Class Rating: Class 300

Available Sizes: ½", ¾" and 1" (DN 15, 20 and 25)

Application

The RHOMBUSline® AK 45 is a pressure-activated drain valve that prevents freezing and waterhammer damage by automatically draining condensate from steam or condensate lines during startup and shutdown.

Operation

Spring pressure (preset at **12 psi**) holds the drain valve open until the service pressure exceeds this value, at which time the valve closes. The drain valve stays closed until the pressure is reduced to the preset value. Valve must be piped to atmospheric discharge.

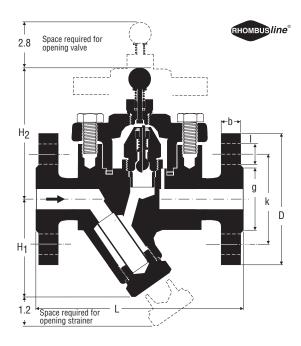
Features and Benefits

- · Forged carbon steel body.
- Unaffected by water hammer solid stainless steel internals.
- · Hand Purging Knob standard.
- Two-bolt cover for easy in-line inspection and maintenance

 no need to remove the valve from the piping to repair or replace the internals.
- Can be installed in any position.
- Mechanical stops prevent crushing of the gasket for long life – no gasket replacement required.
- Internal stainless steel Y-strainer with optional blowoff valve
- · Integral check valve design.
- Two (2) year guarantee.

Materials

- Body and Cover ASTM A105 (DIN 1.0460)
- Cover Bolts ASTM A193B7 (DIN 1.7258)
- Other Internals Stainless Steel



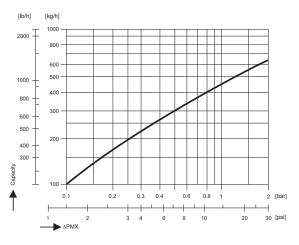
Dimensions and Weights			End Connections						
			- 1	Flange	d	Screwed Socket-Weld			
Nominal Sizes		[inch]	1/2	3/4	1	1/2	3/4	1	
		[mm]	15	20	25	15	20	25	
Dimensions	L	[inch]	5.9	5.9	6.3		3.7		
		[mm]	150	150	160		95		
	H1	[inch]		2.8			2.8		
		[mm]		70			70		
	H2	[inch]	3.8			3.8			
		[mm]	97		97				
Approx. Weight		[lbs]	8.1	9.5	10.6	4.8	4.6	4.4	
	1	[kg]	3.7	4.3	4.8	2.2	2.1	2	

Flange		End Connections								
Dimensions		DIN			CL 150			CL 300		
D	[inch]	3.7	4.1	4.5	3.5	3.9	4.2	3.7	4.6	4.9
	[mm]	95	105	115	88.9	98.4	107.9	95.2	117.5	123.8
b	[inch]	0.6	0.7	0.7	0.4	0.5	0.6	0.6	0.6	0.7
	[mm]	16	18	18	11.1	12.7	14.3	14.3	15.9	17.5
k	[inch]	2.6	3	3.3	2.4	2.7	3.1	2.6	3.2	3.5
	[mm]	65	75	85	60.3	69.8	79.4	66.7	82.5	88.9
g	[inch]	1.8	2.3	2.7	1.4	1.7	2	1.4	1.7	2
	[mm]	45	58	68	34.9	42.9	50.8	34.9	42.9	50.8
I	[inch]	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7
	[mm]	14	14	14	15.9	15.9	15.9	15.9	19	19
Number of b	olts	4	4	4	4	4	4	4	4	4

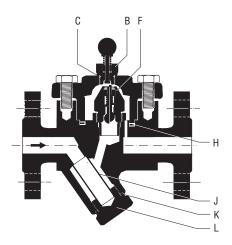
Gestra® Specialty Trap • Condensate Drain Valve

AK 45

Class Rating: Class 300



Pressure / Temperature Ratings							
Maximum Service Pressure	[psig]	465	320	305			
Industrial Control Frederic	[barg]	32	22	21			
Related Temperature	[°F]	482	725	842			
Related Temperature	[°C]	250	385	400			



Standard Spare Parts					
Item Number	Description	AK 45			
В	Hand Purging Knob	375435			
С	Gasket	3758781			
F	Valve Insert	375434			
Н	Cover Gasket	3751591			
J, K, L	Complete Strainer Set	375113			
K	Strainer Plug Gasket	3751621			

Available Sizes: ½", ¾" and 1" (DN 15, 20 and 25)

Capacity Charts

The chart shows the maximum capacity for cold condensate. The capacities are a function of differential pressure or the difference between inlet and outlet pressures for the trap.

The curve shows the maximum capacity when discharging cold condensate at a temperature of 68°F (20°C). For example, at a differential pressure of 14.5 psi (1 bar), the maximum cold capacity is approximately 900 lb/hr.

Body Pressure/Temperature Rating

The chart shows the maximum shell (body) pressure and temperature rating. Operating differential pressure is limited to 320 psi.

Material/Test Certificates

All inspection requirements must be stated at time of order. Test certificates can be issued on request in accordance with EN 10204 - 2.2 and -3.1B. Heat Codes from body and cover are required.

Available End Connections

NPT. BSP

ANSI 150 RF, 300 RF

DIN PN 40

How to Order

Specify trap, end connection size and type.

For Example: AK 45 1/2" NPT

If ANSI flanged ends are required, please specify either ANSI 150 RF or ANSI 300 RF.

Please add "w/BOV" as a suffix if optional blowoff valve is desired.