT	3A	3" PN16
		O	1 1/2" BSP	V	1 1/2" NPT	4A	4" PN16
		P	2" BSP	W	2" NPT	6A	6" PN16
						8A	8" PN16
						0	NBR (-10°C to +80°C)

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.

