PURPLE VALVES
Purple Engineering

Y900P

Y900P TYPE WATER HAMMER REMOVER

Structural Features and Applications

This valve adopts a piston-bladder design with a sealed air chamber inside and a piston at the lower end. When a shock wave enters the water hammer arrestor, the water hammer wave acts on the piston, pushing it toward the air chamber. Driven jointly by the pressurized gas and the irregular water hammer wave, the piston moves up and down to reach a dynamic equilibrium, thereby eliminating irregular water hammer oscillations.

Main Technical Parameters

Nominal pressure PN(MPa)		1.6	2.5
Test pressure (MPa)	Shell test	3.2	5.0
	Seal test	1.8	2.8
Permitting closure piping pressure (Share of the piping pressure, percent)		50~70%	
Applicable media		Water	
Applicable temperature		≤80℃	

Main External and Connection Dimensions

Nominal diameter DN(mm)	Nominal pressure PN(MPa)	L	D	D_1	D_2
15	1.6	200	95	65	45
20		300	105	75	55
25		320	115	85	65
32		340	135	100	78
40		350	145	110	85
50		365	160	125	100
65		465	180	160	120
80		510	195	160	135
100		575	215	210	155
125		600	245	210	185
150		645	280	240	210
200		730	335	295	265
250		820	405	355	320
300		920	460	410	375
15	2.5	220	95	65	45
20		320	105	75	55
25		340	115	85	65
32		355	135	100	78
40		380	145	110	85
50		385	160	125	120
65		485	180	145	120
80		520	195	160	135
100		585	230	190	160
125		600	270	220	188
150		645	300	250	218
200		755	360	310	278
250		855	425	370	332
300		955	485	430	390

Schematic Structural Diagram