AIR LUBRICATOR

Series : V050, V100, V200, V250, V300

AIR LUBRICATOR

VELJAN

FEATURES:

Oil can be filled under Pressure

Large opening for easy oil filling

Efficient Lubrication

Automatic oil drip feed rate proportional to flow

Shatter- Proof polycarbonate bowl with bowl guard

Oil drip rate can be easily set by adjusting the knob

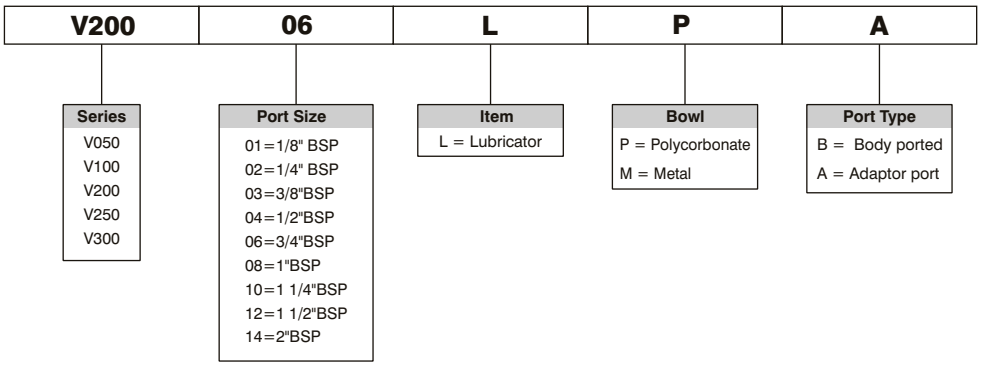
Sight dome offers 360° visibility of oil drops

Pick up tube filter prevents clogging or erratic metering.

* Powder coated in gold / black for superior finish & durability

ORDERING CODE

Example : V200 / 06 / L / P / A



TECHNICAL SPECIFICATIONS :

Specification		Units	Technical Details				
Model		——	V050-L	V100-L	V200-L	V250-L	V300-L
Port size		Std.	G1/8 , G1/4	G3/8 G1/2	G1/2 , G3/4	G1 , G1¼	G1½ , G2
		Opt.	NPT ports				
Material of Construction	Bodies	——	Zinc	Cast - Aluminum	Cast - Aluminum	Cast - Aluminum	Cast - Aluminum
	Bowls		Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Cast - Aluminum
		Opt.	——	Cast - Aluminum	Cast - Aluminum	Cast - Aluminum	——
Bowl Capacity		C.C	50	70	190	190	1500
Application		———	To supply Lubricated air				
Operating medium		———	Compressed filtered air				
Max.Operating Temp.		°C	50 (80° For Metal bowl)				
Max.Operating Pressure.		Bar	10				
Lubrication oil		———	ISO VG 32 (SAE-10)				

*Cost of Gold colour finish product will be 5% higher than the black

LUBRICATORS:

Most moving parts require some type of lubrication. The efficiency of cylinders, valves and air motors can be greatly improved if they are supplied with the required lubrication. Air driven devices can be lubricated by using an air line lubricator, a device for adding lubricating oil in aerosol form into the compressed air line.

Air lubricators have been an important part of pneumatic systems for decades. Reduce friction between sliding surfaces by lubrication not only improves efficiency and increases cycling speed of a component but also reduces wear, which ultimately means longer component life and less maintenance.

Locating the lubricator properly in the pipeline is important to ensure that the correct amount of lubrication reaches each device. Too little oil results in inadequate lubrication leading to excessive wear and premature failure. Excessive oil in the pipeline is wasteful and can become a contaminant in the ambient area as it is carried out of tools and valves by the air exhaust.

FUNCTIONING OF LUBRICATOR: (Ref. Page no. 64)

Lubricator works by injecting small particles of oil into the moving air stream of a pneumatic system. This is accomplished because of the differential pressure created within the lubricator to lift oil out of a reservoir in to the sight feed chamber(3) that meters the oil dropping back into the air stream through an adjustment valve(2).

As air flows from the regulator, some air is divided from the main orifice and is diverted to apply pressure on the oil reservoir in the polycarbonate bowl(1). This force the oil up through the siphon tube(4) into the sight feed dome chamber due to capillary action. There is a capacity valve(5) in the lubricator which opens in proportion to the air flow pressure and creates the required differential pressure to draw the oil up and drips it into the air downstream. The capacity valve atomizes the air and oil mixture creating a fine mist of lubricant into the air stream. Thus the capacity valve provides the desired degree of lubrication in proportion to the air flow rate.

The VELJAN lubricator's design permits filling oil into the reservoir by unscrewing the lubricator cap / oil fill up plug without shut down of the air line. The bleeder assembly helps in releasing out the air present in the bowl, for removing the lubricator cap to fill up oil in pressurised condition.

INSTRUCTIONS

1. If the working air rate is low for the lubricator, oil may not drip. Check the minimum air rate for dripping oil.
2. Check the oil drop once a day; if the oil drop is faulty, problems could occur in the unit being lubricated.

2. OIL ADJUSTING VALVE

For setting the oil drop rate into the air flow.

BLEEDER ASSEMBLY

To bypass the excess air flow from the inlet flow.

3. SIGHT FEED DOME

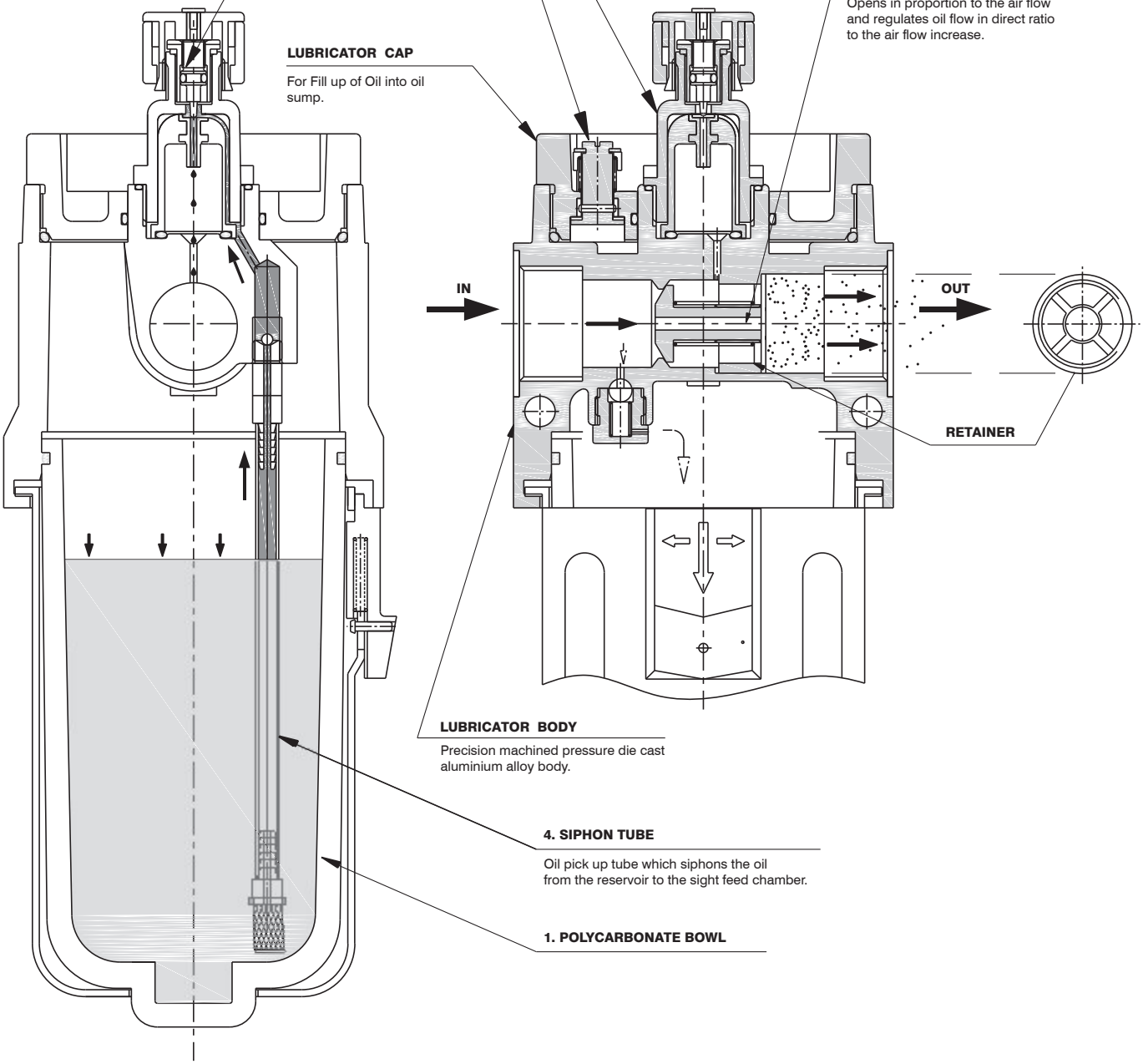
Polyhedrons bowl through which oil flow into the air stream can be viewed clearly.

5. CAPACITY VALVE

Opens in proportion to the air flow and regulates oil flow in direct ratio to the air flow increase.

LUBRICATOR CAP

For Fill up of Oil into oil sump.



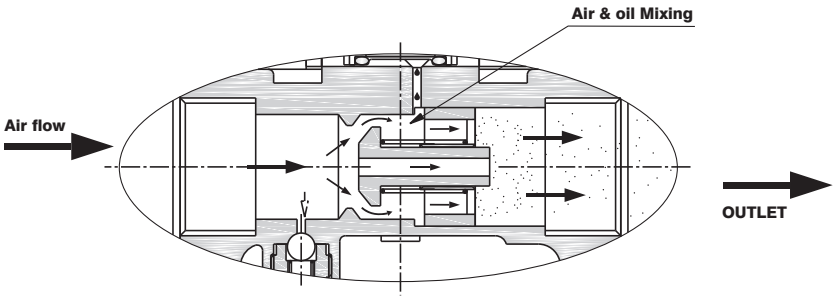
LUBRICATOR BODY

Precision machined pressure die cast aluminium alloy body.

4. SIPHON TUBE

Oil pick up tube which siphons the oil from the reservoir to the sight feed chamber.

1. POLYCARBONATE BOWL



CAPACITY VALVE OPEN POSITION

AIR LUBRICATOR (V050 -1/8" & 1/4" BSP)

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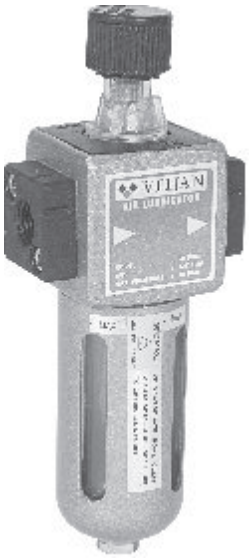
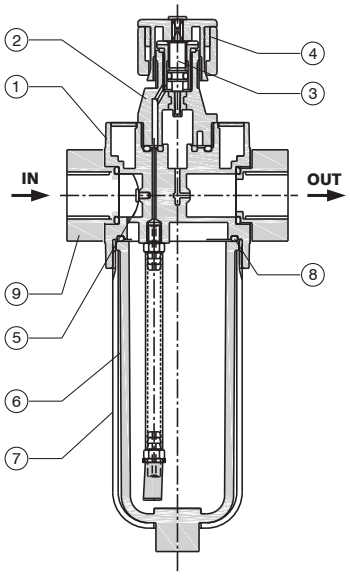
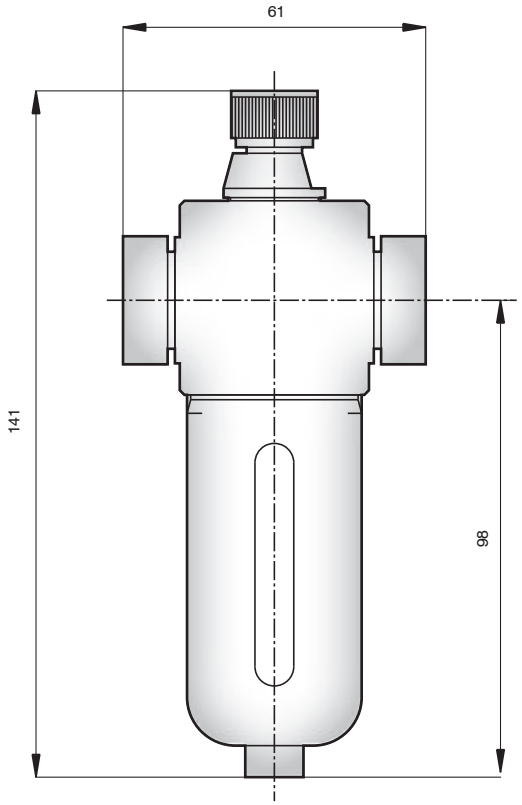
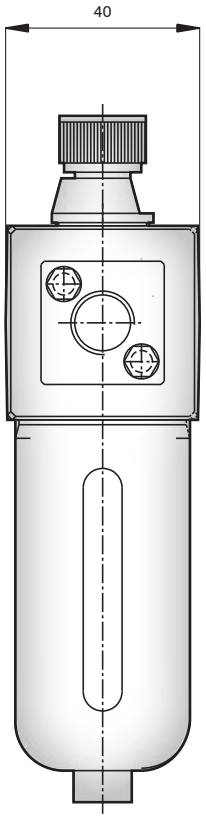




S.no.	Description	Material
1	Lubricator Body	Zinc
2	Sight feed dome	Polycarbonate
3	Oil Adjusting Screw	Brass
4	Adjusting knob	GF nylon
5	Diaphragm	Nytrile
6	Bowl	Polycarbonate
7	Bowl Guard	Cold Rolled Steel
8	`O' Ring	Nytrile
9	Adaptor	Aluminum





AIR LUBRICATOR (V100 - 3/8" & 1/2" BSP)

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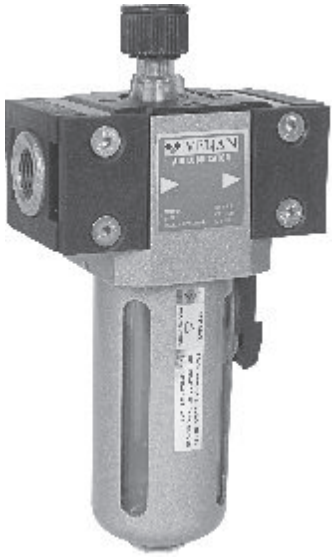
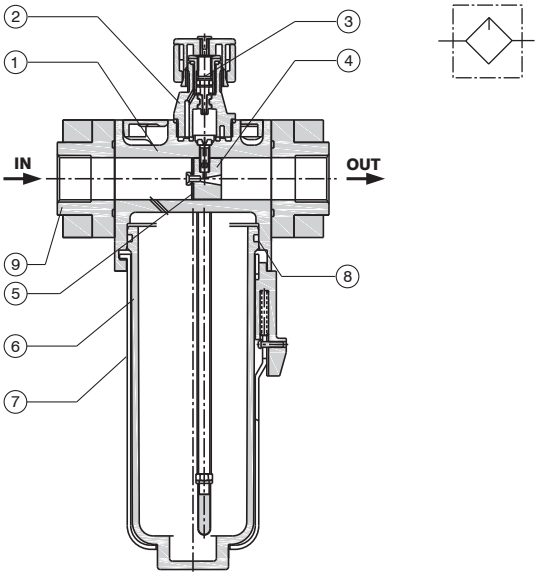
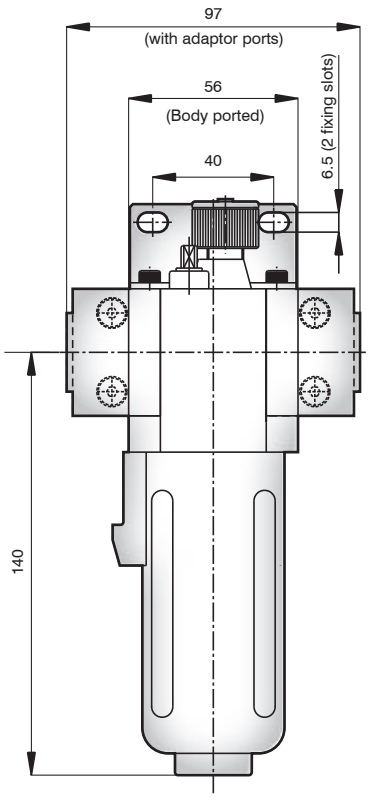
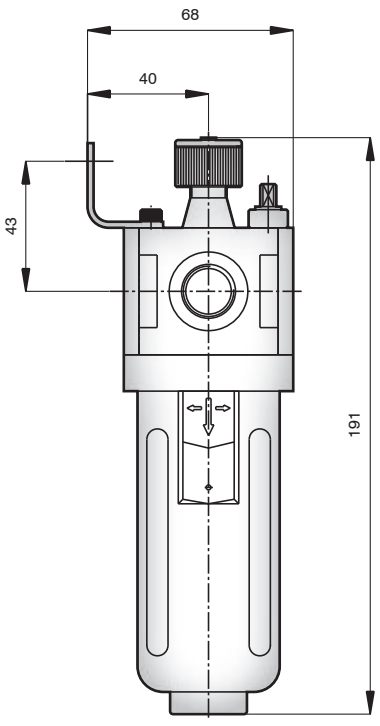




S.no.	Description	Material
1	Lubricator Body	Aluminum
2	Sight feed dome	Polycarbonate
3	Oil Adjusting Screw	Brass
4	Capacity valve	Delrin
5	Diaphragm	Nytrile
6	Bowl	Polycarbonate
7	Bowl Guard	Cold Rolled Steel
8	`O' Ring	Nytrile
9	Adaptor	Aluminum





AIR LUBRICATOR (V200 -1/ 2" & 3/4" BSP)

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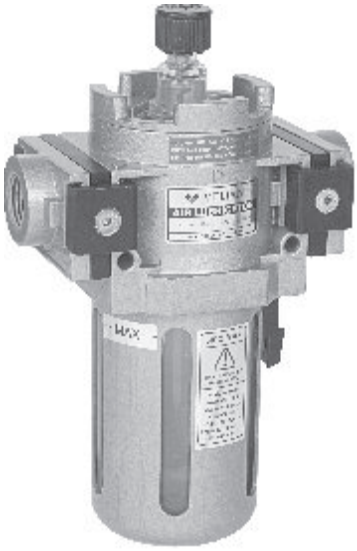
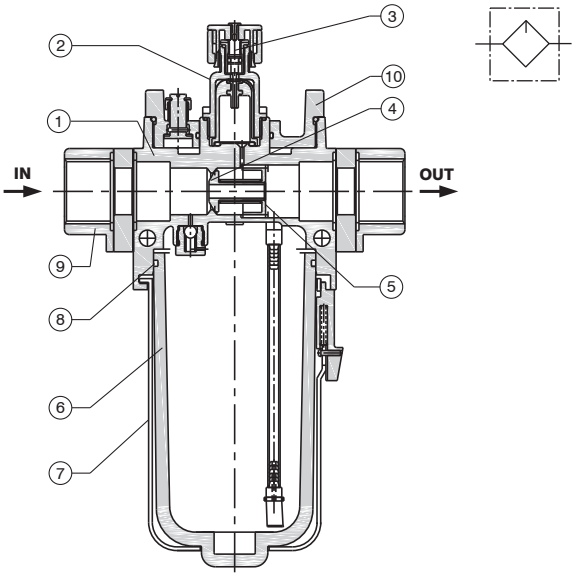
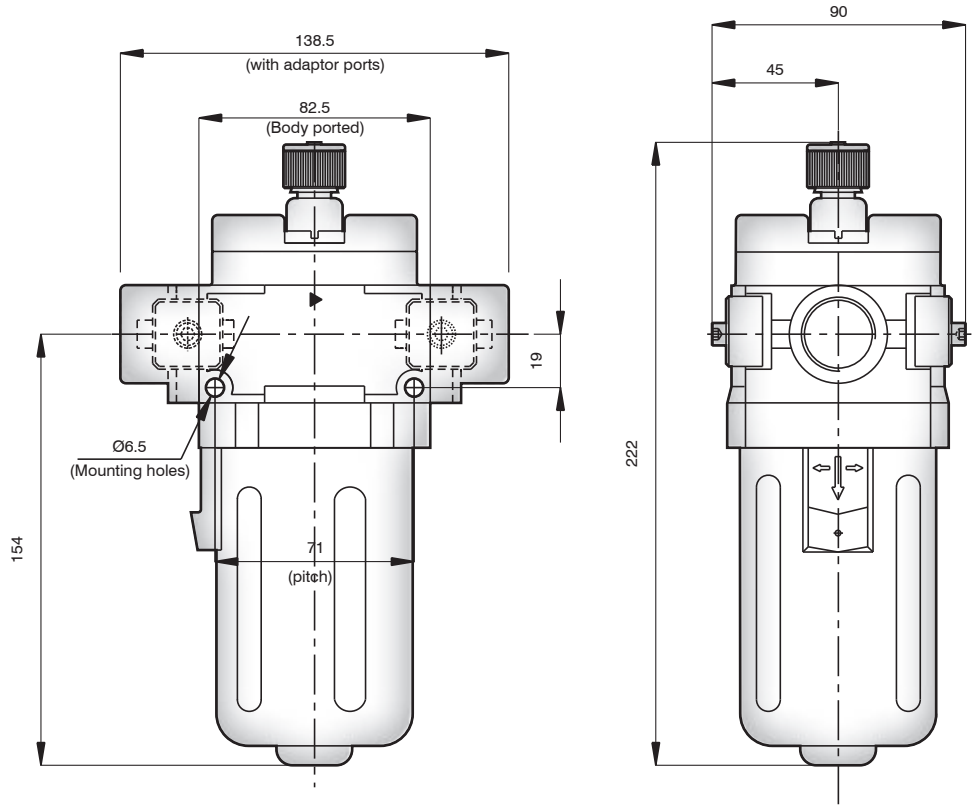




S.no.	Description	Material
1	Lubricator Body	Aluminum
2	Sight feed dome	Polycarbonate
3	Oil Adjusting Screw	Brass
4	Capacity valve	H.D.P.E
5	Retainer	Delrin
6	Bowl	Polycarbonate
7	Bowl Guard	Cold Rolled Steel
8	`O' Ring	Nytrile
9	Adaptor	Aluminum
10	Lubricator cap	Aluminum



AIR LUBRICATOR (V250 -1" & 1¼" BSP)

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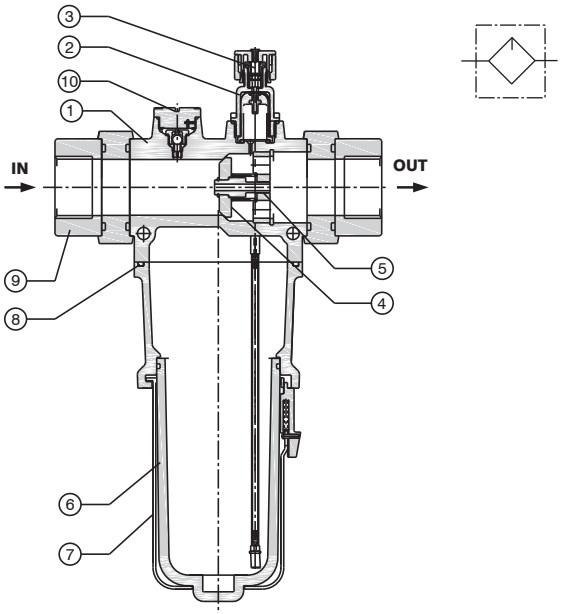
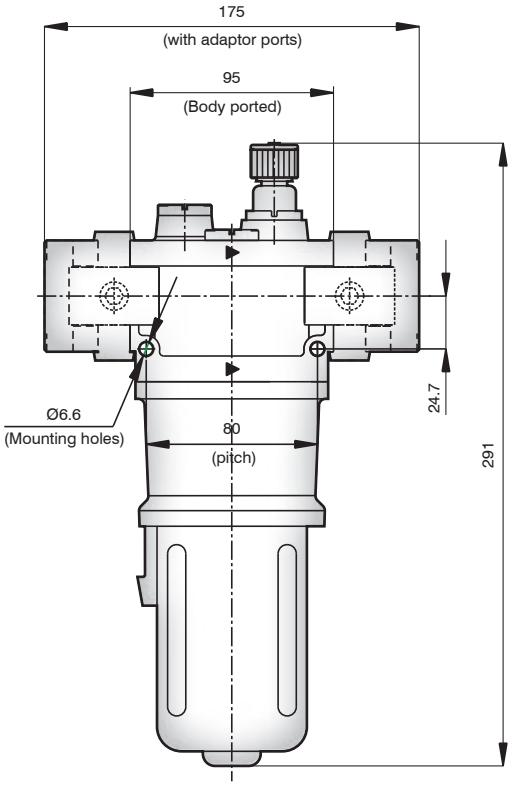
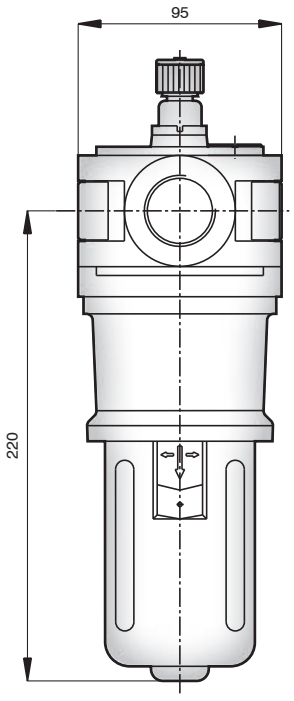


S.no.	Description	Material
1	Lubricator Body	Aluminum
2	Sight feed dome	Polycarbonate
3	Oil Adjusting Screw	Brass
4	Capacity valve	Aluminum
5	Retainer	Delrin
6	Bowl	Polycarbonate
7	Bowl Guard	Cold Rolled Steel
8	`O' Ring	Nytrile
9	Adaptor	Aluminum
10	Oil Filling Plug	Aluminum





AIR LUBRICATOR (V300 -1½" & 2" BSP)

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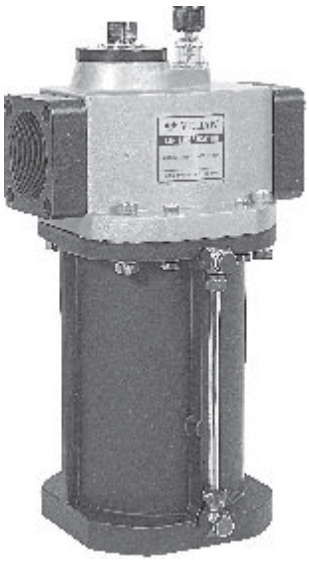
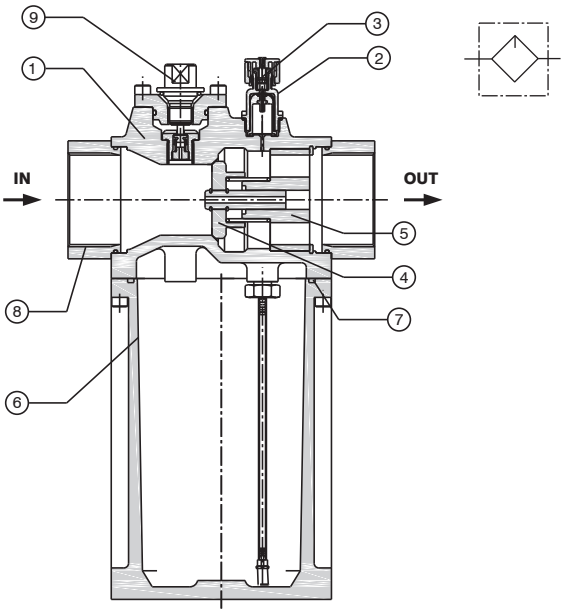
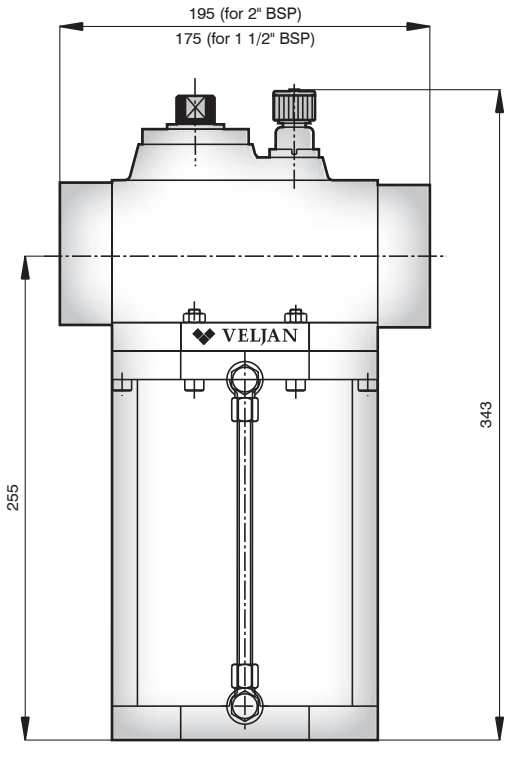
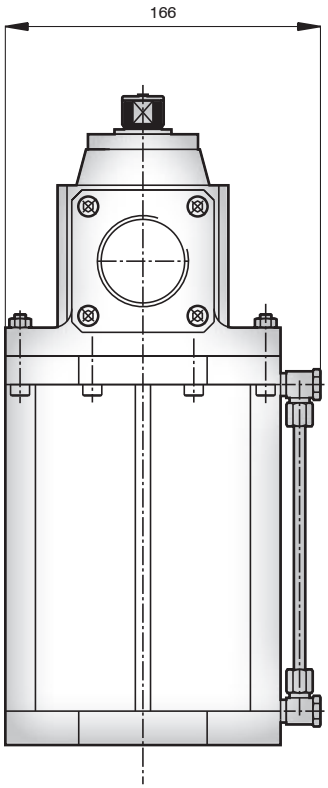




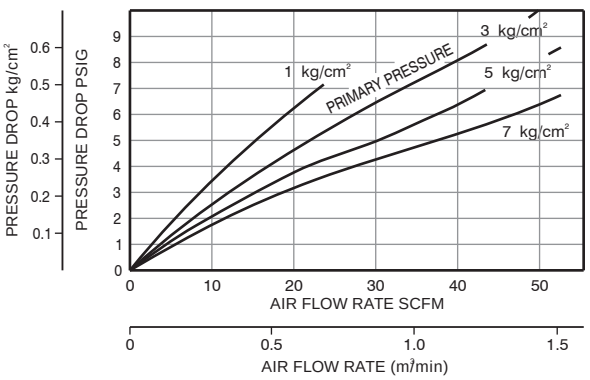
S.no.	Description	Material
1	Lubricator Body	Aluminum
2	Sight feed dome	Polycarbonate
3	Oil Adjusting Screw	Brass
4	Capacity valve	Aluminum
5	Retainer	Aluminum
6	Bowl	Aluminum
7	`O' Ring	Nytrile
8	Adaptor	Aluminum
9	Oil Filling Plug	Aluminum



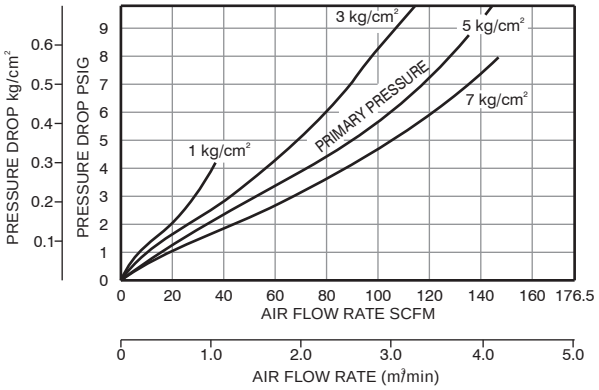


FLOW CHARACTERISTICS :

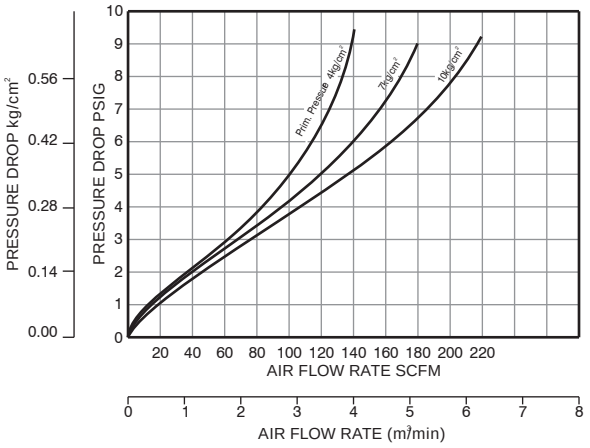
V050 (1/4" BSP PORT)



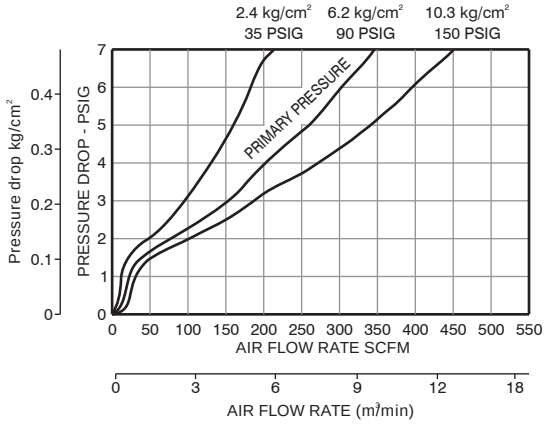
V100 (3/8" BSP PORT)



V200 (3/4" BSP PORT)



V250 (1¼" BSP PORT)



V300 (2" BSP PORT)