

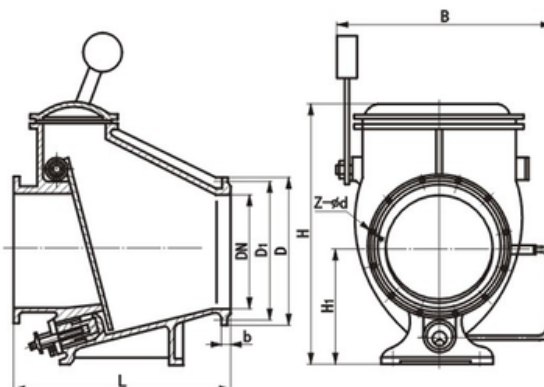
Structural Features and Applications

This valve is installed in pipelines or at the outlet of pumps to prevent backflow and eliminate water hammer when the pump stops, protecting both the pump and piping system. It features a lightweight valve disc with a large opening angle for reduced energy consumption, low flow resistance, an innovative water hammer elimination mechanism, reliable sealing performance, excellent wear resistance, smooth operation, and low noise. It is ideal for water supply and drainage, firefighting, HVAC, and other pumping systems where protection against backflow and water hammer is required.

Performance Specifications				
Nominal diameter DN(mm)		40~1200		
Nominal pressure PN(MPa)		1.0	1.6	2.5
Test pressure (MPa)	Shell strength	1.5	2.4	3.75
	Sealing performance	1.1	1.76	2.75
Working temperature (°C)		≤80 (Can be up to 200°C upon the user's requirement)		
Applicable medium		Water, Medium of weak corrosive nature		

Material Specifications			
Name of Part	Body, Bonnet	Seat	Valve Shaft
Material	Casting Pig Iron, Ductile Iron, Bowl-shaped Steel	Rubber Assembly	Stainless Steel

Structural Schematic Diagram



Main External and Connection Dimensions

Nominal Diameter DN (mm)	HH44X-10 Type							
	L	D	D ₁	B	H	H ₁	b	Bolt Holes Z-φd
40	200	150	110	220	300	140	20	4-18
50	230	165	125	270	300	140	20	4-18
65	290	185	145	290	320	150	20	4-18
80	310	200	160	315	330	162	22	4-18
100	350	220	180	340	460	260	24	8-18
150	480	285	240	402	580	274	26	8-22
200	500	340	295	470	680	302	28	8-22
250	600	395	350	550	730	348	28	12-22
300	700	445	400	622	850	370	28	12-22
350	800	505	460	660	950	410	30	16-22
400	900	565	515	800	1030	450	32	16-26
500	1100	670	620	950	1262	550	34	20-26
600	1300	780	725	1100	1520	635	36	20-30
700	1400	895	840	1810	1644	720	40	24-30
800	1500	1015	950	1250	1774	780	44	24-33
900	1700	1115	1050	1470	2084	920	46	28-33
1000	1900	1230	1160	1570	2195	970	50	28-36
1200	2220	1455	1380	1920	2615	1150	56	32-39