



















Supplementary Catalogue 1 - 2023

Version : SC1 - 01 / 12 - 2023

JANATICS INDIA PRIVATE LIMITED

AIR PREPARATION UNITS			
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AIR PREPARATION UNITS

FILTER Series F3

Cat No F3 - 01 - 01 - A

AIR FILTER - G1/4" & G1/2"

Features

- Conforms to ISO 5782 -1
- Clean design
- Suitable for modular mounting
- Quick release of bayonet type bowl guard
- Screw type Manual drain for easy operation
- Bronze & Polyethylene filtering element
- Separator for efficient moisture separation
- Inbuilt service indicator turns from Green to Red when ($\Delta P > 1$ bar)
- High flow rate
- Increased bowl capacity



Function

Filter cleans the compressed air of impurities and condensate.

The air enters the inlet port and is directed into the louvers which centrifugally separate the entrained liquids and dirt which fall to the bottom of the bowl. The air, now free of water droplets and large dirt particles, passes through the filter element which removes small dirt particles.

Technical Specifications

Model	F33...				F35...		
Medium	Compressed air						
Port Size	G1/4				G1/2		
Filtration # (µm)		1	5	25	40 (Standard)	50	100
Flow rate @ (lts/min)	G1/4	700	700	850	900	950	1000
	G1/2	2300	2700	3300	3500	3600	3700
Maximum supply pressure (bar)	10						
Ambient temperature (C)	-10° to +50°						
Medium temperature (C)	+5° to +50°						
Bowl capacity (ml)	17				50		
Bowl material	Polycarbonate						
Bowl guard material	Plastic						
Installation	Vertical (As in the picture)						
Material of construction	Die cast Aluminium, Bronze, Acetal, Polycarbonate, Nitrile, polyamide, Stainless steel, Steel						
Optional accessories *	Clamp, Modular mounting kit						
Weight (kg)	0.19				0.65		

@ - Supply pressure 6.3 bar, Pressure drop $\Delta p = 0.32$ bar as per ISO standard (For standard models)

- For details see "How to order"

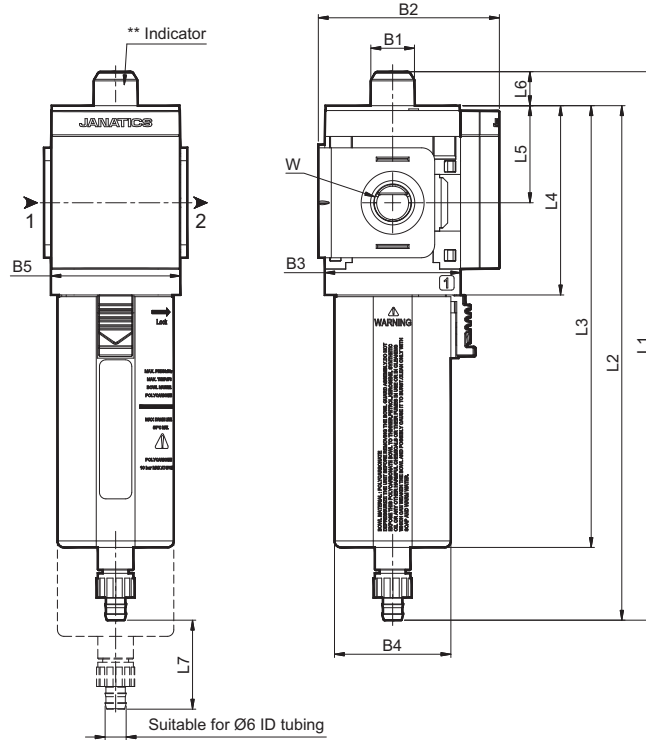
* - For details refer optional accessories Cat No APA-01-05-A

AIR PREPARATION UNITS

FILTER Series F3

Cat No F3 - 01 - 01 - A

Model F33... & F35...

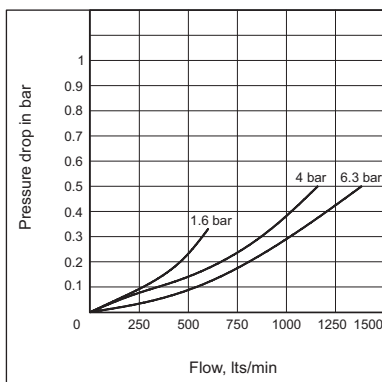


Model	W	L1	L2	L3	L4	L5	L6	L7	B1	B2	B3	B4	B5
F33....	G1/4	169.5	159	137	58.5	30	10.5	25	Ø13.5	55.5	42	SQ36	40
F35....	G1/2	235	217	196	89.5	45.5	18	30	Ø22	77.5	62	SQ56	62

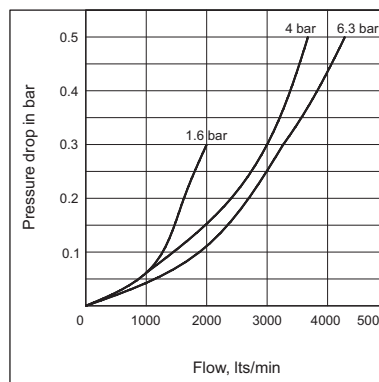
For details of clamp see optional accessories Cat No APA - 01 - 05 - A

Flow Graph

1/4" FILTER



1/2" FILTER



Flow graphs are for 40µm filtrations only.

Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush pipings for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.
5. Polycarbonate bowls may get damaged if exposed to synthetic oils, thinner, solvents, trichloroethylene, kerosene or other aromatic hydrocarbons.

AIR PREPARATION UNITS

FILTER Series F3

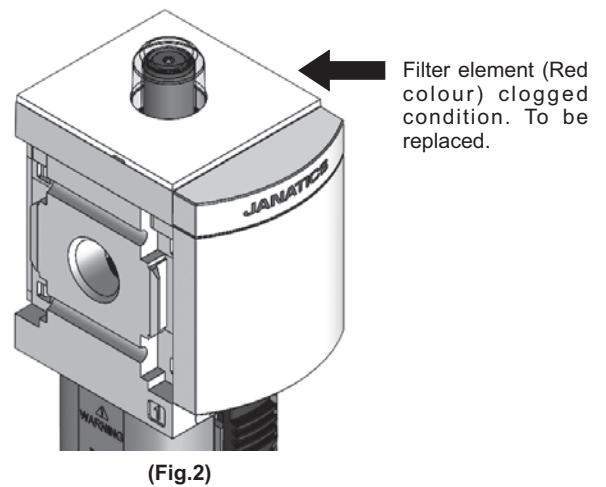
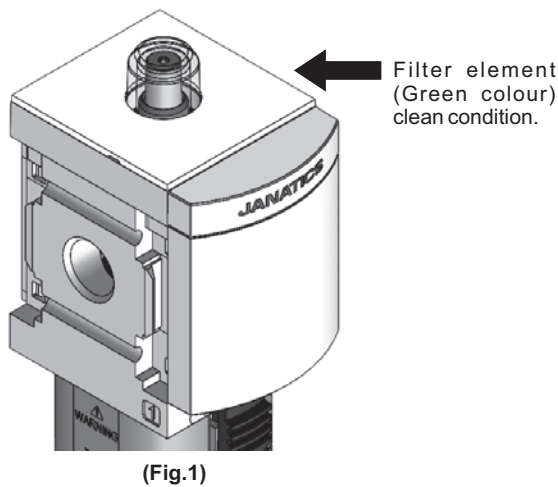
Cat No F3 - 01 - 01 - A

Warning

1. Bowl and Indicator cover are made of polycarbonate material and it cannot be used in the environments containing thinner, petrol, kerosene, synthetic oil or any other harmful chemicals.
2. Regularly monitor the bowl & Indicator cover. If any cracks or damages, it must be replaced with new one.

Cautions

1. Periodically drain the water so that it does not accumulate or clog the filter element.
2. Performance could be dropped if the filter element is clogged. Regularly inspect and replace the element.
3. If the bowl is heavily contaminated or its transparency has dropped, clean (or) replace with new bowl.
4. Clean (or) Replace the filter element before the differential indicator green colour (**Fig.1**) changes completely to red (**Fig.2**).



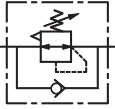
How to order

F3	361	3		M	
Body & Port size	Filtration in (µm)	Filter element configuration	Drain arrangement	Accessories	
361 1/4" & G1/4 563 1/2" & G1/2	0 - 1 1 - 5 2 - 25 3 - 40 (Standard) 4 - 50 5 - 100	Nil Sintered bronze material & Cylindrical shape 1 Plastic material & Cylindrical shape	M Manual drain with threaded type drain plug	Nil without clamp C2 with clamp (Standard)	

Ordering example:

Filter - 1/4 size (with G1/4 port) with 50µm, Plastic filter element material and Manual drain with Clamp :
Ordering No: **F336141-M-C2**

If ordered as 1/4 Filter, our standard model **F33613-M**, with 40µm will be supplied.



AIR PREPARATION UNITS REGULATOR Series R3

Cat No R3 - 01 - 01 - A

REGULATOR - G1/4" & G1/2"

Features

- Clean design
- Conforms to ISO 6953 - 1
- Non raising 'Press to Lock' adjusting knob for locking at any set pressure
- Diaphragm operated, relieving type
- Pressure compensated by balanced poppet
- Flow compensated (with venturi) for faster response
- Inbuilt flush type pressure gauge, it can be mounted at both ends and Inverted position
- Four pressure regulation range
- High flow rate
- Built in non return valve allows free air flow in reverse direction, when the inlet air is reduced below the setup pressure
- Good flow and regulating characteristics
- Padlock provision is provided to secure the pressure setting values
- Suitable for panel and modular mounting
- Quick release bayonet type bottom plug



Function

A pressure regulator maintains a constant output pressure in compressed air systems regardless of variations in input pressure.

Technical Specifications

Model	R33...	R35...
Medium	Compressed air - Filtered	
Port size	G1/4	G1/2
Flow rate @ (lts/min)	1200	4500
Working pressure range (bar)	0.8 to 15	
Regulating pressure range # (bar)	0.2 - 2, 0.2 - 4, 0.5 - 7, 0.5 - 10 (Standard)	
Ambient temperature ** (C)	-10° to +60°	
Medium temperature (C)	+5° to +50°	
Installation	Any position	
Materials of construction	Die cast Aluminium, Brass, Steel, Nitrile, Polyamide, Acetal, Stainless steel	
Optional accessories *	Clamp, Modular mounting kit	
Weight (Kg)	0.2	0.7

@ - Supply pressure 10 bar, Set pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar as per ISO standard (For standard models)

* - For details refer optional accessories Cat No APA- 01 - 05 - A

- For details see " How to order "

** - Ambient temperature +5° to +50°C for Pressure gauge and Pressure sensor model

Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush piping's for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with Teflon tape. Ensure Teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.

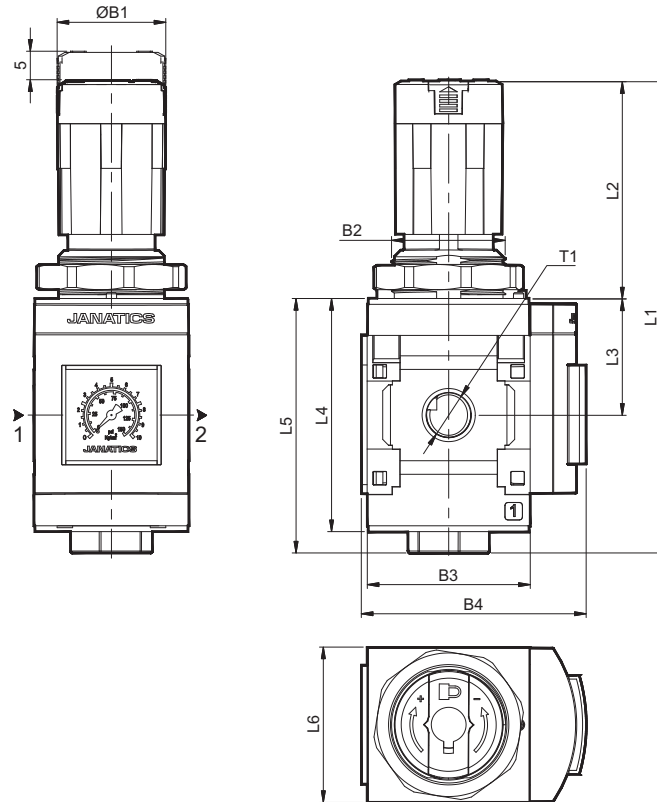
AIR PREPARATION UNITS

REGULATOR Series R3

Cat No R3 - 01 - 01 - A

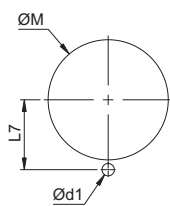
Model R3...

Standard

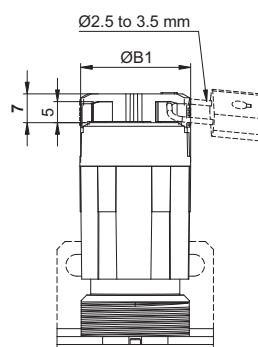


For Details of Clamp see optional accessories Cat No APA - 01 - 05 - A

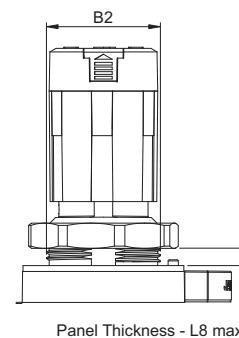
Panel Cut Hole Dimension



Pad Lock Provision



Panel Mounted



Model	T1	L1	L2	L3	L4	L5	L6	L7	L8	ØB1	B2	B3	B4	ØM	Ød1
R33...series	G1/4	121.5	56	30	60	65.5	40	18	4.5	28	M30x1.5	42	58	31	3.2
R35...series	G1/2	185	84	45.5	91	100.5	62	27	7	42.5	M45 x1.5	62	77.5	46	3.5

Pressure Setting

1. Pull the knob and adjust by turning the knob in clockwise direction to increase the pressure. Push the knob back to its locked position (Turning the knob counter clockwise will reduce the pressure)
2. Maintain the supply pressure, 1bar more than the set pressure value.

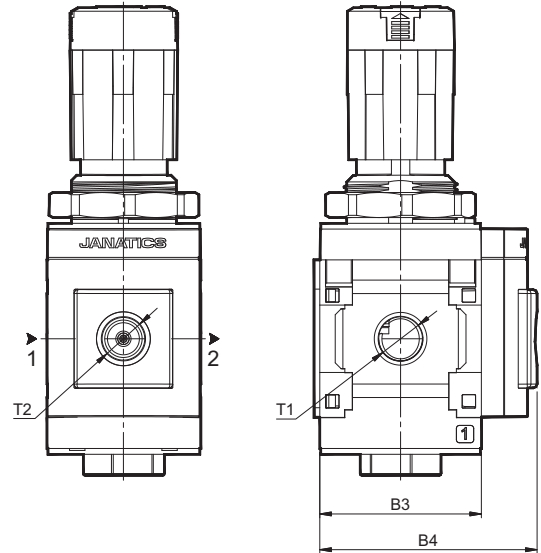
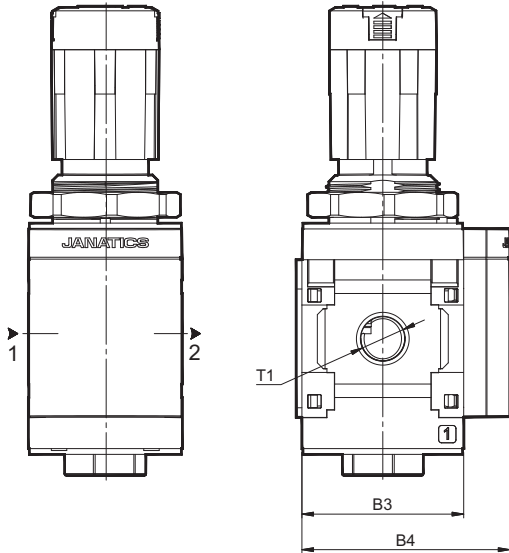
AIR PREPARATION UNITS

REGULATOR Series R3

Cat No R3 - 01 - 01 - A

With Front cover

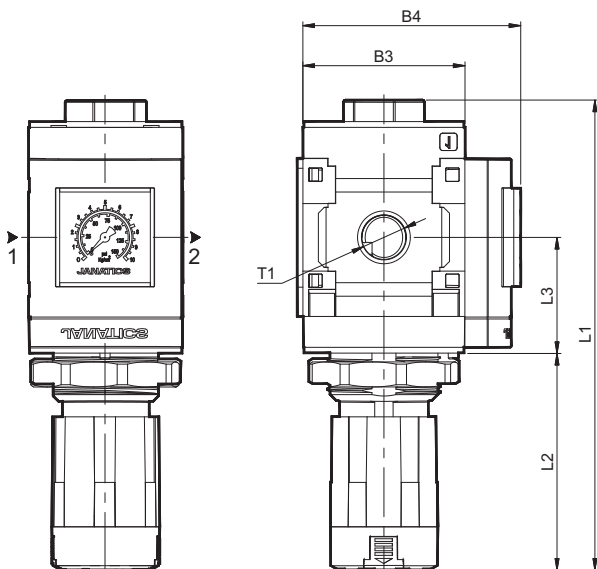
With adaptor plate (Suitable for 1/8" thread)



Model No.	T1	B3	B4
R33...-F1... series	G1/4	42	55.5
R35...-F1... series	G1/2	62	77.5

Model No.	T1	T2	B3	B4
R33...-F2... series	G1/4	G1/8	42	58
R35...-F2... series	G1/2	G1/8	62	77.5

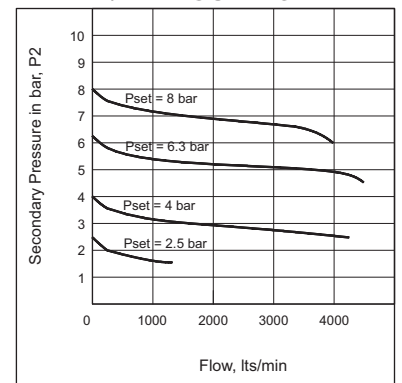
Reversed mounting position
with Flush type pressure gauge



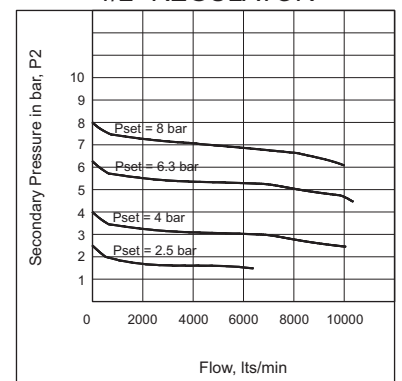
Model No.	T1	B3	B4	L1	L2	L3
R33...-F3... series	G1/4	42	58	121.5	56	30
R35...-F3... series	G1/2	62	77.5	185	84	46

Flow Graph

1/4" REGULATOR



1/2" REGULATOR



AIR PREPARATION UNITS

REGULATOR Series R3

Cat No R3 - 01 - 01 - A

Caution

1. Set the required pressure in regulator by visually verifying the displayed pressure values in pressure gauge.
2. For pressure setting, the knob should be operated manually. Do not use any tools for adjusting / turn the knob, it may cause damage to the knob as well as internal parts. Refer Fig. (a)
3. Do not adjust or turn the knob with knob locked condition and padlock fixed condition else it may damage the knob as well as internal parts. Adjust or turn the knob after removing the pad lock and knob unlocked condition. Refer Fig. (b)
4. Do not pull the lifter knob when the pressure adjusting knob in unlocked condition.
5. For fixing the pad lock, push the knob in downward direction for locking and then pull the lifter knob. Refer Fig. (c)
6. Repeated or sudden increase and decrease in pressure pulsation must be avoided because it could adversely affect the life of pressure gauge.
7. Applying pressure beyond the pressure range could damage the pressure gauge.
8. Pad lock should be selected in such way that it should exactly fit or slightly less than the slot in the lifter knob. Wrong selection will lead to malfunction.

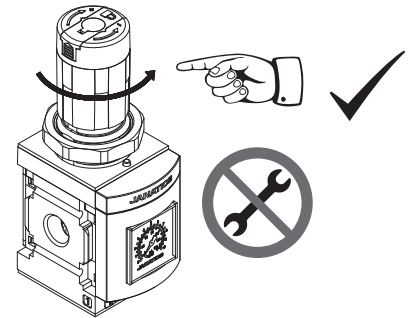


Fig. (a)

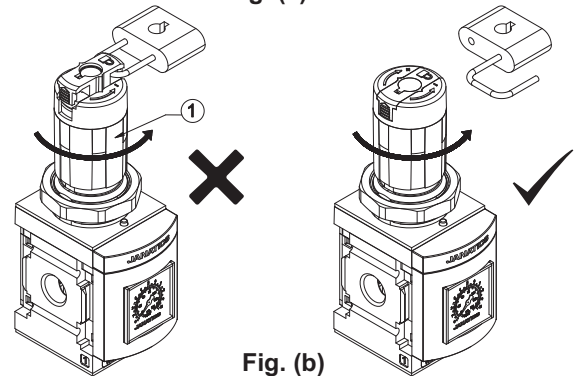


Fig. (b)

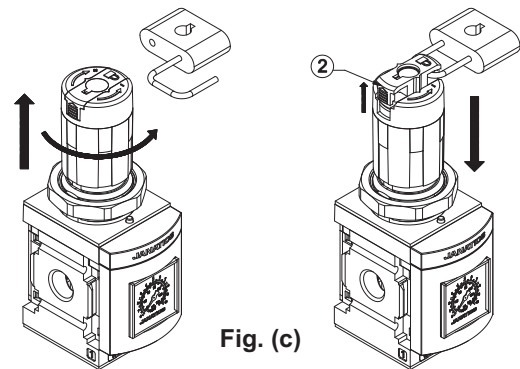


Fig. (c)

How to order

R3	361	4	-				
Body & Port size		Pressure range		Front side mounting Accessories		Rear side mounting Accessories	
361	1/4" & G1/4	1	0.2 - 2 bar	Nil	with Flush type Pressure gauge (standard position)	Nil	Without Accessories
563	1/2" & G1/2	2	0.2 - 4 bar	F1	with Front cover	C1	Clamp (panel mounting)
		3	0.5 - 7 bar	F2	with Adaptor plate 1/4 - G1/8	C2	Clamp (standard)
		4	0.5 - 10 bar (Standard)	F2	with Adaptor plate 1/2 - G1/8		
				F3	with Flush type Pressure gauge (Reversed position)		

Ordering example:

Regulator - 1/4 size (with G1/4 port), Pressure range 0.5 - 7 bar, with Front cover and Clamp (panel mounting) :
Ordering No: **R33613-F1C1**

If ordered as 1/4 Regulator, our standard model **R33614** with pressure range 0.5 - 10 bar (standard) and with Flush type pressure gauge (standard position) will be supplied.



AIR PREPARATION UNITS

LUBRICATOR Series L3

Cat No L3 - 01 - 01 - A

LUBRICATOR - G1/4" & G1/2"

Features

- Conforms to ISO 6301-1
- Fine adjustment of lubrication
- Lubrication proportional to flow
- Mist type
- Quick and easy oil top-up even during operation (under pressure)
- Quick release bayonet bowl guard
- High flow rate
- Suitable for Modular mounting
- Clean design



Function

A pneumatic lubricator supplies stream of oil to an airline to the internal working parts of pneumatic tool and other devices such as cylinders, valves and etc.,

Compressed air enters the inlet port, pressure drop occurs when air flow through a venturi nozzle in stem assembly which pressurise the oil inside the bowl. Oil stored in the bowl is pulled up by capillary effect and it reaches the needle, oil drops from there through oil drop controller to the outlet port. The amount of oil can be adjusted by needle, turning the needle clockwise direction reduces the oil drop and counter clockwise direction increase the oil drop.

Technical Specifications

Model	L33....	L35....
Medium	Compressed air - Filtered	
Port size	G1/4	G1/2
Flow rate @ (lts/min)	950	4000
Operating pressure range (bar)	0.5 to 10	
Ambient temperature (C)	-10° to +50°	
Medium temperature (C)	+5° to +50°	
Minimum operating flow (lts/min)	40	75
Bowl capacity (at maximum oil level) (ml)	30	65
Recommended oil	ISO VG 32 (Servo System 32)	
Bowl material	Polycarbonate	
Bowl guard material	Plastic	
Installation	Vertical (as in the picture)	
Materials of construction	Die cast Aluminium, Brass, Steel, Polycarbonate, Nitrile, Polyamide, Stainless steel, Acetal	
Optional accessories *	Clamp, Modular mounting kit	
Weight (kg)	0.19	0.595

@ - Supply pressure 6.3 bar, Pressure drop $\Delta p = 0.32$ bar as per ISO standard (For standard models)

* - For details refer optional accessories Cat No APA-01 -05 - A

Precautions

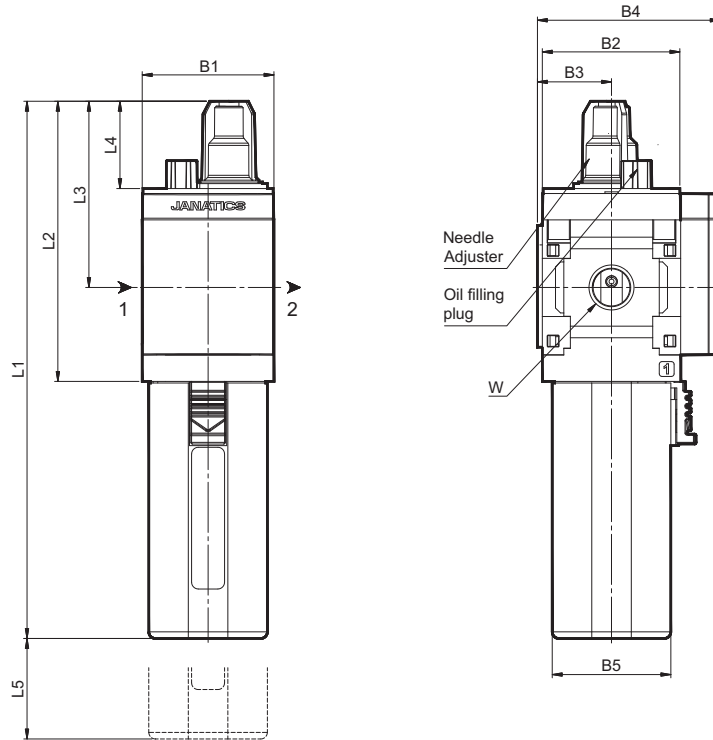
1. Note the direction of flow before installation and connect piping accordingly.
2. Flush pipings for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.
5. Polycarbonate bowls may get damaged and possibly fail if exposed to synthetic oils, thinner, solvents, trichloroethylene, kerosene or other aromatic hydrocarbons.

AIR PREPARATION UNITS

LUBRICATOR Series L3

Cat No L3 - 01 - 01 - A

Model L33... & L35...

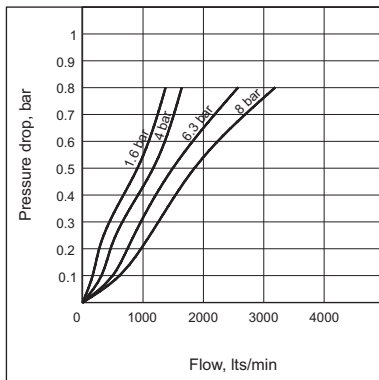


Model	W	B1	B2	B3	B4	B5	L1	L2	L3	L4	L5
L33....	G1/4	40	42	22.5	55.5	SQ 36	163	85	56.5	26.5	35
L35....	G1/2	62	62	33	77.5	SQ 56	221	114.5	70.5	25	50

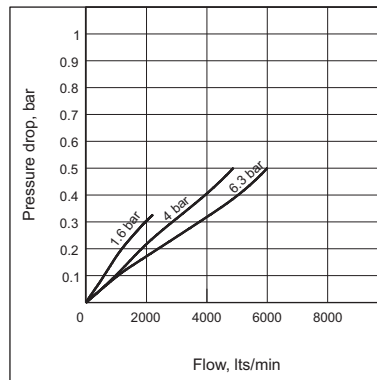
For Details of Clamp see optional accessories Cat No APA - 01 - 05 - A

Flow Graph

1/4" LUBRICATOR



1/2" LUBRICATOR



AIR PREPARATION UNITS

LUBRICATOR Series L3

Cat No L3 - 01 - 01 - A

Warning

1. Bowl, Oil drop indicator and Oil drop controller are made of polycarbonate material and it cannot be used in environments containing, thinner, petrol, kerosene, synthetic oil or any other harmful chemicals.
2. Regularly monitor the bowl, oil drop controller and Indicator. If any cracks or damage, it must be replaced with new one.
3. a. Oil filling method through oil filling plug.
Oil can be filled under pressure, however it is recommended to close the needle fully when the outlet port is blocked condition. If the outlet port is connected to system, no need to close the needle.
- b. Oil filling method through bowl.
Oil can be filled under pressure, however it is recommended to close the needle fully and remove the oil filling plug when the outlet port is blocked condition. This is required to depressurise the unit.
If the outlet port is connected to system, no need to close the needle and no need to release the oil filling plug.
- c. Oil can be filled directly through oil filling plug (or) Bowl if the inlet air is blocked condition.

Cautions

1. Flush and wash pipes to be used. Dirt or foreign materials in piping will lower product performance.
2. Do not overfill the reservoir. Fill upto "MAX. OIL LEVEL".
3. If the working air rate is low for the lubricator, oil may not drip. Check the minimum air rate required for dripping oil.
4. Periodically replenish oil in the lubricator bowl so that it does not drop below the lower limit.
5. Use proper tool (1) to adjust the Needle. Recommended tightening torque: 0.5 Nm max. (fig.1).
6. Recommended tightening torque for oil filling plug (3) and oil drop indicator (2) is 1 Nm max. (fig.1).

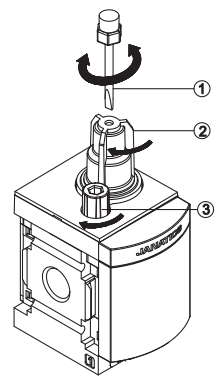


Fig.1

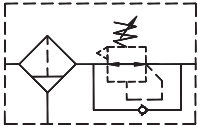
How to order

L3	361	-	○
Body & Port size		Accessories	
361	1/4" & G1/4	Nil	without clamp
563	1/2" & G1/2	C2	with clamp (Standard)

Ordering example:

Lubricator - 1/4 size (with G1/4 port) with Clamp - Ordering No: **L3361-C2**

If ordered as 1/4 Lubricator, our standard model **L3361** will be supplied.



AIR PREPARATION UNITS

FILTER REGULATOR COMBINATION Series FRC3

Cat No FRC3 - 01 - 01 - A

FILTER REGULATOR COMBINATION - G1/4 & G1/2

Features

- Clean design
- Suitable for panel and modular mounting
- Filter
 - Bronze (or) Polyethylene filtering element
 - Screw type manual drain for easy operation
 - Quick release of bayonet bowl guard
- Regulator - Diaphragm operated, relieving type
 - Flow compensated (with venturi) for faster response
 - Non raising 'Press to lock' adjusting knob for locking at any set pressure
 - Inbuilt flush type pressure gauge, it can be mounted at both ends
- Good flow and regulating characteristics
- Padlock provision is provided to secure the pressure setting values
- Built in non return valve allows free air flow in reverse direction



Function

A filter regulator combines both filter and pressure regulator in a single unit. A regulator is used to control the speed and precision of the flow of air, whereas the filter cleans the air that travels from the compressor.

Technical Specifications

Model	FRC33...	FRC35...
Medium	Compressed air	
Port size	G1/4	G1/2
Flow rate @ (lts/min)	1000	4500
Working pressure range (bar)	0.8 to 10	
Regulating pressure range # (bar)	0.2 to 2, 0.2 to 4, 0.5 to 7, 0.5 to 8.5 (Standard)	
Ambient temperature ** (C)	-10° to +50°	
Medium temperature (C)	+5° to +50°	
Filtration # (µm)	1, 5, 25, 40 (standard), 50, 100	
Bowl capacity (at Maximum condensate level) (ml)	17	50
Bowl material	Polycarbonate	
Bowl guard material	Plastic	
Installation	Vertical (as shown in the picture)	
Materials of construction	Die cast Aluminium, Brass, Steel, Polycarbonate, Nitrile, Polyamide, Stainless Steel, Acetal, Bronze	
Optional accessories *	Clamp, Modular mounting kit	
Weight (kg)	0.27	0.90

@ - Supply pressure 10 bar, Set pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar as per ISO standard (For standard models)

* - For details refer optional accessories Cat No APA- 01 - 05 - A

- For details see " How to order "

** - Ambient temperature +5° to +50° C for Pressure gauge and Pressure sensor model

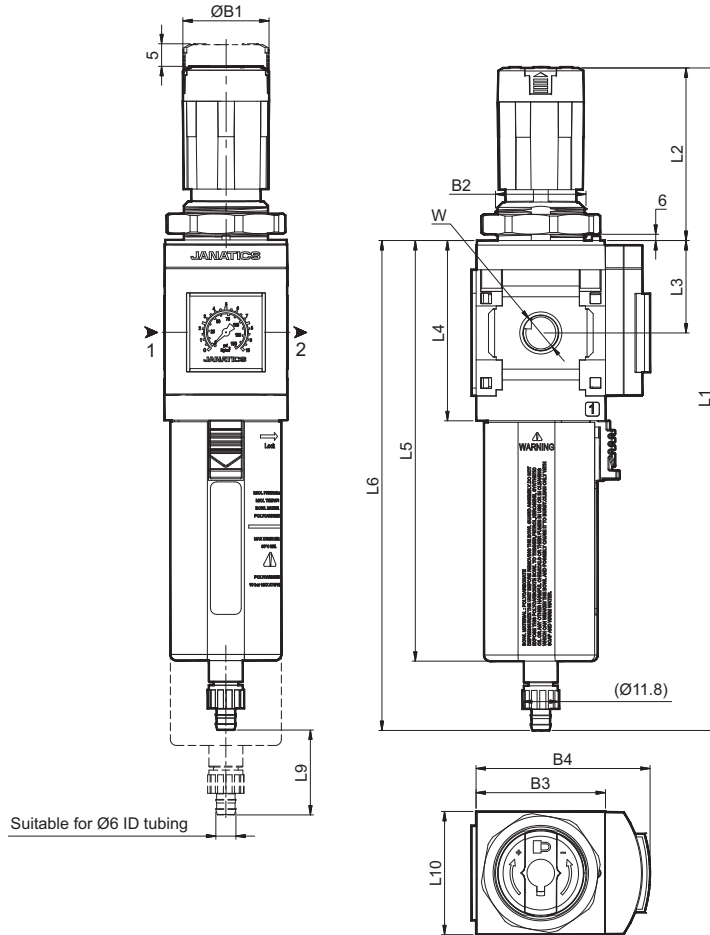
AIR PREPARATION UNITS

FILTER REGULATOR COMBINATION Series FRC3

Cat No FRC3 - 01 - 01 - A

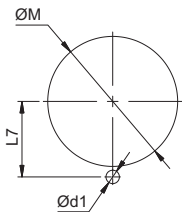
Model FRC3...

Standard

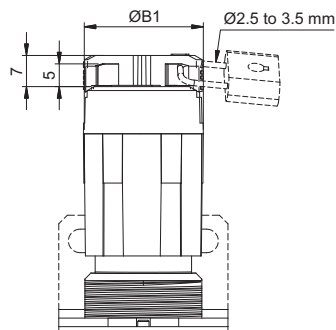


For Details of Clamp see optional accessories Cat No APA - 01 - 05 - A

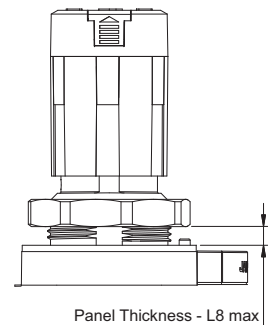
Panel Cut Hole Dimension



Pad Lock Provision



Panel Mounted



Model No.	T1	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	ØB1	B2	B3	B4	ØM	Ød1
FRC33...-M	G1/4	215	56	30	58.5	137	159	18	4.5	25	40	28	M30x1.5	42	58	31	3.2
FRC35...-M	G1/2	302	84	45.5	89.5	196	217	27	7	30	62	42.5	M45x1.5	62	77.5	46	3.5

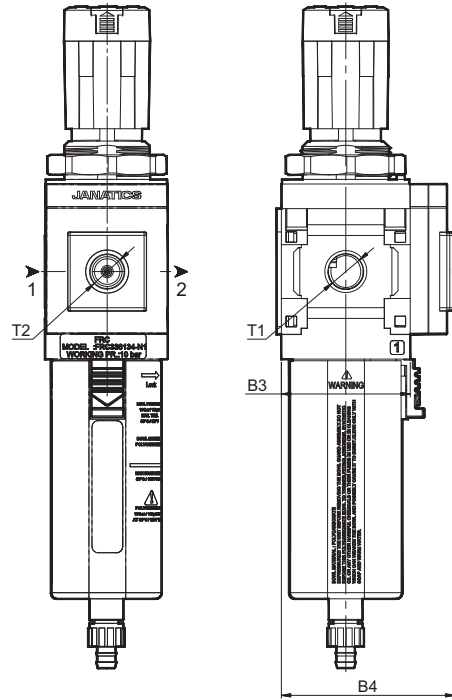
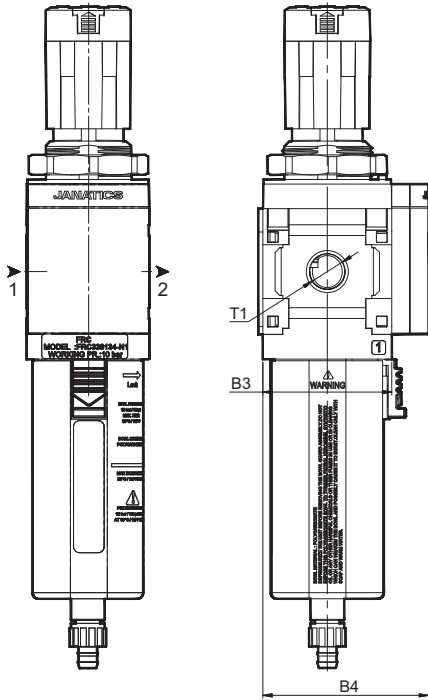
AIR PREPARATION UNITS

FILTER REGULATOR COMBINATION Series FRC3

Cat No FRC3 - 01 - 01 - A

With Front cover

With adaptor plate (Suitable for 1/8" thread)

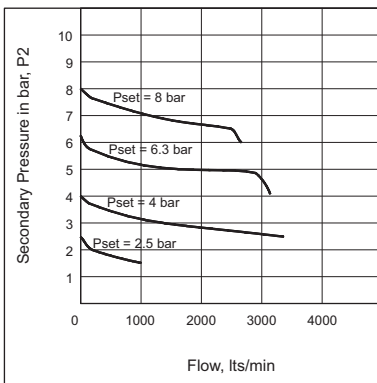


Model No.	T1	B3	B4
FRC33...-F1 series	G1/4	42	55.5
FRC35...-F1 series	G1/2	62	77.5

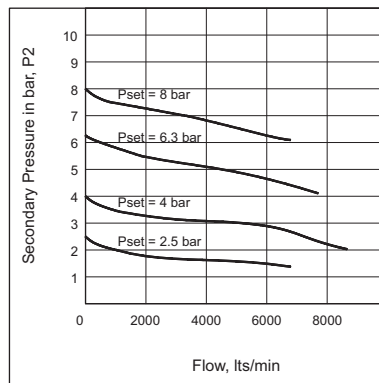
Model No.	T1	T2	B3	B4
FRC33...-F2 series	G1/4	G1/8	42	58
FRC35...-F2 series	G1/2	G1/8	62	77.5

Flow Graph

1/4" FRC



1/2" FRC



AIR PREPARATION UNITS FILTER REGULATOR COMBINATION Series FRC3

Cat No FRC3 - 01 - 01 - A

Caution

1. Set the required pressure in regulator by visually verifying the displayed pressure values in pressure gauge.
2. For pressure setting, the knob should be operated manually. Do not use any tools for adjusting / turn the knob, it may cause damage to the knob as well as internal parts. Refer **Fig. (a)**
3. Do not adjust or turn the knob with knob locked condition and padlock fixed condition else it may damage the knob as well as internal parts. Adjust or turn the knob after removing the pad lock and knob unlocked condition. Refer **Fig. (b)**
4. Do not pull the lifter knob when the pressure adjusting knob in unlocked condition.
5. For fixing the pad lock, push the knob in downward direction for locking and then pull the lifter knob. Refer **Fig. (c)**
6. Repeated or sudden increase and decrease in pressure pulsation must be avoided because it could adversely affect the life of pressure gauge.
7. Applying pressure beyond the pressure range could damage the pressure gauge.
8. Pad lock should be selected in such way that it should exactly fit or slightly less than the slot in the lifter knob. Wrong selection will lead to malfunction.
9. Periodically drain the water so that it does not accumulate or clog the filter element.
10. Performance could be dropped if the filter element is clogged. Regularly inspect and replace the element.
11. If the bowl is heavily contaminated or its transparency has dropped, clean (or) replace with new bowl.

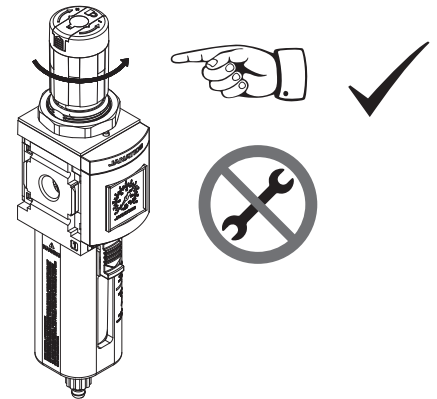


Fig. (a)

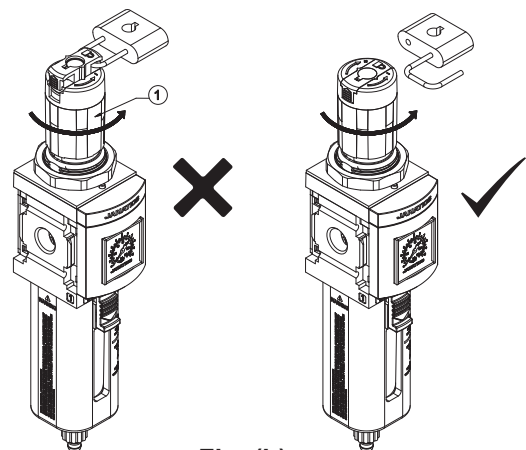


Fig. (b)

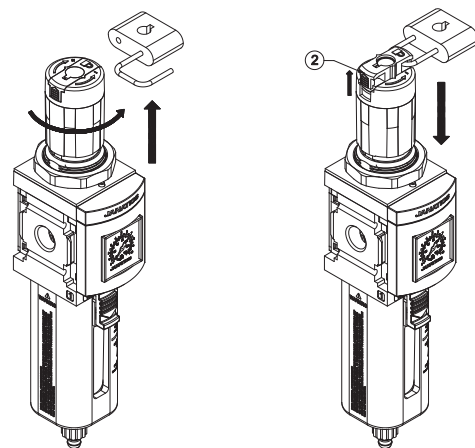


Fig. (c)

Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush piping's for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with Teflon tape. Ensure Teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.

Pressure Setting

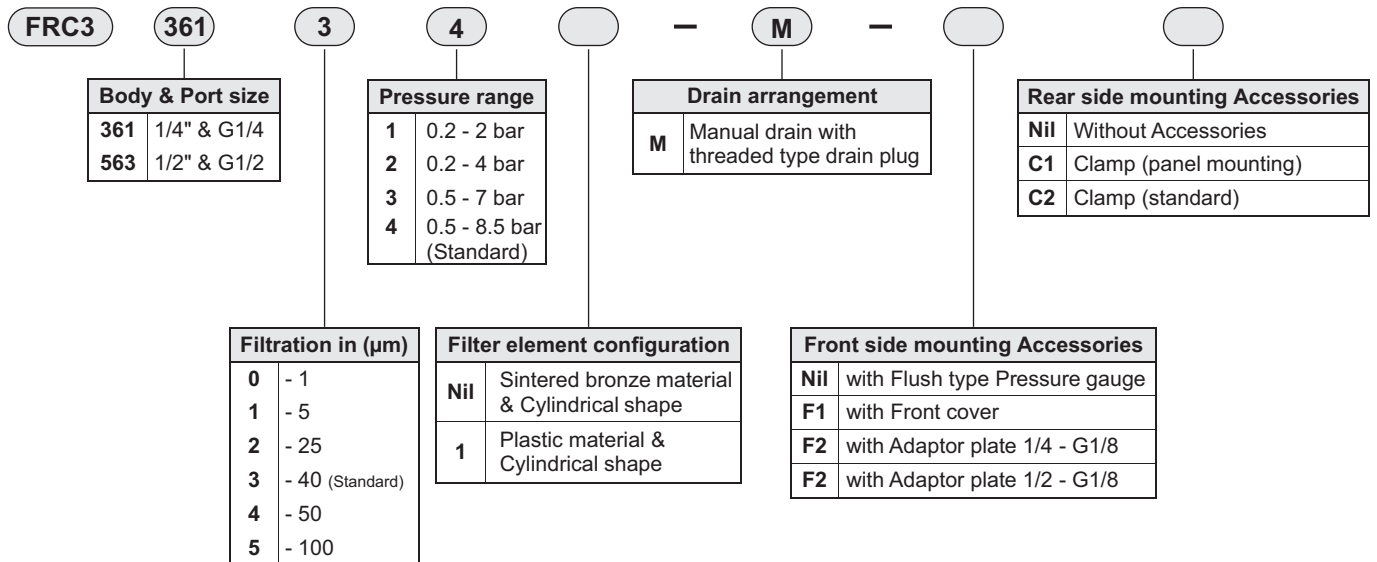
1. Pull the knob and adjust by turning the knob in clockwise direction to increase the pressure. Push the knob back to its locked position (Turning the knob counter clockwise will reduce the pressure)
2. Maintain the supply pressure, 1bar more than the set pressure value.

AIR PREPARATION UNITS

FILTER REGULATOR COMBINATION Series FRC3

Cat No FRC3 - 01 - 01 - A

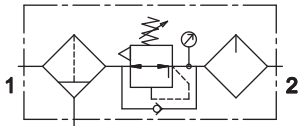
How to order



Ordering example:

Filter Regulator Combination - 1/4 size (with G1/4 port) with 5 μm Filter, Pressure range 0.5 - 7 bar, Plastic material filter element, with Front cover and Clamp (standard) - **Ordering No : FRC3361131-M-F1C2**

If ordered as FRC 1/4 our standard model **FRC336134-M**, with 40 μm filter, pressure range 0.5 - 8.5 bar and with Flush type pressure gauge will be supplied.



AIR PREPARATION UNITS

FRL MODULAR Series FRLM3

Cat No FRLM3W - 01 - 01 - A

FILTER - REGULATOR - LUBRICATOR, MODULAR - G1/4 & G1/2

Features

- Modular type for easy and fast maintenance
- Suitable for Modular mounting
- Clean design
- Filter
 - Inbuilt service indicator turns from green to red when ($\Delta p=1$ bar)
 - Separator for efficient moisture separation
 - Screw type manual drain for easy operation
 - Bronze & Polyethylene filtering element
 - Increased bowl capacity
- Regulator - Diaphragm operated, relieving type
 - Pressure compensated by balanced poppet
 - Flow compensated (with venturi) for faster response
 - Non raising 'Press to lock' adjusting knob for locking at any set pressure
 - Padlock provision is provided to secure the pressure setting values
 - Inbuilt flush type pressure gauge, it can be mounted at both ends & Inverted position
 - Built in non return valve allows free air flow in reverse direction
 - Quick release bayonet type bottom plug
- Lubricator - Mist type lubricator
 - Fine adjustment of lubrication
 - Lubrication proportional to flow
 - Quick and easy oil top-up even during operation (under pressure)
- Quick release bayonet type bowl guard
- Good flow and regulating characteristics

Model - with Wall mounting bracket



Model - with Bracket



Technical Specifications

Model	FRLM33...	FRLM35...
Medium	Compressed air	
Port size	G1/4	G1/2
Flow rate @ (lts/min)	700	3500
Working pressure range (bar)	0.8 to 10	
Regulating pressure range # (bar)	0.2 to 2, 0.2 to 4, 0.5 - 7, 0.5 - 8.5 (Standard)	
Ambient temperature ** C	-10° to +50°	
Medium temperature C	+5° to +50°	
Filtration # (µm)	1, 5, 25, 40 (Standard), 50, 100	
Minimum operating flow (lts/min)	40	75
Bowl capacity Filter (at maximum condensate level) (ml)	17	50
Bowl capacity Lubricator (at maximum oil level) (ml)	30	65
Recommended oil	ISO VG 32 (Servo System 32)	
Bowl material	Polycarbonate	
Bowl guard material	Plastic	
Installation	Vertical (as in the picture)	
Materials of construction	Die cast Aluminium, Brass, Steel, Polycarbonate, Nitrile, Polyamide, Stainless steel, Acetal, Bronze	
Optional accessories *	Clamp, Modular mounting kit	
Weight (kg)	0.69	2.13

@ - Supply pressure 10 bar, Set pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar as per ISO standard (For standard models)

* - For details refer optional accessories Cat No APA- 01 - 05 - A

- For details see " How to order "

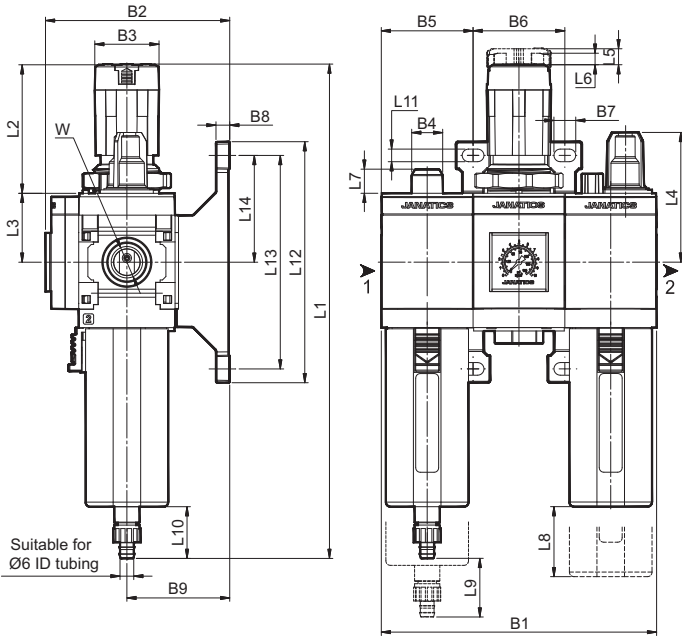
** - Ambient temperature +5° to +50°C for Pressure gauge and Pressure sensor model

AIR PREPARATION UNITS

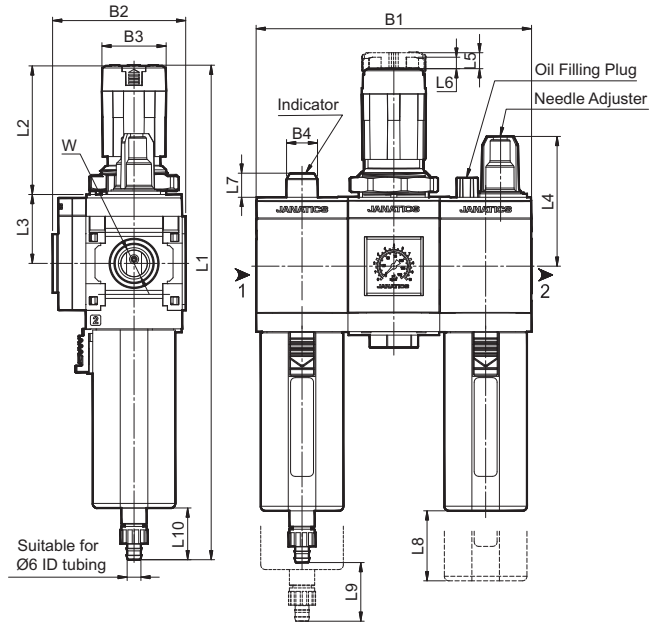
FRL MODULAR Series FRLM3

Cat No FRLM3W - 01 - 01 - A

Model FRLM3...-W



Model FRLM3...-B



Model FRLM3...-W

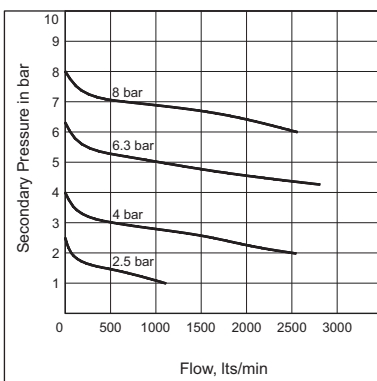
Model	W	B1	B2	B3	B4	B5	B6	B7	B8	B9	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
FRLM33...-W	G1/4	120	80	Ø28	Ø13.5	40	40	9.5	6	45	215	56	30	56.5	7	5	10.5	35	25	22	5.5	105	93	46.5
FRLM35...-W	G1/2	186	97	Ø42.5	Ø22	62	62	10	7.5	52.5	302	84	45.5	70.5	7	5	18	50	30	21	6.5	158	142	71

Model FRLM3...-B

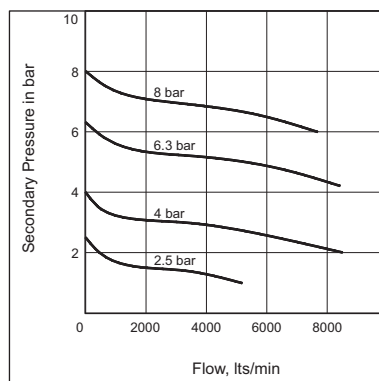
Model	W	B1	B2	B3	B4	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
FRLM33...-B	G1/4	120	58	Ø28	Ø13.5	215	56	30	56.5	7	5	10.5	35	25	22
FRLM35...-B	G1/2	186	77.5	Ø42.5	Ø22	302	84	45.5	70.5	7	5	18	50	30	21

Flow Graph

1/4" FRLM



1/2" FRLM



AIR PREPARATION UNITS

FRL MODULAR Series FRLM3

Cat No FRLM3W - 01 - 01 - A

Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush pipings for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.
5. Polycarbonate bowls may get damaged and possibly fail if exposed to synthetic oils, thinner, solvents, trichloroethylene, kerosene or other aromatic hydrocarbons.

Pressure Setting

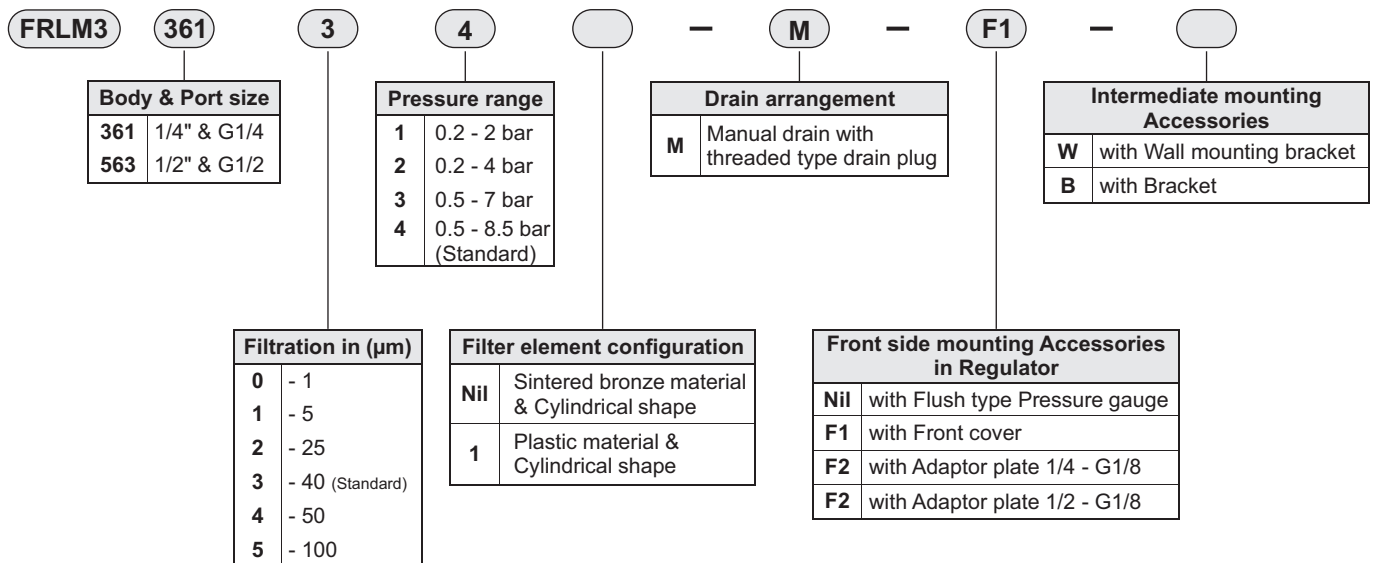
Pull the knob and adjust by turning the knob clockwise to increase the pressure. Push the knob back to its locked position. (Turning the knob counter clockwise will reduce the pressure)

Caution and Warning

For caution and warning refer catalogue No:

- 1) F3 - 01 - 01 for Filter
- 2) R3 - 01 - 01 for Regulator
- 3) L3 - 01 - 01 for Lubricator

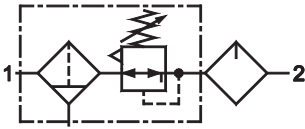
How to order



Ordering example:

Filter Regulator Lubricator Modular - 1/4 size (with G1/4 port) with 5µm Filter and pressure range 0.5 - 7 bar, Plastic material filter element, with Front cover and with Bracket - **Ordering No : FRLM3361131-M-F1-B**

If ordered as FRLM 1/4 our standard model **FRLM336134-M-W**, with 40µm filter, pressure range 0.5 -10 bar and with Flush type pressure gauge, with wall mounting bracket will be supplied.



AIR PREPARATION UNITS

FRCL MODULAR Series FRCLM3

Cat No FRCLM3W - 01 - 01 - A

FILTER REGULATOR COMBINATION - LUBRICATOR, MODULAR - G1/4 & G1/2

Features

- Modular type for easy and fast maintenance
- Suitable for Modular mounting
- Clean design
- Filter
 - Inbuilt service indicator turns from green to red when ($\Delta p=1$ bar)
 - Separator for efficient moisture separation
 - Screw type manual drain for easy operation
 - Bronze & Polyethylene filtering element
 - Increased bowl capacity
- Regulator - Diaphragm operated, relieving type
 - Pressure compensated by balanced poppet
 - Flow compensated (with venturi) for faster response
 - Non raising 'Press to lock' adjusting knob for locking at any set pressure
 - Padlock provision is provided to secure the pressure setting values
 - Inbuilt flush type pressure gauge, it can be mounted at both ends & Inverted position
 - Built in non return valve allows free air flow in reverse direction
 - Quick release bayonet type bottom plug
- Lubricator - Mist type lubricator
 - Fine adjustment of lubrication
 - Lubrication proportional to flow
 - Quick and easy oil top-up even during operation (under pressure)
- Quick release bayonet type bowl guard
- Good flow and regulating characteristics

Model - with Wall mounting bracket



Model - with Bracket



Technical Specifications

Model	FRCLM33...	FRCLM35...
Medium	Compressed air	
Port size	G1/4	G1/2
Flow rate @ (lts/min)	700	3000
Working pressure range (bar)	0.8 to 10	
Regulating pressure range # (bar)	0.2 to 2, 0.2 to 4, 0.5 to 7, 0.5 to 8.5 (Standard)	
Ambient temperature ** C	-10° to +50°	
Medium temperature C	+5° to +50°	
Filtration # (µm)	1, 5, 25, 40 (Standard), 50, 100	
Minimum operating flow (lts/min)	40	75
Bowl capacity FRC (at maximum condensate level) (ml)	17	50
Bowl capacity Lubricator (at maximum oil level) (ml)	30	65
Recommended oil	ISO VG 32 (Servo System 32)	
Bowl material	Polycarbonate	
Bowl guard material	Plastic	
Installation	Vertical (as in the picture)	
Materials of construction	Die cast Aluminium, Brass, Steel, Polycarbonate, Nitrile, Polyamide, Stainless steel, Acetal, Bronze	
Optional accessories *	Clamp, Modular mounting kit	
Weight (kg)	0.52	1.62

@ - Supply pressure 10 bar, Set pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar as per ISO standard (For standard models)

* - For details refer optional accessories Cat No APA- 01 - 05 - A

- For details see "How to order"

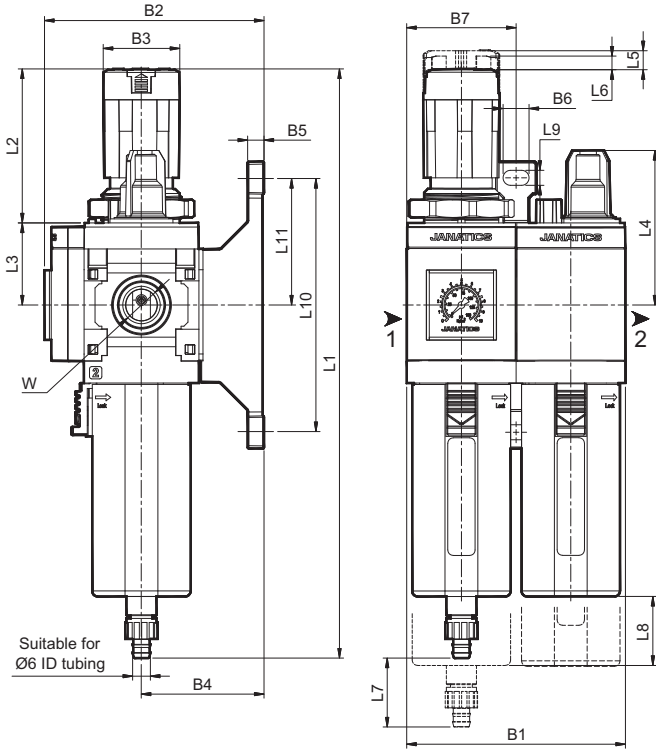
** - Ambient temperature +5° to +50°C for Pressure gauge and Pressure sensor model

AIR PREPARATION UNITS

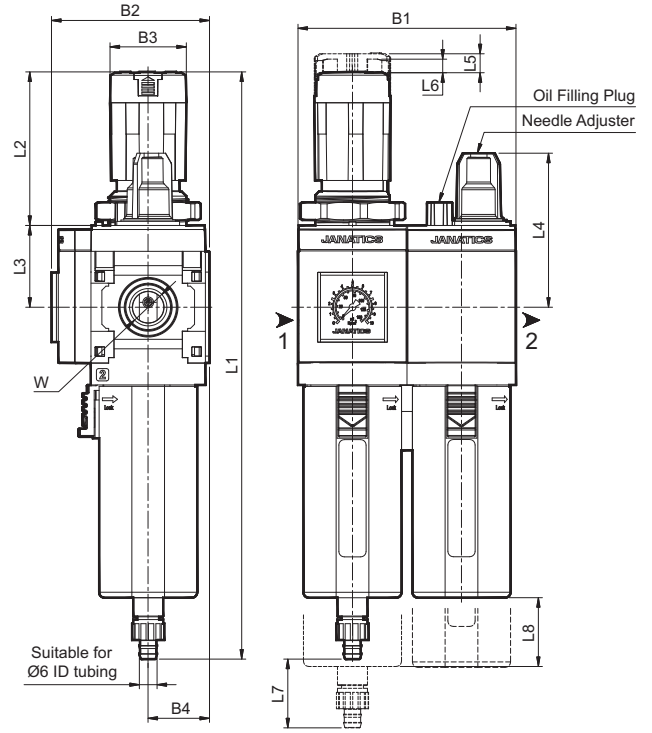
FRCL MODULAR Series FRCLM3

Cat No FRCLM3W - 01 - 01 - A

Model FRCLM3...-W



Model FRCLM3...-B



Model FRCLM3...-W

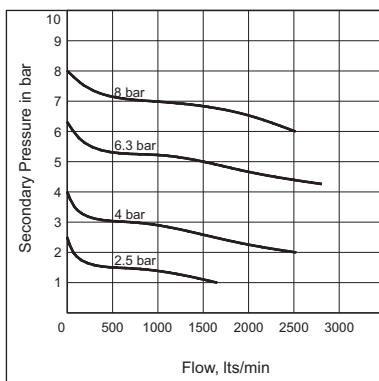
Model	W	B1	B2	B3	B4	B5	B6	B7	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
FRCLM33...-W	G1/4	80	80	Ø28	45	6	9.5	40	215	56	30	56.5	7	5	25	35	5.5	93	46.5
FRCLM35...-W	G1/2	124	97	Ø42.5	52.5	7.5	10	62	302	84	45.5	70.5	7	5	30	50	6.5	142	71

Model FRCLM3...-B

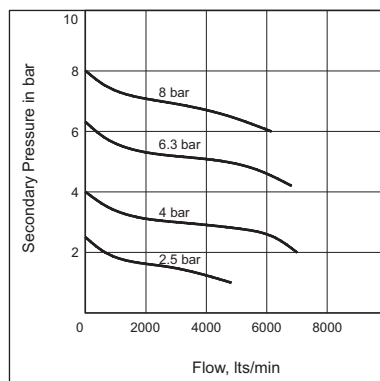
Model	W	B1	B2	B3	B4	L1	L2	L3	L4	L5	L6	L7	L8
FRCLM33...-B	G1/4	80	58	Ø28	22.5	215	56	30	56.5	7	5	25	35
FRCLM35...-B	G1/2	124	77.5	Ø42.5	33	302	84	45.5	70.5	7	5	30	50

Flow Graph

1/4" FRCLM



1/2" FRCLM



AIR PREPARATION UNITS

FRCL MODULAR Series FRCLM3

Cat No FRCLM3W - 01 - 01 - A

Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush pipings for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.
5. Polycarbonate bowls may get damaged and possibly fail if exposed to synthetic oils, thinner, solvents, trichloroethylene, kerosene or other aromatic hydrocarbons.

Pressure Setting

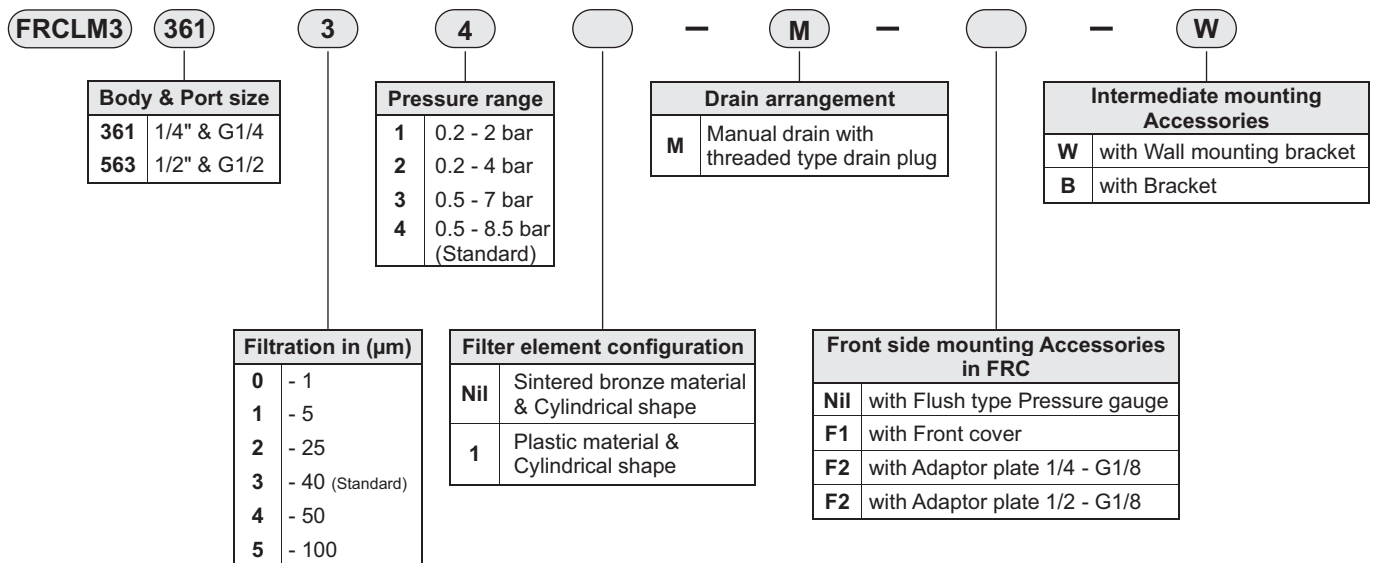
Pull the knob and adjust by turning the knob clockwise to increase the pressure. Push the knob back to its locked position. (Turning the knob counter clockwise will reduce the pressure)

Caution and Warning

For caution and warning refer catalogue No:

- 1) FRC3 - 01- 01 - A for Filter Regulator Combination
- 2) L3 - 01 - 01 - A for Lubricator

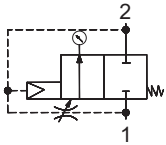
How to order



Ordering example:

Filter Regulator Combination, Lubricator Modular - 1/4 size (with G1/4 port) with 5µm Filter and pressure range 0.5 - 7 bar, Plastic material filter element, with Front cover and with Bracket : **Ordering No : FRCLM3361131-M-F1-B**

If ordered as FRCLM 1/4 our standard model **FRCLM336134-M-W**, with 40µm filter, pressure range 0.5 -10 bar and with Flush type pressure gauge, with wall mounting bracket will be supplied.



SOFT START VALVE

Series S01

Cat No S01 - 01 - 01 - A

SOFT START VALVE - G1/4 & G1/2

Features

- Pressure switching time approx. 55% to 75% of supply pressure
- Adjustable switching time delay through needle
- High-flow
- Inbuilt flush type pressure gauge
- Possible to mount the flush type pressure gauge in front & rear side
- Suitable & easy for modular mounting
- Clean design



Function

- The pneumatic soft start valve is used for slowly pressurizing and to avoid the sudden impact, erratic movement of pneumatic system during a restart condition
- The supply air reaches the outlet port through the needle setting control
- When the outlet pressure build-up is approx 55% to 75% of supply pressure, the valve cone opens completely and the full flow is achieved
- When the air is exhausted completely the valve cone closed and the remaining air is exhausted through the needle

Technical Specifications

Model	S012361...	S012563...
Medium	Compressed air - filtered	
Port Size	G1/4	G1/2
Type	2/2 NC	
Flow rate @ (lts/min.)	2200	6000
Working pressure range (bar)	4 to 10	
Ambient temperature ** (C)	-10° to +60°	
Medium temperature (C)	+5° to +50°	
Installation	Any position	
Materials of construction	Die cast Aluminium, Brass, Polyamide, Polyacetal, Nitrile, Aluminium	
Optional accessories *	Clamp, Modular mounting kit, Silencer	
Weight (kg)	0.15	0.55

@ - Supply pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar

* - For details refer optional accessories Cat No APA - 01 - 05 - A

** - Ambient temperature +5° to +50° C for Pressure gauge and Pressure sensor model

Warning

1. Since the valve might have slight internal leakage, it is not suitable for holding pressure in a tank or another vessel for a long period of time.
2. If there is any major leakage in downstream pressure system, it is not possible for pressure buildup and to open the valve completely.
3. Valves should be switched ON at least once in every 30 days to prevent malfunction.
4. Do not use this valve as an "Emergency shut off valve".
5. Even this product is normally closed type, if the downstream pressure build-up is more than 55% of supply pressure, quick opening will occur.
6. This valve should be mounted on the outlet port side of the lubricator only. If the valve is mounted on the inlet port side of lubricator, back flow of oil may spurt out into the valve from the inlet port of the lubricator.
7. Do not operate this product beyond the specification, as this can cause damage (or) malfunction.

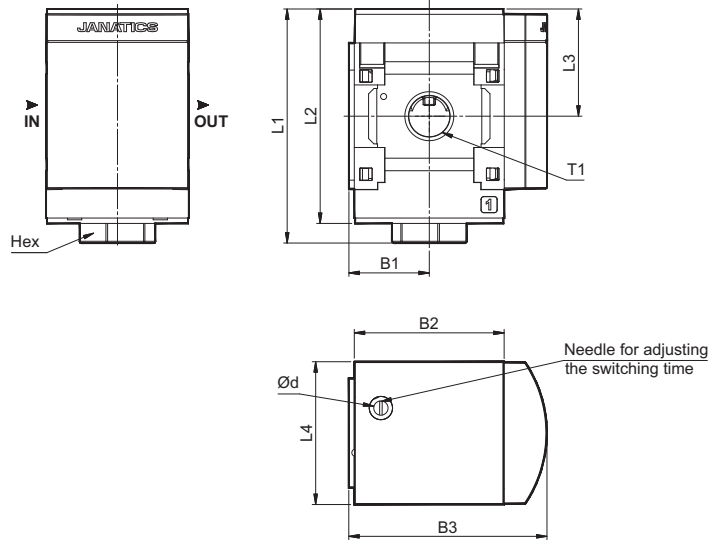
SOFT START VALVE

Series S01

Cat No S01 - 01 - 01 - A

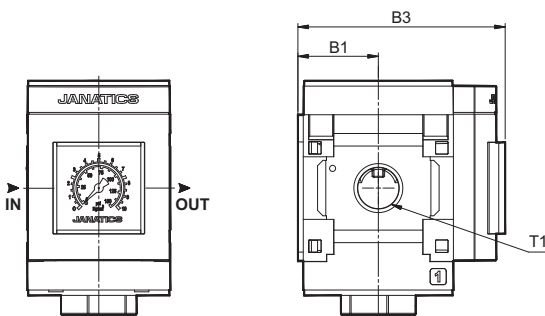
Model S01...

Standard



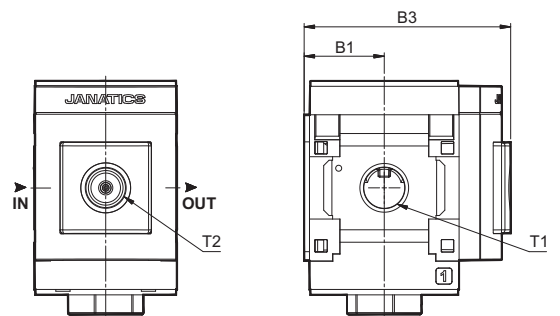
Model No.	W	L1	L2	L3	L4	Hex	B1	B2	B3	Ød
S012361P-F1...	G1/4	65.5	60	30	40	19	22.5	42	55.5	4
S012563P-F1...	G1/2	100.5	91	45.5	62	30	32	62	77.5	5

With flush type pressure gauge



Model No.	T1	B1	B3
S012361P...	G1/4	22.5	58
S012563P...	G1/2	32	77.5

With adaptor plate (Suitable for 1/8" thread)



Model No.	T1	T3	B1	B3
S012361P-F2...	G1/4	G1/8	22.5	58
S012563P-F2...	G1/2	G1/8	32	77.5

Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush piping's for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with Teflon tape. Ensure Teflon tape does not enter the unit during tightening.
Nipples of straight threads (G) to be used with sealing washer.

SOFT START VALVE

Series S01

Cat No S01 - 01 - 01 - A

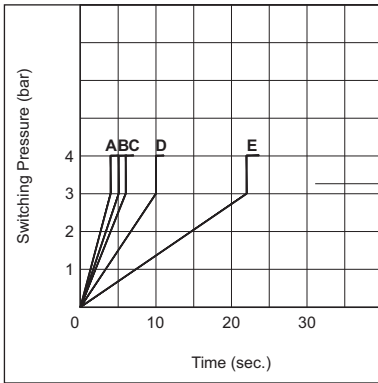
Flow Graph

Soft start valve Switching pressure Vs Time graph for Ø50 cylinder.
Pressure switching approx. 55% to 75% of Inlet Pressure.

Needle rotation turns

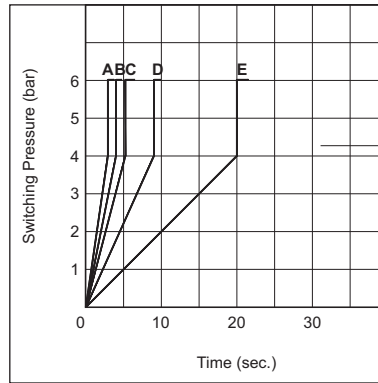
- A = 5 turns
- B = 4 turns
- C = 3 turns
- D = 2 turns
- E = 1 turn

Inlet Pressure - 4 Bar



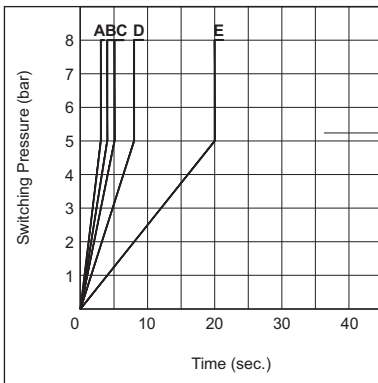
Pressure switching approx. 75% of Inlet pressure

Inlet Pressure - 6 Bar



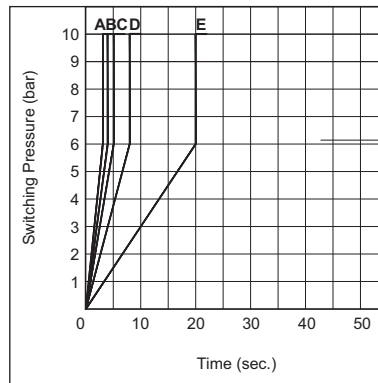
Pressure switching approx. 67% of Inlet pressure

Inlet Pressure - 8 Bar



Pressure switching approx. 63% of Inlet pressure

Inlet Pressure - 10 Bar



Pressure switching approx. 60% of Inlet pressure

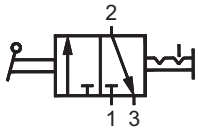
How to order

S012	361	P	-					
Body & Port size		Actuation mode		Front side mounting Accessories		Rear side mounting Accessories		
361	1/4" & G1/4	P	Pneumatically actuated	Nil	with Flush type Pressure gauge		Nil	Without Accessories
563	1/2" & G1/2			F1	with Front cover		C2	Clamp (standard)
				F2	with Adaptor plate 1/4 - G1/8			
				F2	with Adaptor plate 1/2 - G1/8			

Ordering example:

Soft start valve - 1/4 size (with G1/4 port) Pneumatically actuated, with Flush type pressure gauge and Clamp (standard): Ordering No: **S012361P-C2**

If ordered Soft start valve 1/4, our standard model **S012361P-F1** with Front cover will be supplied.



SHUT OFF VALVE LOCKABLE

Series GS4

Cat No GS4 - 01 - 01 - A

SHUT OFF VALVE LOCKABLE - G1/4 & G1/2

Features

- ❑ High flow rate
- ❑ Padlock provision available to prevent unauthorised air flow direction in both IN to OUT and OUT to EXH condition
- ❑ Flush type pressure gauge mounting option available at both sides
- ❑ Facility to attach silencer at exhaust port to reduce the noise
- ❑ Quick release bayonet type bottom plug
- ❑ Suitable for modular mounting
- ❑ Clean design



Function

- ❑ 3/2 normally closed valve for pressurisation and exhaustion of pneumatic system

Technical Specifications

Model	GS4361...	GS4563...
Medium	Compressed air	
Port Size	Inlet, Outlet, Exhaust - G1/4	Inlet, Outlet, Exhaust - G1/2
Type	3/2 NC	
Operating pressure (bar)	12 (Standard model)	
	10 (With pressure gauge and Adapter plate model)	
Ambient temperature ** (C)	-10° to +60°	
Medium temperature (C)	+5° to +50°	
Flow rate @ (lts/min.)	1 to 2	2800
	2 to 3	1400
Installation	Any position	
Materials of construction	Die cast Aluminium, Brass, Steel, Polyamide, Polyacetal, Nitrile, Stainless steel	
Optional accessories *	Clamp, Modular mounting kit, Silencer	
Weight (kg)	0.175	0.550

@ - Supply pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar

* - For details refer optional accessories Cat No APA - 01 - 05 - A

** - Ambient temperature +5° to +50° C for Pressure gauge and Pressure sensor model

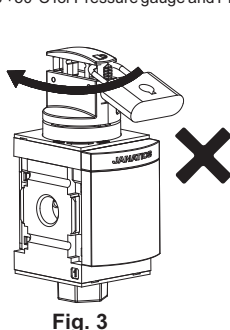


Fig. 3

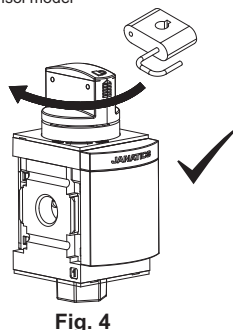


Fig. 4

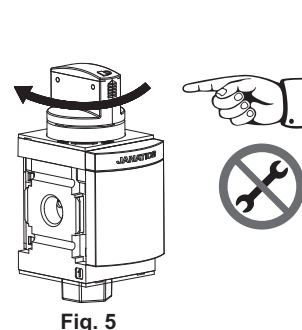


Fig. 5

Caution:

- Do not turn the knob with pad lock fixed condition (fig -3) else it may damage the knob as well as internal parts. Turn the knob after removing the padlock (fig -4).
- Sudden increase and decrease in pressure pulsation must be avoided because it could adversely affect the life of pressure gauge (for optional pressure gauge model)
- Applying pressure beyond the pressure range could damage the pressure gauge.
- Pad lock should be selected in such way that it should exactly fit (or) slightly less than the slot in the Locking holder. Wrong selection will lead to malfunction (fig -2).
- Switching the valve only by hand do not operate the valve by using hammer or other tools or driving it mechanically through the cylinder could cause damage (fig -5).

SHUT OFF VALVE LOCKABLE

Series GS4

Cat No GS4 - 01 - 01 - A

SHUT OFF VALVE LOCKABLE - G1/4 & G1/2

Standard

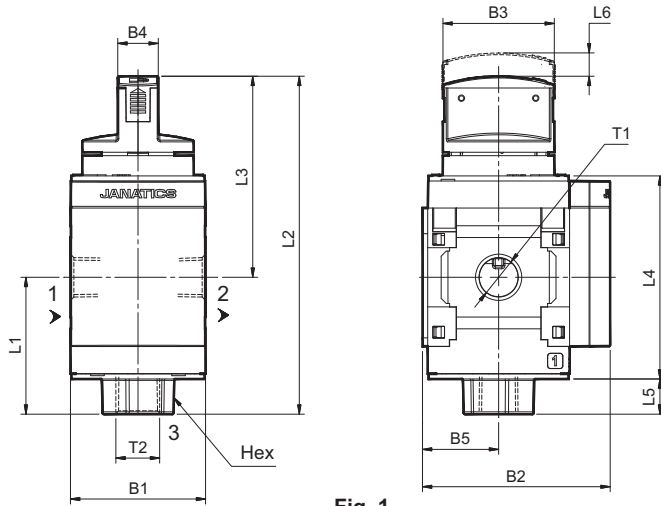


Fig. 1

Pad Lock Provision

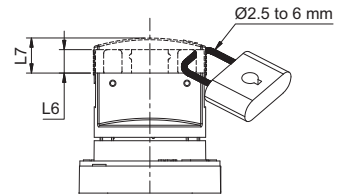
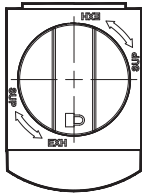
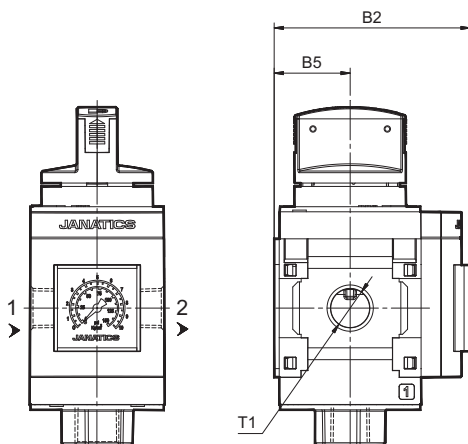


Fig. 2



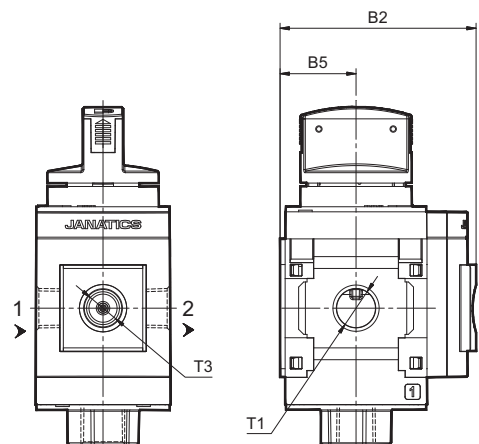
Model No.	T1	T2	Hex	B1	B2	B3	B4	B5	L1	L2	L3	L4	L5	L6	L7
GS4361-F1...	G1/4	G1/4	19	40	55.5	Ø33	12	22.5	41	100	59.5	60	11	7	10.5
GS4563-F1...	G1/2	G1/2	30	62	77.5	Ø51	16	33	60	152	92	91	14.5	8	13.5

With flush type pressure gauge



Model No.	T1	B2	B5
GS4361...	G1/4	58	22.5
GS4563...	G1/2	77.5	33

With adaptor plate (Suitable for 1/8" thread)



Model No.	T1	T3	B2	B5
GS4361-F2...	G1/4	G1/8	58	22.5
GS4563-F2...	G1/2	G1/8	77.5	33

SHUT OFF VALVE LOCKABLE

Series GS4

Cat No GS4 - 01 - 01 - A

Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush pipings for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.

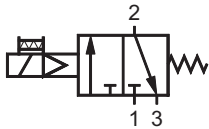
How to order

GS4	361	—	F1	○	○		
Body & Port size		Front side mounting Accessories		Rear side mounting Accessories		Bottom side mounting accessories	
361	1/4" & G1/4	Nil	with Flush type Pressure gauge	Nil	Without Accessories	Nil	Without silencer
563	1/2" & G1/2	F1	with Front cover	C2	Clamp (standard)	B1	With Plastic Silencer
		F2	with Adaptor plate 1/4 - G1/8			B2	With Silencer ASC0161
		F2	with Adaptor plate 1/2 - G1/8			B2	With Silencer ASC0163

Ordering example:

Shut off valve - 1/4 size (with G1/4 port) with silencer ASC0161, with Flush type pressure gauge and Clamp (standard) :
Ordering No: **GS4361-C2B2**

If ordered as Shut off valve 1/4 our standard model **GS4361-F1**, with Front cover, without silencer will be supplied.



SHUT OFF VALVE (ELECTRICAL)

Series GS4

Cat No GS4 - 01 - 02 - A

SHUT OFF VALVE (Electrical) - G1/4 & G1/2

Features

- High flow rate
- Manual operator (Push type)
- Flush type pressure gauge mounting option available at both sides
- Facility to attach silencer at exhaust port to reduce the noise
- Quick release bayonet type bottom plug
- Suitable for modular mounting
- Clean design



Function

- 3/2 normally closed valve for pressurisation and exhaustion of pneumatic system

Technical Specifications

Model	GS4361S...		GS4563S...
Medium	Compressed air, Filtered		
Port Size	Inlet, Outlet, Exhaust - G1/4		Inlet, Outlet, Exhaust - G1/2
Type	3/2 NC		
Operating pressure range (bar)	2 to 10		
Ambient temperature ** (C)	-10° to +50°		
Medium temperature (C)	+5° to +50°		
Flow rate @ (lts/min.)	1 to 2	2800	8500
	2 to 3	1400	3700
Electrical			
Coil width	15 mm		
Voltage (±10 %)	12V DC, 24V DC, 110V AC, 220V AC		
Power consumption	DC - 2.5 W, AC - 3 VA		
Type of coil protection	IP40		
Duty cycle	Continuous		
Class of insulation	Class F		
Cable entry	PG7 (cable OD 4 to 6 mm)		
Manual override	Push type		
Materials of construction	Die cast Aluminium, Brass, Steel, Polyamide, PPS, Copper, Nitrile, Aluminium, Stainless steel		
Optional accessories *	Clamp, Modular mounting kit, Silencer		
Weight (kg)	0.23		0.55

@ - Supply pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar

* - For details refer optional accessories Cat No APA - 01 - 05 - A

** - Ambient temperature +5° to +50° C for Pressure gauge and Pressure sensor model

Note: While connecting the valve check the direction of the air flow as per 1 to 2.

Caution:

1. If the product is installed in closed atmosphere, provide proper ventilation to release the heat generated by the valve
2. Supply air pressure as per specification, wrong air supply may damage the internal parts of the valve.
3. Apply correct voltage as per the specification, incorrect voltage may cause malfunction or coil damage.
4. While connecting the cable, ensure the diameter ($\varnothing 4$ to $\varnothing 6$ mm) of the cable should be as per the specification else it will not meet IP40 (Enclosure standards) and ensure the tightness of screws.
5. Install a silencer in the exhaust port if the atmospheric air is dusty to prevent the dust entry and leakage in the valve.
6. While connecting the silencer in the exhaust port, tight the silencer by hand or use a suitable wrench on the hexagonal flats to tight by 1/4 turn. Excess tightening torque may cause damage to threads.

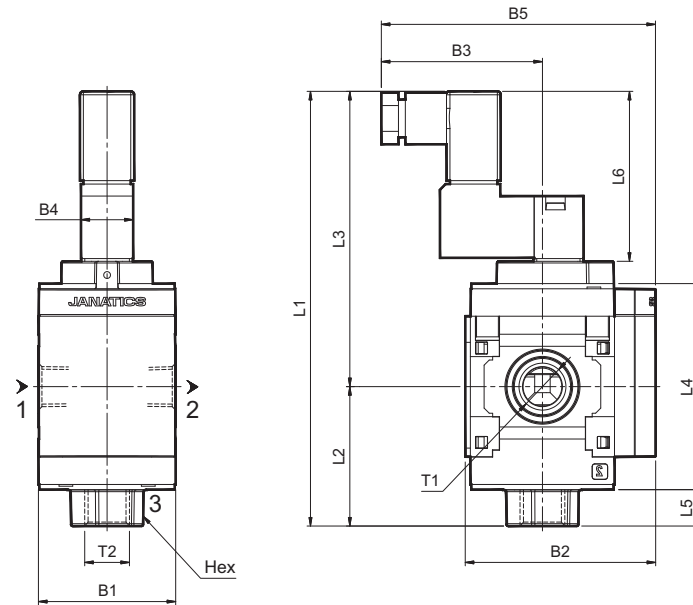
SHUT OFF VALVE (ELECTRICAL)

Series GS4

Cat No GS4 - 01 - 02 - A

SHUT OFF VALVE (Electrical) - G1/4 & G1/2

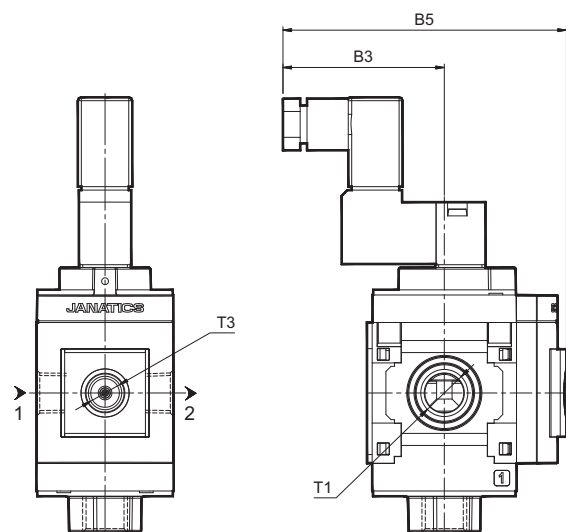
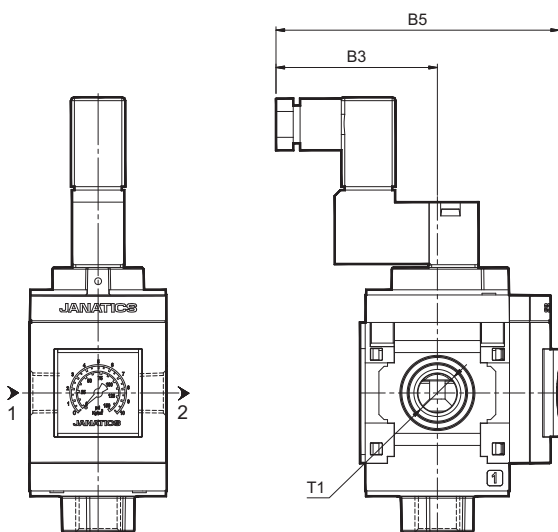
Standard



Model No.	T1	T2	Hex	B1	B2	B3	B4	B5	L1	L2	L3	L4	L5	L6
GS4361S...-F1	G1/4	G1/4	19	40	55.5	47	15.5	80	127	41	86	60	11	49.5
GS4563S...-F1	G1/2	G1/2	30	62	77.5	43	15.5	87.5	163	60	103	91	14.5	49.5

With flush type pressure gauge

With adaptor plate (Suitable for 1/8" thread)



Model No.	T1	B3	B5
GS4361S...	G1/4	47	82.5
GS4563S...	G1/2	43	87.5

Model No.	T1	T3	B3	B5
GS4361S...-F2	G1/4	G1/8	47	82.5
GS4563S...-F2	G1/2	G1/8	43	87.5

SHUT OFF VALVE (ELECTRICAL)

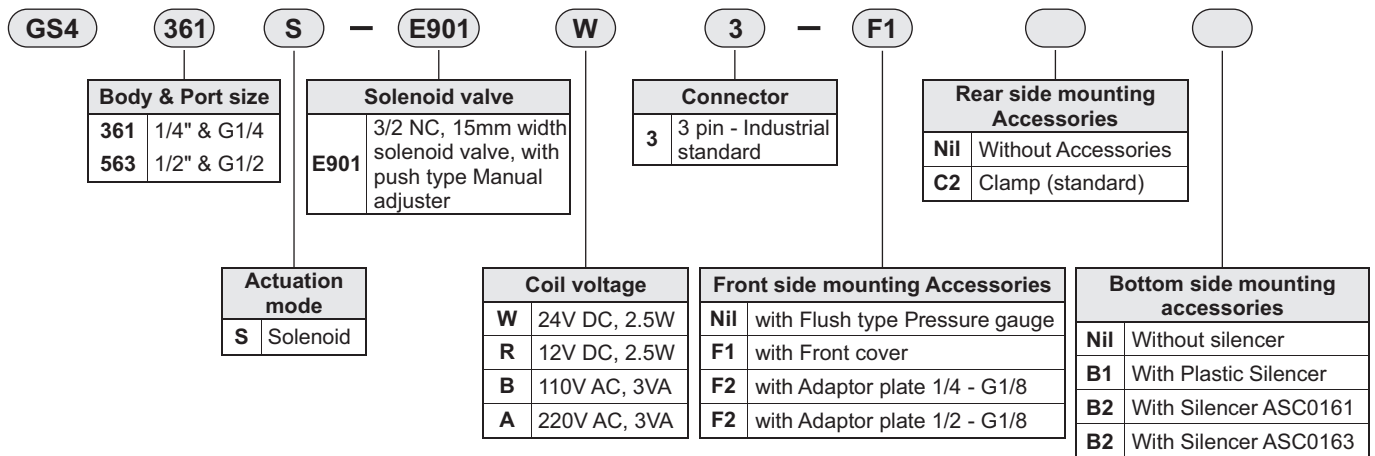
Series GS4

Cat No GS4 - 01 - 02 - A

Precautions

1. Note the direction of flow before installation and connect piping accordingly.
2. Flush pipings for dirt, dust, rust and other foreign particles.
3. Install in clean atmosphere.
4. Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.

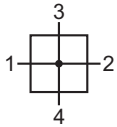
How to order



Ordering example:

Shut off valve (Electrical) - 1/4 size (with G1/4 port), Solenoid actuation, 3/2 NC solenoid valve, 24V DC coil, 3 pin, with Flush type pressure gauge, Clamp (standard) and with Silencer ASC0161 : Ordering No : **GS4361S-E901W3-C2B2**

If ordered as Shut off valve (Electrical) 1/4 our standard model **GS4361S-E901W3-F1**, Solenoid actuation, 3/2 NC solenoid valve, 24V DC coil, 3 pin and with Front cover will be supplied.



AIR PREPARATION UNITS DISTRIBUTION BLOCK - Series A2M

Cat No A2M - 01 - 01 - A

DISTRIBUTION BLOCK - G1/4" & G1/2"

Distribution block provide additional air outlets to create separate pressure

Features

- Clean design
- Suitable for Modular mounting
- High flow rate
- Additional outlet port provision at Top and Bottom side
- Option available to mount flush type pressure gauge on front and rear side



Technical Specifications

Model	A2M3...		A2M5...	
Medium	Compressed air - Filtered			
Port size	G1/4		G1/2	
Flow rate @	1 to 2 (lts/min)	5500	16000	
	1 to top (or) bottom (lts/min)	4000	10000	
Maximum supply pressure (bar)	12 (Standard model)			
	10 (With pressure gauge and Adapter plate model)			
Ambient temperature ** (C)	-10° to +60°			
Medium temperature (C)	+5° to +50°			
Installation	Any position			
Materials of construction	Die cast Aluminium, Brass, Polyamide, Stainless steel, Nitrile			
Optional accessories *	Clamp, Modular mounting kit			
Weight (kg)	0.12		0.5	

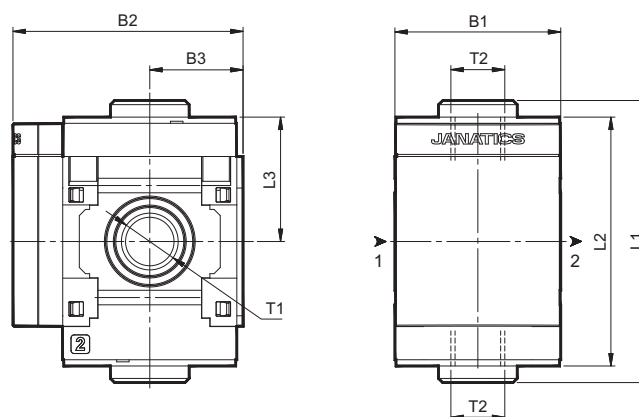
@ - Supply pressure 6.3 bar, Pressure drop $\Delta p = 1$ bar (For standard models)

* - For details refer optional accessories Cat No APA- 01 - 05 - A

** - Ambient temperature +5° to +50° C for Pressure gauge and Pressure sensor model

Distribution Block - G1/4" & G1/2"

Standard



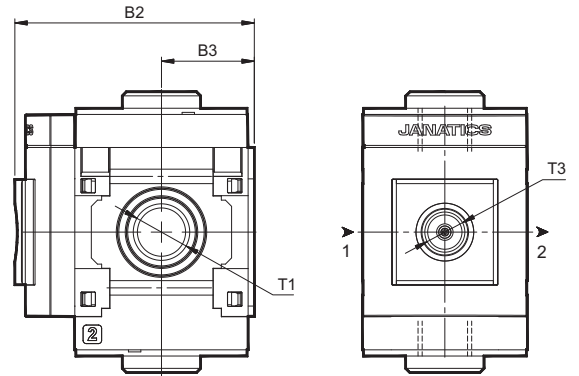
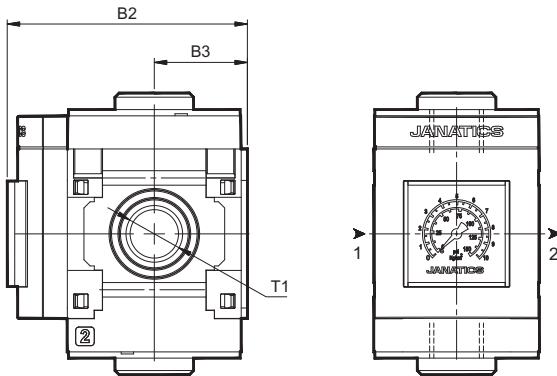
Model No.	T1	T2	B1	B2	B3	L1	L2	L3
A2M361-F1...	G1/4	G1/4	40	55.5	22.5	68	60	30
A2M563-F1...	G1/2	G1/2	62	77.5	33	101	91	45.5

AIR PREPARATION UNITS DISTRIBUTION BLOCK - Series A2M

Cat No A2M - 01 - 01 - A

With flush type pressure gauge

With adaptor plate (Suitable for 1/8" thread)



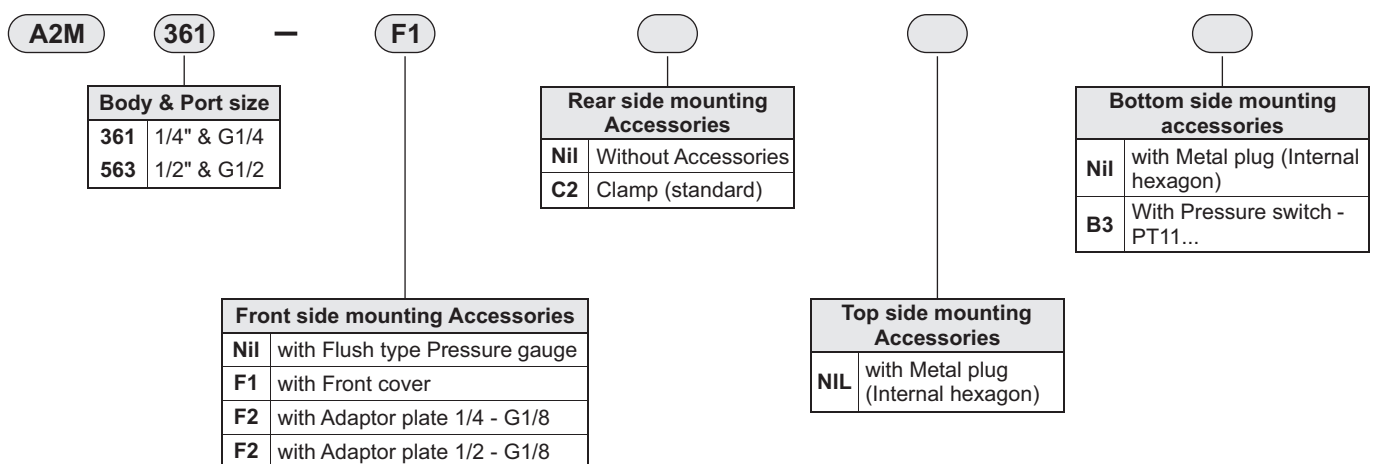
Model No.	T1	B2	B3
A2M361...	G1/4	58	22.5
A2M563...	G1/2	77.5	33

Model No.	T1	T3	B2	B3
A2M361-F2...	G1/4	G1/8	58	22.5
A2M563-F2...	G1/2	G1/8	77.5	33

Precautions

- Note the direction of flow before installation and connect piping accordingly.
- Flush pipings for dirt, dust, rust and other foreign particles.
- Install in clean atmosphere.
- Nipples of taper threads (R) to be used with Teflon tape. Ensure Teflon tape does not enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.

How to order



Ordering example:

Distribution block - 1/4 size (with G1/4 port) with Flush type pressure gauge, Clamp (standard) and with Pressure switch PT1152 : Ordering No: **A2M361-C2B3**

If ordered as Distribution block 1/4 our standard model **A2M361-F1**, with Front cover, with Metal plug will be supplied.

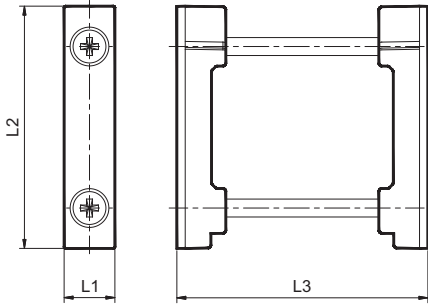
AIR PREPARATION UNITS - ACCESSORIES

Accessories - for Modular construction

Cat No APA - 01 - 05 - A

Bracket

To convert individual Filter, Regulator and Lubricator into combination units. O ring assemble in housing port side.



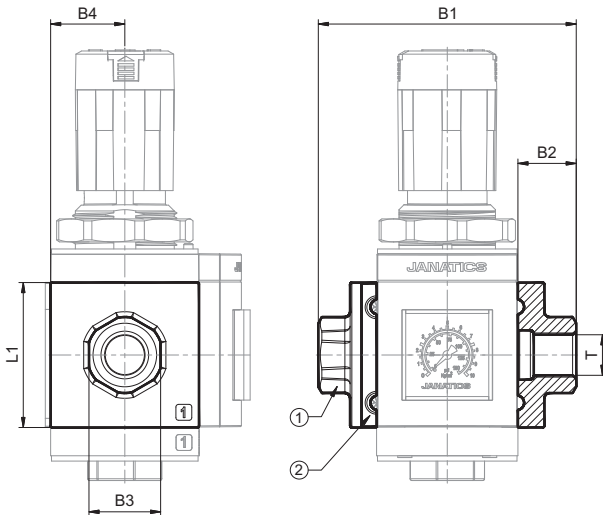
Adoptable to Model series	L1	L2	L3	Ordering No.
F33, L33, R33, FRC33, GS43, S0123, A2M3	8.5	40.5	42	A2B11
F35, L35, R35, FRC35, GS45, S0125, A2M5	10.5	63.5	61.5	A2B12

Material

Bracket - Die cast aluminium
Seal - NBR
Screw - Stainless steel

Ordering Example : Bracket for 1/4 Filter, Regulator, Lubricator series F33, R33, L33, FRC33 - Ordering no : **A2B11**

Piping Adaptor With Bracket Assembly



Adoptable to Model series	T	B1	B2	B3	B4	L1	Ordering No.
F33, L33, R33, FRC33, GS43, S0123, A2M3	G1/8	72	16	A/F 20	21	41	A2PB02
	1/8 NPT						A2PB04
	G1/4						A2PB01
	1/4 NPT						A2PB03
F35, L35, R35, FRC35, GS45, S0125, A2M5	G1/2	100	19	A/F 32	31	64	A2PB05
	1/2 NPT						A2PB07
	G3/8						A2PB06
	3/8 NPT						A2PB08

Material

① Piping adaptor - Die cast aluminium
② Bracket - Die cast aluminium
Seal - NBR
Screw - Stainless steel

Ordering Example : Piping Adaptor with bracket assembly for G1/4 Filter, Regulator series F33, R33, FRC33 - Ordering no : **A2PB01**

Warning: Not using an O ring will result in air leaks.

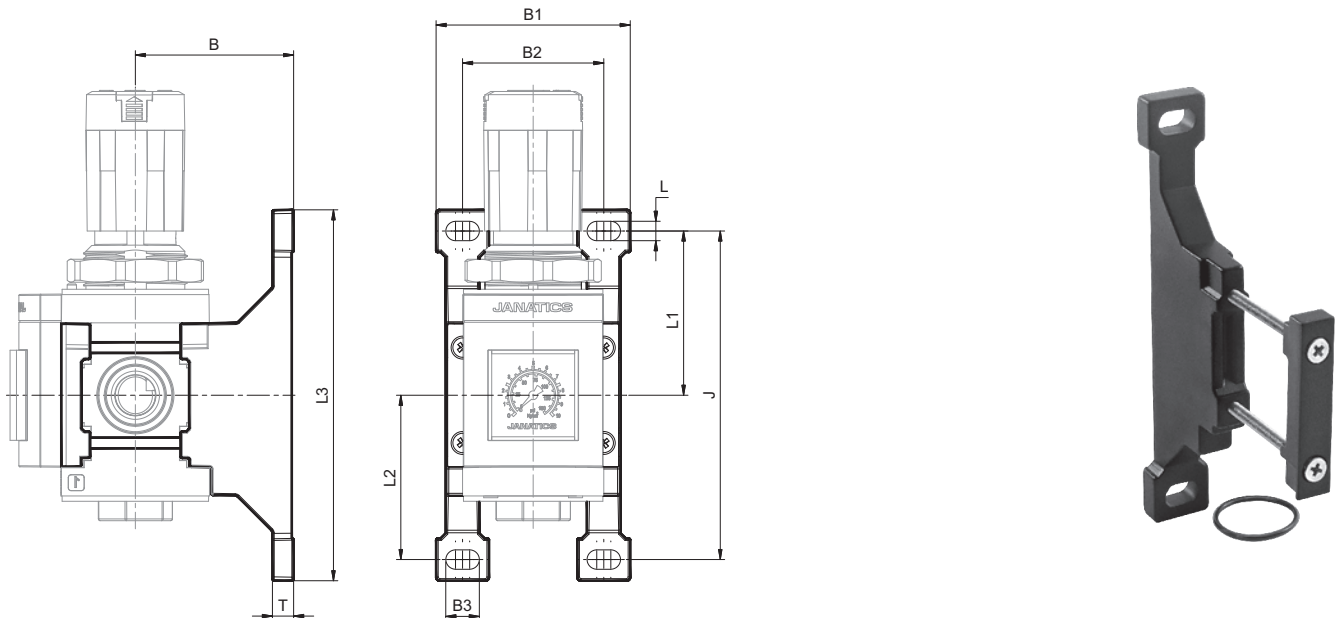
AIR PREPARATION UNITS - ACCESSORIES

Accessories - for Modular construction

Cat No APA - 01 - 05 - A

Wall Mounting Bracket Assembly

To connect the modules in the wall.



Adoptable to Model series	B	B1	B2	B3	L	L1	L2	L3	J	T	Ordering No.
F33, L33, R33, FRC33, GS43, S0123, A2M3	45	55	40	9.5	5.5	46.5	46.5	105	93	6	A2W11
F35, L35, R35, FRC35, GS45, S0125, A2M5	52.5	79	62	10	6.5	71	71	158	142	7.5	A2W12

Material

Wall mounting Bracket - Die cast aluminium
 Seal - NBR
 Screw - Stainless steel

Ordering Example : Wall mounting bracket for 1/4 Filter, Regulator, Lubricator series F33, R33, L33 - Ordering no : **A2W11**

Warning: Not using an O ring will result in air leaks.

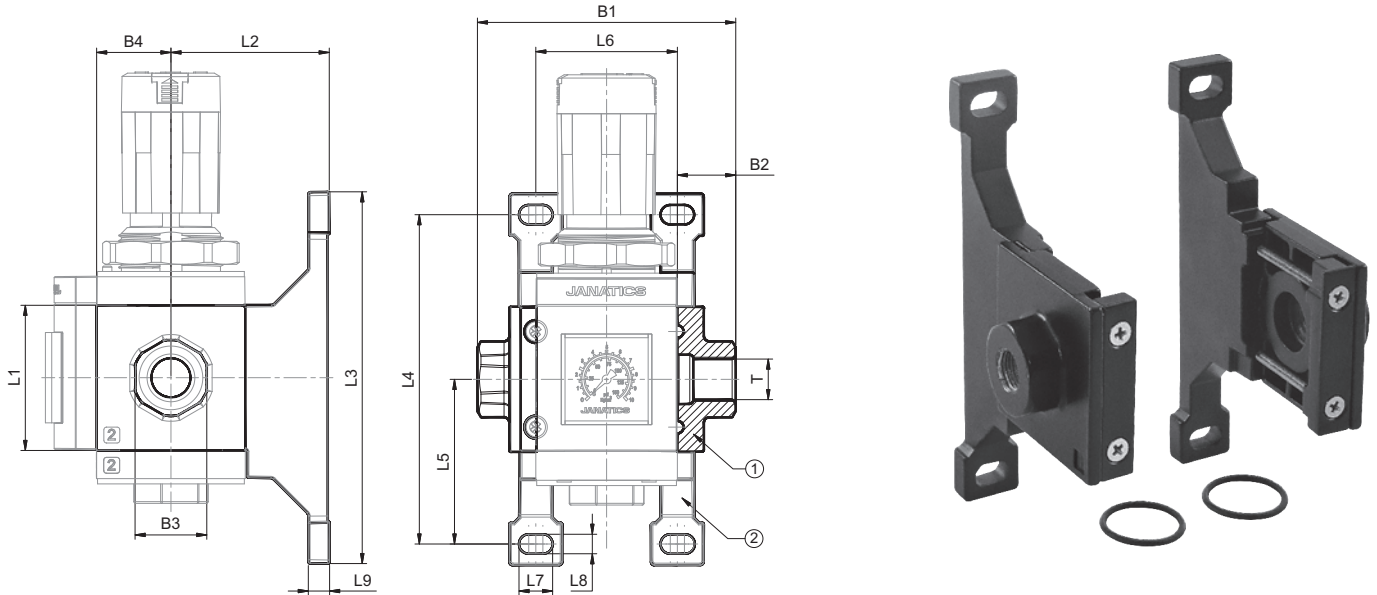
AIR PREPARATION UNITS - ACCESSORIES

Accessories - for Modular construction

Cat No APA - 01 - 05 - A

Piping Adaptor With Wall Mounting Bracket Assembly

To connect the modules in the wall.



Adoptable to Model series	T	B1	B2	B3	B4	L1	L2	L3	L4	L5	L6	L7	L8	L9	Ordering No.
F33, L33, R33, FRC33, GS43, S0123, A2M3	G1/8	72	16	A/F 20	21	41	45	105	93	46.5	40	9.5	5.5	6	A2PW02
	1/8 NPT														A2PW04
	G1/4														A2PW01
	1/4 NPT														A2PW03
F35, L35, R35, FRC35, GS45, S0125, A2M5	G1/2	100	19	A/F 32	31	64	52.5	158	142	71	62	10	6.5	7.5	A2PW05
	1/2 NPT														A2PW07
	G3/8														A2PW06
	3/8 NPT														A2PW08

Material

- ① Piping adaptor - Die cast aluminium
- ② Wall mounting Bracket - Die cast aluminium
- Seal - NBR
- Screw - Stainless steel

Ordering Example : Piping Adaptor with wall mounting bracket assembly for G1/4 Filter, Regulator series F33, R33, FRC33 -
Ordering no : **A2PW01**

Warning: Not using an O ring will result in air leaks.

Kit for Modular Construction

For modular construction, order accessories as given below

	Bracket (or) Wall mounting bracket	Piping adaptor with Bracket assembly
FRCLM	1	1
FRLM	2	1

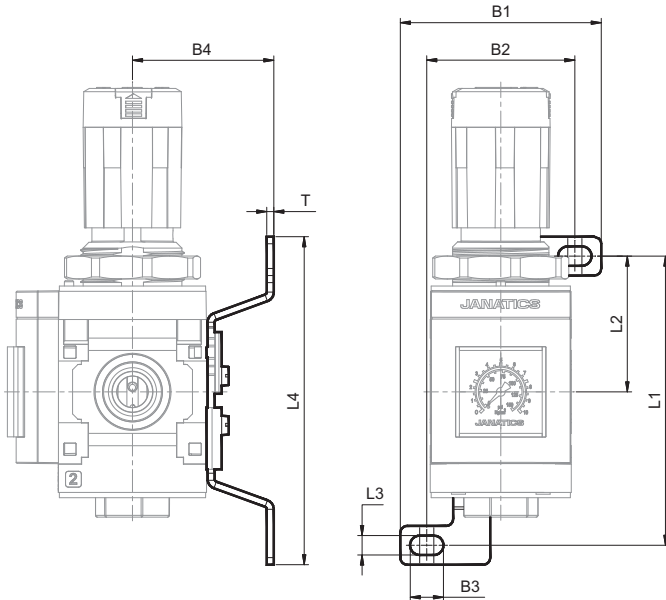
AIR PREPARATION UNITS - ACCESSORIES

Accessories - for Clamps

Cat No APA - 01 - 05 - A

C2 - CLAMP (Standard) for Filter, Regulator, Lubricator...

This clamp fixes the individual product along with fittings



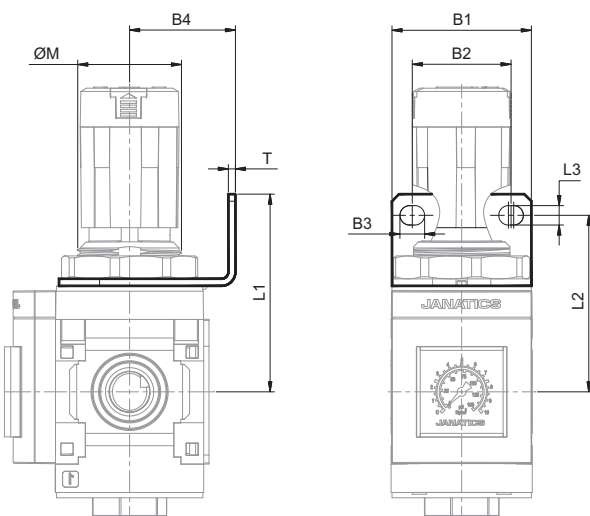
Adoptable to Model series	B1	B2	B3	B4	L1	L2	L3	L4	T	Ordering No.
F33, L33, R33, FRC33, GS43, S0123, A2M3	57	42	9.5	40	82	38.5	5.5	93	2	A2C37
F35, L35, R35, FRC35, GS45, S0125, A2M5	87	68	11.5	55	100	50	6.5	114.5	2	A2C38

Material
Clamp - Steel

Ordering Example : Clamp for Filter, Regulator series F33, R33, L33, FRC 33 - Ordering no : **A2C37**

C1 - CLAMP (Panel Mounting) for Regulator and Filter Regulator Combination

This clamp fixes the Regulator (or) Filter Regulator Combination using panel mounting along with nut.



Adoptable to Model series	ØM	B1	B2	B3	B4	L1	L2	L3	T	Ordering No.
R33, FRC33	30.5	39.5	28	7	30	56	50	5.5	2	A2C11
R35, FRC35	45	54.5	42.5	8	40	73.5	65.5	6.5	2	A2C12

Material
Clamp - Steel

Ordering Example : Clamp for 1/4 Regulator, Filter Regulator combination series R33, FRC33 - Ordering no : **A2C11**

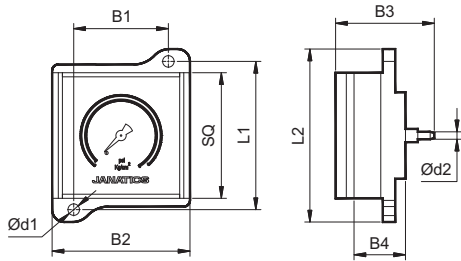
Subject to change

AIR PREPARATION UNITS - ACCESSORIES

Accessories - Pressure gauge and Adaptor plate

Cat No APA - 01 - 05 - A

PRESSURE GAUGE

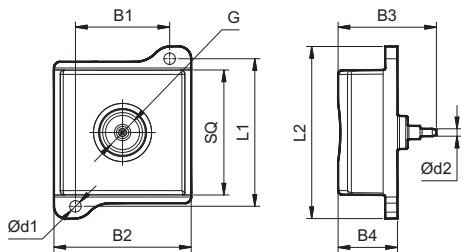


Adoptable to Model series	Pressure range bar	Dial size SQ	B1	B2	B3	B4	L1	L2	Ød1	Ød2	Ordering No.
R33, FRC33, S0123, A2M3, GS43, GS43S	0 - 4	25.5	17.5	27	24	12.5	31	40	2.8	1.8	A2F01
	0 - 7										A2F02
	0 - 10										A2F03
	0 - 16										A2F04
R35, FRC35, S0125, A2M5, GS45, GS45S	0 - 4	30.5	23	33.5	24	12.5	36	42	2.8	1.8	A2F05
	0 - 7										A2F06
	0 - 10										A2F07
	0 - 16										A2F08

How to order : Mention the ordering number required

Ordering Example : Pressure gauge for 1/4 Regulator (R33..Series) with Pressure range 0 - 10 bar : Ordering no : **A2F03**

ADAPTOR PLATE



Adoptable to Model series	Thread G	Dial size SQ	B1	B2	B3	B4	L1	L2	Ød1	Ød2	Ordering No.
R33, FRC33, S0123, A2M3, GS43, GS43S	G1/8	25.5	17.5	27	24	11.5	31	40	2.8	1.8	A2A01
R35, FRC35, S0125, A2M5, GS45, GS45S	G1/8	30.5	23	33.5	24	11.5	36	42	2.8	1.8	A2A02

How to order : Mention the ordering number required

Ordering Example : Adaptor plate for Regulator (R35..Series) with dial size 30.5 : Ordering no : **A2A02**

Adaptor plate can be used to suit any G1/8 thread accessories.

Safety Instructions

Compressed Air Safety



Following Safety instructions should be strictly followed. Failure to do so may result in accidents, equipment malfunctioning, serious personal injury and / or loss of life.

Compressed air is a source of considerable energy. When handling products dealing with compressed air, the following precautions must be taken to prevent accidents.

1. Human hands or any parts of a human body should not block compressed air. Compressed air should not be allowed to impinge on any portion of the human body.
2. Before connecting any pneumatic equipment to the compressed air supply, all mounted fittings, piping assemblies and electrical connections should be checked for security. All plastic plugs in the equipment used for protection during shipping should be removed.
3. No piping alterations, removal of fittings, repairing of equipment etc. should be attempted with air supplies connected. Air and electrical supplies must be disconnected before beginning any adjustment, maintenance or dismantling of equipment.
4. The maximum allowable operating pressures, temperature, flows etc. must be strictly observed. Failure to do so might result in catastrophic failure of equipment, and result in serious personal injury and / or death. Refer to individual catalogs for this information, and any other operating or application limitations.

Compressed Air Safety for Pneumatic Equipment :

Warning



1. Compatibility of pneumatic equipment

Ensuring the compatibility of the procured FRL equipment is the responsibility of the person who designs the Pneumatic system and / or System specifications. This should be based on specifications or after analysis and / or tests to meet specific requirements.

2. Repair & Maintenance

Assembly, handling, or repair of pneumatic systems should be performed by only trained and experienced operators.

3. Safety First

Do not service machinery / equipment or attempt to remove any component until safety is confirmed.

- Inspection and maintenance of machinery / equipment should only be performed after confirmation that both compressed air and electrical supply have been positively disconnected and all residual compressed air in the system has been completely exhausted to the atmosphere.

4. Contact Janatics if equipment is to be used in any of the following conditions :


1. Equipment is to be used in conditions beyond the given specifications, or if equipment is to be used outdoors.
2. Equipment is to be used in conjunction with atomic energy, railroad, air navigation, automobiles or related vehicles, medical equipment or safety equipment.
3. In applications that adversely effect humans, animals, or property requiring special safety analysis.

Product Selection

Warning



Standard Filters, Regulators, Lubricators and Filter - Regulator Combination units should be used in accordance with the specifications mentioned in the catalogs / specification sheets. While installing and using this equipment, please also follow the respective specification & instruction manual available for each product.

Wherever this symbol  is shown, it indicates **Caution!** and / or **Warning!**

It indicates that operator error can lead to damage and malfunctioning of the pneumatic equipment and can lead to serious personal injury or loss of life.

1. Air Filter and Lubricator

Standard Filters and Lubricators incorporate polycarbonate bowls and / or observation windows. Do not use filters & lubricators in an environment that will expose the above components to synthetic fluids, organic solvents, corrosive chemicals, cutting lubricants, thread sealant or similar materials.

Make sure that the condensate is periodically drained when using manual drain valves on Filters.

2. Regulator

- a. Safety devices shall be placed to prevent secondary (output) pressure from rising past the set pressure. This will ensure that damage to the components on the secondary side will be minimized in the event of a malfunction.
- b. In a standard regulator, when the supply pressure is removed or disconnected, either of the following may happen :
 1. The residual pressure will remain on the secondary side of the regulator.
 2. The pressure on the secondary side of the regulator will exhaust.

The designer should add components to the circuit to compensate for any of the above conditions.

- c. Regulator operation may be affected when used in Balanced or Secondary sealed circuits. Please consult Janatics regarding these applications.

3. Lubricators

Ensure proper function of the Lubricator. Minimum airflow rate should be ensured for effective lubrication.

4. Automatic Drains - Normally Open

Ensure minimum working pressure for proper functioning of the Auto drain. The Filter unit must be periodically checked for condensate that would not be drained in case of any drain malfunction.

Compressed Air Safety - Valves

1. Check security of fittings, pipes, valve installation and electrical connections before use.
2. All electrical connections are to be completed by a person qualified to undertake electrical work.
3. Ensure that all air supplies and electrical connections are isolated before dismantling valves from sub plates, or removing fittings, cables or solenoids from valves
4. During prolonged or frequent energisation, valve solenoids can become hot. Ensure that this will not affect surrounding material and components, and that adequate ventilation is provided.
5. The spool and sleeve assemblies of metal seal valves incorporate sharp edges. Protective gloves should be worn for dismantling and maintenance operations.
6. When selecting valves for applications, the design method of actuation and fundamental operating principles of differing valve models and ranges must be considered.
7. Machinery designated as Annex 4 by the EC Directive of Machinery, Which includes pneumatically controlled power presses, have special requirements for control valves and preclude the use of other than specialized equipment.

Warranty

Janatics products are warranted to be free of defects in design, material or workmanship under proper use, installation, application & maintenance in accordance with Janatics written specifications and Safety Instructions for a period of 12 months from the date of shipment from the factory. Janatics warrants that all the Products are suitable for their intended purposes only. Janatics obligation under this warranty is limited to repair or replacement of the product at the discretion of Janatics and provided such product is returned to Janatics freight prepaid and upon examination by Janatics such is found to be defective.

This is the only authorised Janatics Warranty and is in Lieu of all other expressed or implied warranties or representation including any implied warranties of merchantability or fitness or any other obligations on the part of Janatics

In no event will Janatics be liable for business interruptions, loss of profits, personal injury, cost of delay or for any other special indirect, incidental or consequential losses, cost or damages.

Not covered under Janatics warranty :

- Normal wear or deterioration of components and product
- Product(s) not used or installed as designed or intended
- Product is not installed or maintained as described and directed in the product installation and operations manual
- Product contains non-original OEM parts, or was previously repaired or serviced by an unauthorised distributor or repair facility

General: Due to continuous product improvement, all specifications are subject to change.

Instructions for Product Disposal & End of Life treatment

Ordinary industrial waste (recyclable and non-recyclable) is generated by industrial or commercial activities, but is similar to household waste by its nature and composition. It is not toxic or hazardous and thus requires no special treatment. These non-hazardous wastes can be either recycled & reused or treated & disposed, safeguarding the environment, in compliance with the statutory and regulatory requirements for quality, environment and Occupational Health & Safety (OHS).

Internally every Janatics personal is well informed on disposal categorization of components through the Bill of materials.

Disposal method :

The main parts of the Janatics product are metals & can be recycled to preserve natural resources and energy.

1. Dismantle the product and detach each component separately and dispose according to the legislation of the country
2. Generally all metals such as Steel, Aluminum, Copper and its Alloys, and Precious metals can be recycled again as raw materials according to local regulations.
3. Also some plastics like PET, HDPE, PVC, PA, PoM, & packing materials like PU foam & PE film can be recycled with the aid of local regulations.
4. Other plastics like PP and LDPE are difficult to recycle which requires special processes to avoid adverse environmental impact.
5. Rubber parts can be disposed by land fill or incineration following international and national regulations
6. Electrical & Electronic components like Printed circuit boards and reed switches need selective treatment and IEC 62635 guidelines can be referred.
7. To aid recycling and disposal approach deposition either by own or through the authorized agency to sustain the environment.
8. Remove all organic coatings, paint, and lacquered scrap by thermal decoating treatment prior to melting so as to avoid gaseous emissions and decomposition.
9. Follow national & international regulations for End of Life treatment of all components and consumables.

