产品简介 Product Introduction

The valve body of the CARX compound air release valve is barrel-shaped, and the internal parts include floats, bushings, discs, plugs, valve stems, etc. This valve is installed at the outlet of the pump or in the water delivery and distribution pipeline to remove the air accumulated in the pipe to improve the efficiency of the pipeline-level water pump. When negative pressure is generated in the pipe, this valve quickly sucks in outside air to prevent damage to the pipeline due to negative pressure.

The compound air release valve is installed at the highest point of the pipeline or in the place where there is a closed gas, to remove the gas in the pipeline to clear the pipeline and achieve normal operation. If the exhaust valve is not installed, the liquid flowing in the pipe will generate dynamic heat and cause gas, which will form a short circuit, which will make the water outlet capacity of the pipe not meet the requirements; Secondly, when the pipeline is running, there will be a negative pressure in the pipeline, which will cause the pipeline to vibrate or rupture. The exhaust (suction) valve quickly sucks air into the pipe to prevent the pipe from vibrating or breaking.

作用原理 Working principle

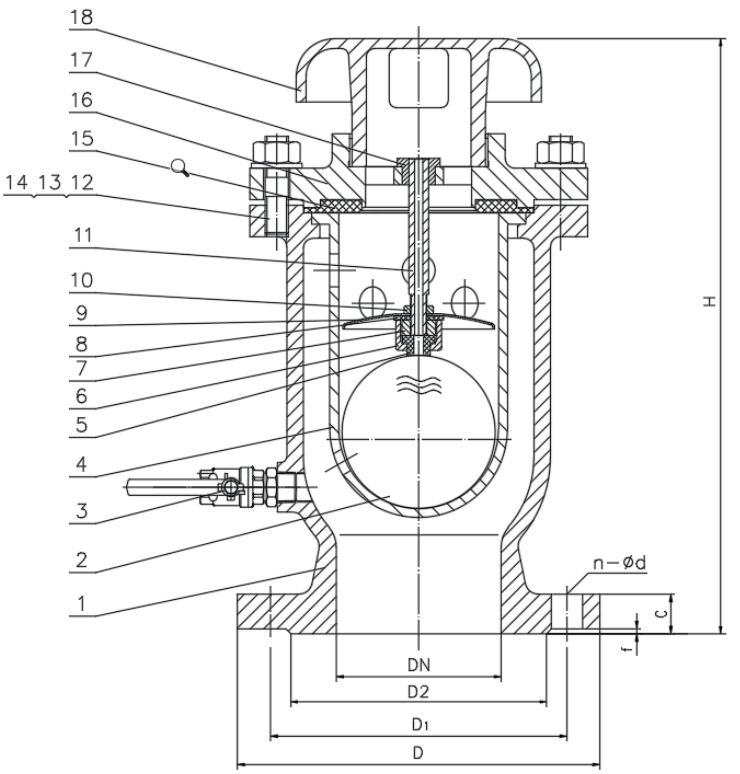
the open position to perform a large amount of exhaust; when the air is exhausted, the water floating ball in the valve floats, and the plug is driven to the closed position to stop the large amount of exhaust. When the water in the pipe is normally transported, if a small amount of gas accumulates in the valve to a considerable extent, the water level in the valve drops, and the float ball drops accordingly, and the gas is discharged from the small hole. When the water pump stops and the water in the pipe is empty, or when a negative pressure is generated in the pipe, the plug is opened at this time to suck in air to ensure the safety of the pipeline.

特点 Feature

The CARX compound air release valve is the second-generation compound air release valve, which greatly exceeds the first-generation in terms of performance and appearance. Its structure is integral, integrating large-hole exhaust and small-hole micro-exhaust.

设计标准 Design standard

Design Code:	BS5155, EN593, API609
Size Range:	DN50-DN2000, NPS2"-80"
Face to Face:	BS5155, EN558, DIN3202, ISO5752, API609
End Flange:	BS 4504 PN6/PN10/PN16, DIN2501 PN6/PN10/PN16, ISO 7005 PN6/PN10/PN16, JIS 5K/10K/16K, ASME B16.1 125LB, ASME B16.1 150LB, AS 2129 Table D and E, BS10 Table D and E
Top Flange:	ISO5211(according to the customer's need)
Test inspection:	EN 12266-1, API 598



NO.	Parts
1	Body
2	Ball
3	Ball Valve
4	Bushing
5	Plug
6	Seal sleeve
7	Screw nut
8	Gasket
9	Disc
10	Nut
11	Guide rod
12	Stud
13	Nut
14	Washer
15	Disc seal
16	Bonnet
17	Guide sleeve
18	Cover

DN	D	D1	D2	n- Φd
25	115	85	68	4-14
50	165	125	102	4-18
80	200	160	138	4-18
100	220	180	155	8-18
150	285	240	212	8-22
200	340	295	268	8-22
250	395	350	320	12-22
300	445	400	370	12-22
350	505	460	430	16-22
400	565	515	482	16-26

主要性能参数 Performance specification

公称压力 Nominal pressure	公称通径 Nominal diameter	试验压力 Test pressure		工作温度 Temperature	适用介质 Medium
PN(Mpa)	DN(mm)	壳体 Shell	密封 Seal		
1.0	25-400	1.5	1.1	≤80℃	清水、源水、污水、Water、Source Water、Sewage
1.6		2.4	1.76		
2.5		3.8	2.75		