

Structural Features and Applications

The Anti-Explosion Wave Valve is a safety valve designed to protect water supply systems and civil defense facilities from destructive shock waves. Installed at the inlet or outlet of pipelines, it combines shock wave resistance and pressure relief mechanisms to prevent blast waves from traveling through the pipeline, ensuring the safe and reliable operation of connected equipment and infrastructure.

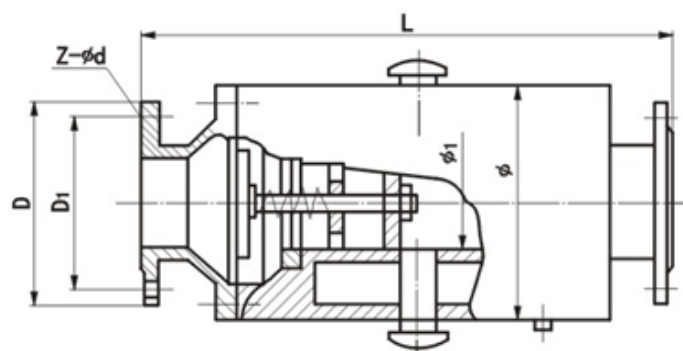
Main Technical Parameters

Nominal Pressure PN (MPa)	1.0	1.6
Working Pressure (MPa)	0.2 ~ 0.6	0.4 ~ 0.8
Body Shell Pressure (MPa)	1.5	2.4
Strength Test Pressure (MPa)	2.5	3.6
Applicable Media	Clean-water, Oil	
Applicable Temperature	0 ~ 80 °C	
Dissolve Wave Efficiency	90%	

Main Materials of Parts

Name of Parts	Body	Seat	Spring	Safety valve	Hydro valve
Material	Carbon Steel Stainless Steel	Stainless Steel	Stainless Steel	Carbon Steel Stainless Steel	Carbon Steel Stainless Steel

Schematic Structural Diagram



Valve Types/Models and Connection Dimensions

Nominal pressure DN(mm)	D	D ₁	φ	φ ₁	c	Z-φ d
25	115	85	120	40	320	4-14
32	140	100	120	40	320	4-18
40	150	110	145	50	350	4-18
50	165	125	160	65	390	4-18
65	185	145	160	65	440	4-18
80	200	160	160	80	440	8-18
100	220	180	220	100	500	8-15
125	250	210	270	125	520	8-18
150	285	240	270	150	535	8-22
200	340	295	375	200	600	8-22/12-22
250	405	355	430	250	650	12-22/12-26
300	460	410	500	300	700	12-22/16-26