

# SKAR-Sewage Combination Air Release Valve

## Features:

- . Advanced design with simple mechanism, strong float to prevent cracking during sudden water hammer & quick closure.
- . Aerokinetic mechanism to resist blow shut under higher air velocity even up to sonic velocity of air.
- . With special expansion middle body design to help lower the sewage water flow speed, and let the air out but keep sewage water underneath.
- . Keep dirty or corrosive liquid inside the body for safety during operation and no harm to human & surrounding environment
- . Internal body guide and upper round wall keep float moving on its rail and keep liquid turbulence flow within this area.
- . Outside screen will be an option for safety and prevent insects or birds in.
- . Fully fusion epoxy coated inside and outside of valve body for long term services.
- . Manufacturing standard meets BS EN 1074-4, AWWA C512. Flange drilling and dimension meets
- . BS EN 1092 and BS EN 558 and ANSI flange.

**S**KAR- Sewage combination air release valve  
Provides 3 functions:

- 1.Large air release during filling of the pipeline.
- 2.Small air venting under pressurized pipeline.
- 3.Large air intake during draining of the pipeline.



## Service Fields:

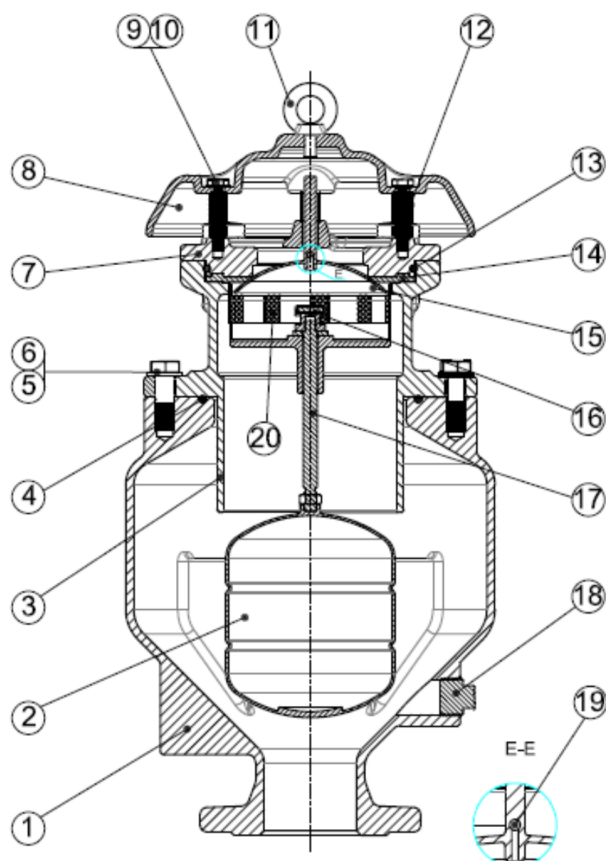
For sewage water system.

## Technical Data:

Size range: DN 50-200MM  
Pressure ratings: 1.0Mpa, 1.6Mp (Flange)  
Working temperature: -10°-80°C.  
Flow media: sewage water.

Please consult factory for PN25 and anti shock device whenever there is water hammer issue.

## Main Valve-DN50-200

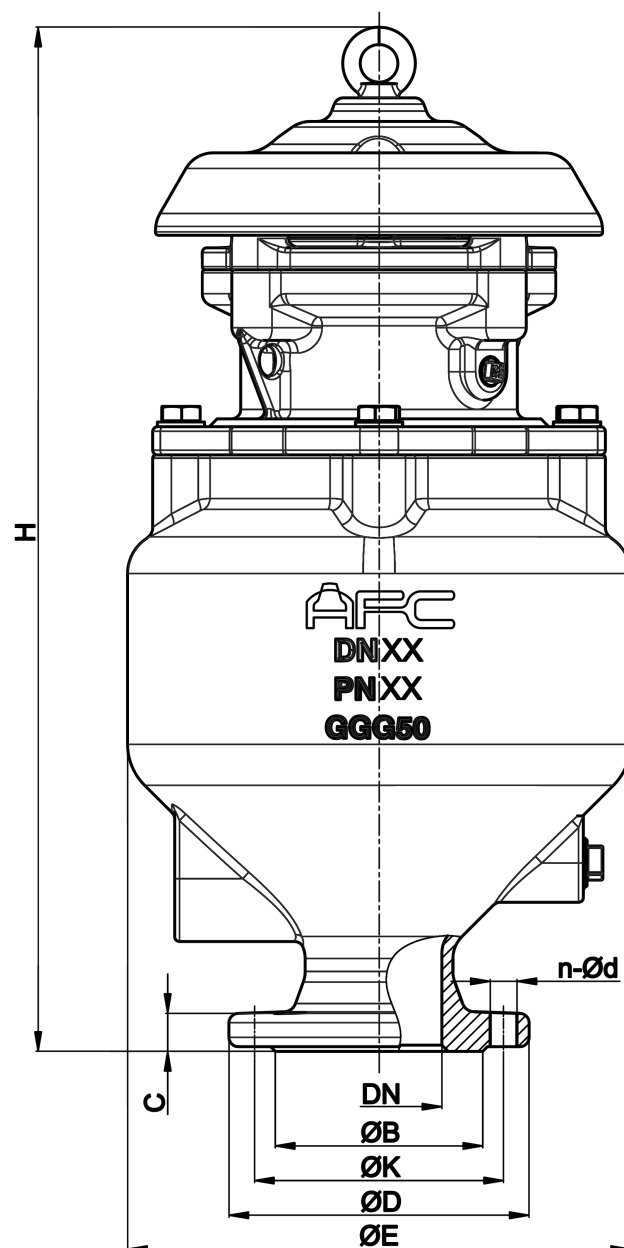


### Parts List

No.	Part Name	Material	Standard
1	Body	Ductile Iron	EN GJS 500-7
2	Float	Stainless Steel	AISI 304/316
3	Middle Part	Ductile Iron	EN GJS 500-7
4	O-Ring	Rubber	NBR
5	Hex Bolt	Stainless Steel	AISI 304/316
6	Washer	Stainless Steel	AISI 304/316
7	Bonnet	Ductile Iron	EN GJS 500-7
8	Cover	Carbon Steel	Commercial + Epoxy coated
9	Washer	Carbon Steel	Commercial
10	Hex Bolt	Carbon Steel/Stainless Steel	Commercial/AISI 304/316
11	Eye Bolt	Stainless Steel	AISI 304/316
*12	Pillar	Aluminium	Commercial
13	O-Ring	Rubber	NBR
14	Seat	Rubber	NBR/EPDM
15	Sealing Arc	Stainless Steel	AISI 304/316
16	Nozzle Seat	Rubber	NBR/EPDM
17	Stem	Stainless Steel	AISI 304/316
18	Plug-Option	Stainless Steel	AISI 304/316
19	Small Nozzle	Stainless Steel	AISI 304/316

\* Size  $\geq$  DN200 have no pillar.

## Dimension



Unit: MM

DN	Model No.	H	ØD		ØK		ØB		n-Ød		C	E
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16		
50	SKAR-0050	560	165		125		99		4-Ø19		19	250
80	SKAR-0080	666	200		160		132		8-Ø19		19	315
100	SKAR-0100	682	220		180		156		8-Ø19		19	335
150	SKAR-0150	820	285		240		211		8-Ø23		19	395
200	SKAR-0200	956	340		295		266		8-Ø23	12-Ø23	20	480

\* AFC keeps the right to change dimension without further notice.

## SKAR-Quick Selection Table

Water flow rate range Max.CMH (M <sup>3</sup> /Hour)	1,360	4,160	8,500	19,100	33,400	76,300
Main pipe size MM	80-400	400-700	750-1000	1050-1500	1500-2000	2100-3000
Inlet size of SKAR MM	50	80	100	150	200	300
bore of outlet MM	75	95	130	170	230	330
small orifice size MM	1.6	2	2.5	3	4	4

## Ordering Code

Model:

SKAR- Sewage combination air valve  
SKAV-Kinetic air/vacuum cuum valve, with 2  
functions, for large air exhaust and intake

SKA R - 0200 - 16

End Connection / ratings:

10: PN10

16: PN16

25: PN25

Valve Size:

0080: 80MM-3"

0200: 200MM-8"

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