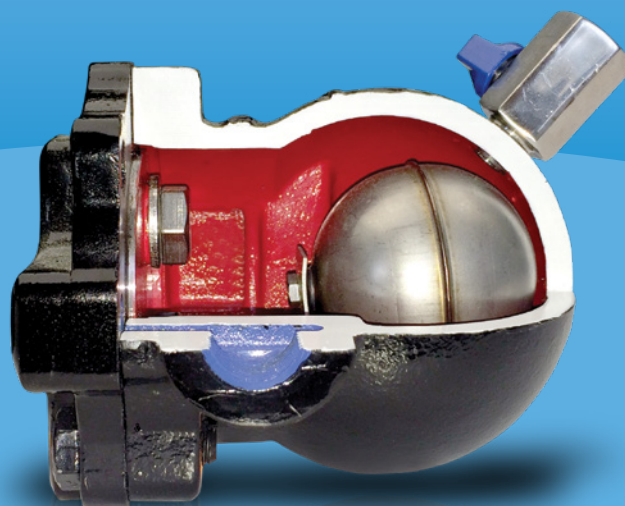




SA-51

LIQUID ELIMINATORS/ FLOAT TYPE LIQUID DRAINERS

GENERAL FEATURES

Working Principle

The SA-51 allows the discharge of liquids from the gas and air lines. Fluid drain is happen with a float and the associated lever arm. The air or other gases in the device start to fill up in the liquid drainer body. The air and gases on the float allow the orifice to be closed by applying a downward force. The air and gases in the body cool down after a while and consequently start to condense. The resulting water implements a force in the upward direction to allow the float to open also the lever and its associated ball orifice. Thus, the water is discharged. When the air come again to it close the orifice. Sealing against air is ensured. This cycle continues automatically.

Body Material

GGG 40.3 Cast Iron

Connection:

Threaded, Flanged

Connection Type:

Vertically, Horizontally

Nominal Diameter:

DN15 (1/2") - DN25 (1")

Pressure:

Max. 16 bar

Working Temperature:

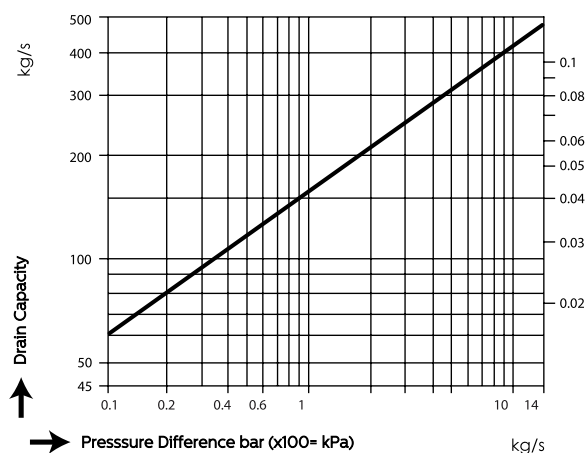
Max. Working Temp. 250 °C

Applications:

- Compressors
- Heat exchangers
- Heating batteries
- Air Tanks
- Air Separators
- Air Packets
- Air collectors
- Drying rollers

Drain Capacities

(1/2" - 3/4" - 1")



SA-51 LIQUID ELIMINATORS/ FLOAT TYPE LIQUID DRAINERS

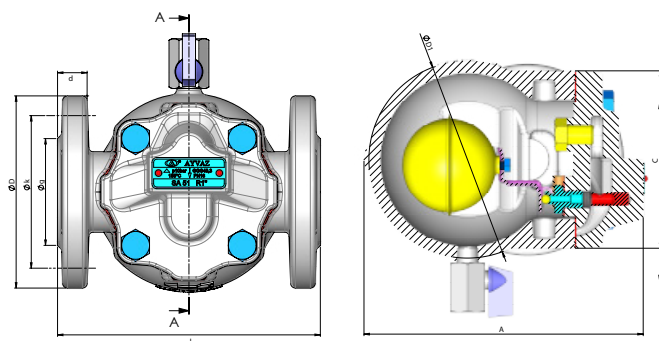
Installation

The SA-51 can be installed horizontally and vertically. The pipeline must be sloped to maintain fluid flow. If there is a large amount of condensate (especially in air tanks) it can lock because the inside of the body will fill with a lot of fluid and will float above the float. As a result, a by-pass line must be made before the air line enters the liquid drainers. By-pass line must be done over the liquid drainers' body for horizontal installation.

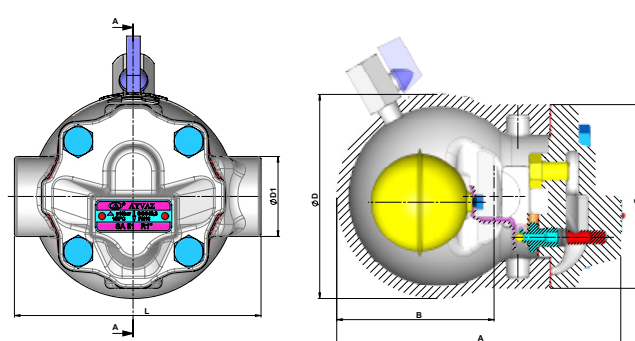
Δp Max. Maximum differential pressure due to the density of the liquid

DENSITY	1	0,9	0,8	0,7	min 0,6
Δp Max. Pressure Difference	14	14	14	9	5
Δp Min. Pressure Difference	0,1 bar				

FLANGED



THREADED



DIAMETERS											
Dia.	Flanged (mm)										
	ØD	Øk	Øg	b	Holes' Dia. and number	A	B	C	ØD1	L	Weight (kg)
DN 15	95	65	46	14	Ø14x4	152,5	81,5	105	98	150	4,6
DN 20	105	75	56	16	Ø14x4	152,5	81,5	105	98	150	5,1
DN 25	117	85	65	17	Ø14x4	170	99,5	108	120	160	6,6

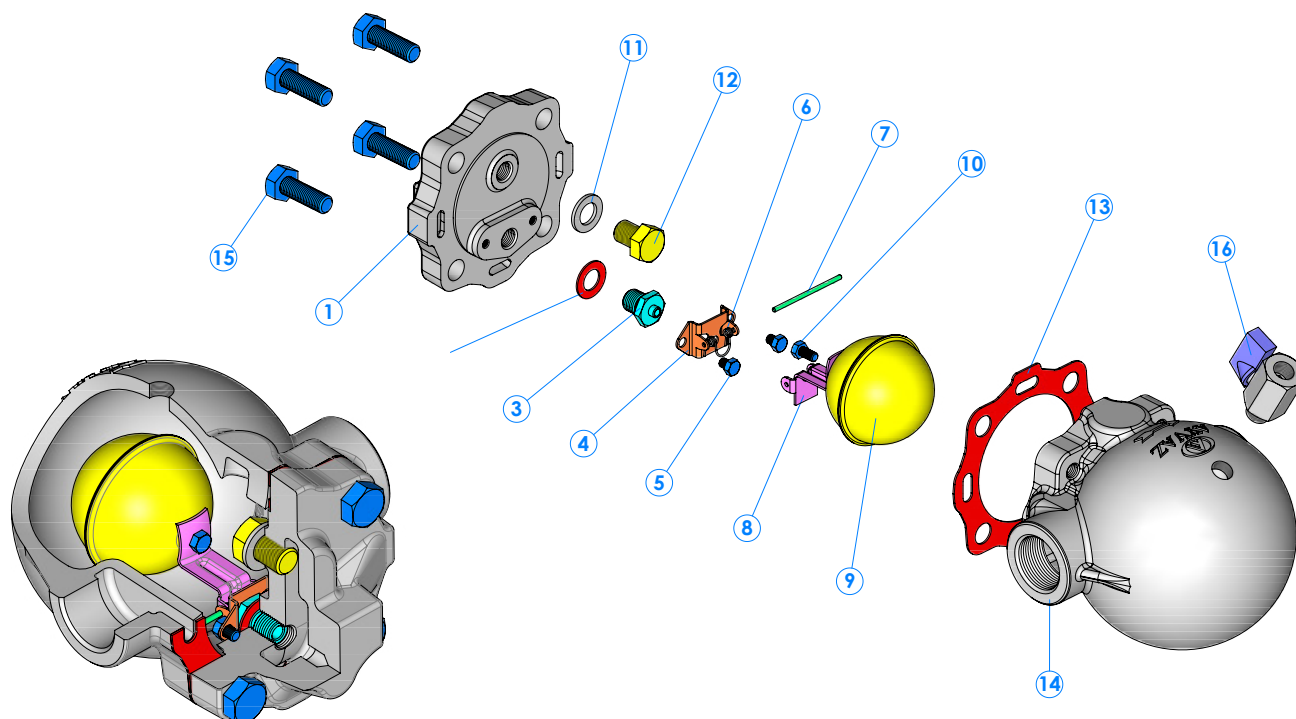
Dia.	Threaded (mm)						
	A	B	C	ØD	ØD1	L	Weight (kg)
1/2"	150	81,5	108	98	40	122	3,5
3/4"	150	81,5	108	98	40	122	3,5
1"	167	92,5	108	120	47	145	4,3

All measurements in the table are given in mm.

All technical arrangements and changes to be made in the production process are the property of Ayvaz.

SA-51 LIQUID ELIMINATORS/ FLOAT TYPE LIQUID DRAINERS

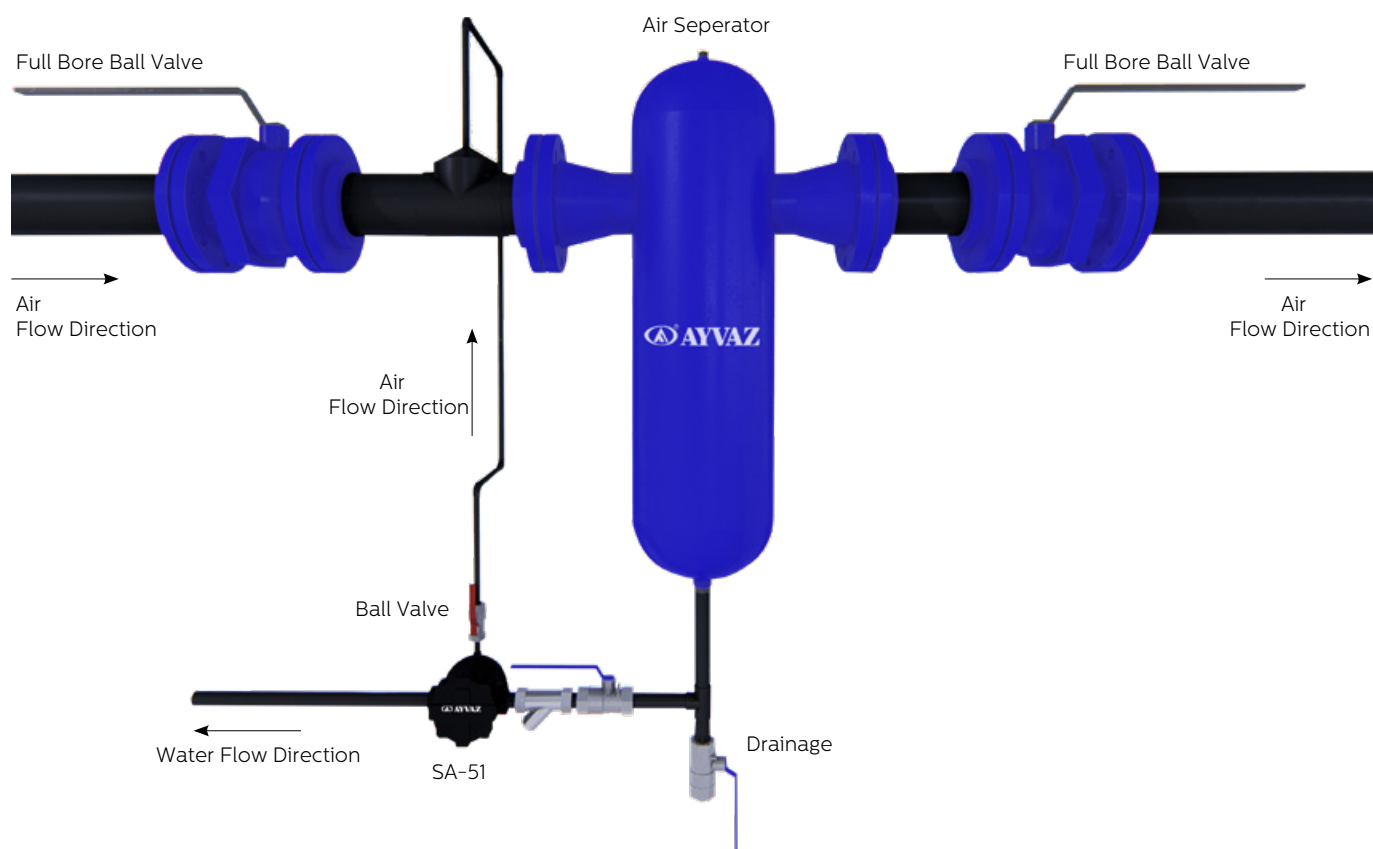
PRODUCT STRUCTURE



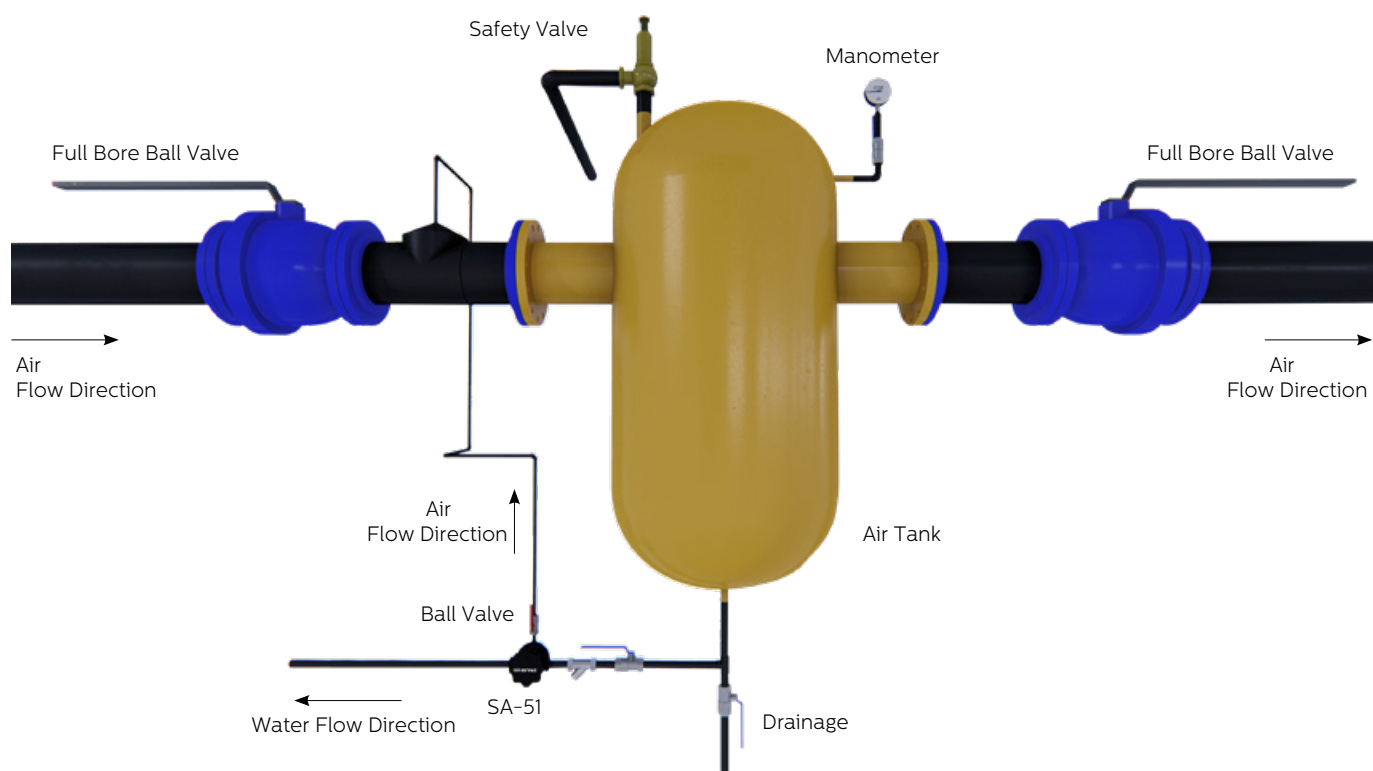
PART LIST		
No	PART NAME	MATERIAL
1	Cover	GGG 40.3 Cast Iron
2	Seat Gasket	Stainless Steel
3	Float Seat	Stainless Steel
4	Float Handle Bearings	Stainless Steel
5	Bolt A.K.B. M5	Stainless Steel
6	Spring	Spring Iron
7	Float Stem	Stainless Steel
8	Float Handle	Stainless Steel
9	Float	Stainless Steel
10	Bolt A.K.B. M5	Stainless Steel
11	Washer	Stainless Steel
12	Bolt A.K.B. M12	Stainless Steel
13	Cover Gasket	%94 Pure Graphite
14	Body	GGG 40.3 Cast Iron
15	Bolt A.K.B. M10	8.8
16	Ball Valve 1/4"	Stainless Steel

SA-51 LIQUID ELIMINATORS/ FLOAT TYPE LIQUID DRAINERS

AIR SEPARATOR APPLICATION SAMPLE

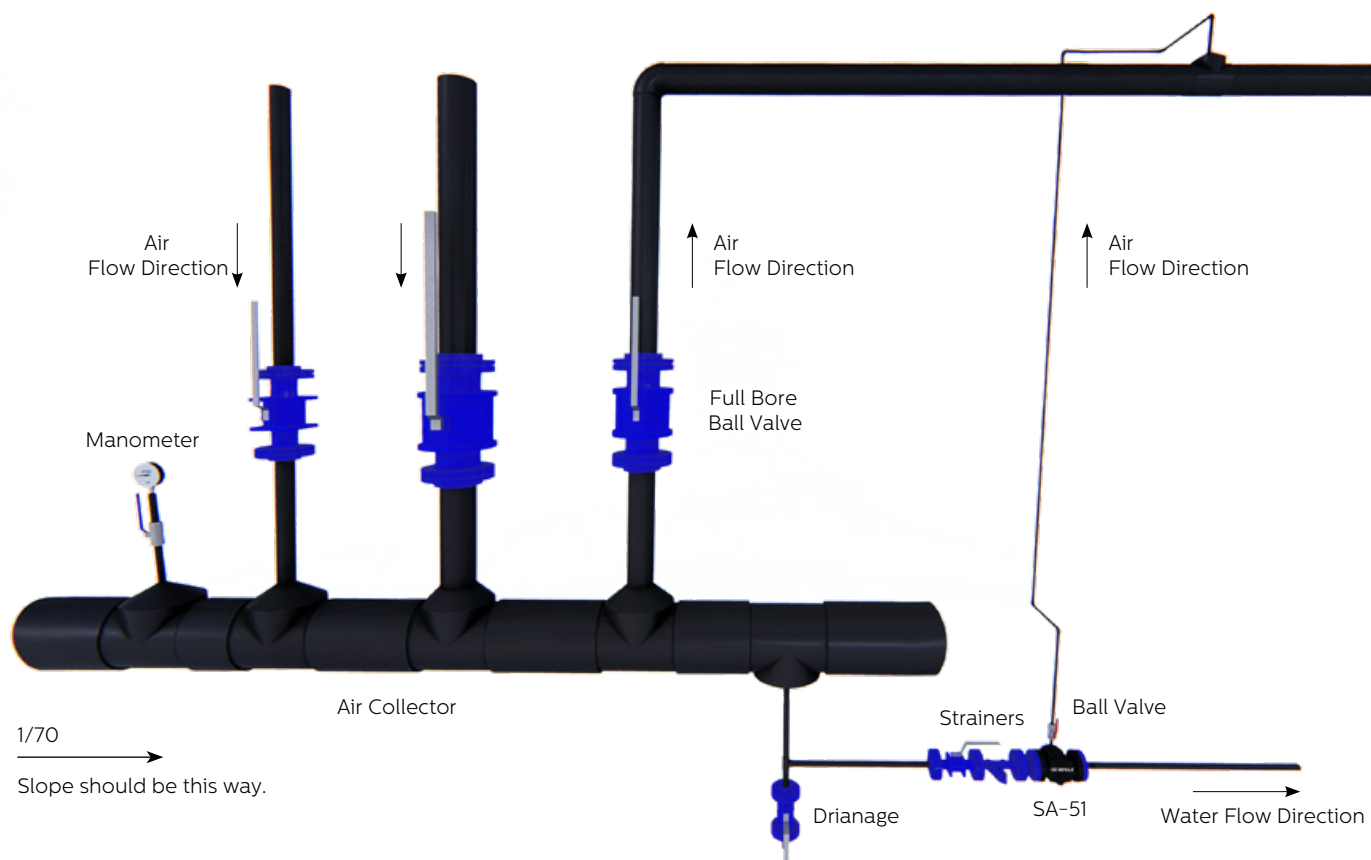


AIR TANK APPLICATION SAMPLE

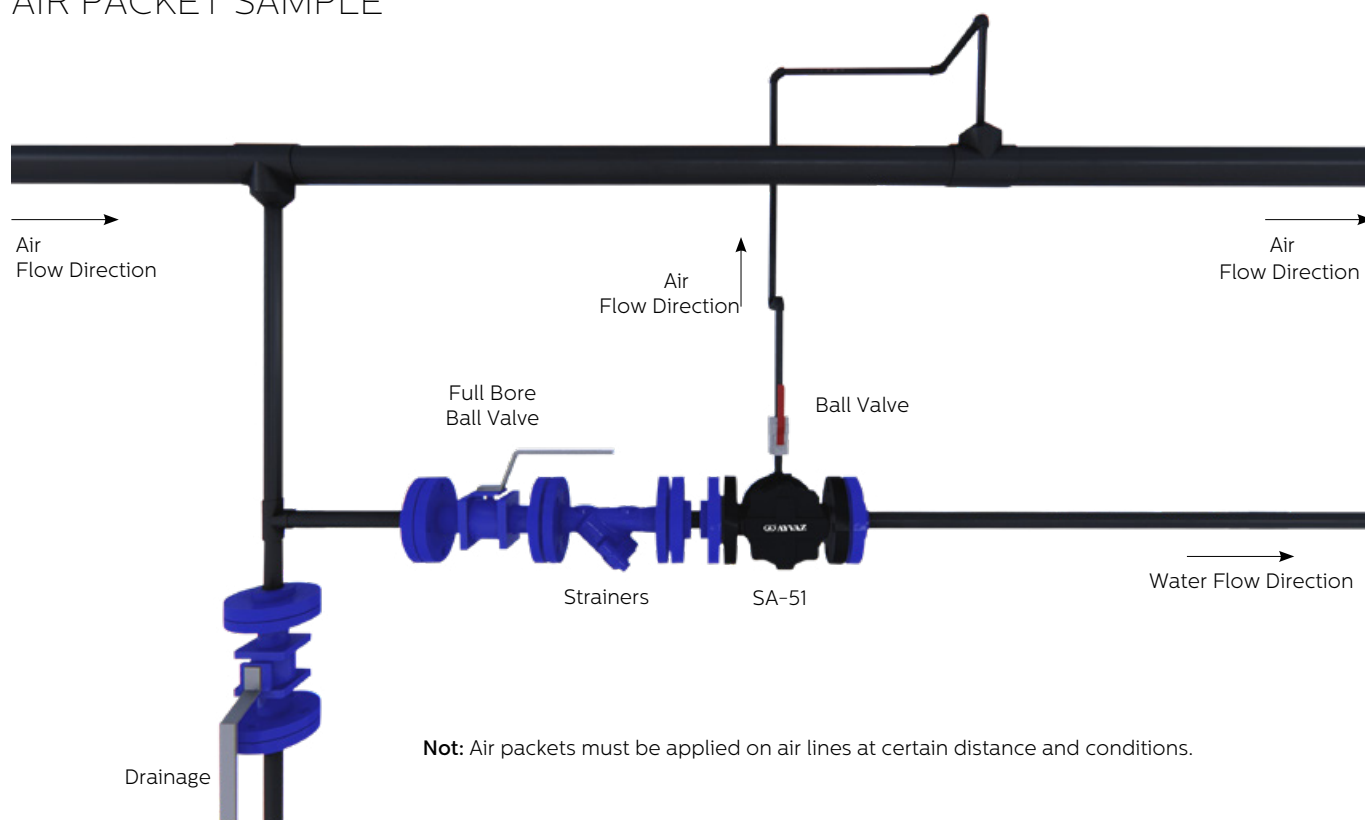


SA-51 LIQUID ELIMINATORS/ FLOAT TYPE LIQUID DRAINERS

AIR COLLECTOR APPLICATION SAMPLE



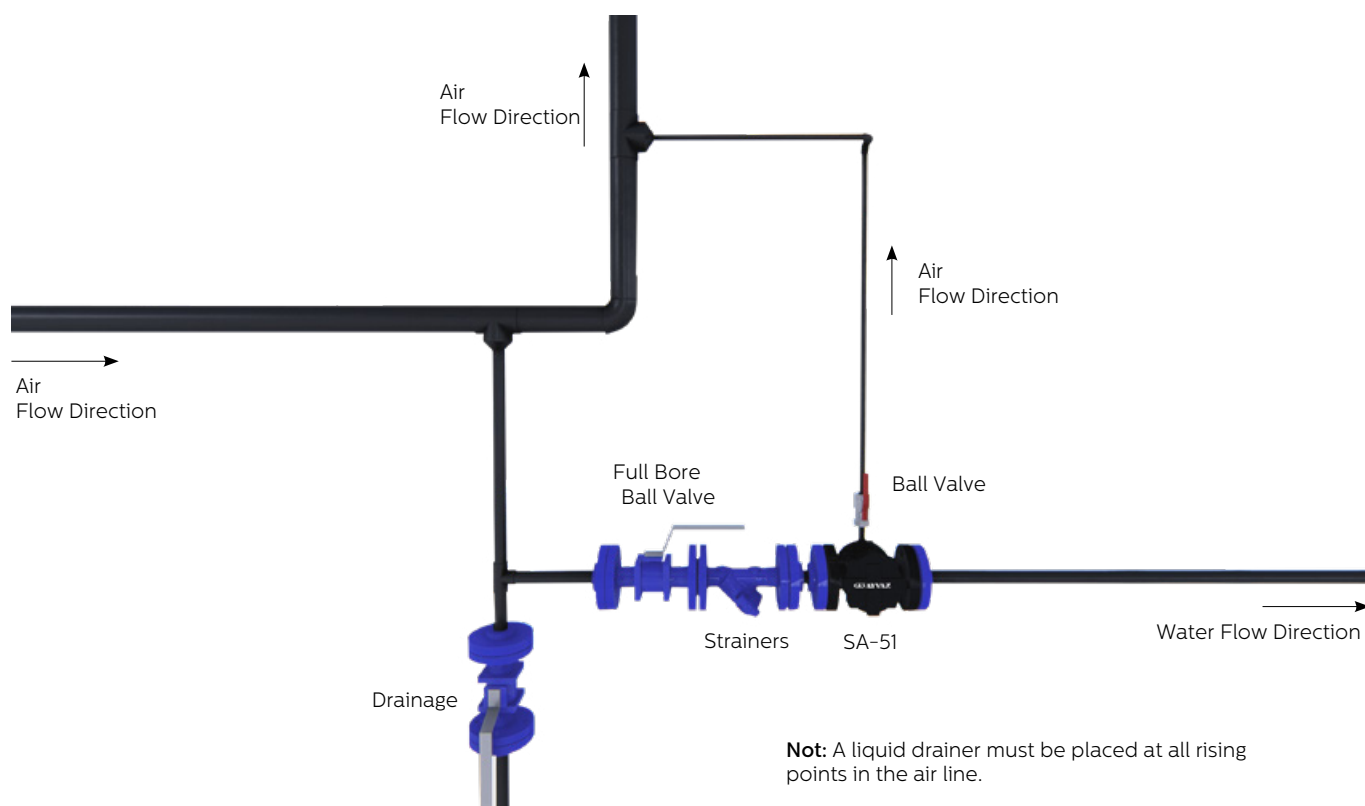
AIR PACKET SAMPLE



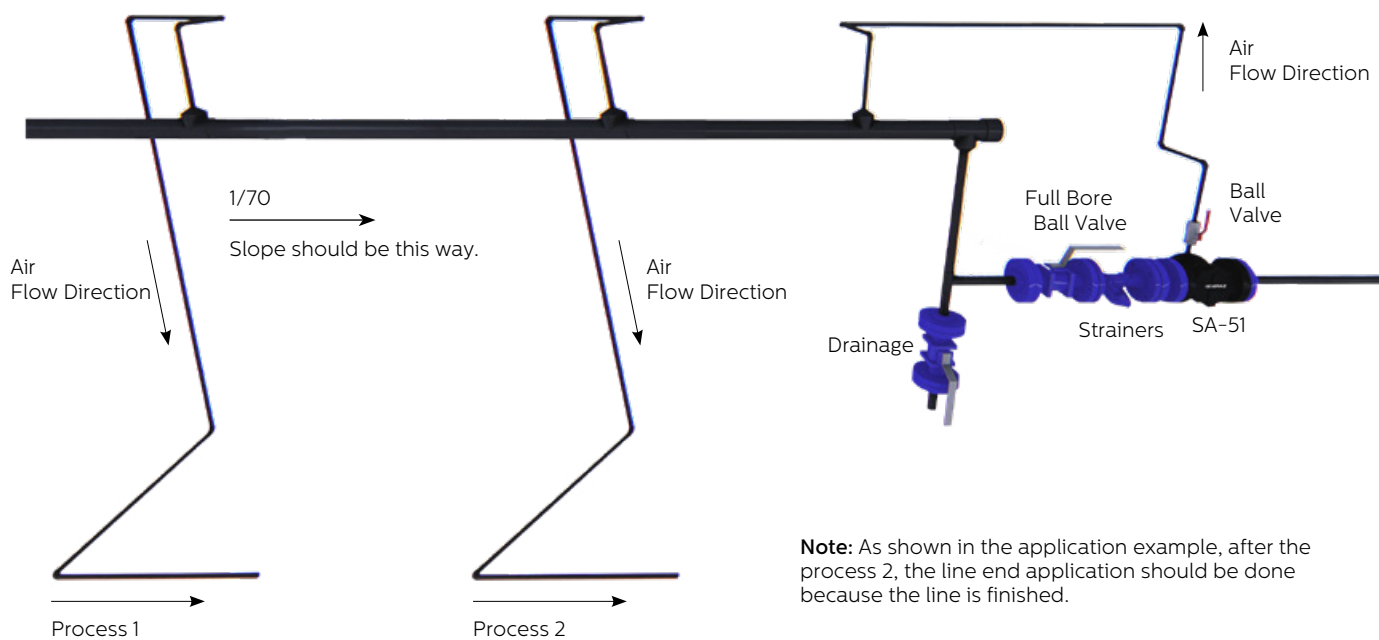
Not: Air packets must be applied on air lines at certain distance and conditions.

SA-51 LIQUID ELIMINATORS/ FLOAT TYPE LIQUID DRAINERS

AIR PACKET SAMPLE-2



END OF THE LINE APPLICATION



SA-51LIQUID ELIMINATORS/ FLOAT TYPE LIQUID DRAINERS



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