



# SPR-H 16/25/40

## AIR SEPERATOR

### GENERAL FEATURES

Ayvaz separator is a device that separates the liquid transported by steam, gas and compressed air in the installation by centrifugal force and makes it dry and clean.

AYVAZ SPR 16, 25, 40 Separators are specially designed to maintain high efficiency, variable steam rates and separation efficiency in lines running up to 16, 25, 40 bar. This product can be specially produced from stainless steel for process systems.

#### Working Principle

It is not possible to distribute liquid droplets regularly across the entire pipe cross section. It is easy to take the liquid that flows from the bottom of the pipe. Those who move freely can only be collected by separators. When the free state and variable size moistred gases enter the seperator, the centrifugal movement begins around conical cyclone downward, and the liquid particles, droplets and sediments in the acclerated gas are swirled away from the wall.

The dry, clean gas with large internal volume goes to the collector conical cyclone, optionally through filtration, and continues to the installation path. The liquid and sediments descend into the collecting chamber below the separating stainless plate, and can not go up. The fluid moves through the filter and it can be drained by steam trap or by hand. The level of the liquid in the collector can be controlled by the control pipe.

#### Seperator Selection and Efficiency

Ayvaz separators operate at wide speed range, which improves system efficiency. In general, the connection is selected based on the pipe diameter. But in real sense, it is necessary to determine the separator diameter according to the selection input pressure and the flow rate. 99% of the water droplets over 10 microns disintegrate the entire solid particles. The pressure loss in such separators is less than 0.95%.

#### Pressurised Air Applications

The air that the compressor absorbs with dust and various particles is compressed by the burnt oil from the compressor. If the water, oil and residue can not be seperate, it could spread all the line .

The Ayvaz Separator to be used at the compressor outlet separates 99% of the water particles and all the solid particles from the air. When high precision air is required, dryers and filters should be used.

# SPR/H-16/25/40 AIR SEPERATOR

## Advantages

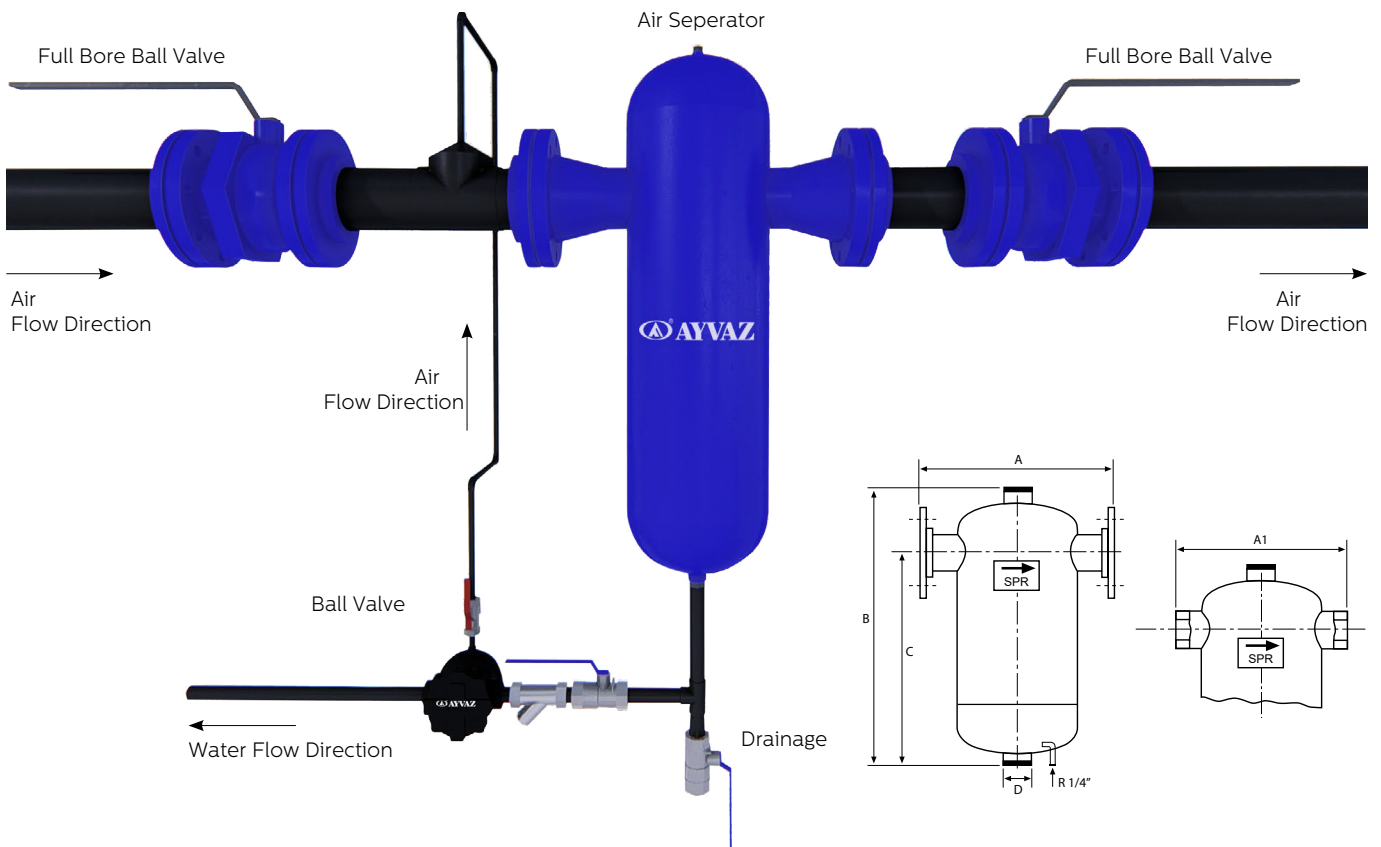
- Increase productivity and production quality.
- Reduced maintenance cost and downtime.
- Extends the life of plant and control valves in steam and air systems.
- Removes the water hammer damage and maintenance cost caused by it.
- Wide range selection of materials and connections.
- Provides a net measurement of air.  
(When used to protect flow counters)

## Application Areas

There is no need for electrical connection system that can be installed easily Ayvaz is the simplest way of separating liquid separators. It is the type preferred by many engineers. Steam, gas and pressurized air do not exceed max. flow capacity 40% by weight and used in applications that dissociate liquid weight.

Working Conditions					
DN	A	A1	B	C	D
15	180	120	345	240	1/2"
20	230	150	400	290	1/2"
25	230	160	420	315	1/2"
32	250	200	440	315	1/2"
40	300	220	480	340	1/2"
50	300	220	540	400	1/2"
65	400	-	645	475	3/4"
80	400	-	720	520	3/4"
100	450	-	860	620	1"
125	500	-	1020	740	1"
150	600	-	1175	850	1"
200	850	-	1200	900	1"
250	900	-	1600	1240	2"
300	950	-	1700	1310	2"
350	1000	-	1800	1400	2"

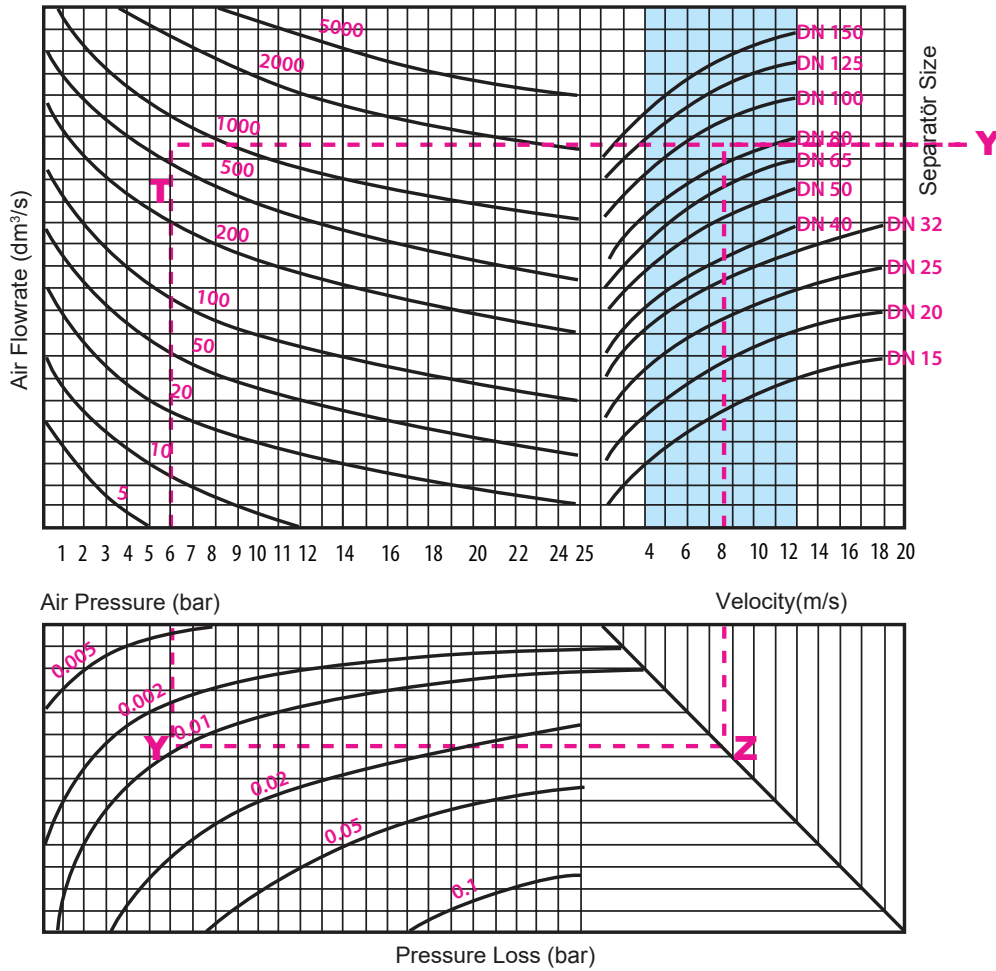
## AIR SEPERATOR APPLICATION SAMPLE



WORKING CONDITIONS					
Connection		Material	Dia.	Max. Working Pressure	Max. Working Temp.
Threaded	NPT	Carbon Steel Opt. Stainless Steel	1/2"-2"	16 Bar, 25 Bar, 40 Bar	110°C
Flanged	DIN 2567	Carbon Steel Opt. Stainless Steel	DN15-DN350	16 Bar, 25 Bar, 40 Bar	110°C

# SPR/H-16/25/40 AIR SEPERATOR

## AIR SEPERATOR SELECTION DIAGRAM



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