

Combination Air Release Valve Anti-shock / nonslam

SEGO Combination Air Release Valve (IV032 iCARV) which is self-operating float type and can be fitted to any peak on a pipeline, capable of fulfilling the venting requirement of the pipeline and release any air or gas under pressure accumulated in the pipe system automatically.

Triple Functions & Anti-Shock Design

- discharge large air flow from water pipeline
- admit large air flow into water pipeline
- purge entrapped air from pipeline under pressure

Main Design Features

- Stainless steel float, SS304/SS316
- Smooth cage outside of the float, keep float moving in specified guide rail.
- Inside&outside fusion bond epoxy coating
- WRAS paint and rubber upon request
- Optional outlet for submerged applications
- Anti water hammer system
- Anti-insects screen (SS304)
- Full bore body design
- 100% water tightness
- low pressure sealing at 0.2bar

Comply Standards

- Hydrostatic tests to EN-12266-1, class A.
- Designed to EN-1074/4 and AWWA C-512
- Flanges to EN-1092/2 or ANSI-150

Service Fields

- water distribution system
- main transmission pipeline
- irrigation system
- fire fighting

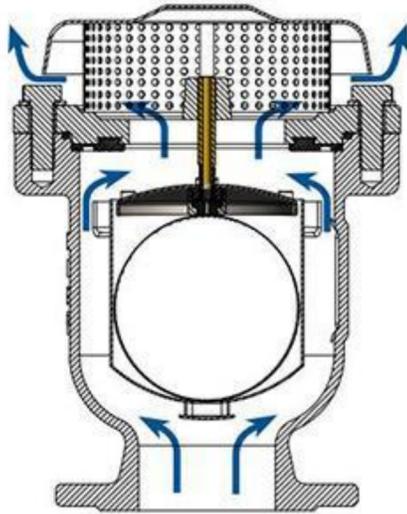


DN50/2" size
BSP threaded



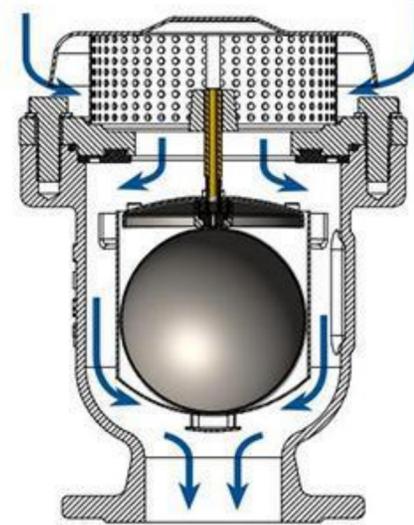
Working functions of Combination Air Release Valve

- ① Release of large quantities of air:



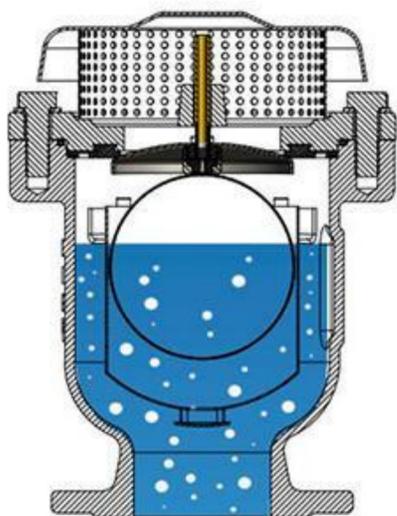
During filling, the line will be ventilated via the large orifice with big volumn

- ② Entrance of large volumes of air



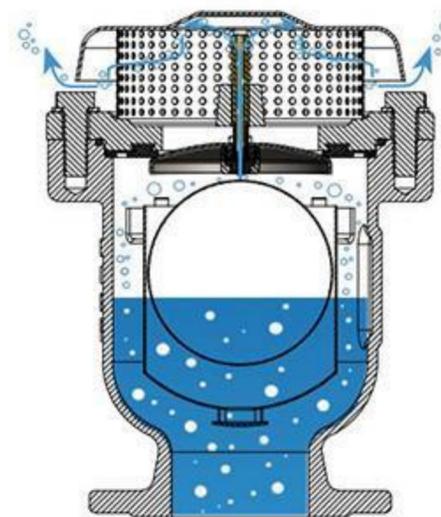
During pipeline drainage bring in large volumn air to avoid negative pressure

- ③ Closure:



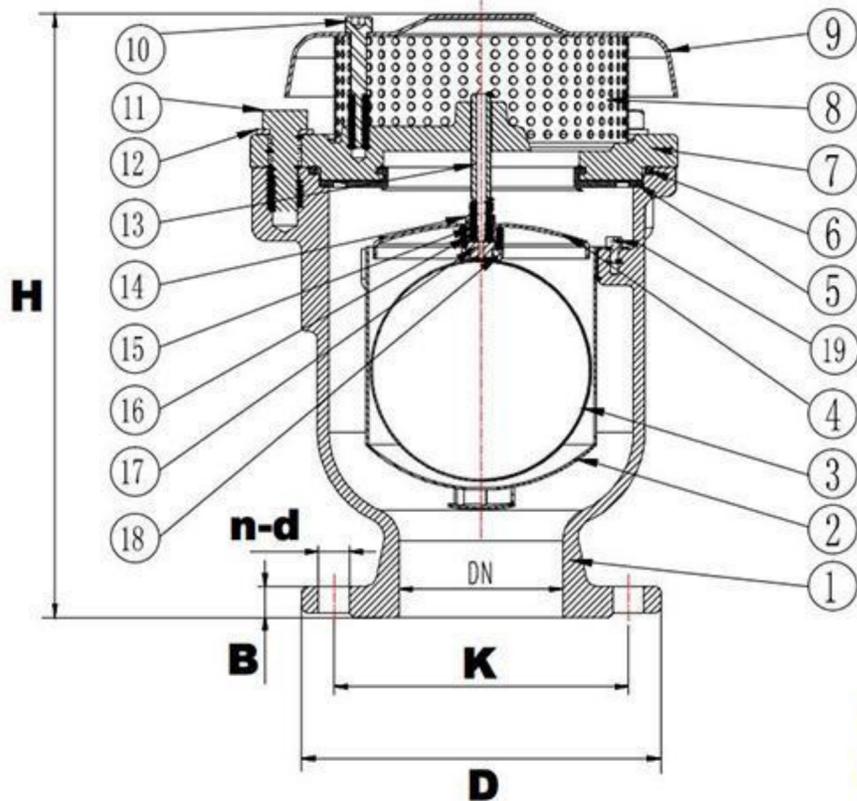
After ventilation the valve closes automatically

- ④ Release of small quantities of air:

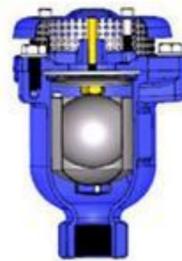


During operation of a line, ventilation is carried out via the top small orifice

PART LIST & DIMENSIONS



19	Screw	AISI304 STAINLESS STEEL
18	Sealing sleeve	CuZn39Pb1 Brass
17	Sealing plug	SI
16	Lock nut	CuZn39Pb1 Brass
15	O Ring	NBR
14	Nut	AISI304 STAINLESS STEEL
13	Guide rod	CuZn39Pb1 Brass
12	Flat washer	AISI304 STAINLESS STEEL
11	Bolt	AISI304 STAINLESS STEEL
10	Screw	AISI304 STAINLESS STEEL
9	Dust cover	AISI A36 STAINLESS STEEL
8	Dustproof screen	AISI304 STAINLESS STEEL
7	Bonnet	DUCTILE IRON
6	O Ring	NBR
5	Seal ring	NBR
4	Disc	AISI304 STAINLESS STEEL
3	Floating ball	AISI304 STAINLESS STEEL
2	Bushing	AISI304 STAINLESS STEEL
1	Body	DUCTILE IRON



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BSP threaded

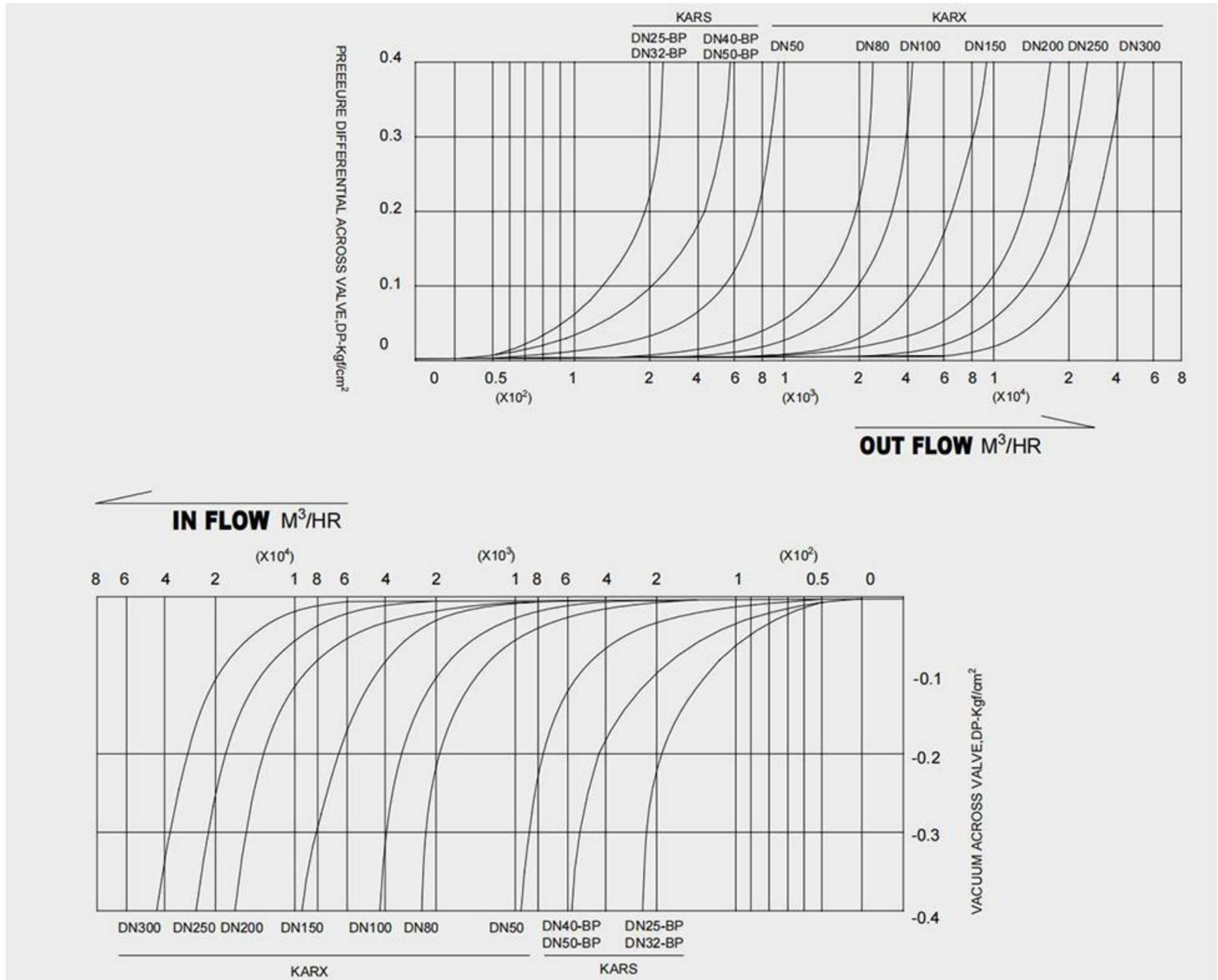
SIZE		Height H	Flange to EN1092-2 / BS4504 (mm)							
DN	inch		End Flange PN10/16				End Flange PN25			
DN	inch	H	D	K	n-d	B	D	K	n-d	B
DN50	2"	305	165	125	4-φ19	19	165	125	4-φ19	19
DN65	2.5"	305	185	145	4-φ19	19	185	145	8-φ19	19
DN80	3"	330	200	160	8-φ19	19	200	160	8-φ19	19
DN100	4"	370	220	180	8-φ19	19	235	190	8-φ23	19
DN150	6"	450	285	240	8-φ23	19	300	250	8-φ28	20
DN200	8"	500	340	295	8-φ23 12-φ23	20	360	310	12-φ28	22
DN250	10"	685	395 405	350 355	12-φ23 12-φ28	22	425	370	12-φ31	24.5
DN300	12"	780	445 460	400 410	12-φ23 12-φ28	24.5	485	430	16-φ31	27.5

*DN40 drilled based on DN50 flange

*DN125 drilled based on DN150 flange ANSI150 flange is available

Designs, materials and specifications shown are subject to change without notice due to our continuing program of product development.

Flow Diagram



Air release during working conditions

