



FRL-500

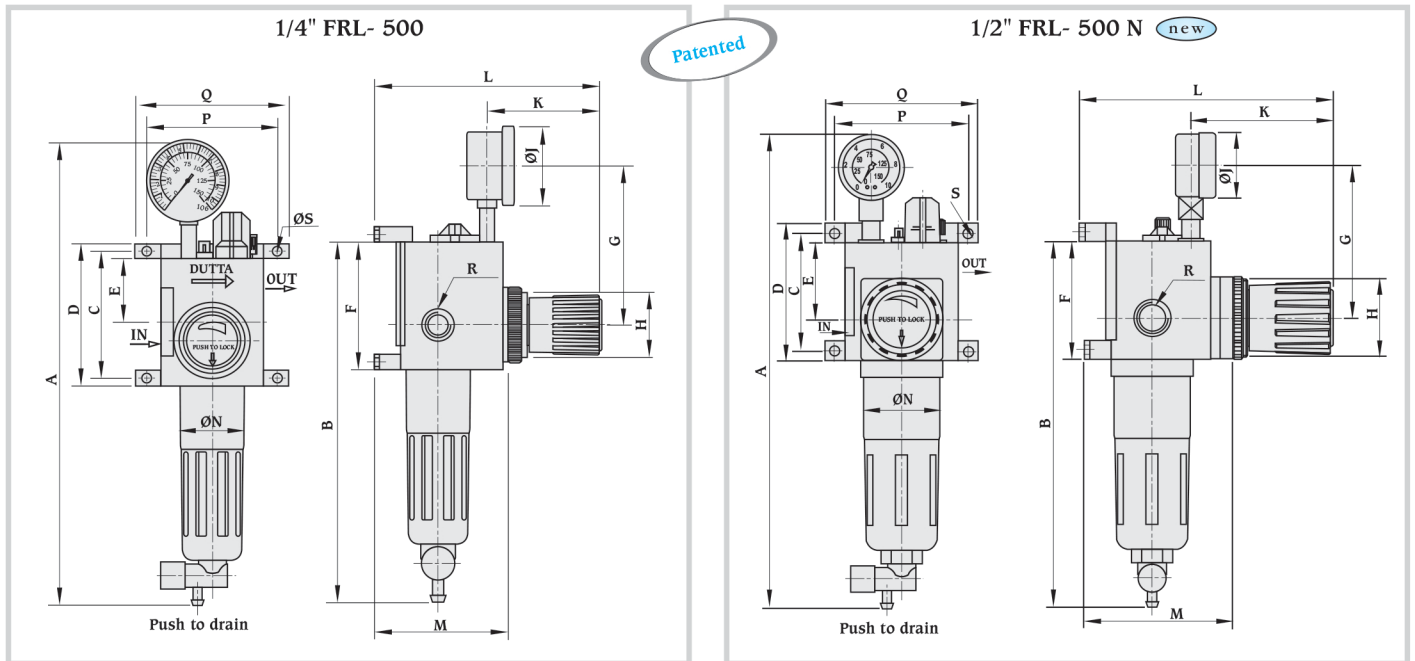
New



We, at Dutta Control, have successfully combined all three units i.e. Air Filter, Air Pressure Regulator and Air Lubricator in one single unit without compromising on any of the functions. It contains double diverter vane to give cyclonic motion to the air for effective moisture separation. The self-relieving diaphragm type regulator, regulates the outgoing air pressure inspite of wide fluctuations in the incoming air pressure. The proportion-maintaining lubricator supplies proportionate oil to the

compressed air in a precisely metered quantity. The pressure drop that occurs when the air flows through a venturi nozzle is used to convey oil from a reservoir to the drip cap. From here, the oil drips through a syphon tube into an air passage. As the oil leaves the syphon tube, it is atomised by the flowing air. Oil can be filled without closing the air supply. The drip rate is regulated using an adjusting screw. For general use, the factory sets it at 6 drops per minute.

Basic Dimensions



All dimensions in mm unless otherwise specified

Type	A	B	C	D	E	F	G	H	Ø J	K	L	M	Ø N	P	Q	R	Ø S
1/4" FRL 500	271	193	68	76	44	68	76	M 36 x 1.5P	Ø 43	63	124	82	Ø 37	70	82	1/4" BSP	Ø 4.5
1/2" FRL 500 N	316	245	79	92	51	79	102	M 52 x 1.5P	Ø 44	96	171	100	Ø 52	90	102	1/2" BSP	Ø 6.5

Specifications	1/4" FRL - 500	1/2" FRL - 500 N
Medium	Compressed air	
Design	Sintered filter with water separator Diaphragm type relieving regulator Directly proportional lubricator	
Mounting	Panel / Line mounting or bracket mounting	
Installation position	Vertical ± 5°	
Connection	1/4" BSP	1/2" BSP
Standard nominal flow rate*	1000 lit. / min.	2500 lit. / min.
Max. operating pressure	16 bar	
Regulator pressure range	0.5 to 12 bar and 0.5 to 7 bar	
Range of lubricator operation	From 3 lit. / min.	From 6 lit. / min.
Filter rating	Standard : 40 µ Option : 1,2,5,10,20,70,100 µ	
Condensate capacity	22 ml	40 ml
Oil capacity	45 ml	110 ml
Temperature range	-10° C to + 60° C	
Material	Housing - Aluminium die casting, Filter Bowl - Polycarbonate, Seal - Nitrile	

* With 10 bar primary pressure, a working pressure 6 bar & pressure drop of 1 bar > For correct lubricator operation, a minimum flow rate of 125 lit. / min. is required.

Note : Subject to change without prior notice

