

Air service units

Technical 11.027 information



Series K

Air service units, G 1/8, G 1/4

11.010



Series RD

Inline pressure regulator, G 1/8, G 1/4

11.036



Series X

Air service units, G 1/4 – G 3/4

11.040





Air service units, G 1/4 – G 1 11.070 (available in NPT see catalouge ...)



Series RP

Precision pressure regulator,

G 1/4 – G 1/2 11.064



Function fittings

Miniature regulator, check valve, inline hand valve, quick couplers, silencers 11.100

For AIRTEC fittings, tube connectors and plastic tubes see catalogue-No. A75





Series FK Filter,

G 1/8 – G 1/4 11.012

Series RK Pressure regulator, G 1/8 - G 1/4 11.014





Series FRK Filter/regulator,

G 1/8 – G 1/4 11.016







Series FROK

Two piece air service unit, G 1/8 – G 1/4 11.020



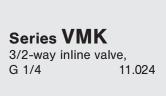






Series DAK Soft start valve, G 1/4

11.023







Series TK
Distribution block and pressure switch,
G 1/4 11.026

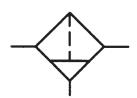
Accessories for Series **K**

11.032





FK





Order code		FK-14-00-5	-1201	
Series	Size	Pressure range	Filter element	Options
FK* = standard 5 μm FKA = activated carbon filter FKF = fine filter 0.3 μm FKM = microfilter 0.01 μm	18 = G 1/8 14 = G 1/4	00 = Standard	5*= 5 μm 3 = 0.3 μm 1 = 0.01 μm A = activated carbon filter	1201*= polycarbonate bowl, semi-automatic drain 1301 = polycarbonate bowl, auto drain 2201 = metal bowl, semi-automatic drain 4201 = polycarbonate bowl, with metal guard, semi-automatic drain

* = standard type

Design and function

The filter operates on the centrifugal force principle with a sintered filter.

The filter should be inspected regularly to avoid the build up of condensate in the filter bowl. Various filter elements can be installed depending on the particular application.

The components of series K can easily be connected by using the coupling kit KPK-00.

For additional accessories see page 11.032.

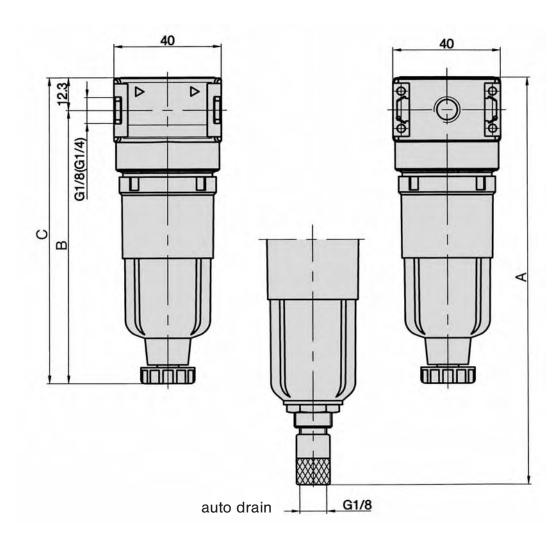
Order number Please complete according to order code. The following details are for standard series.	FK-18-00	FK-14-00	
Connection size	G 1/8	G 1/4	
Flow rate (5 µm filter element)	1150 NI/min (1.168 Cv)		
Mounting	vertically, drain plug at bottom		
Supply pressure manual drain	0.5 - 16 bar (7 - 232 psi)		
semi-automatic drain	1.5 – 16 bar (21 – 232 psi)		
auto drain	1.5 – 10 bar (21 – 145 psi)		
Bowl volume	max. 16 cm ³		
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)		
Weight	0.210 kg (0.463 lb.) for option 1201		

11.012 Subject to change



Dimensions for series

FK

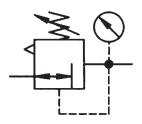


Order number	FK-18	FK-14	FKA-18	FKA-14	FKF-18	FKF-14	FKM-18	FKM-14
Α	15	3	_	_	153	142.4	153	142.4
В	10	2.5	95.5	100.5	102.5	125.81)	102.5	125.81)
С	11-	4.8	107.8	122.8	114.8	138.11)	114.8	138.1¹)

^{1) =} semi-automatic drain



RK





 Series
 Size
 Pressure range

 18 = G 1/8
 03 = 0.1 ... 3 bar

 14 = G 1/4
 06 = 0.2 ... 6 bar

 10* = 0.5 ... 10 bar

Options

0001 = without gauge flow from left to right 0011 = without gauge

flow from right to left

0021*= with gauge flow from left to right

0031 = with gauge flow from right to left

0002 = key lockable, without gauge flow from left to right

0012 = key lockable, without gauge flow from right to left

0022 = key lockable, with gauge

flow from left to right

0032 = key lockable, with gauge flow from right to left

Design and function

Pressure regulator with diaphragm and relieving feature. The outlet pressure of the regulator remains constant regardless of incoming pressure changes.

The components of series K can easily be connected by using the coupling kit KPK-00. For additional accessories see pages 11.032 and 11.033.

Order number Please complete according to order code.	RK-18-03	RK-18-06	RK-18-10	RK-14-03	RK-14-06	RK-14-10
Connection	G 1/8			G 1/4		
Mounting	arbitrary					
Input range	max. 16 bar (max. 232 psi)				
Output range	0.1 3 bar (1.5 43 psi)	0.2 6 bar (3 87 psi)	0.5 10 bar (7 145 psi)	0.1 3 bar (1.5 43 psi)	0.2 6 bar (3 87 psi)	0.5 10 bar (7 145 psi)
Flow rate	1.130 NI/min. (1.148 Cv)					
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)					
Weight without pressure gauge*	0.260 kg (0.57	0.260 kg (0.573 lb.), with key lockable knob 0.345 kg (0.760 lb.)				

^{* =} standard type

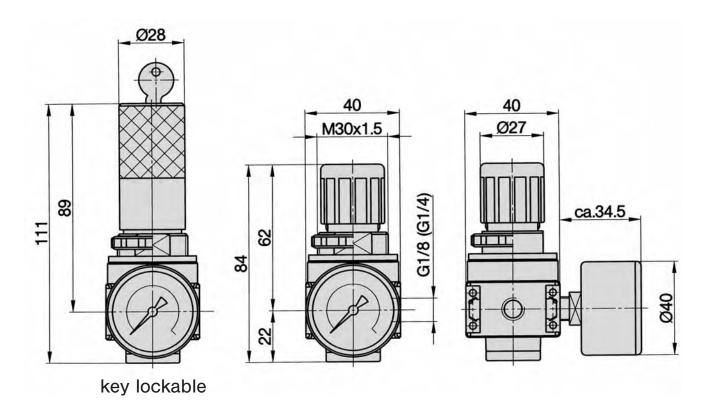
11.014 Subject to change

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Dimensions for series

RK

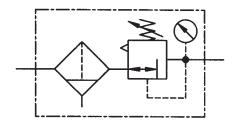


The main body of the regulator has two G 1/8 ports for gauge mounting. Either port may be used allowing the user to choose the direction of flow.

(Note: The second port must be plugged.)



FRK





Order code

Options for digits No. 1 and 2

12*= polycarbonate bowl, semi-automatic drain

13 = polycarbonate bowl, auto drain

22 = metal bowl, semi-automatic drain

42 = polycarbonate bowl with metal guard, semi-automatic drain

Options for digit No. 3

FRK-14-10-5-1221

0 = without gauge flow from left to right

1 = without gauge flow from right to left

2*= with gauge flow from left to right

3 = with gauge flow from right to left

Options for digit No. 4

1 = standard 2 = key lockable

Design and function

The filter/regulator is a diaphragm style regulator with relieving function. The filter includes a semi-automatic drain. The outlet pressure of the regulator remains constant regardless of incoming pressure changes. Once the desired pressure is achieved the adjusting knob can be fixed.

The filter removes both solid and liquid particles from the incoming air. The bowl can be supplied with a semi-automatic (drains when pressure is shut off) or auto drain.

The components of series K can easily be connected by using the coupling kit KPK-00.

For additional accessories see pages 11.032 and 11.033.

Order number Please complete according to order code.	FRK-18- 03-5	FRK-18- 06-5	FRK-18- 10-5*	FRK-14- 03-5	FRK-14- 06-5	FRK-14- 10-5*	
Connection	G 1/8			G 1/4			
Mounting	vertically, dra	in plug at botto	m				
Input range	max. 16 bar (10 bar with auto	o drain)				
Output range	0.1 3 bar (1.5 43 psi)	0.2 6 bar (3 87 psi)	0.5 10 bar (7 145 psi)		0.2 6 bar (3 87 psi)	0.5 10 bar (7 145 psi)	
Filter element	5 μm	5 μm					
Flow rate	1.130 NI/min.	1.130 NI/min. (1.148 Cv)					
Bowl volume	max. 16 cm ³						
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)						
Weight without pressure gauge*	0.280 kg (0.61	0.280 kg (0.617 lb.), with key lockable knob 0.385 kg (0.849 lb.)					

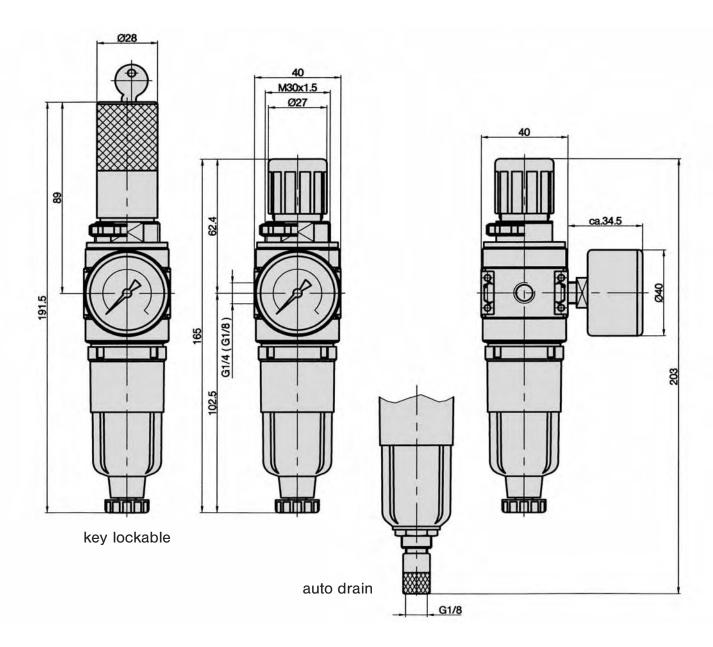
^{* =} standard type

11.016 Subject to change



Dimensions for series

FRK



The main body of the regulator has two G 1/8 ports for gauge mounting. Either port may be used allowing the user to choose the direction of flow.

(Note: The second port must be plugged.)

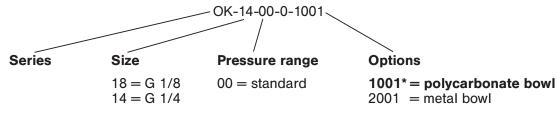


OK





Order code



* = standard type

Design and function

The lubricator has a proportional adjustment screw for adjustment of the oil/air mix.

The filter should be inspected regularly to avoid the build up of condensate in the filter bowl. Various filter elements can be installed depending on the particular application.

The components of series K can easily be connected by using the coupling kit KPK-00.

For additional accessories see page 11.032.

Order number	OK-18-00-0-1001	OK-18-00-0-2001	OK-14-00-0-1001	OK-14-00-0-2001			
Connection	G 1/8		G 1/4				
Mounting	vertically						
Input range	max. 16 bar (232 psi)	max. 20 bar (290 psi)	max. 16 bar (232 psi)	max. 20 bar (290 psi)			
Temperature range	0 °C + 60 °C (+ 32	0 °C + 60 °C (+ 32 °F + 140 °F)					
Bowl volume	35 cm ³						
Type of oil	HL 25 according to DIN 51524 - ISO VG 32						
Weight	0.230 kg (0.507 lb.)	0.230 kg (0.507 lb.)					

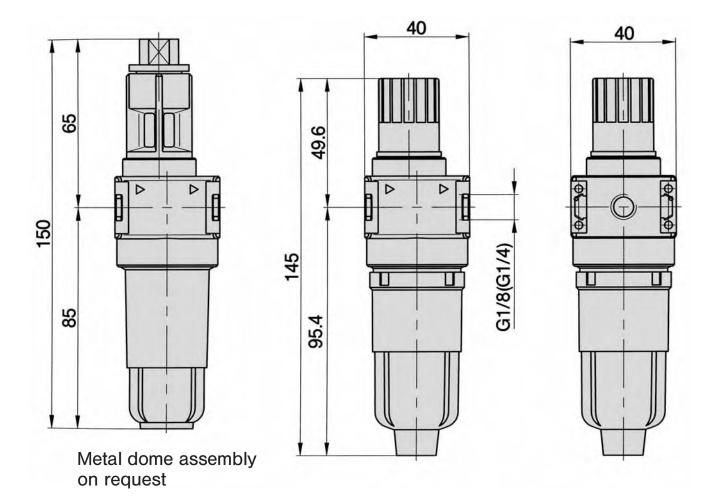
11.018 Subject to change

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Dimensions for series

OK





FROK





Order code

FROK-14-10-5-1221

Options for digits No. 1 and 2

12*=polycarbonate bowl, semi-automatic drain

13 = polycarbonate bowl, auto drain

22 = metal bowl, semi-automatic drain

42 = polycarbonate bowl with metal guard, semi-automatic drain

Options for digit No. 3

0 = without gauge flow from left to right

1 = without gauge flow from right to left

2*= with gauge flow from left to right

3 = with gauge flow from right to left

Options for digit No. 4

1 = standard 2 = key lockable

Design and function

The air service unit includes a filter/regulator, and lubricator.

The filter/regulator is a diaphragm style regulator with relieving feature. The filter includes a semi-automatic drain. The outlet pressure of the regulator remains constant regardless of incoming pressure changes. Once the desired pressure is achieved the adjusting knob can be fixed.

The filter removes both solid and liquid particles from the incoming air. The bowl can be supplied with a semi-automatic (drains when pressure is shut off) or auto drain.

The lubricator has a proportional adjustment screw.

The components of series K can easily be connected by using the coupling kit KPK-00.

For additional accessories see pages 11.032 and 11.033.

Order number Please complete according to order code.	FROK-18- 03-5	FROK-18- 06-5	FROK-18- 10-5*	FROK-14- 03-5	FROK-14- 06-5	FROK-14- 10-5*	
Connection	G 1/8			G 1/4			
Mounting	vertically, dra	in plug at botto	m				
Input range	max. 12 bar (10 bar with aut	o drain)				
Output range	0.1 3 bar (1.5 43 psi)	0.2 6 bar (3 87 psi)	0.5 10 bar (7 145 psi)	0.1 3 bar (1.5 43 psi)	0.2 6 bar (3 87 psi)	0.5 10 bar (7 145 psi)	
Filter element	5 μm						
Flow rate	800 NI/min. ((800 NI/min. (0.813 Cv)					
Bowl volume	max. 16 cm ³ c	ondensation vo	lume, 35 cm ³ o	il bowl			
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)						
Type of oil	HL 25 according to DIN 51524 – ISO VG 32						
Weight without pressure gauge*	0.510 kg (1.12	0.510 kg (1.124 lbs.)					

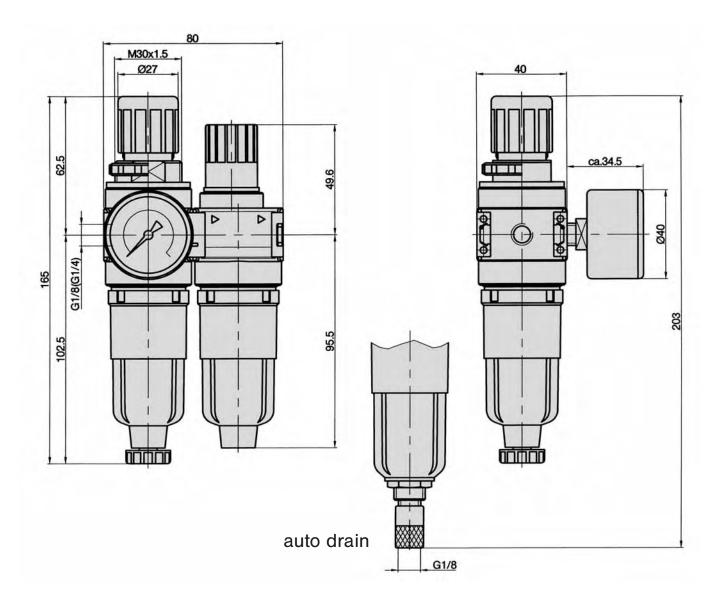
^{* =} standard type

11.020 Subject to change

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Dimensions for series

FROK

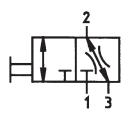


The main body of the regulator has two G 1/8 ports for gauge mounting. Either port may be used allowing the user to choose the direction of flow.

(Note: The second port must be plugged.)

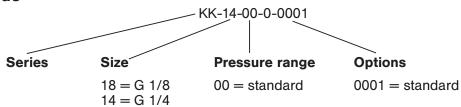


KK





Order code



Design and function

3/2-way ball valve for the shut-off of downstream air.

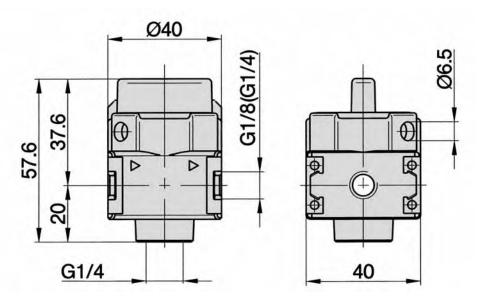
The components of series K can easily be connected by using the coupling kit KPK-00.

For additional accessories see page 11.032.

Order number	KK-18-00-0-0001	KK-14-00-0-0001		
Connection	G 1/8	G 1/4		
Mounting	arbitrary			
Input range	max. 16 bar (max. 232 psi)			
Flow rate	1800 NI/min. (1.829 Cv)			
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)			
Weight	0.246 kg (0.542 lb.)			

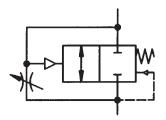
Dimensions for series







DAK





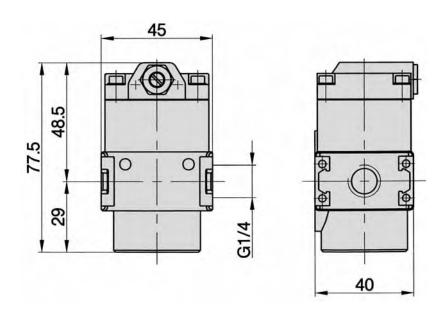
Design and function

Soft start valve with adjustable filling time. This valve can be used to slowly increase the system pressure through an adjustable throttle. When 50 % of the incoming pressure is achieved the valve opens completely. The components of series K can easily be connected by using the coupling kit KPK-00. For additional accessories see page 11.032.

Order number	DAK-14-00-0-0001	
Connection	G 1/4	
Mounting	arbitrary	
Pressure range	2.5 16 bar (36 232 psi)	
Flow rate	2200 NI/min (2.235 Cv)	
Temperature range 0 °C + 60 °C (+ 32 °F + 140 °F)		
Weight	0.430 kg (0.948 lb.)	

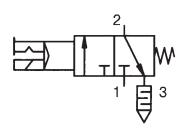
Dimensions for series



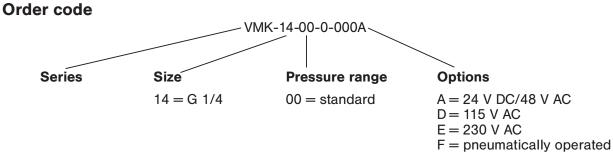




VMK







Design and function

Solenoid or pneumatically operated 3/2-way poppet valve with spring return. The solenoid and plug socket are supplied with the unit.

The components of series K can easily be connected by using the coupling kit KPK-00.

For additional accessories see page 11.032.

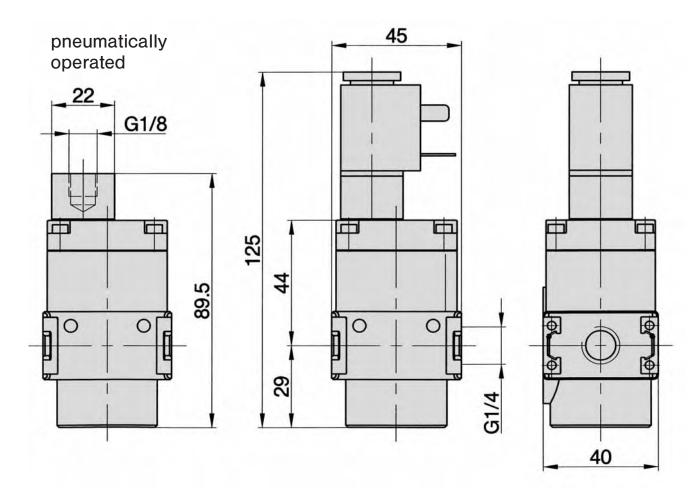
Order number Please complete according to order code.	VMK-14-00-0	
Connection	G 1/4	
Mounting	arbitrary	
Pressure range	2 10 bar (29 145 psi)	
Duty cycle	100 %	
Degree of protection	IP 65 according to EN 60529	
Flow rate	2000 NI/min (2.032 Cv)	
Temperature range	0 °C + 50 °C (+ 32 °F + 122 °F)	
Weight	0.450 kg (0.992 lb.)	

11.024 Subject to change



Dimensions for series

VMK





TK



Design and function

Distribution manifold block for additional air supply or other components.

This unit can be combined with pressure switch PE-18-01-04 (see page 7.180) to provide a preset pressure indicating system when combined with the air service units.

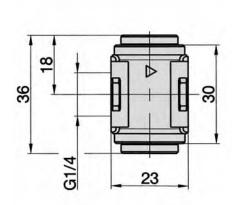
The components of series K can easily be connected by using the coupling kit KPK-00.

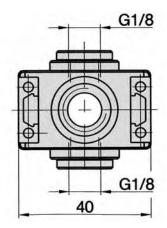
For additional accessories see page 11.032.

Order number	TK-14-00-0-0001
Connection	G 1/4, two outlets G 1/8
Mounting	arbitrary
Pressure range	0 16 bar (0 232 psi)
Flow rate	2700 NI/min for G 1/4, 1300 NI/min for G 1/8 (2.743 Cv for G 1/4, 1.321 Cv for G 1/8)
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)
Weight	0.090 kg (0.198 lb.)

Dimensions for series

TK





Air service units



Technical information

Semi-automatic condensate drain

A semi-automatic condensate drain contains a spring-loaded valve, which opens as soon as the operating pressure falls. In addition, the container is sealed by means of a screw plug. The condensate can be drained manually by opening the screw plug in the pressure-free state, or automatically by shuting off the operating pressure. The screw plug must be removed in automatic mode.

The semi-automatic condensate drain requires a minimum operating pressure of 1.5 bar (21.75 psi), otherwise the air will flow out of the bowl. (Only with screw plug removed).



Fully automatic condensate drain

The fully automatic condensate drain function can be switched to manual. For manual operation, the screw in the container must be turned to the left (counter clockwise).

For automatic operation, the screw must be turned to the right (clockwise) until it stops.

In automatic operation, the drain is always open in the pressure-free state. Under pressure, a float opens the drain valve as soon as a condensate level is reached.

The automatic condensate drain requires a minimum operating pressure of 1.5 bar (21.75 psi), otherwise the air will flow out of the bowl.



General information

Plastic containers may only be cleaned with water, soap solution or a similar neutral media. Cleaning agents containing trichloroethylene, such as benzene, acetone and any liquids containing plasticisers, may not be used under any circumstances.

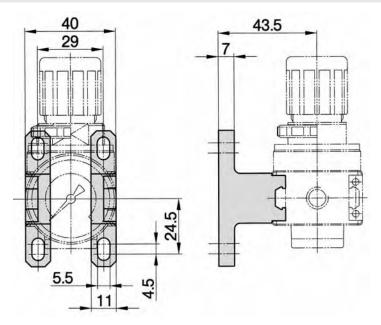
HL 25 oil in accordance with DIN 51524 - ISO VG 32 should be used in conjunction with mist oilers.



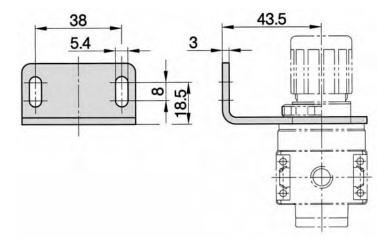
Accessories for series



Mounting bracket WK-00



Mounting bracket WK-30



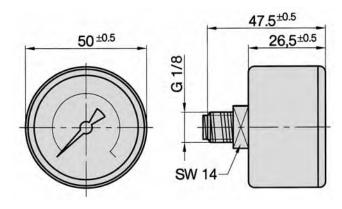
The mounting nut (see page 11.033) has to be ordered separately.

Accessories for series



Pressure gauge MXA-40





The sealing ring for gauge mounting on series K is supplied with the gauge.

Order number	MXA-40-06-18	MXA-40-10-18	MXA-40-16-18			
Ranges	0 6 bar (0 87 psi)	0 10 bar (0 145 psi)	0 16 bar (0 232 psi)			
Application	Constant load 3/4 x scale Alternating load 2/3 x scale					
Materials	Body : Plastic, highly shock resistant, black (ABS) Window : Plexiglass, convex, clipped-on Dial : Plastic, white with stop pin, scale black or blue Pointer : Plastic, black Movement : CuZn alloy Measuring element: Cu alloy					
Temperature range	- 40 °C + 60 °C (- 40 °F + 140 °F)					
Accuracy class	2.5 according to EN 837-1					
Temperature drift	0.4 % / 10 K if deviation from normal temperature 20 °C (68 °F).					
Weight	0.065 kg (0.143 lb.)					

Mounting nut RM-30



Order number	RM-30-K	RM-30-M	RM-30-Mv
Materials	plastic	brass	brass (nickel-plated)
Thread	M 30 x 1.5		

Coupling Kit KPK-00

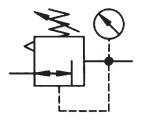


Pressure regulator for inline mounting G 1/8, G 1/4

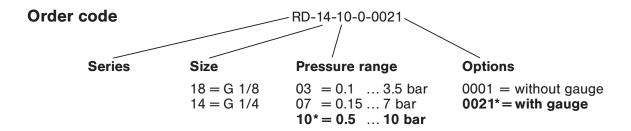


Technical data for series

RD







^{* =} standard type

Design and function

Regulator with diaphragm and relieving feature. Mounting nut must be ordered separately (see page 11.033).

Order number Please complete according to order code.	RD-18-03	RD-18-07	RD-18-10	RD-14-03	RD-14-07	RD-14-10
Connection	G 1/8			G 1/4		
Mounting	arbitrary					
Input range	max. 28 bar (max. 406 psi)					
Output range					0.15 7 bar (2.2 101 psi)	
Flow rate	350 NI/min. (0.356 Cv)					
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)					
Weight without pressure gauge	0.140 kg (0.308 lb.)					

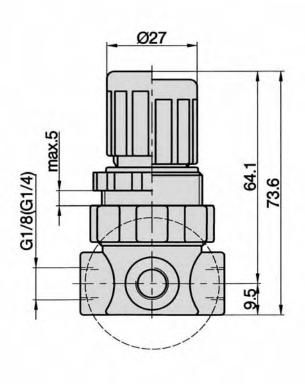
11.036 Subject to change

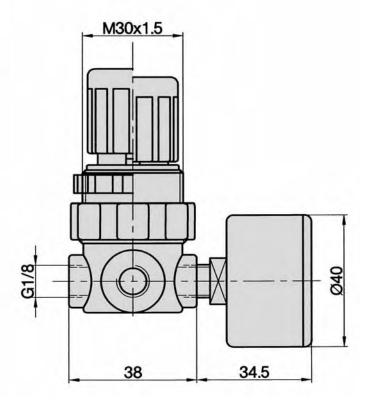
Pressure regulator for inline mounting G 1/8, G 1/4



Dimensions for series

RD

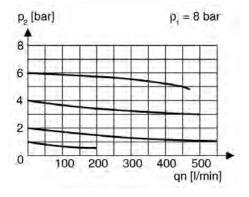




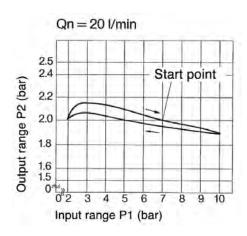
The main body of the regulator has two G 1/8 ports for gauge mounting. Either port may be used allowing the user to choose the direction of flow.

(Note: The second port must be plugged.)

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Hysterese







Series FX Filter,

G 1/4 to G 3/4 11.042

Series RX
Pressure regulator,
G 1/4 to G 3/4 11.044





Series FRX

Filter/regulator, G 1/4 to G 3/4

11.046



Series **OX**

Lubricator, G 1/4 to G 3/4 11.048



Two-piece air service unit, G 1/4 to G 3/4

11.050





Series KXBall valve,
G 1/4 to G 3/4 11.052



Series VMX 3/2-way inline valve, G 1/4 to G 1/2 11.054



Series DAX
Soft start valve,
G 1/4 to G 1/2
11.056



Series TX
Distribution block and pressure switch,
G 1/4 to G 3/4 11.058

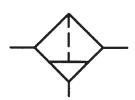


Accessories for Series X

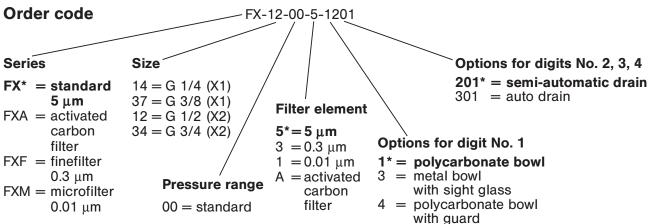
11.062



FX







Design and function

The filter operates on the centrifugal force principle with a sintered filter.

The filter should be inspected regularly to avoid the build up of condensate in the filter bowl. Various filter elements can be installed depending on the particular application.

Easy block assembly for components to be connected in series.

The components of series X can be easily connected by using the coupling kit KPX.

Series FXA, FXF and FXM are only available in size 12 and 14.

For additional accessories see pages 11.062 and 11.063.

The FXA series is only available as option 1001 or 2001. The bowl is always without drain.

Order number Please complete according to order code.	FX-14-00	FX-37-00	FX-12-00	FX-34-00	
Connection	G 1/4	G 3/8	G 1/2	G 3/4	
Serie	X1		X2		
Nominal size*	2100 NI/min (2.134 Cv) 4000 NI/min (4.065 Cv)				
Mounting	vertically, drain plug at bottom				
Input range	0 16 bar (0 232 psi) Min. 1.5 bar with auto drain Max. 20 bar with metal bowl 0 16 bar (0 232 psi) 1.5 12 bar with auto drain Max. 20 bar with metal bowl				
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)				
Bowl volume	max. 25 cm ³ max. 50 cm ³				
Weight*	0.275 kg (0.606 lb.)		0.798 kg (1.759 lbs.)		

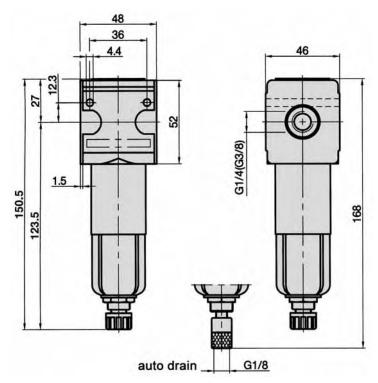
^{* =} standard type

11.042 Subject to change

Dimensions for series

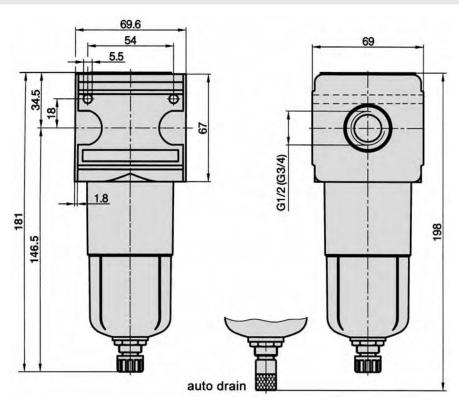
FX

FX-14, FX-37



Dimensions for activated carbon, fine, and micro filter on request.

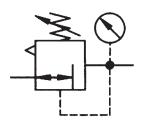
FX-12, FX-34



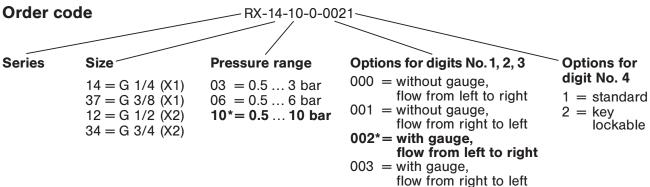
Dimensions for activated carbon, fine, and micro filter on request.



RX







Design and function

Pressure regulator with diaphragm and relieving function. The outlet pressure of the regulator remains constant regardless of incoming pressure changes. Once the desired pressure is achieved the adjusting knob can be fixed.

The components of series X can easily be connected by using the coupling kit KPX.

Components of size 12 and 34 can be connected to each other.

For additional accessories see pages 11.062 and 11.063.

Order number Please complete according to order code.	RX-14	RX-37	RX-12	RX-34	
Connection	G 1/4	G 3/8	G 1/2	G 3/4	
Series	X1		X2		
Mounting	with bracket or in-line				
Input range	max. 16 bar (max. 232 psi)				
Output range*	0.5 10 bar (7.25 145 psi)* (others see order code)				
Flow rate	1500 NI/min (1.524 Cv) 5600 NI/min (5.691 Cv)				
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)				
Weight without pressure gauge	0.330 kg (0.727 lb.) 0.530 kg key lockable (1.168 lbs.) 0.850 kg (1.874 lb.) 1.050 kg key lockable (2.315 lbs.)				

^{* =} standard type

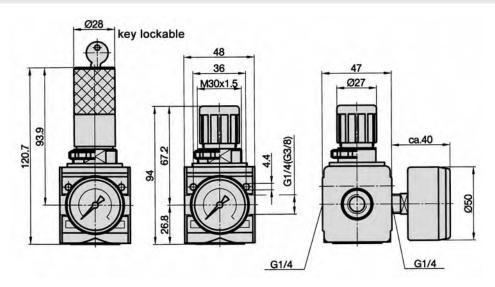
11.044 Subject to change



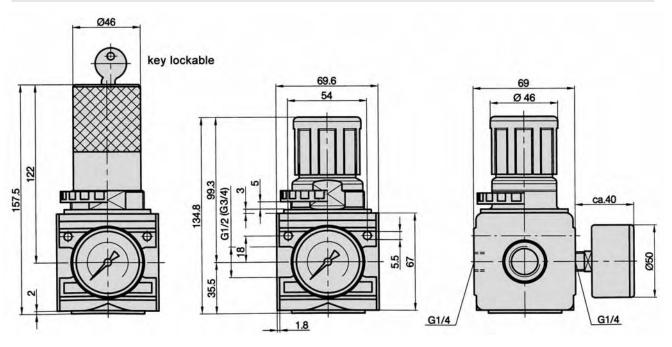
Dimensions for series

RX

RX-14, RX-37



RX-12, RX-34



The main body of the regulator has two G 1/4 ports for gauge mounting. Either port may be used allowing the user to choose the direction of flow.

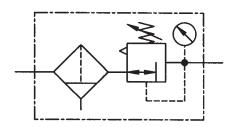
(Note: The second port must be plugged.)



FRX

Order code

34 = G 3/4 (X2)





Series

Pressure range

03 = 0.5 ... 3 bar

14 = G 1/4 (X1) 06 = 0.5 ... 6 bar

37 = G 3/8 (X1) 10*= 0.5 ... 10 bar

12 = G 1/2 (X2)

Options for digit No. 1

FRX-14-10-5-1221

1* = polycarbonate bowl

3 = metal bowl with sight glass

4 = polycarbonate bowl with guard

Options for digit No. 2 2* = semi-automatic drain

3 = auto drain

Options for digit No. 3

0 = without gauge, flow from left to right

1 = without gauge, flow from right to left

2* = with gauge, flow from left to right

3 = with gauge, flow from right to left

Options for digit No. 4

1 = standard2 = key lockable

Design and function

The filter/regulator is a diaphragm style with relieving function. The filter includes a manual drain.

The outlet pressure of the regulator remains constant regardless of incoming pressure changes. Once the desired pressure is achieved the adjusting knob can be fixed.

The filter removes both solid and liquid particles from the incoming air. The bowl can be supplied with a semi-automatic (drains when pressure is shut off) or a fully auto drain.

The components of series X can easily be connected by using the coupling kit KPX.

Components of size 12 and 34 can be connected to each other.

For additional accessories see pages 11.062 and 11.063.

Order number Please complete according to order code.	FRX-14	FRX-37	FRX-12	FRX-34	
Connection	G 1/4	G 3/8	G 1/2	G 3/4	
Series	X1		X2		
Mounting	vertically, drain plug	vertically, drain plug at bottom			
Input range	max. 16 bar (max. 232 1.5 10 bar with au		max. 16 bar (max. 232 psi) 1.5 12 bar with auto drain		
Output range*	0.5 10 bar (7.25 145 psi)* (others see order code)				
Flow rate	1500 NI/min (1.524 Cv	/)	3500 NI/min (3.557 C)	/)	
Filter element	5 μm				
Bowl volume	25 cm ³		50 cm ³		
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)				
Weight without pressure gauge*	0.330 kg (0.727 lb.) 0.530 kg key lockable	e (1.168 lbs.)	0.850 kg (1.874 lb.) 1.050 kg key lockable	e (2.315 lbs.)	

^{* =} standard type

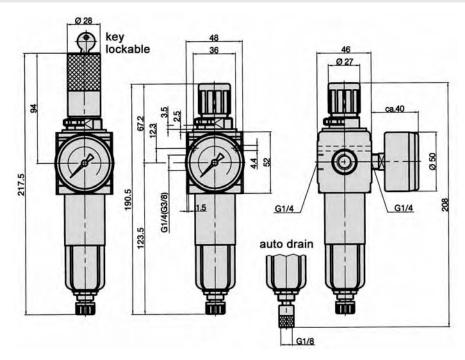
11.046 Subject to change



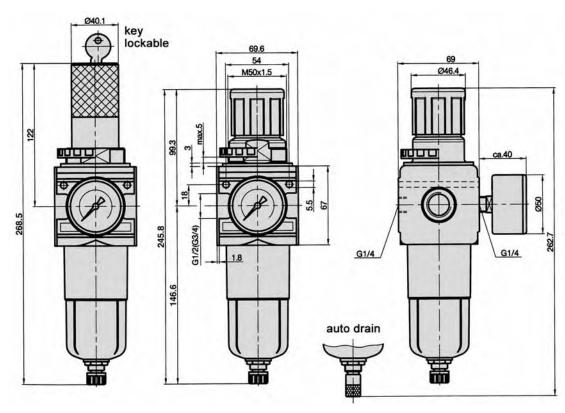
Dimensions for series

FRX

FRX-14, FRX-37



FRX-12, FRX-34



The main body of the regulator has two G 1/4 ports for gauge mounting. Either port may be used allowing the user to choose the direction of flow.

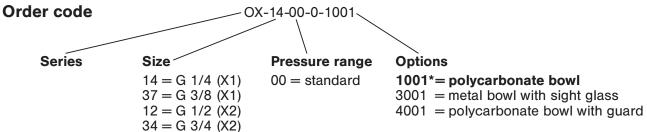
(Note: The second port must be plugged.)











Design and function

The lubricator has a proportional adjusting screw for adjustment of the oil/air mix. The components of series X can easily be connected by using the coupling kit KPX. Components of size 12 and 34 can be connected to each other. For additional accessories see page 11.062.

Order number Please complete according to order code.	OX-14-00-0	OX-37-00-0	OX-12-00-0	OX-34-00-0		
Connection	G 1/4	G 3/8	G 1/2	G 3/4		
Series	X1	X1 X2				
Mounting	vertically					
Input range	max. 16 bar, max. 20 bar with metal bowl (max. 232 psi, max. 290 psi					
Flow rate*	1800 NI/min (1.829 Cv) 5000 NI/min (5.081 Cv)					
Bowl volume	50 cm ³ 125 cm ³					
Type of oil	HL 25 according to DIN 51524 - ISO VG 32					
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)					
Weight*	0.330 kg (0.727 lb.)		0.690 kg (1.521 lbs.)			

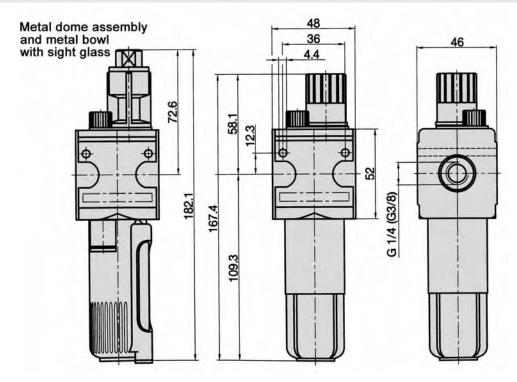
^{* =} standard type

11.048 Subject to change

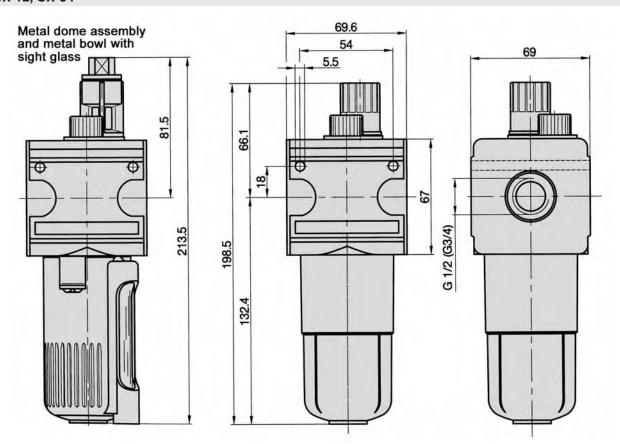
Dimensions for series



OX-14, OX-37



OX-12, OX-34





FROX





Order code

Series Pressure range Size $03 = 0.5 \dots 3 \text{ bar}$ $06 = 0.5 \dots 6 \text{ bar}$ 14 = G 1/4 (X1)10*= 0.5 ... 10 bar 37 = G 3/8 (X1)12 = G 1/2 (X2)34 = G 3/4 (X2)

Options for digit No. 1

1* = polycarbonate bowl 3 = metal bowl with sight glass

4 = polycarbonate bowl with guard

Options for digit No. 2

2* = semi-automatic

drain 3 = auto drain

Options for digit No. 3

0 = without gauge, flow from left to right

1 = without gauge, flow from right to left

2* = with gauge,flow from left to right

3 =with gauge, flow from right to left

Options for digit No. 4

1 = standard2 = key lockable

Design and function

The air service unit includes a filter/regulator, and lubricator.

The filter/regulator is a diaphragm style with relieving feature. The filter includes a manual drain.

The outlet pressure of the regulator remains constant regardless of incoming pressure changes. Once the desired pressure is achieved the adjusting knob can be fixed.

The filter removes both solid and liquid particles from the incoming air. The bowl can be supplied with a semiautomatic (drains when pressure is shut off) or auto drain.

The lubricator has a proportional adjusting.

The components of series X can easily be connected by using the coupling kit KPX.

Components of size 12 and 34 can be connected to each other.

For additional accessories see pages 11.062 and 11.063.

Order number Please complete according to order code.	FROX-14	FROX-37	FROX-12	FROX-34		
Connection	G 1/4	G 3/8	G 1/2	G 3/4		
Series	X1		X2			
Mounting	vertically, drain plug	vertically, drain plug at bottom				
Input range	max. 16 bar (max. 232 1.5 10 bar with au		max. 16 bar (max. 232 psi) 1.5 12 bar with auto drain			
Output range	0.5 10 bar (7.25 145 psi)* (others see order code)					
Flow rate	1150 NI/min (1.168 Cv	')	3600 NI/min (3.659 Cv)			
Filter element	5 μm					
Bowl volume	25 cm³ condensate, 5	0 cm ³ oil	50 cm³ condensate, 125 cm³ oil			
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)					
Weight without pressure gauge*	0.850 kg (1.874 lbs.)		1.730 kg (3.814 lbs.)			

^{* =} standard type

11.050 Subject to change

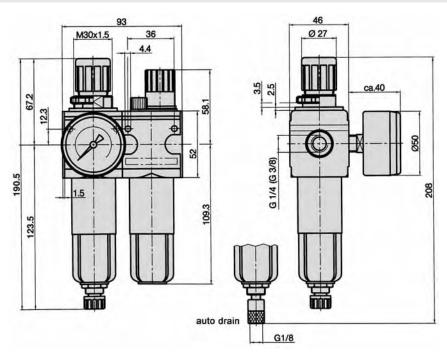
Series X Two piece air service unit G 1/4 – G 3/4



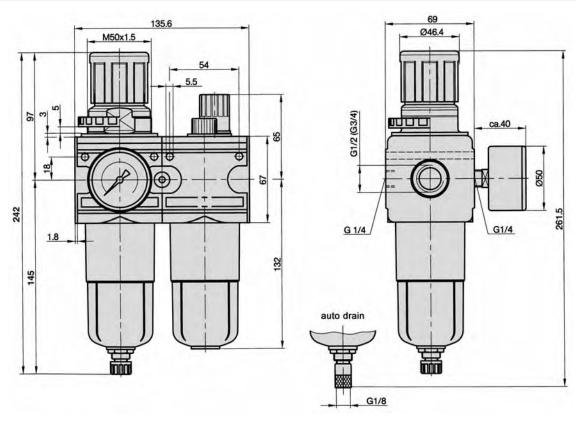
Dimensions for series

FROX

FROX-14, FROX-37



FROX-12, FROX-34

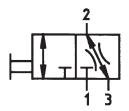


The main body of the regulator has two G 1/4 ports for gauge mounting. Either port may be used allowing the user to choose the direction of flow.

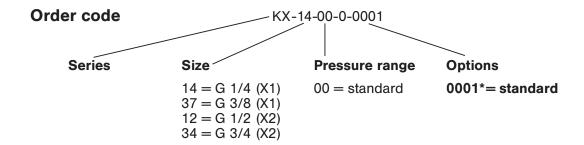
(Note: The second port must be plugged.)











Design and function

3/2-way ball valve for the shut-off of downstream air.

Easy block assembly for components to be connected in series.

The components of series X can easily be connected by using the coupling kit KPX.

Components of size 12 and 34 can be connected to each other.

For additional accessories see page 11.062.

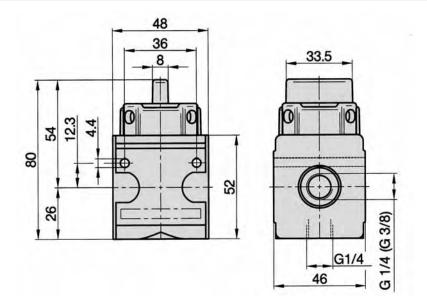
Order number Please complete according to order code.	KX-14-00-0	KX-37-00-0	KX-12-00-0	KX-34-00-0	
Connection	G 1/4	G 3/8	G 1/2	G 3/4	
Series	X1 X2				
Mounting	with bracket or in-line				
Input range	max. 16 bar (max. 232 psi)				
Flow rate	2800 NI/min (2.845 Cv) 11000 NI/min (11.176 Cv)				
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)				
Weight*	0.360 kg (0.794 lb.) 0.820 kg (1.4				

^{* =} standard type

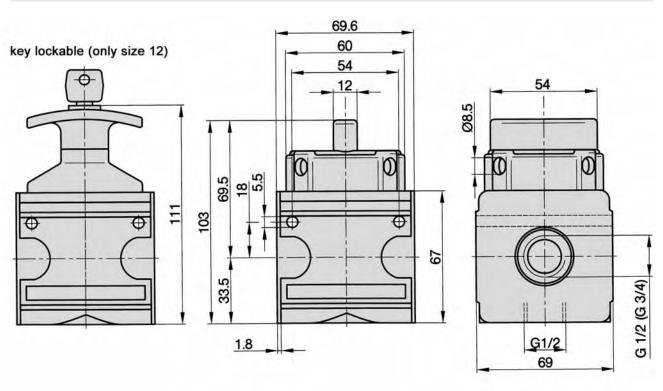
11.052 Subject to change



KX-14, KX-37

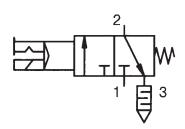


KX-12, KX-34

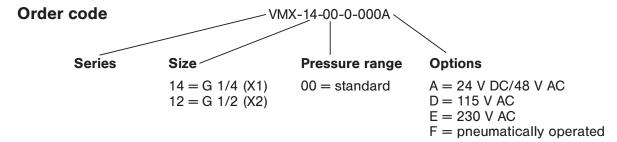




VMX







Design and function

Solenoid or pneumatically operated 3/2-way poppet valve with spring return. The solenoid and plug socket are supplied with the unit.

Easy block assembly for components to be connected in series.

The components of series X can be easily connected by using the coupling kit KPX.

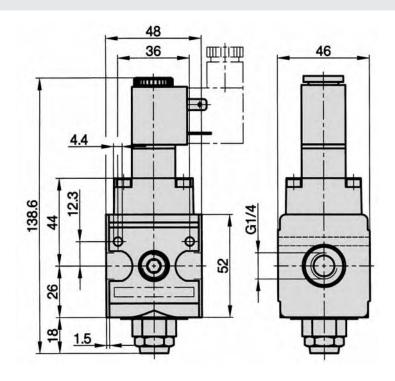
For additional accessories see page 11.062.

Order number Please complete according to order code.	VMX-14-00-0	VMX-12-00-0			
Connection	G 1/4	G 1/2			
Series	X1	X2			
Mounting	with bracket or in-line				
Pressure range	2 10 bar (29 145 psi)				
Einschaltdauer	100 %				
Degree of protection	IP 65 according to EN 60529				
Flow rate	870 NI/min (0.884 Cv) 4000 NI/min (4.065 Cv)				
Temperature range	0 °C + 50 °C (+ 32 °F + 122 °F)				
Weight	0.450 kg (0.992 lb.)	1.050 kg (2.315 lbs.)			

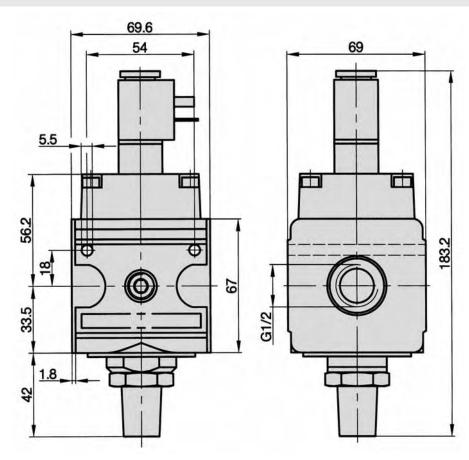
11.054 Subject to change

VMX

VMX-14



VMX-12

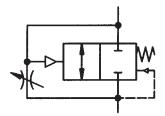


Subject to change 11.055

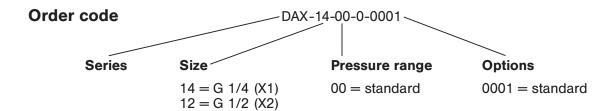
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DAX







Design and function

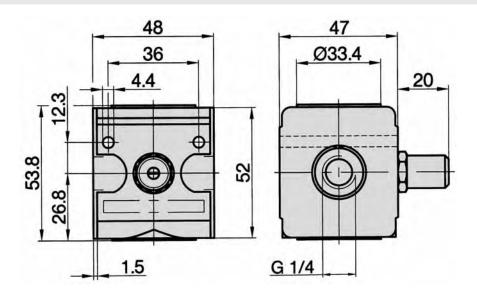
Soft start valve with adjustable filling time. This valve can be used to slowly increase the system pressure through an adjustable throttle. When 50 % of the incoming pressure is achieved the valve opens completely. The components of series X can be easily connected by using the coupling kit KPX. For additional accessories see page 11.062.

Order number	DAX-14-00-0-0001	DAX-12-00-0-0001			
Connection	G 1/4	G 1/2			
Series	X1	X2			
Mounting	with bracket or in-line				
Pressure range	2 16 bar (29 232 psi)				
Flow rate	1000 NI/min (1.016 Cv)	4000 NI/min (4.065 Cv)			
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)				
Weight	0.330 kg (0.727 lb.)	0.770 kg (1.697 lbs.)			

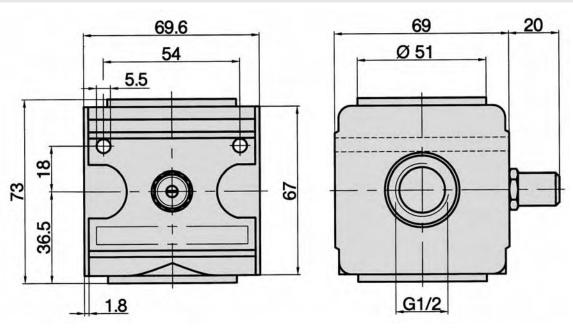
11.056 Subject to change

DAX

DAX-14



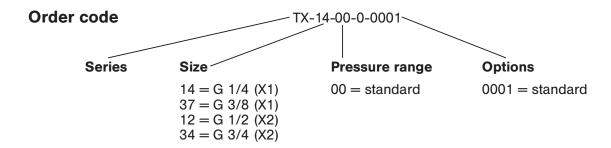
DAX-12





TX





Design and function

Distribution manifold block for additional air supply or other components.

This unit can be combined with pressure switch PE-18-01-04 (see page 7.181) to provide a preset pressure indicating system when combined with the air service units.

Easy block assembly for components to be connected in series.

The components of series X can be easily connected by using the coupling kit KPX.

Components of size 12 and 34 can be connected to each other.

For additional accessories see page 11.062.

Order number	TX-14-00-0-0001	TX-37-00-0-0001	TX-12-00-0-0001	TX-34-00-0-0001		
Connection	G 1/4	G 3/8	G 1/2	G 3/4		
Outlets	4 x G 1/4		2 x G 1/2, 2 x G 1/4			
Series	X1		X2			
Mounting	with bracket or in-line					
Pressure range	0 16 bar (0 232	psi)				
Flow rate	2500 NI/min (2.540 Cv) 2000 NI/min (outlet A* 900 NI/min (outlet B*	(2.032 Cv)	11000 NI/min (11.176 Cv) 8750 NI/min (outlet A*) (8.892 Cv) 1340 NI/min (outlet B*) (1.362 Cv)			
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)					
Weight*	0.330 kg (0.727 lb.)					

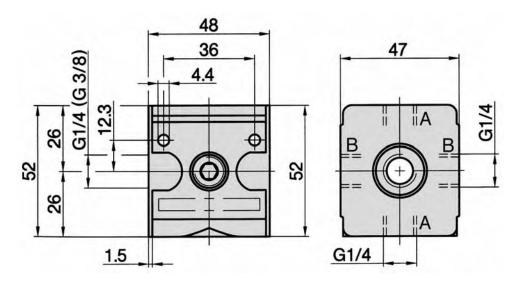
^{* =} outlet ports see page 11.059.

11.058 Subject to change

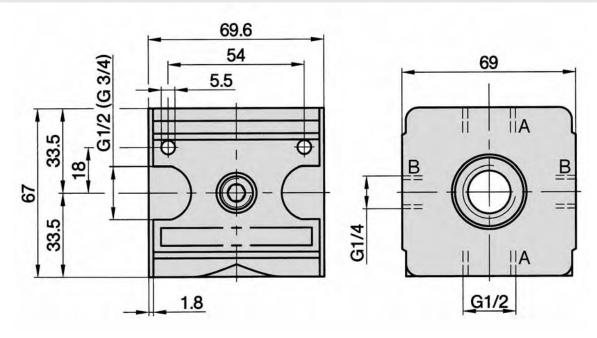


TX

TX-14, TX-37



TX-12, TX-34

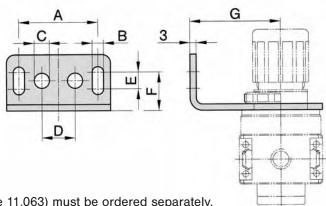




Accessories for series



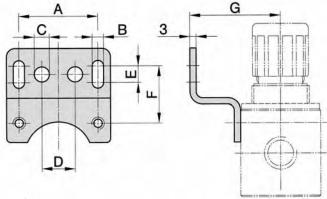
Mounting brackets WK-30, WK-50



The mounting nut (see page 11.063) must be ordered separately.

Order number	Serie	Α	В	С	D	E	F	G
WK-30	X1	38	5.4	_	_	8	18.5	43.5
WK-50	X2	50	6.4	10	20	13	24	54.5

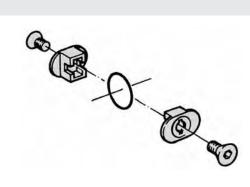
Mounting brackets WX-11, WX-33



The mounting nut (see page 11.063) must be ordered separately.

Order number	Serie	Α	В	С	D	E	F	G
WX-11	X1	38	5.4	-	-	8	27.5	48.5
WX-33	X2	50	6.4	10	20	13	33	51.5

Coupling kits KPX-11, KPX-33



Mounting set for the assembly of components of series X

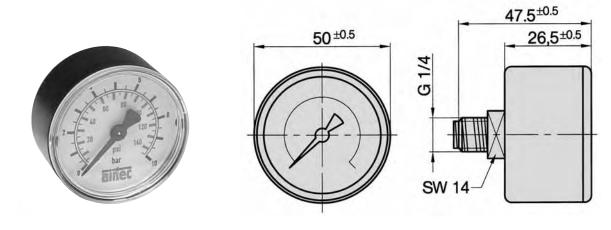
KPX-11 for series X1 KPX-33 for series X2

airlec

Accessories for series



Pressure gauge MXA-50



Sealing for assembly of gauge is included.

Order number	MXA-50-06-14	MXA-50-10-14	MXA-50-16-14				
Ranges	0 6 bar (0 87 psi)	0 10 bar (0 145 psi)	0 16 bar (0 232 psi)				
Application		Constant load 3/4 x scale value Alternating load 2/3 x scale value					
Materials	Window : Plexigl	alloy					
Temperature range	- 40 °C + 60 °C (- 40 °F	+ 140 °F)					
Accuracy class	2.5 according to EN 837-1	2.5 according to EN 837-1					
Temperature drift	0.4 % / 10 K if deviation from	m normal temperature 20 °C	(68 °F).				
Weight	0.071 kg (0.156 lb.)						

Mounting nuts RM-30, RM-50



Order number	RM-30-K	RM-30-M	RM-30-Mv	RM-50-K
Materials	plastic	brass	brass (nickel-plated)	plastic
Thread	M 30 x 1.5 (serie X1)			M 50 x 1.5 (serie X2)





Series FY

Filter, G 1/4 to G 1

11.072



Pressure regulator, G 1/4 to G 1

11.077





Series FRY

Filter/regulator, G 1/4 to G 1

11.080



Series OY Lubricator,

Lubricator, G 1/4 to G 1

11.083



Series FROY

Filter, Regulator, Lubricator combination, G 1/4 to G 1

11.086



Series KY

Ball valve, G 1/4 to G 1

11.089

11.070





Series NY
Non-return valve,
G 1/4 to G 1/2

11.091







Series DAY
Soft start valve,
G 1/4 to G 1

11.096





Accessories for Series Y

11.101

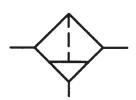
Series RP
Precision pressure
regulator,
G 1/4 - G 1/2

11.110

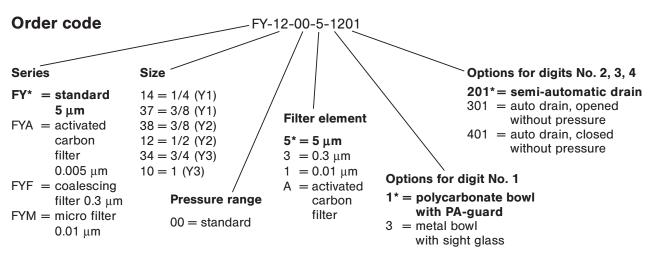












Design and function

The FXA series is only available as option 1001 or 2001. The bowl is always without drain.

Order number Please complete according to order code.	FY-14-00	FY-37-00	FY-38-00	FY-12-00	FY-34-00	FY-10-00	
Connection	G 1/4	G 3/8	G 3/8	G 1/2	G 3/4	G 1	
Series	Y1		Y2		Y3		
Nominal size*	2200 NI/min (2.236 Cv)	2400 NI/min (2.44 Cv)	3500 NI/mi (3.557 Cv)				
Mounting	vertically, drai	n plug at botton	n				
Input range		(7.25 232 psi) ith auto drain	0.5 16 bar (7.25 232 psi) 1 1.5 12 bar with auto drain			21.75 232 psi)	
Temperature range	- 10 °C + 5	60 °C (+ 14 °F	+ 122 °F)				
Materials	Housing: Grive	ory (PA66); Con	nection: die cas	st Zinc			
Bowl volume	max. 28 cm ³		max. 49 cm ³		max. 87 cm ³		
Weight*	0.212 kg (0.46	7 lb.)	0.361 kg (0.796 lb.)		0.300 kg (0.661 lb.)		

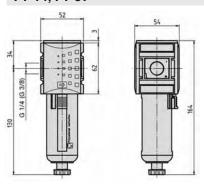
^{* =} standard type

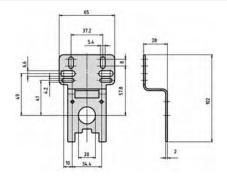
11.072 Subject to change



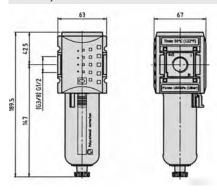
FY

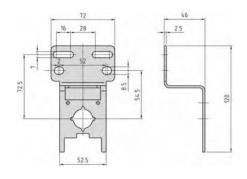
FY-14, FY-37



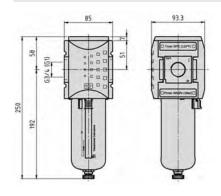


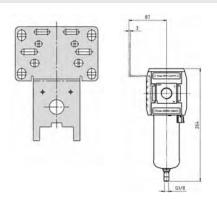
FY-38, FY-12



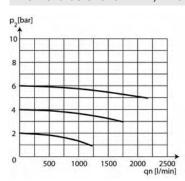


FY-34, FY-10

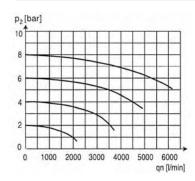




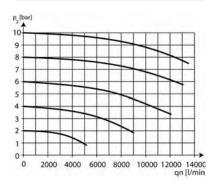
Flow characteristic FY-14, FY-37



Flow characteristic FY-38, FY-12



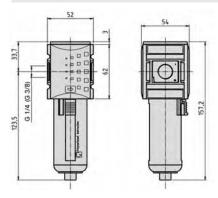
Flow characteristic FY-34, FY-10

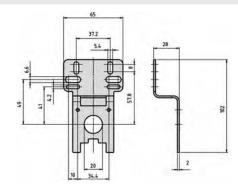




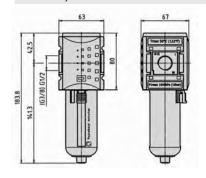
FYA – Active carbon filter

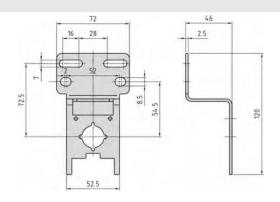
FYA-14, FYA-37



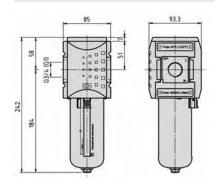


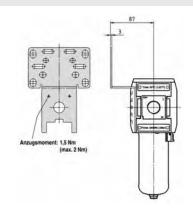
FYA-38, FYA-12



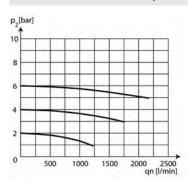


FYA-34, FYA-10

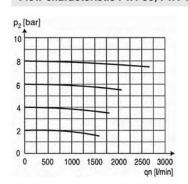




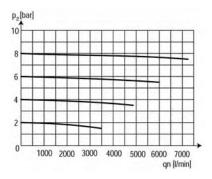
Flow characteristic FYA-14, FYA-37



Flow characteristic FYA-38, FYA-12



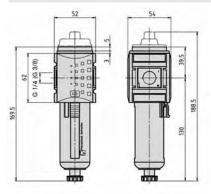
Flow characteristic FYA-34, FYA-10

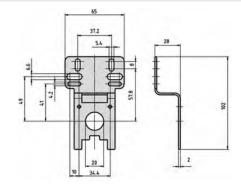




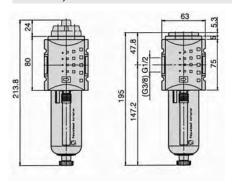
FYF - Coalescing filter (pre-filter)

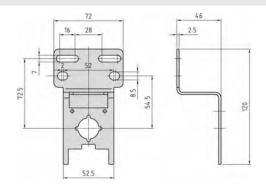
FYF-14, FYF-37



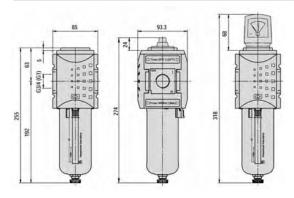


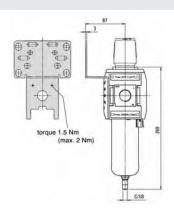
FYF-38, FYF-12



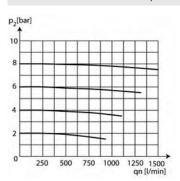


FYF-34, FYF-10

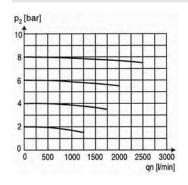




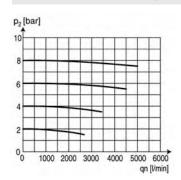
Flow characteristic FYF-14, FYF-37



Flow characteristic FYF-38, FYF-12



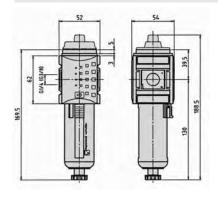
Flow characteristic FYF-34, FYF-10

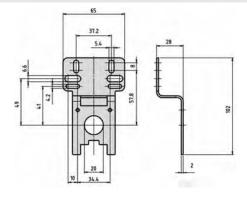




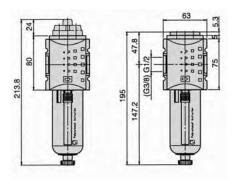
FYM - Micro filter

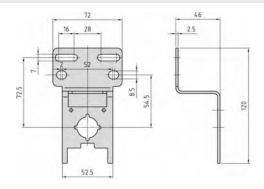
FYM-14, FYM-37



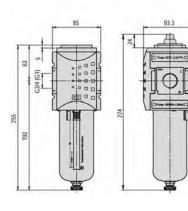


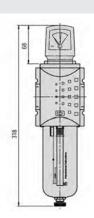
FYM-38, FYM-12

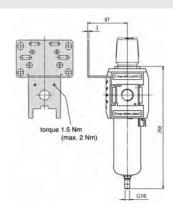




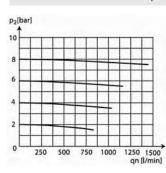
FYM-34, FYM-10



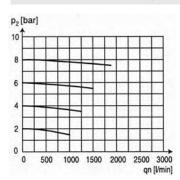




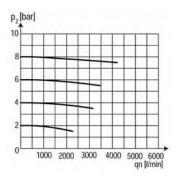
Flow characteristic FYM-14, FYM-37



Flow characteristic FYM-38, FYM-12

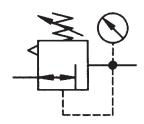


Flow characteristic FYM-34, FYM-10





RY





Order code

RY-14-10-0-0021
Series Size Pressure range

Seri	es	Size	Pressure range
RY	= standard	14 = 1/4 (Y1)	$04 = 0.2 \dots 4 \text{ bar}$
		37 = 3/8 (Y1)	(2.9 58 psi)
		38 = 3/8 (Y2)	$08 = 0.5 \dots 8 \text{ bar}$
		12 = 1/2 (Y2)	(7.25 116 psi)
		34 = 3/4 (Y3)	10* = 0.5 10 bar
		10 = 1 (Y3)	(7.25 145 psi)

Options for digits No. 1, 2, 3

000 = without gauge, flow from left to right

Options for digit No. 4

1 = standard

001 = without gauge, flow from right to left

002* = with gauge, flow from left to right

003 = with gauge, flow from right to left

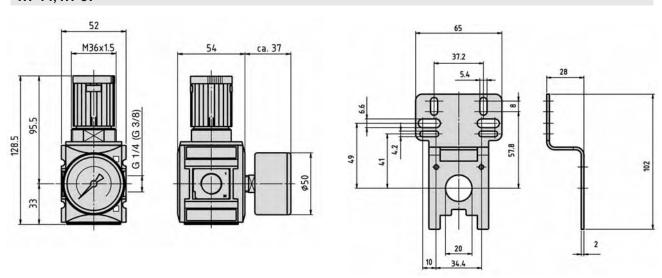
Order number Please complete according to order code.	RY-14	RY-37	RY-38	RY-12	RY-34	RY-10	
Connection	G 1/4	G 3/8	G 3/8	G 1/2	G 3/4	G 1	
Series	Y1		Y2	Y2 Y3		·	
Mounting	with bracket or	in-line, horizont	tal or vertical				
Input range	max. 16 bar	max. 16 bar (max. 232 psi)					
Output range*	0.5 10 bar	(7.25 145 psi)* (others see o	order code)			
Flow rate	2200 NI/min (2.236 Cv)	2700 NI/min (2.744 Cv)	4300 NI/min (4.37 Cv)		14500 NI/min (14.74 Cv)		
Temperature range	- 10 °C + 5	50 °C (+ 14 °F .	+ 122 °F)				
Materials	Housing: Grivory (PA66); Connection: die cast Zinc						
Medium	Compressed air, acc. to ISO 8573-1:2001, dry air						
Weight without pressure gauge	0.292 kg (0.64	14 lb.)	0.8 kg (1.764 lbs.) 0.997 kg (2.216 lbs.)			16 lbs.)	

^{* =} standard type

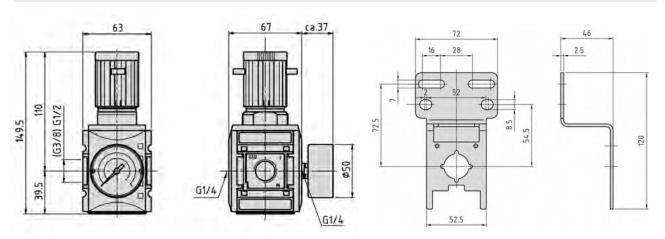


RY

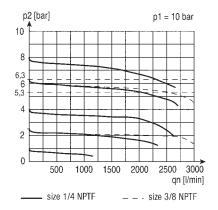
RY-14, RY-37



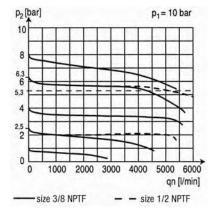
RY-38, RY-12



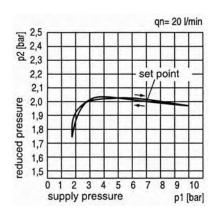
Flow rate: RY-14, RY-37



Flow rate: RY-38, RY-12



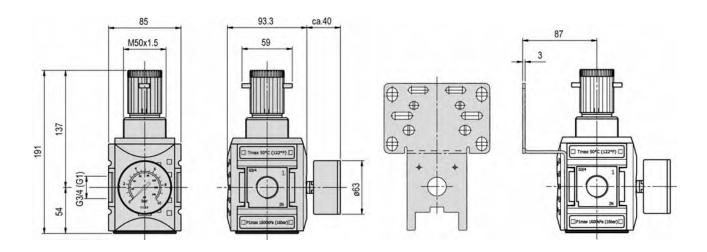
Pressure characteristic



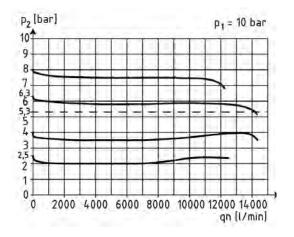


RY

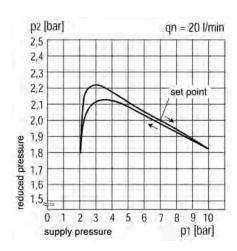
RY-34, RY-10



Flow rate: RY-34, RY-10



Pressure characteristic

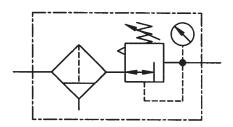




FRY

Series

10 = 1 (Y3)





Order code FRY-14-10-5-1221

Pressure range

2:	Fressure range
Size	04 = 0.2 4 bar
14 = 1/4 (Y1)	(2.9 58 psi)
37 = 3/8 (Y1)	$08 = 0.5 \dots 8 \text{ bar}$
38 = 3/8 (Y2)	(7.25 116 psi)
12 = 1/2 (Y2)	10* = 0.5 10 bar
34 = 3/4 (Y3)	(7.25 145 psi)

Options for digit No. 1

1* = polycarbonate bowl with PA-guard

3 = metal bowl with sight glass

Options for digit No. 3

0 = without gauge, flow from left to right

1 = without gauge, flow from right to left

2* = with gauge, flow from left to right

3 = with gauge, flow from right to left

Options for digit No. 2 2* = semi-automatic

drain

3 = auto drain, NO at operating pressure 0 bar

4 = auto-drain, NC at operating pressure 0 bar

Options for digit No. 4

1 = standard

Order number Please complete according to order code.	FRY-14	FRY-37	FRY-38	FRY-12	FRY-34	FRY-10
Connection	G 1/4	G 3/8	G 3/8	G 1/2	G 3/4	G 1
Series	Y1		Y2		Y3	
Mounting	vertically, dra	in plug at botto	m			
Input range	max. 16 bar v 1.5 10 bar v	(max. 232 psi) vith auto drain	max. 16 bar (max. 232 psi) 1.5 12 bar with auto drain		max. 16 bar (max. 232 psi) 1.5 10 bar with auto drain	
Output range*	0.5 10 bar	(7.25 145 psi)* (others see	order code)		
Flow rate	2600 NI/min (2.642 Cv)		4300 NI/min (4.37 Cv)	5200 NI/min (5.285 Cv)	14500 Ni/min (14.74 Cv)	
Filter element	5 μm					
Bowl volume	28 cm ³		49 cm ³		87 cm ³	
Temperature range	50 °C (122 °F)					
Materials	Housing: Griv	ory (PA66); Co	nnection: die ca	ast Zinc		
Medium	Compressed	Compressed air, acc. to ISO 8573-1:2001, dry air				
Weight without pressure gauge*	0.360 kg (0.79 0.530 kg locka		0.850 kg (1.87 1.050 kg locka	74 lb.) able (2.315 lbs.)	0.990 kg (2.1	8 lb.)

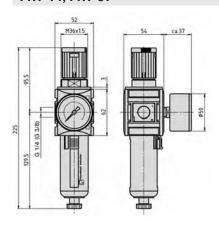
^{* =} standard type

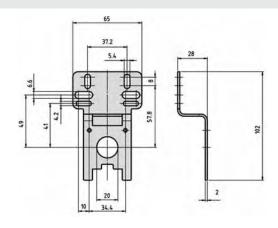
11.080 Subject to change



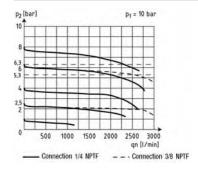
FRY

FRY-14, FRY-37

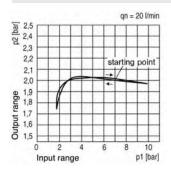




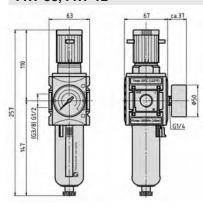
Flow characteristic FRY-14, FRY-37

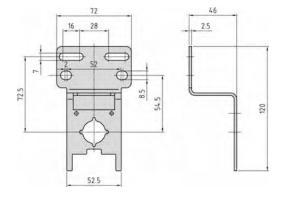


Pressure characteristic

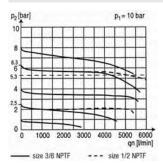


FRY-38, FRY-12

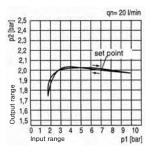




Flow characteristic FRY-38, FRY-12



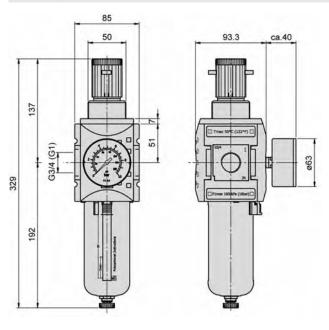
Pressure characteristic

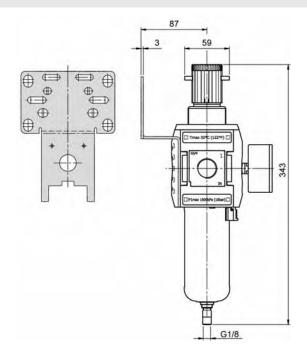




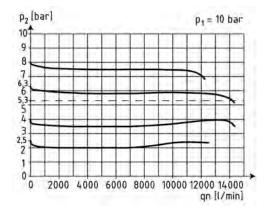
FRY

FRY-34, FRY-10

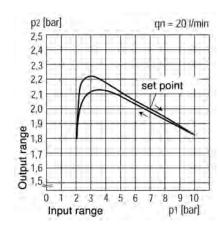




Flow characteristic FRY-38, FRY-12



Pressure characteristic



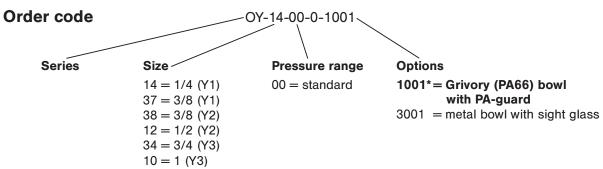
11.082 Subject to change



OY







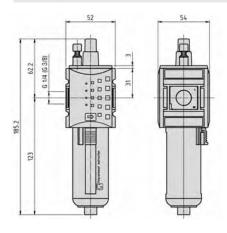
Order number Please complete according to order code.	OY-14-00-0	OY-37-00-0	OY-38-00-0	OY-12-00-0	OY-34-00-0	OY-10-00-0
Connection	G 1/4	G 3/8	G 3/8	G 1/2	G 3/4	G 1
Series	Y1		Y2		Y3	
Mounting	vertically	vertically				
Input range	max. 16 bar, r	max. 16 bar, max. 20 bar with metal bowl (max. 232 psi, max. 290 psi)				
Flow rate*	2800 NI/min (2.845 Cv)	3100 NI/min (3.15 Cv)	8000 NI/min (8.13 Cv)		14500 NI/min (14.74 Cv)	
Bowl volume	40 cm ³ 80 cm ³ 181 cm ³					
Type of oil	HL 25 according to DIN 51524 – ISO VG 32					
Temperature range	0 °C + 50 °C (+ 32 °F + 122 °F)					
Materials	Housing: Grivory (PA66); Connection: die cast Zinc					
Weight*	0.230 kg (0.507 lb.)			30 lbs.)		

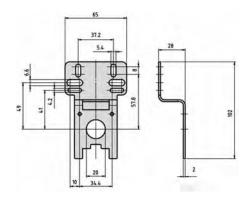
^{* =} standard type



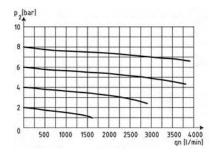


OY-14, OY-37

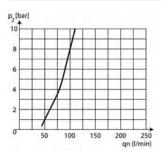




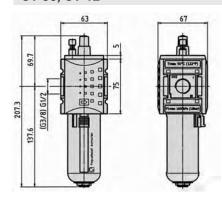
Flow characteristic OY-14, OY-37

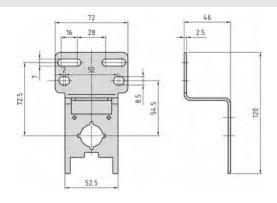


Lubricator: response pressure

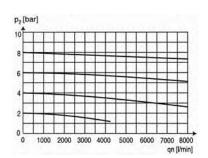


OY-38, OY-12

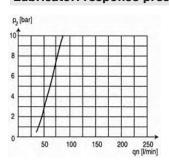




Flow characteristic OY-38, OY-12



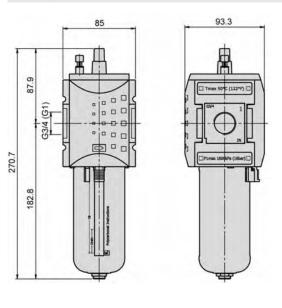
Lubricator: response pressure

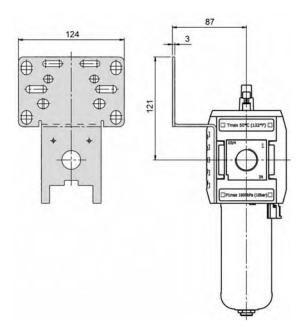




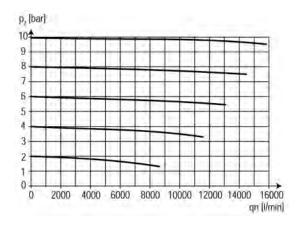


OY-34, OY-10

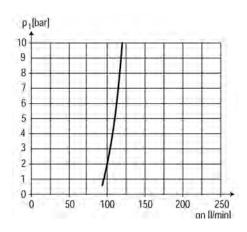




Flow characteristic OY-34, OY-10



Lubricator: response pressure





FROY





Order code FROY-14-10-5-1221 Series Options for digit

2.	Pressure range		
Size	04 = 0.2 4 bar		
14 = 1/4 (Y1)	(2.9 58 psi)		
37 = 3/8 (Y1)	$08 = 0.5 \dots 8 \text{ bar}$		
38 = 3/8 (Y2)	(7.25 116 psi)		
12 = 1/2 (Y2)	10* = 0.5 10 bar		
34 = 3/4 (Y3)	(7.25 145 psi)		

10 = 1 (Y3)

Options for digit No. 1 1*= Grivory (PA66) bowl with PA-guard

3 = metal bowl with sight glass

Options for digit No. 3

0 = without gauge, flow from left to right

1 = without gauge, flow from right to left

2* = with gauge, flow from left to right

3 = with gauge, flow from right to left Options for digit No. 2 2* = semi-automatic drain

3 = auto drain, NO 4 = auto-drain, NC

Options for digit No. 4

1 = standard

Order number Please complete according to order code.	FROY-14	FROY-37	FROY-38	FROY-12	FROY-34	FROY-10	
Connection	G 1/4	G 3/8	G 3/8	G 1/2	G 3/4	G 1	
Series	Y1		Y2		Y3		
Mounting	vertically, dra	in plug at botto	m				
Input range	max. 16 bar (max. 232 psi) max. 16 bar (max. 232 psi) max. 16 bar (max. 232 psi) 1.5 10 bar with auto drain 1.5 12 bar with auto drain 1.5 10 bar with auto dr						
Output range*	0.5 10 bar	0.5 10 bar (7.25 145 psi)* (others see order code)					
Flow rate	2000 NI/min (2.032 Cv)	2600 NI/min (2.642 Cv)	4300 NI/min (4.37 Cv)	5200 NI/min (5.285 Cv)	12000 NI/min (12.2 Cv)		
Filter element	5 μm	5 μm					
Bowl volume	Filter regulator: 28 cm³ Filter regulator: 49 cm³ Filter regulator: 87 cm³ Lubricator: 40 cm³ Lubricator: 80 cm³ Lubricator: 181 cm³						
Temperature range	50 °C (122 °F)						
Materials	Housing: Grivory (PA66); Connection: die cast Zinc						
Medium	Compressed air, acc. to ISO 8573-1:2001, dry air						
Weight without pressure gauge*	0.633 kg (1.395 lbs.) 1.010 kg (2.227 lbs.) 1.827 kg (4.024 lbs.)			24 lbs.)			

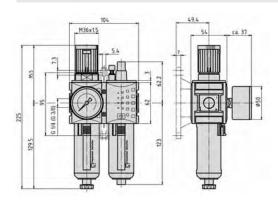
^{* =} standard type

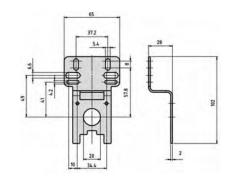
11.086 Subject to change



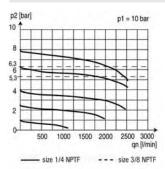
FROY

FROY-14, FROY-37

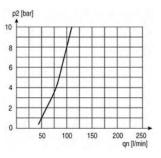




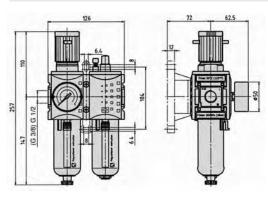
Flow characteristic FROY-14, FROY-37

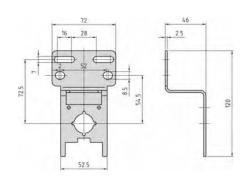


Lubricator: response pressure

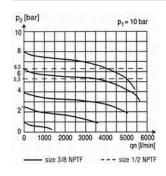


FROY-38, FROY-12

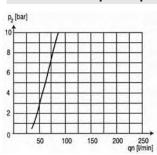




Flow characteristic FROY-38, FROY-12



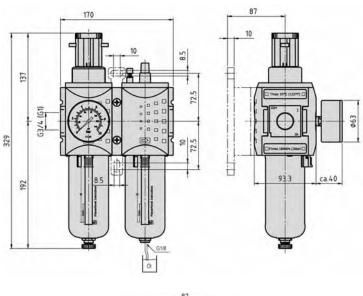
Lubricator: response pressure

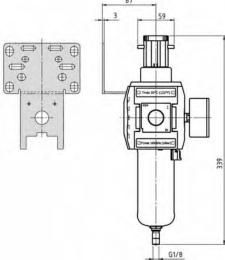




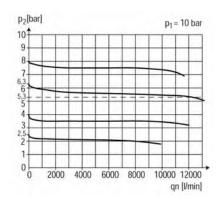
FROY

FROY-34, FROY-10

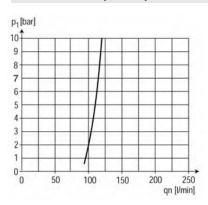




Flow characteristic FROY-34, FROY-10

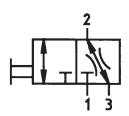


Lubricator: response pressure

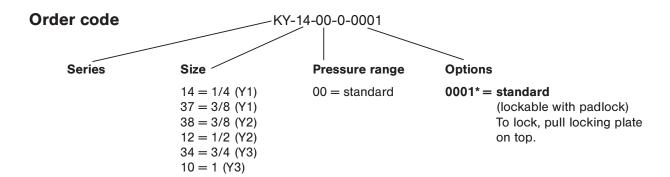












Design and function

3/2-way ball valve for the shut-off of downstream air.

Easy block assembly for components to be connected in series.

The components of series Y can easily be connected by using the coupling kit KPY.

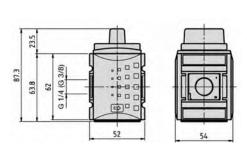
Order number Please complete according to order code.	KY-14-00-0	KY-37-00-0	KY-38-00-0	KY-12-00-0	KY-34-00-0	KY-10-00-0	
Connection	G 1/4	G 3/8	G 3/8	G 1/2	G 3/4	G 1	
Series	Y1	Y1 Y2 Y3					
Mounting	with bracket or in-line, horizontal or vertical						
Input range	max. 16 bar (max. 232 psi)						
Flow rate	2000 NI/min 4300 NI/min 5200 NI/min 14500 NI/min (2.032 Cv) (5.285 Cv) (14.74 Cv)						
Temperature range	0 °C + 50 °C (+ 32 °F + 122 °F)						
Materials	Housing: Grivory (PA66); Connection: die cast Zinc						
Weight*	0.200 kg (0.441 lb.) 0.820 kg (1.808 lbs.) 0.825 kg (1.82 lbs.)				2 lbs.)		

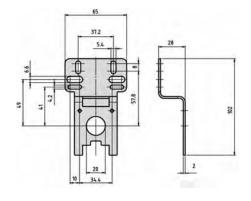
^{* =} standard type



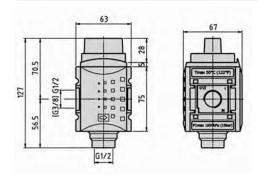


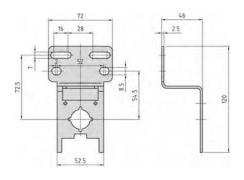
KY-14, KY-37



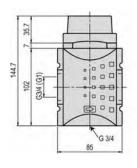


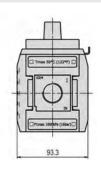
KY-38, KY-12

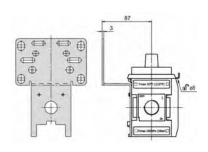




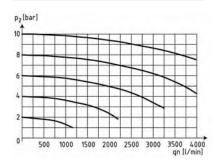
KY-34, KY-10



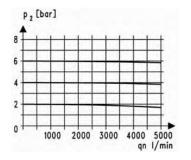




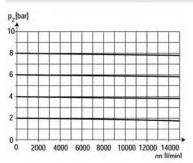
Flow characteristic KY-14, KY-37



Flow characteristic KY-38, KY-12

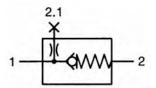


Flow characteristic KY-34, KY-10

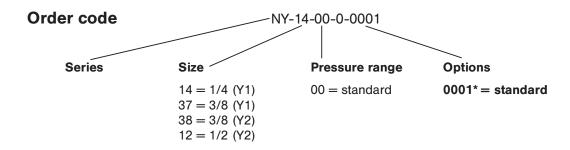




NY







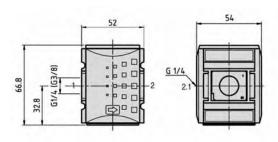
Order number Please complete according to order code.	NY-14-00-0	NY-37-00-0	NY-38-00-0	NY-12-00-0		
Connection	G 1/4	G 3/8	G 3/8	G 1/2		
Series	Y1		Y2			
Mounting	with bracket or in-line	with bracket or in-line, horizontal or vertical				
Input range	max. 16 bar (max. 232 psi)					
Flow rate	1250 NI/min (1.27 Cv) 5000 NI/min (5.08 Cv)					
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)					
Materials	Housing: Grivory (PA66); Connection: die cast Zinc					
Weight*	0.250 kg (0.551 lb.) 0.320 kg (0.705 lb.)					

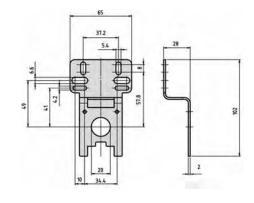
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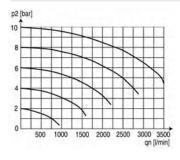
NY

NY-14, NY-37

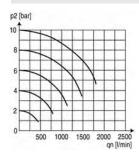




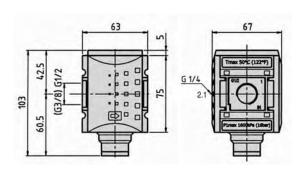
Flow characteristic NY-14, NY-37 nominal flow from $1 \rightarrow 2$

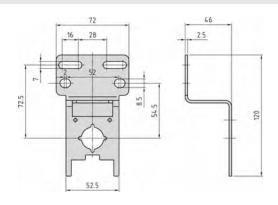


Flow characteristic NY-14, NY-37 nominal flow from $1 \rightarrow 2.1$

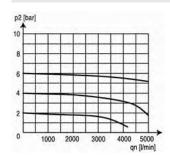


NY-38, NY-12

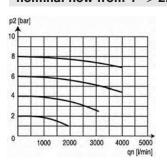




Flow characteristic NY-38, NY-12 nominal flow from $1 \rightarrow 2$

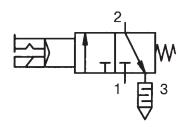


Flow characteristic NY-38, NY-12 nominal flow from $1 \rightarrow 2.1$

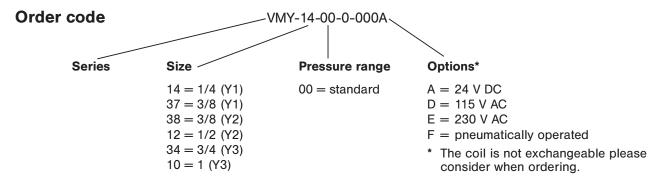




VMY







Design and function

Solenoid or pneumatically operated 3/2-way poppet valve with spring return. The solenoid and plug socket are supplied with the unit.

Easy block assembly for components to be connected in series.

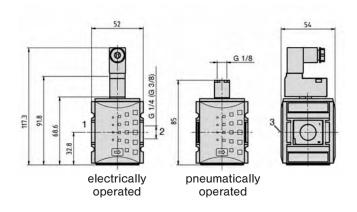
The components of series Y can be easily connected by using the coupling kit KPY.

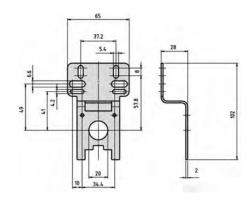
Order number Please complete according to order code.	VMY-14-00-0	VMY-37-00-0	VMY-38-00-0	VMY-12-00-0	VMY-34-00-0	VMY-10-00-0	
Connection	G 1/4	G 3/8	G 3/8	G 1/2	G 3/4	G 1	
Series	Y1	Y1 Y2 Y3					
Mounting	with bracket of	with bracket or in-line, horizontal or vertical					
Pressure range	2 10 bar (2 10 bar (29 145 psi)					
Duty cycle	100 %	100 %					
Degree of protection	IP 65 accordi	IP 65 according to EN 60529					
Flow rate	1800 NI/min (1.829 Cv)	2000 NI/min (2.032 Cv)	4300 NI/min (4.37 Cv)	5200 NI/min (5.285 Cv)	12500 NI/min (12.71 Cv)		
Temperature range	0 °C + 50 °C (+ 32 °F + 122 °F)						
Materials	Housing: Grivory (PA66); Connection: die cast Zinc						
Weight	0.196 kg (0.432 lb.) 1.050 kg (2.315 lbs.) 0.677 kg (1.49 lbs.)						



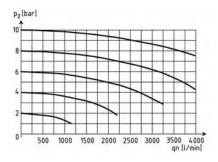
VMY

VMY-14, VMY-37

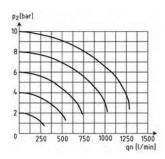




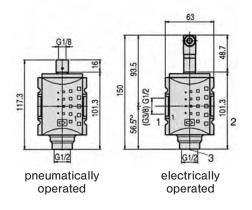
Flow characteristic VMY-14, VMY-37

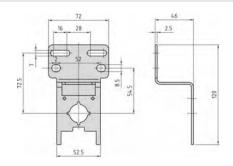


Rear exhaust flow characteristic

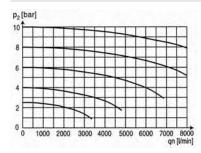


VMY-38, VMY-12

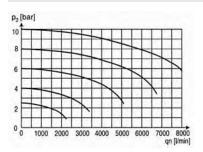




Flow characteristic VMY-38, VMY-12



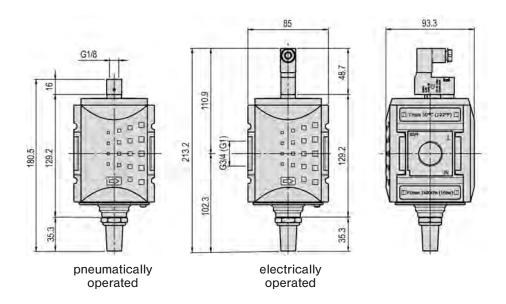
Rear exhaust flow characteristic

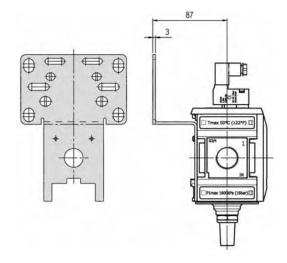




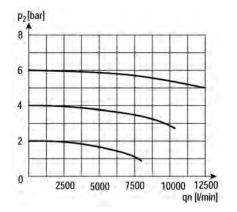
VMY

VMY-34, VMY-10

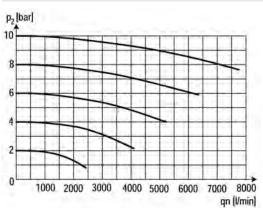




Flow characteristic VMY-34, VMY-10

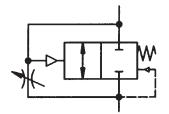


Rear exhaust flow characteristic

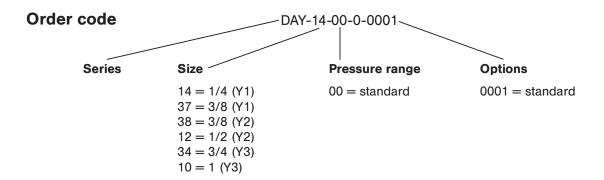




DAY







Design and function

Soft start valve with adjustable filling time. This valve can be used to slowly increase the system pressure through an adjustable throttle. When 50 % of the incoming pressure is achieved the valve opens completely. The components of series Y can be easily connected by using the coupling kit KPY.

Order number	DAY-14-00-0-0001	DAY-37-00-0-0001	DAY-38-00-0-0001	DAY-12-00-0-0001	DAY-34-00-0-0001	DAY-10-00-0-0001
Connection	G 1/4	G 3/8	G 3/8	G 1/2	G 3/4	G 1
Series	Y1 Y2		Y3			
Mounting	with bracket of	with bracket or in-line, horizontal or vertical				
Pressure range	2 16 bar (2 16 bar (29 232 psi)			2,516 bar (36.25232 psi)	
Flow rate	1800 NI/min (1.829 Cv)	2000 NI/min (2.032 Cv)	4300 NI/min (4.37 Cv)	5200 NI/min (5.285 Cv)	10000 NI/min (10.17 Cv)	
Temperature range	0 °C + 50 °C (+ 32 °F + 122 °F)					
Materials	Housing: Grivory (PA66); Connection: die cast Zinc					
Weight	0.180 kg (0.397 lb.) 0.770 kg (1.697 lbs.) 0.430 kg (0.95 lb.)				5 lb.)	

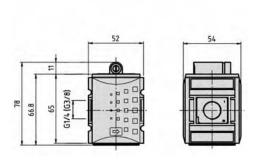
11.096 Subject to change

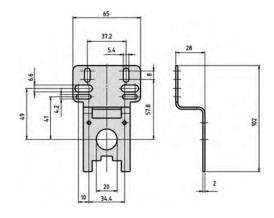


Dimensions for series

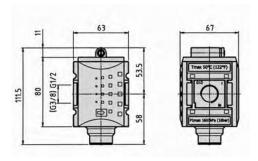
DAY

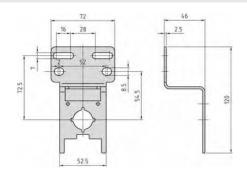
DAY-14, DAY-37



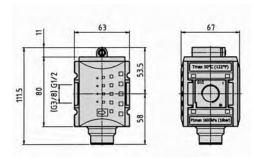


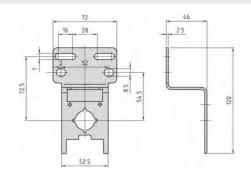
DAY-38, DAY-12



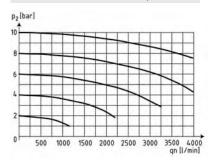


DAY-34, DAY-10

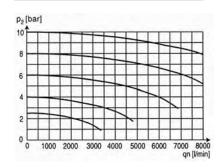




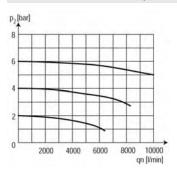
Flow characteristic DAY-14, DAY-37



Flow characteristic DAY-38, DAY-12



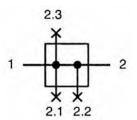
Flow characteristic DAY-34, DAY-10



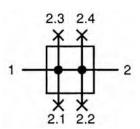


Technical data for series

TY

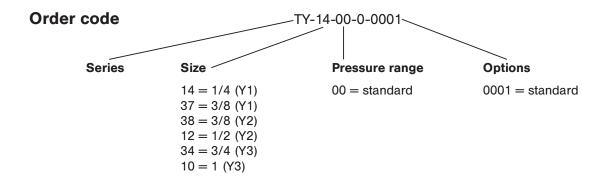


Series Y1



Series Y2





Order number	TY-14-00-0-0001	TY-37-00-0-0001	TY-38-00-0-0001	TY-12-00-0-0001	TY-34-00-0-0001	TY-10-00-0-0001	
Connection	G 1/4	G 3/8	G 3/8	G 1/2	G 3/4	G 1	
Outlets	4 x G 1/4	1 x G 3/8 3 x G 1/4	3 x G 3/8 1 x G 1/4 1 x G 1/2	2 x G 1/2 2 x G 3/8 1 x G 1/4	4 x G 3/4	2 x G 1 2 x G 3/4	
Series	Y1	Y1 Y2 Y3					
Mounting	with bracket of	with bracket or in-line, horizontal or vertical					
Pressure range	0 16 bar (0 232 psi)					
Flow rate	2700 NI/min (2.744 Cv)						
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)						
Materials	Housing: Grivory (PA66); Connection: die cast Zinc						
Weight*	0.250 kg (0.5	51 lb.)			0.648 kg (1.43	3 lbs.)	

^{* =} outlet ports see page 11.059.

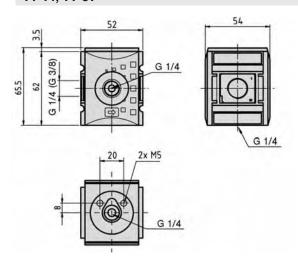
11.098 Subject to change

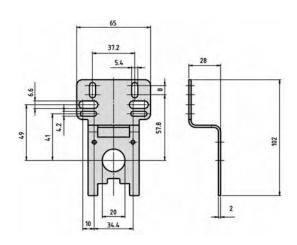


Dimensions for series

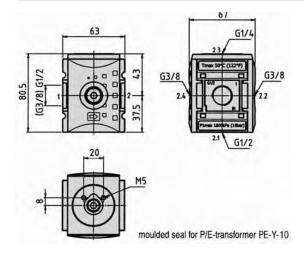
TY

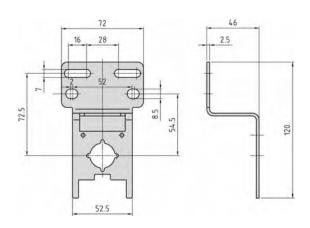
TY-14, TY-37



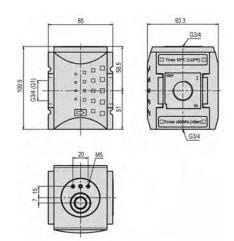


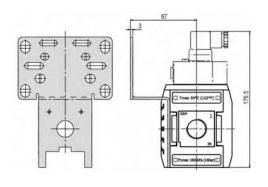
TY-38, TY-12





TY-34, TY-10



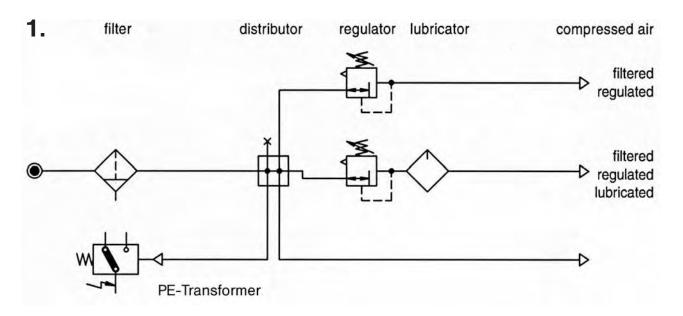


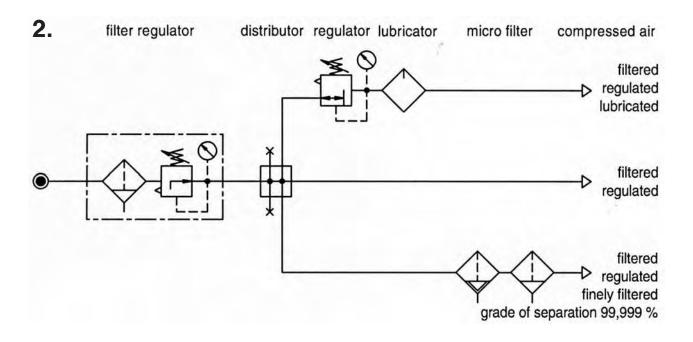


Dimensions for series

TY

Areas of application for TY-14, TY-37, TY-38, TY-12, TY-34, TY-10

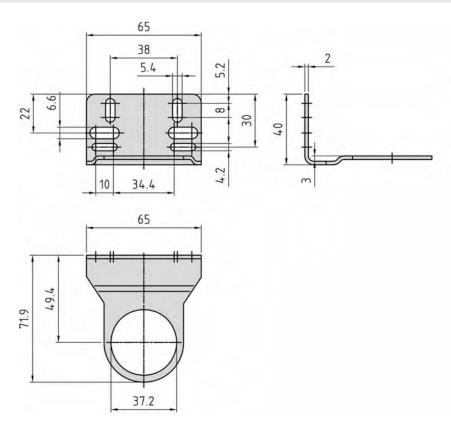




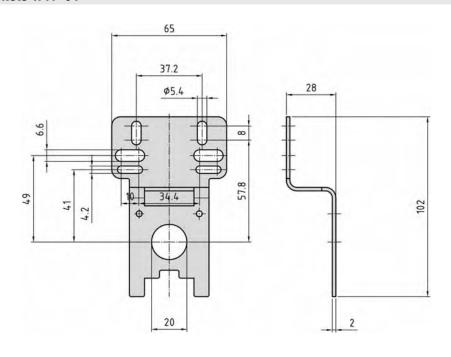




Mounting brackets WYL-01



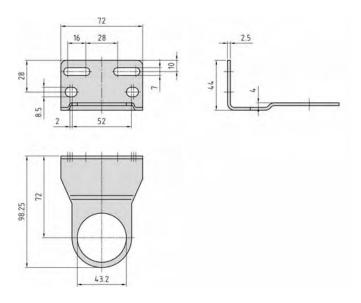
Mounting brackets WYP-01



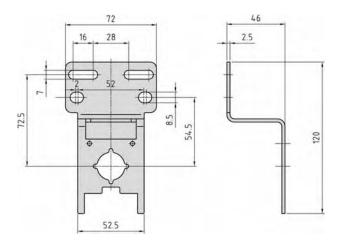




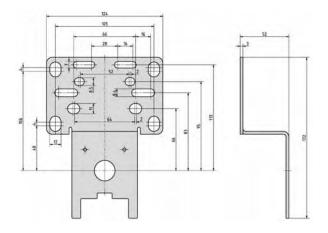
Mounting brackets WYL-02



Mounting brackets WYP-02



Mounting brackets WYP-03

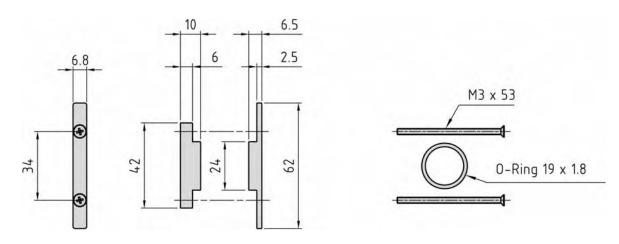


11.102 Subject to change

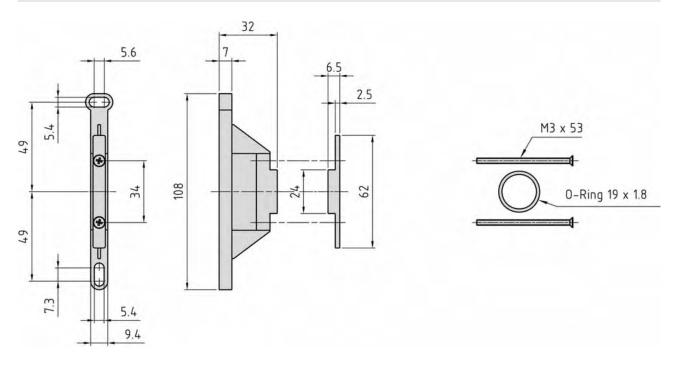




Coupling kits KPY-01-K



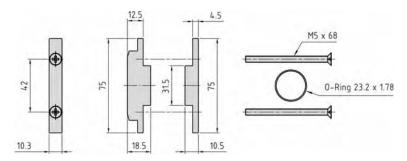
Coupling kits KPY-01-W



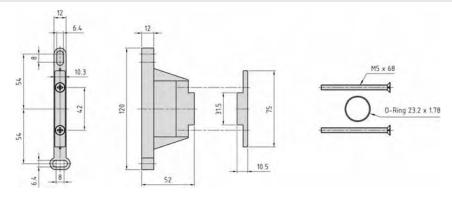




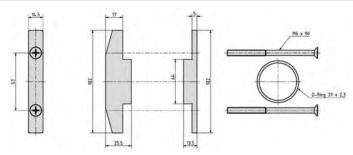
Coupling kits KPY-02-K



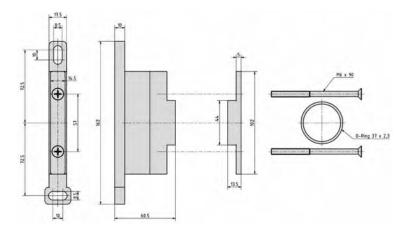
Coupling kits for wall mounting KPY-02-W



Coupling kits KPY-03-K



Coupling kits for wall mounting KPY-03-W



11.104 Subject to change

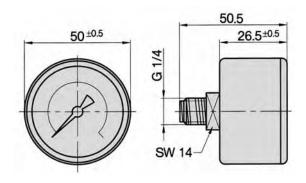


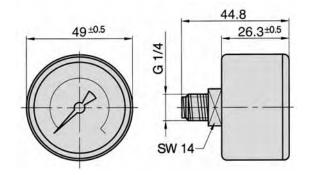


Pressure gauge MXA-50



Pressure gauge MXA-63

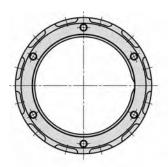


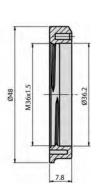


Sealing for assembly of gauge is included.

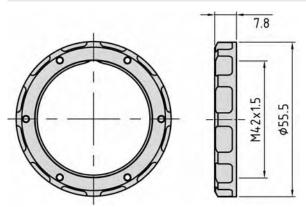
Order number	MXA-50-10-14	MXA-63-10-14	MXA-50-16-14	MXA-63-16-14		
Ranges	0 10 bar (0 145	psi)	0 16 bar (0 232 psi)			
Application	Constant load 3/4 x scale value Alternating load 2/3 x scale value					
Materials	Body : Plastic, highly shock resistant, black (ABS) Window : Plexiglass, convex, clipped-on Dial : Plastic, white with stop pin, scale black/red Pointer : Plastic, black Movement : CuZn alloy Measuring element: Cu alloy					
Temperature range	- 40 °C + 60 °C (-	- 40 °C + 60 °C (- 40 °F + 140 °F)				
Accuracy class	2.5 according to EN 837-1					
Temperature drift	0.4 % / 10 K if deviation	0.4 % / 10 K if deviation from normal temperature 20 °C (68 °F).				
Weight	0.071 kg (0.156 lb.)	0.08 kg (0.18 lb.)	0.071 kg (0.156 lb.)	0.08 kg (0.18 lb.)		

Mounting nut RMY-01 material: plastic





Mounting nut RMY-02







Serie Y1



metal bowl with condensate drain **BE-Y1-HA** semi-automatic

BE-Y1-AM-NC automatic normally closed **BE-Y1-AM-NO** automatic normally open



metal bowl without drain, for activated carbon filter **BE-Y1-KF**



metal bowl without drain, for lubricator **BE-Y1-L**

Serie Y2



metal bowl with condensate drain

BE-Y2-HA semi-automatic

BE-Y2-AM-NC automatic normally closed

BE-Y2-AM-NO automatic normally open



metal bowl without drain, for activated carbon filter **BE-Y2-KF**



metal bowl without drain, for lubricator **BE-Y2-L**

Serie Y3



metal bowl with condensate drain

BE-Y3-HA semi-automatic

BE-Y3-AM-NC automatic normally closed

BE-Y3-AM-NO automatic normally open



metal bowl without drain, for activated carbon filter

BE-Y3-KF



metal bowl without drain, for lubricator **BE-Y3-L**

Serie Y1, Y2, Y3







transformer PE-Y-10

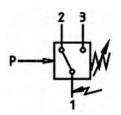


lock VH-Y-32 with key VH-Y-31 without key

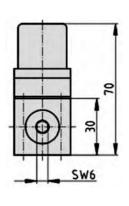


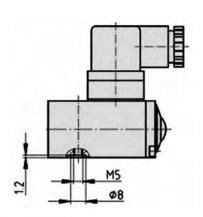
Technical data for series

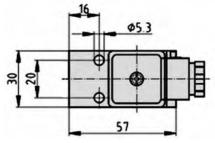
PE-Y-10











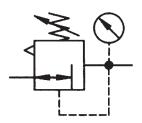
direct-current switch-power				
	resistive	inductive		
[V]	load [A]	load [A]		
30	5	3		
115	0,40	0,05		
250	0,25	0,02		
alter	nating-current swit	tch-power		
	resistive	inductive		
[V]	load [A]	load [A]		
115	5	3		
250	5	3		

Order number	PE-Y-10		
media	air, non corrosive gases and fluids		
description	diaphragm		
mounting	arbitrary		
working range of pressure	0,5 - 10 bar (7.25 to 145 PSI) (overpressure 80 bar (1.160 PSI))		
switch difference	4 % – 10 %		
temperature range	- 10 °C + 80 °C (+ 14 °F + 176 °F)		
electr. connection	plug connection DIN 43650, form A		
circuit element	micro-switch, one wire change over		
type of isolation	IP 65		
switch function	at increasing pressure terminal 1 – 3 NO		
	terminal 1 – 2 NC		
fixing	flange connection		
weight	0,172 kg (0.379 lb)		

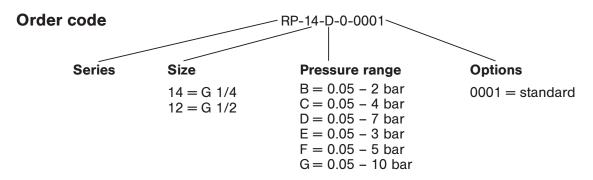


Technical data for series

RP







Series 14 is only available for pressure ranges B, C and D. Series 12 is only available for pressure ranges D, E, F and G.

Design and function

Regulator with diaphragm and relieving feature. This regulator should be used with finely filtered air only. Especially for the use in control and processing applications.

Order number Please complete according to order code.	RP-14	RP-12			
Connection	G 1/4	G 1/2			
Gauge connection size	G 1/8	G 1/4			
Medium	compressed air sintered 0.01 µm, oilfree				
Mounting	arbitrary				
Input range	2 16 bar (29 232 psi)				
Own air consumption	< 2.2 NI/min at 5 bar input pressure	< 1.5 NI/min at 5 bar input pressure			
	< 3 NI/min at 7 bar input pressure	< 2 NI/min at 7 bar input pressure			
	< 4.1 NI/min at 10 bar input pressure	< 4 NI/min at 10 bar input pressure			
		< 6 NI/min at 12 bar input pressure			
Temperature range	0 °C + 60 °C (+ 32 °F + 140 °F)				
Weight	0.600 kg (1.323 lbs.)	1.500 kg (3.307 lbs.)			

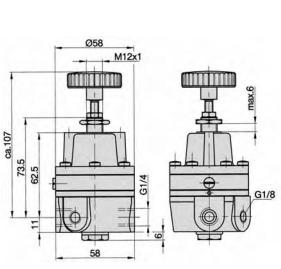
11.110 Subject to change

airec

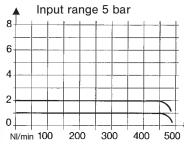
Dimensions for series

RP

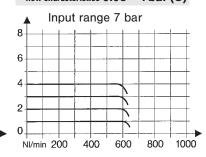
RP-14



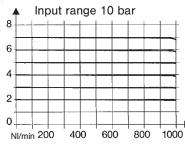
flow characteristics 0.05 - 2 bar (B)



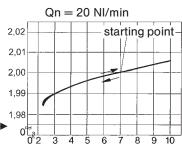
flow characteristics 0.05 - 4 bar (C)



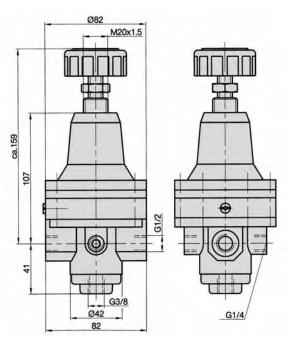
flow characteristics 0.05 - 7 bar (D)



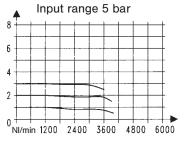
pressure characteristic



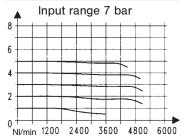
RP-12



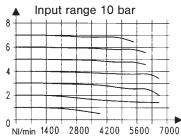
flow characteristics 0.05 - 3 bar (E)



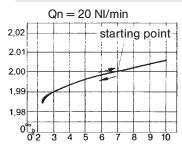
flow characteristics 0.05 – 5 bar (F)



flow characteristics 0.05 - 7 bar (D)



pressure characteristic



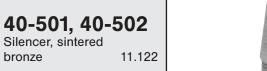
Functional fittings





40-90

Silencer, plastic 11.121





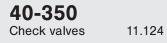


40-358

bronze

Flow control silencer

11.123







40-351

Hand sliding valves

11.125





40-352, 40-353 Quick couplings

11.126





40-354

Miniature regulator,

screw-in type 11.128



40-355

Check valves 11.130



40-356, 40-357

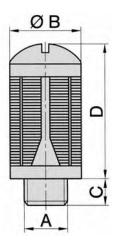
Flow control valves

11.132



40-90





Design and function

Silencer with granular filling.

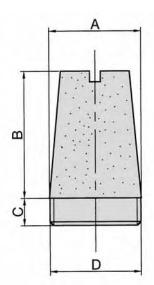
Order number	40-90-018	40-90-014	40-90-038	40-90-012-01	40-90-034-01	40-90-100-01		
Pressure range	0 6 bar	0 6 bar (0 87 psi)						
Noise level 4 bar	84 dB	84 dB 81 dB 83 dB 83 dB 85 dB 85 dB						
Noise level 6 bar	87 dB	84 dB	90 dB	90 dB	91 dB	90 dB		
Flow rate at 4 bar	1000 NI/min (1.016 Cv)	1600 NI/min (1.626 Cv)	2100 NI/min (2.134 Cv)	2700 NI/min (2.743 Cv)	7500 NI/min (7.622 Cv)	8300 NI/min (8.435 Cv)		
Material	Acetal-resin							
Dimension A	G 1/8	G 1/4	G 3/8	G 1/2	G 3/4	G 1		
Dimension B	15	19.5	24.5	24.5	48	48		
Dimension C	6	8	11	11	18	18		
Dimension D	26.5	35	47	47	97	97		



40-501



Material: Sintered bronze

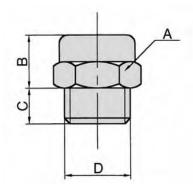


Order number	40-501-M5	40-501-18	40-501-14	40-501-38	40-501-12	40-501-34	40-501-100
Dimension A	9	11	14	18	24	30	38
Dimension B	16	18	20	28	33	53	54
Dimension C	5	6	8	8	10	12	15
Dimension D	M 5 (10/32 UNF)	G 1/8	G 1/4	G 3/8	G 1/2	G 3/4	G 1

Series

40-502



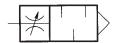


Material: Brass, sintered bronze

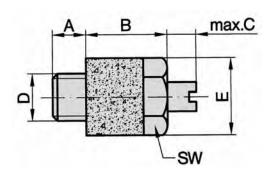
Order number	40-502-M 5	40-502-18	40-502-14
Dimension A	8	13	16
Dimension B	5	7	8.5
Dimension C	4	6	8
Dimension D	M5 (10/32 UNF)	G 1/8	G 1/4



40-358







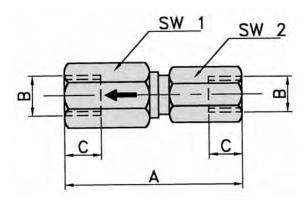
Order number	40-358-18	40-358-14		
Dimension A	6	8		
Dimension B	17	22		
Dimension C	6	8		
Dimension D	G 1/8	G 1/4		
Dimension E	Ø 16	ø 19		
SW (wrench size)	14	17		
Nominal size	4 mm	6 mm		
Flow rate	320 NI/min (0.325 Cv)	750 NI/min (0.762 Cv)		
Pressure range	0 16 bar (0 232 psi)			
Temperature range	– 10° C + 100° C (+ 14 °F + 212 °F)			
Materials	Brass, sintered bronze, NBR			
Weight	0.017 kg (0.037 lb.)	0.034 kg (0.075 lb.)		



40-350







Design and function

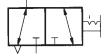
Seat valve with spring return.

Order number	40-350-18-18	40-350-14-14	40-350-38-38	40-350-12-12	
Dimension A	39 mm	45,5 mm	59,5 mm	66 mm	
Dimension B	G 1/8	G 1/4	G 3/8	G 1/2	
Dimension C	8 mm	10 mm	10 mm	14 mm	
SW 1 (wrench size)	14 mm	17 mm	22 mm	27 mm	
SW 2 (wrench size)	14 mm	17 mm	22 mm	27 mm	
Flow rate	230 NI/min (0.234 Cv)	750 NI/min (0.762 Cv)	1650 NI/min (1.676 Cv)	2200 NI/min (2.235 Cv)	
Pressure range	0.5 15 bar (7.25	. 217 psi)			
Temperature range	– 10° C + 60° C (+ 14 °F + 140 °F)				
Materials	Body: brass, Seals: NBR				
Weight	0.036 kg (0.079 lb.)	0.051 kg (0.112 lb.)	0.144 kg (0.317 lb.)	0.175 kg (0.386 lbs.)	

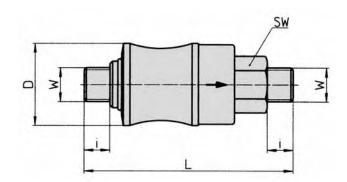
airec

Series

40-351







Design and function

Hand operated 3/2-way sliding valve for inline mounting.

Order number	40-351-18	40-351-14	40-351-38	40-351-12	
Dimension D	26 mm	32 mm	37 mm	44 mm	
Dimension L	72 mm	81 mm	85 mm	98 mm	
Dimension i	8 mm	10 mm	10 mm	12 mm	
Dimension W	G 1/8	G 1/4	G 3/8	G 1/2	
SW (wrench size)	14 mm	19 mm	22 mm	27 mm	
Nominal size	6 mm	8 mm	10 mm	13 mm	
Flow rate 1 → 2	750 NI/min (0.762 Cv)	1500 NI/min (1.524 Cv)	2250 NI/min (2.286 Cv)	3000 NI/min (3.049 Cv)	
Flow rate 2 → 3	1000 NI/min (1.016 Cv)	2000 NI/min (2.032 Cv)	4160 NI/min (4.228 Cv)	5500 NI/min (5.589 Cv)	
Mounting	horizontal				
Pressure range	1 12 bar (14 17	4 psi)			
Temperature range	0° C 90° C (+ 32 °F + 194 °F)				
Materials	Body: brass, Sleeve: AI (anodized), Seals: NBR				
Weight	0.100 kg (0.220 lb.)	0.160 kg (0.353 lb.)	0.220 kg (0.485 lb.)	0.370 kg (0.816 lb.)	



Technical data for series

40-352, 40-353



Quick coupling male thread



Quick coupling, tube connection



Plug male thread



Plug, tube connection

Order code

Type

352 = Quick coupling

353 = Plug

Size

00 = Orifice 2.7 mm

40-352-02-14

01 = Orifice 5.0 mm

02 = Orifice 7.2 mm

Connection

M5 = M5 (10/32 UNF)

18 = G 1/8

14 = G 1/4

38 = G 3/8

050 = for tube O.D. 5 mm, I.D. 3 mm

060 =for tube O.D. 6 mm, I.D. 4 mm

080 = for tube O.D. 8 mm, I.D. 6 mm

Design and function

Single shut-off quick connect couplings.

Order number Please complete according to order code.	40-352-00	40-353-00	40-352-01	40-353-01	40-352-02	40-353-02
Nominal size	2.7 mm 5 mm			7.2 mm		
Flow rate	165 NI/min (0.168 Cv)		560 NI/min (0.569 Cv)		1000 NI/min (1.016 Cv)	
Pressure range	0 12 bar (0	0 12 bar (0 174 psi)				
Temperature range	- 20 °C + 100 °C (- 4 °F + 212 °F)					
Materials	Body: brass, I	Body: brass, Inner parts: stainless steel, Seals: PA				

11.126 Subject to change

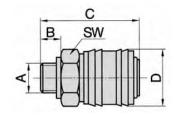


Dimensions for series

40-352, 40-353

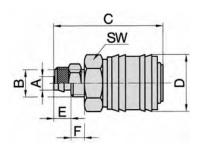
Quick coupling, male thread

Order number	40-352-00-M5 40-352-01-18 40		40-352-02-14	40-352-02-38
Dimension A	M5	G 1/8	G 1/4	G 3/8
Dimension B	5	7	9	9
Dimension C	26	36	39	41
Dimension D	10	16	25	25
SW(wrench size)	9	14	22	22



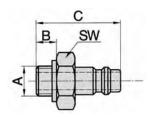
Quick coupling, plastic tube connection

Order number	40-352-00-050	40-352-01-060	40-352-01-080	40-352-02-080
Dimension A	tube O.D. 5, I.D. 3	tube O.D. 6, I.D. 4	tube O.D. 8, I.D. 6	tube O.D. 8, I.D. 6
Dimension B	M7 x 0.5	M 10 x 1	M12 x 1	M 12 x 1
Dimension C	34	42	42	45
Dimension D	10	16	16	25
Dimension E	7	7	7	7
Dimension F	5	6	6	6
SW(wrench size)	9	14	14	21

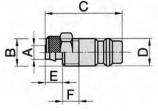


Plug, male thread

Order number	40-353-00-M5	40-353-01-18	40-353-02-14	40-353-02-38	
Dimension A	M 5 (10/32 UNF)	G 1/8	G 1/4	G 3/8	
Dimension B	5	7	9	9	
Dimension C	18	25	33	33	
SW(wrench size)	7	14	17	19	



Plug, plastic tube connection

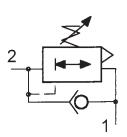


Order number	40-353-00-050	40-353-01-060	40-353-01-080	40-353-02-060	40-353-02-080
Dimension A	tube O.D. 5, I.D. 3	tube O.D. 6, I.D. 4	tube O.D. 8, I.D. 6	tube O.D. 6, I.D. 4	tube O.D. 8, I.D. 6
Dimension B	M7 x 0.5	M 10 x 1	M 12 x 1	M 10 x 1	M 12 x 1
Dimension C	25	32	32	34	34
Dimension D	7	10	12	12	12
Dimension E	7	6	6	7	7
Dimension F	5	6	6	6	8



Technical data for

40-354





Design and function

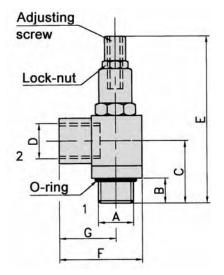
Pressure regulator with relieving feature. The outlet pressure of the regulator remains constant regardless of incoming pressure changes. The pressure is adjustable in flow direction 1 to 2. Direction 2 to 1 remains open by an integrated check valve.

Order number	40-354-18	40-354-18-1	40-354-14	40-354-14-1	40-354-12	40-354-12-1			
Connection	G 1/8	1/8 NPTF	G 1/4	G 1/4	G 1/2	G 1/2			
Flow rate	320 NI/min (0	.325 Cv)	600 NI/min (0	0.610 Cv)	830 NI/min (0	830 NI/min (0.843 Cv)			
Input range	1 16 bar (14 232 psi)							
Output range	1 8 bar (1 8 bar (14 116 psi)							
Temperature range	- 10 °C + 7	- 10 °C + 70 °C (+ 14 °F + 158 °F)							
max. tightening torques Nm	10 (7.4 lbs. ft.)	7 (5.1 lbs. ft.)	12 (8.8 lbs. ft.)	15 (11 lbs. ft.)	30 (22.1 lbs. ft.)	20 (14.7 lbs. ft.)			
Materials	Body: Al (blac	Body: Al (black anodized), brass (zinc-plated), PA; Seals: NBR							
Weight	0.06 kg (0.132	? lb.)	0.08 kg (0.176	6 lb.)	0.18 kg (0.397	' lb.)			

11.128 Subject to change

Dimensions for

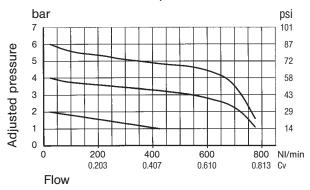
40-354



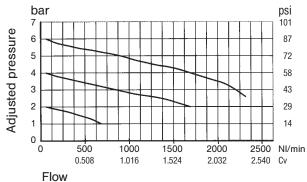
Order number	40-354-18	40-354-18-1	40-354-14	40-354-14-1	40-354-12	40-354-12-1	
Dimension A	G 1/8	1/8 NPTF	G 1/4	G 1/4	G 1/2	G 1/2	
Dimension B	6.3 mm		9.5 mm		11.5 mm		
Dimension C	19.8 mm		25.8 mm	5.8 mm		34 mm	
Dimension D	G 1/8	1/8 NPTF	G 1/4	G 1/4	G 1/2	G 1/2	
Dimension E max.	73 mm		81 mm		89 mm		
Dimension F	26.7 mm		32.9 mm		46.3 mm		
Dimension G	18.5 mm		22.5 mm		31 mm		

Flow characteristics

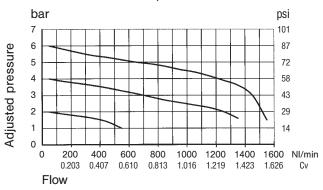
Order-number 40-354-18, 40-354-18-1



Order-number 40-354-12, 40-354-12-1



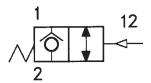
Order-number 40-354-14, 40-354-14-1





Technical data for

40-355





Design and function

Pilot operated check valve with spring return.

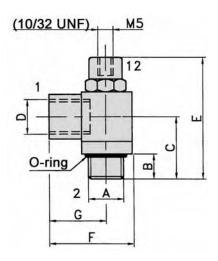
Order number	40-355-18	40-355-18-1	40-355-14	40-355-14-1	40-355-38	40-355-38-1	40-355-12	40-355-12-1	
Connection	G 1/8	1/8 NPTF	G 1/4	G 1/4	G 3/8	G 3/8	G 1/2	G 1/2	
Flow rate 1 → 2	128 NI/mir	n (0.131 Cv)	617 NI/mir	n (0.627 Cv)	1168 NI/min (1.187 Cv) 1888 NI/min (1.918			in (1.918 Cv)	
Flow rate 2 → 1	289 NI/mir	n (0.294 Cv)	676 NI/mir	n (0.687 Cv)	1156 NI/m	in (1.175 Cv)	1910 NI/m	in (1.941 Cv)	
Pressure range	1 10 ba	1 10 bar (14 145 psi)							
Temperature range	– 10 °C	. + 70 °C (+	14 °F + 1	58 °F)					
max. tightening torques Nm	10 (7.4 lbs. ft.)	7 (5.1 lbs. ft.)	12 (8.8 lbs. ft.)	15 (11 lbs. ft.)	20 (14.7 lbs. ft.)	20 (14.7 lbs. ft.)	30 (22.1 lbs. ft.)	20 (14.7 lbs. ft.)	
Materials	Body: Al (a	Body: Al (anodized), brass (zinc-plated), PA; Seals: NBR							
Weight	0.03 kg (0).066 lb.)	0.06 kg (0	0.132 lb.)	0.10 kg (0).220 lb.)	0.16 kg (0).353 lb.)	

11.130 Subject to change



Dimensions for

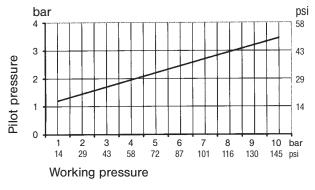
40-355



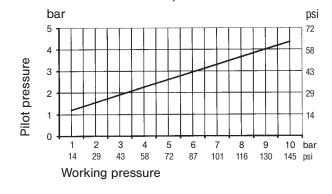
Order number	40-355-18	40-355-18-1	40-355-14	40-355-14-1	40-355-38	40-355-38-1	40-355-12	40-355-12-1
Dimension A	G 1/8	1/8 NPTF	G 1/4	G 1/4	G 3/8	G 3/8	G 1/2	G 1/2
Dimension B	6.3 mm		9.5 mm 9.5 mm		m 11.5 mm			
Dimension C	19.8 mm		25.8 mm		29 mm	36 mm		
Dimension D	G 1/8	1/8 NPTF	G 1/4	G 1/4	G 3/8	G 3/8	G 1/2	G 1/2
Dimension E max.	41 mm		48 mm		55 mm		65.5 mm	
Dimension F	26.7 mm		32.9 mm		41 mm 46.3 mm			
Dimension G	18.5 mm	18.5 mm			28.5 mm		31 mm	

Pressure characteristics

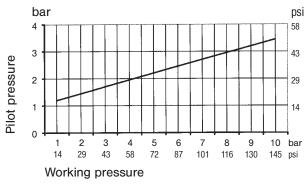
Order-number 40-355-18, 40-355-18-1



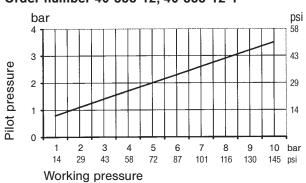
Order-number 40-355-38, 40-355-38-1



Order-number 40-355-14, 40-355-14-1



Order-number 40-355-12, 40-355-12-1





Technical data for series

40-356, 40-357









40-357

Order code

40-356-28-060 \

Function

356 = metered-out 357 = metered-in

Connections

M5 = M5 (10/32 UNF) compression fitting 25 = M5 (10/32 UNF) push-in type

 $18 = G \frac{1}{8} compression fitting$

 $28 = G \frac{1}{8} \text{ push-in type}$

14 = G 1/4 compression fitting

 $24 = G \frac{1}{4} \text{ push-in type}$ $38 = G \frac{3}{8} \text{ push-in type}$

Tube sizes

040 = O.D. 4 mm, I.D. 2 mm 050 = O.D. 5 mm, I.D. 3 mm060 = O.D. 6 mm, I.D. 4 mm

080 = 0.D. 6 mm, 1.D. 4 mm080 = 0.D. 8 mm, 1.D. 6 mm

100 = 0.D. 10 mm, I.D. 8 mm

Design and function

Throttle valve to control the speed of pneumatic devices. The flow rate can be adjusted while air is flowing. The swivel can be rotated by 360°.

Order number Please complete according to order code.	40-356-M5 40-356-25	40-357-M5 40-357-25	40-356-18 40-356-28	40-357-18 40-357-28	40-356-14 40-356-24	40-357-14 40-357-24	40-356-38
Function	metered- out	metered- in	metered- out	metered- in	metered- out	metered- in	metered- out
Connection	M 5 (10/32 l	JNF)	G 1/8		G 1/4		G 3/8
Flow rate 2 → 1*	30 NI/min (0.030 Cv)	40 NI/min (0.041 Cv)	150 NI/min (0.152 Cv)	200 NI/min (0.203 Cv)	300 NI/min (0.305 Cv)	400 NI/min (0.407 Cv)	600 NI/min (0.610 Cv)
Flow rate 1 → 2	40 NI/min (0.041 Cv)	30 NI/min (0.030 Cv)	200 NI/min (0.203 Cv)	150 NI/min (0.152 Cv)	400 NI/min (0.407 Cv)	300 NI/min (0.305 Cv)	900 NI/min (0.915 Cv)
Nominal size	1.5 mm		3 mm		4.5 mm		6.5 mm
Materials	brass (nick	el-plated), Se	eals: NBR, Sp	indle: stainle	ess steel		
Pressure range	0.5 10 ba	ar (7 145 p	osi)				
Temperature range	– 10 ℃	+ 70 °C (+ 1₄	4 °F + 158 °	F)			

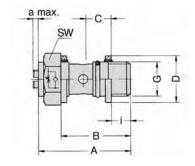
^{*} flow figures based on completely closed throttle.

11.132 Subject to change

Dimensions for series

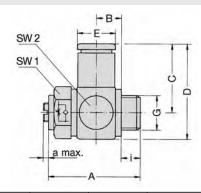
40-356, 40-357

Throttle hollow screw



Order number	SW	i	Α	В	С	a max.	D
40-356-18	14	6	32	25	9.5	2	14.7
40-357-18	14	6	32	25	9.5	2	14.7
40-356-14	17	8	35.5	27	9.5	2	17.7
40-357-14	17	8	35.5	27	9.5	2	17.7

Throttle hollow screw, push-in type



Order number	SW1	SW 2	i	Α	В	С	D	Е	a max.
40-356-25-040	8	8.5	3.5	20	5.2	16.5	20.5	8.6	1
40-357-25-040	8	8.5	3.5	20	5.2	16.5	20.5	8.6	1
40-356-25-050	8	10	4	22	6	18.5	23	9.9	1
40-357-25-050	8	10	4	22	6	18.5	23	9.9	1
40-356-25-060	8	11	3	22	6.5	20	24.5	11.9	1
40-357-25-060	8	11	3	22	6.5	20	24.5	11.9	1
40-356-28-040	14	16	6	32	9.5	18.5	26.5	8.6	2
40-357-28-040	14	16	6	32	9.5	18.5	26.5	8.6	2
40-356-28-060	14	16	6	32	9.5	22	30	11.9	2
40-357-28-060	14	16	6	32	9.5	22	30	11.9	2
40-356-28-080	14	16	6	32	9.5	24.5	32.5	14.4	2
40-357-28-080	14	16	6	32	9.5	24.5	32.5	14.4	2
40-356-24-040	17	20	8	35.5	9.5	20.5	30.5	8.6	2
40-357-24-040	17	20	8	35.5	9.5	20.5	30.5	8.6	2
40-356-24-060	17	20	8	35.5	9.5	24	34	11.9	2
40-357-24-060	17	20	8	35.5	9.5	24	34	11.9	2
40-356-24-080	17	20	8	35.5	9.5	26.5	36.5	14.4	2
40-357-24-080	17	20	8	35.5	9.5	26.5	36.5	14.4	2
40-356-38-080	20	22	8.5	45	14.3	28	39	14.4	2
40-356-38-100	20	22	8.5	45	14.3	30.5	41.5	14.4	2