

DNS Combination Kinetic Air Release Valve (Reduced bore)

DNS Combination kinetic air release valve provides 3 functions: 1.Large air release during filling of the pipeline. 2.Small air release under pressurised pipeline. 3.Large air intake during draining of the pipeline.

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.
- . No arms or levers to prevent vibrating, bending, direct closure of the float
- . Smooth cage outside of the float, keep float moving in specified guide rail
- . Bottom rubber buffer for collision prevention, and drain easy with proper holes around the cage during vacuum.
- . 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.
- . Flange drilling and dimension meets BS EN 1092 and BS EN 558 and ANSI flange



Service Fields:

For water system, fire fighting, irrigation system.

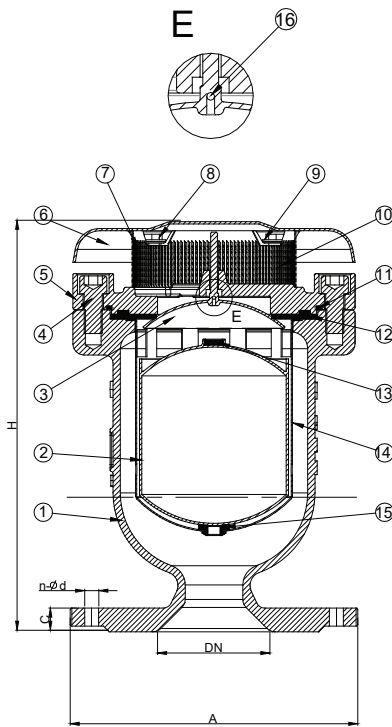
Technical Data:

Size range:	DN50-300MM
Pressure ratings:	0.1 Bar to 16 Bar (Thread) 0.1 Bar to 25 Bar (Flanged)
Working temp:	-10°-80°C.
Flow media:	clean water



Cert No. 2301005

Main Valve-DN50-DN300



Parts List

No.	Part Name	Material	Standard
1	Body	Ductile Iron	EN GJS 500-7
2	Float	Stainless Steel	AISI 304
3	Sealing Arc	Stainless Steel	AISI 304
4	In Hex Bolt	Stainless Steel	AISI 304
5	Bonnet	Ductile Iron	EN GJS 500-7
6	Cover	Carbon Steel	AISI 304
7	Screen	Stainless Steel	AISI 304
8	Hex Bolt	Carbon Steel/ Stainless Steel	ZincCoated/ AISI 304
9	Washer	Stainless Steel	AISI 304
*10	Pillar	Aluminum	Commercial
11	O-ring	Rubber	EPDM
12	Seat	Rubber	EPDM
13	Nozzle Seat	Rubber	EPDM
14	Guide Barrel	Stainless Steel	AISI 304
15	Buffer	Rubber	EPDM
16	Small Nozzle	Stainless Steel	AISI 304

*: For Size ≤DN200.

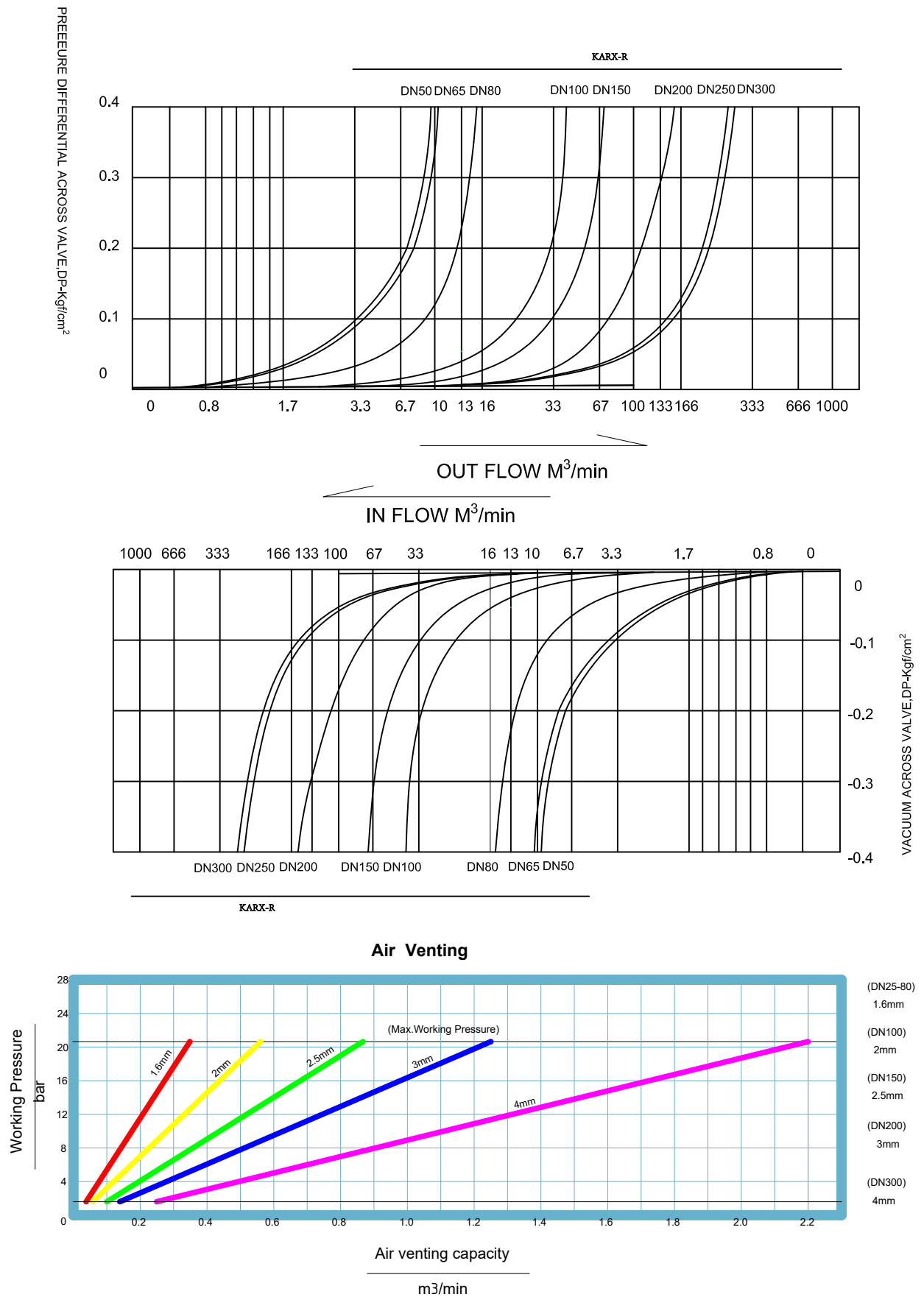
Weights & Dimensions

DN	Model No.	A MM	H MM	W Kg
50	KARR-0050	165	252	11
65	KARR-0065	185	274	13.5
80	KARR-0080	200	294	15
100	KARR-0100	220	361	27
150	KARR-0150	285	404	31
200	KARR-0200	340	487	58.5
250	KARR-0250	405	602	73
300	KARR-0300	460	612	88

Air Valve Size Range Per Diameter

	Mains Size Upto
25mm (1")	150mm
50mm (2")	450mm
80mm	750mm
100mm	1000mm
150mm	1400mm
200mm	1700mm
250mm	2100mm
300mm	2500mm

Flow Performance



Quick Selection Table

Water flow rate range Max. CMH (M ³ /Hour)	760	1,360	4,160	8,500	19,100	33,400
Main pipe size MM	80-450	200-450	450-700	750-1000	1050-1500	1500-2000
Inlet size of KARR MM	50*	80	100	150	200	300
bore of outlet MM	50	75	95	130	170	230
small orifice size MM	1.6	1.6	2	2.5	3	4

*These are pipe thread Combination Air Release Valve-KARS, which can be up to Max. WP PN16.

Those flange type from DN 50-300 can be up to Max. W PN 25.