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agility in automation

AIR PREPARATION UNITS



Filter water separator

- Cyclone system and filter element
- Degree of filtration: 95%
- Vertical installation
- Bowl protection as a standard
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

Body: technopolymer

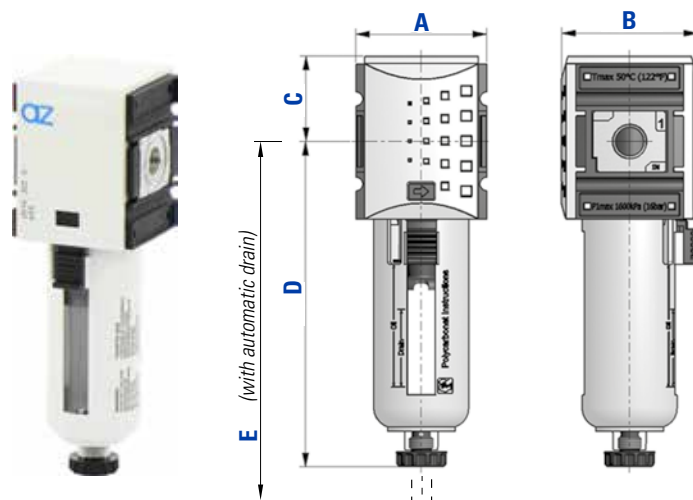
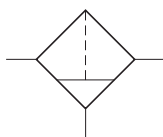
Seals: NBR

Internal parts: brass and stainless steel

Internal bowl: polycarbonate

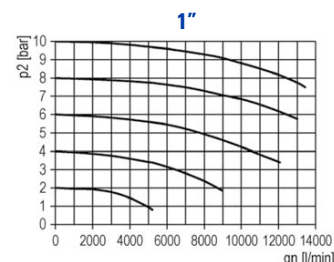
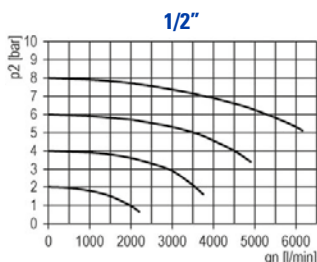
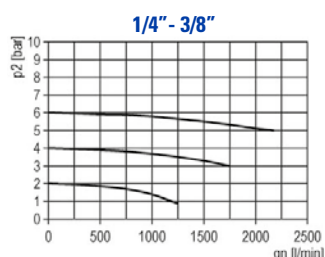
Bowl protection: polyamide

Mounting bracket is sold separately.



Ports		1/4"	3/8"	1/2"	1"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.25 kg	0.25 kg	0.4 kg	0.6 kg
Working pressure range		p_{min} p_{max} 1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232)	1.5 bar (21.7 PSI) 16 bar (232 PSI)
Nominal Flow $p = 6.3 \text{ bar (91.3 PSI); } \Delta p = 1 \text{ bar (14 PSI)}$		Q_{max} 70.6 (2000) SCFM (L/min ANR)	70.6 (2000) SCFM (L/min ANR)	123.5 (3500) SCFM (L/min ANR)	264,8 (7500) SCFM (L/min ANR)
Filter element		5 μm	5 μm	5 μm	5 μm
ORDER CODE	semi-automatic drain	FIL 2K-05-S US16.302.0	FIL 3K-05-S US16.342.0	FIL 4K-05-S US16.322.0	FIL 6K-05-S US16.354.0
	automatic drain	FIL 2K-05-A US16.100.3	FIL 3K-05-A US16.101.3	FIL 4K-05-A US16.102.3	FIL 6K-05-A US16.356.0

Flow characteristics



DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Semi-automatic drain					
ORDER CODE	A	B	C	D	E
FIL 2K-05-S US16.302.0	52	54	34	130	145
FIL 3K-05-S US16.342.0	52	54	34	130	145
FIL 4K-05-S US16.322.0	63	67	43	147	162
FIL 6K-05-S US16.354.0	85	93	58	189	-

Automatic drain					
ORDER CODE	A	B	C	D	E
FIL 2K-05-A US16.100.3	52	54	34	130	145
FIL 3K-05-A US16.101.3	52	54	34	130	145
FIL 4K-05-A US16.102.3	63	67	43	147	162
FIL 6K-05-A US16.356.0	85	93	58	189	-

Finefilter

- Coalescing filter elements with high performances
- Degree of filtration: 99.999%
- Residual oil: 0.01 mg/m³ (input concentration: 3 mg/m³)
- Particle separation: class 1 according to DIN ISO 8573-1
- Vertical installation
- Bowl protection as a standard
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

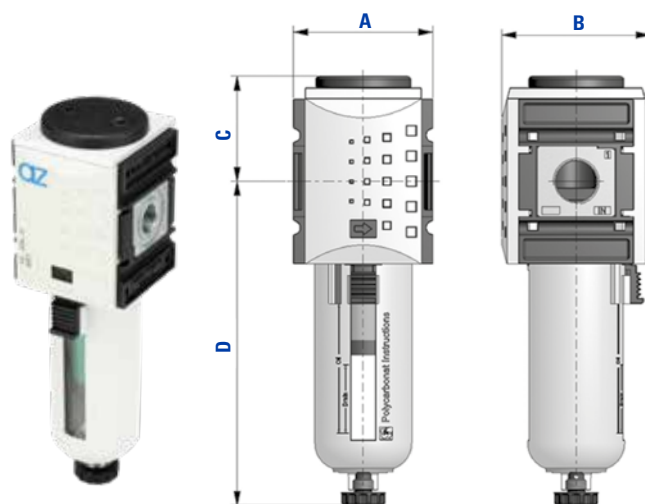
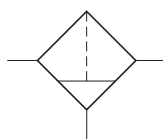
Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

Internal bowl: polycarbonate

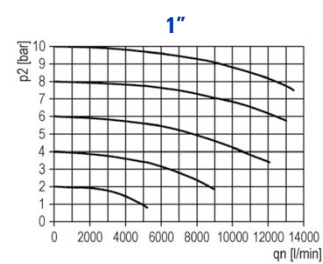
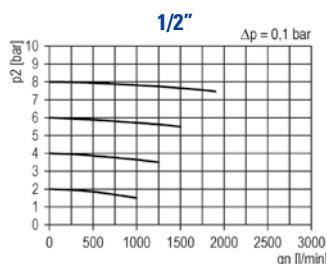
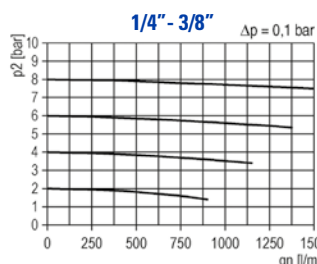
Bowl protection: polyamide



Available with semi-automatic drain as a standard, optional bowl with automatic drain and mounting bracket are sold separately.

Ports		1/4"	3/8"	1/2"	1"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.29 kg	0.29 kg	0.44 kg	0.67 kg
Working pressure range	p_{min}	1.5 bar (21.7 PSI)	1.5 bar (21.7 PSI)	1.5 bar (21.7 PSI)	1.5 bar (21.7 PSI)
	p_{max}	16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232)	16 bar (232 PSI)
Nominal Flow $p = 6 \text{ bar (87 PSI) at } 25 \text{ m/s}$	Q_{max}	12.3 (350)	12.3 (350)	15.8 (450)	52.9 (1500)
		SCFM (L/min ANR)	SCFM (L/min ANR)	SCFM (L/min ANR)	SCFM (L/min ANR)
Pressure drop with new filter element		0.1 bar (14.5 PSI)	0.1 bar (14.5 PSI)	0.1 bar (14.5 PSI)	0.1 bar (14.5 PSI)
Pressure drop with saturated filter element		0.3 bar (43.5 PSI)	0.3 bar (43.5 PSI)	0.3 bar (43.5 PSI)	0.3 bar (43.5 PSI)
ORDER CODE		MFIL 2K-S US16.306.0	MFIL 3K-S US16.346.0	MFIL 4K-S US16.326.0	MFIL 6K-S US16.367.0

Flow characteristics



ORDER CODE	A	B	C	D
MFIL 2K-S US16.306.0	52	54	39	130
MFIL 3K-S US16.346.0	52	54	39	130
MFIL 4K-S US16.326.0	63	67	48	147
MFIL 6K-S US16.367.0	85	93	58	189

DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Installation procedure

To increase the life span of the filter elements, we recommend the installation in the following order: filter water separator, finefilter.

Absorber filter (activated carbon filter)

- Absorber filter (activated carbon filter elements) for removal of odors and hydrocarbon vapor
- Residual oil: 0.003 p.p.m. in combination with finefilter
- Vertical installation
- Bowl protection as a standard
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

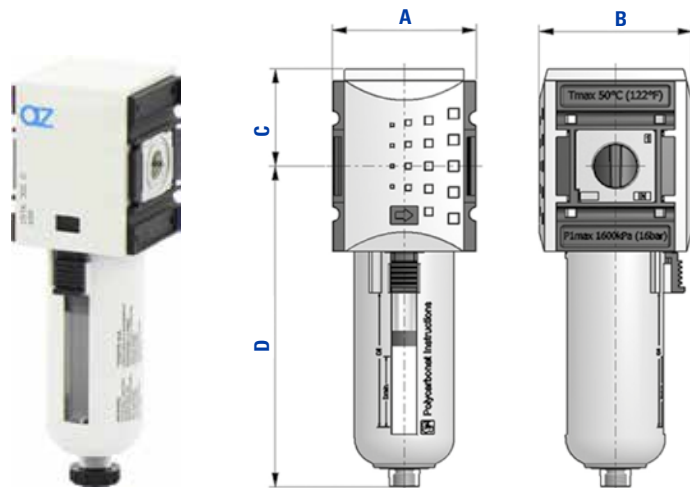
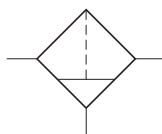
Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

Internal bowl: polycarbonate

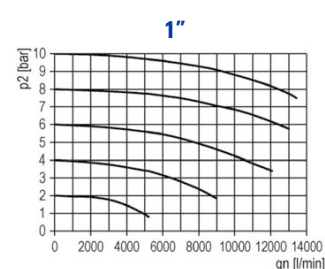
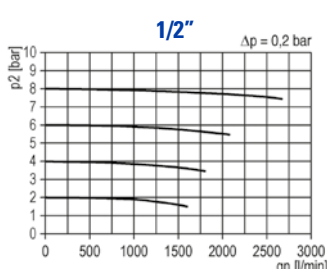
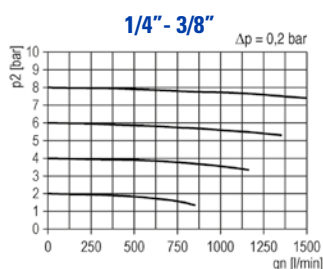
Bowl protection: polyamide



Available with semi-automatic drain as a standard, optional bowl with automatic drain and mounting bracket are sold separately.

Ports		1/4"	3/8"	1/2"	1"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.26 kg	0.26 kg	0.42 kg	0.79 kg
Working pressure range	p_{min} p_{max}	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232)	1.5 bar (21.7 PSI) 16 bar (232 PSI)
Nominal Flow $p = 6 \text{ bar (87 PSI) at } 25 \text{ m/s}$	Q_{max}	17.6 (500) SCFM (L/min ANR)	17.6 (500) SCFM (L/min ANR)	56.4 (1600) SCFM (L/min ANR)	264.8 (7500) SCFM (L/min ANR)
Pressure drop with new filter element		0.1 bar (14.5 PSI)	0.1 bar (14.5 PSI)	0.1 bar (14.5 PSI)	0.1 bar (14.5 PSI)
Pressure drop with saturated filter element		0.3 bar (43.5 PSI)	0.3 bar (43.5 PSI)	0.3 bar (43.5 PSI)	0.3 bar (43.5 PSI)
ORDER CODE		CFIL 2K-S US16.307.0	CFIL 3K-S US16.347.0	CFIL 4K-S US16.327.0	CFIL 6K-S US16.368.0

Flow characteristics



ORDER CODE	A	B	C	D
CFIL 2K-S US16.307.0	52	54	34	123
CFIL 3K-S US16.347.0	52	54	34	123
CFIL 4K-S US16.327.0	63	67	43	141
CFIL 6K-S US16.368.0	85	93	58	189

DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Installation procedure

To increase the life span of the filter elements, we recommend the installation in the following order: filter water separator, finefilter and absorber filter.

Pressure regulator

- Diaphragm-type pressure regulator with relieving
- Self-compensated regulation
- In-line or panel mounting
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

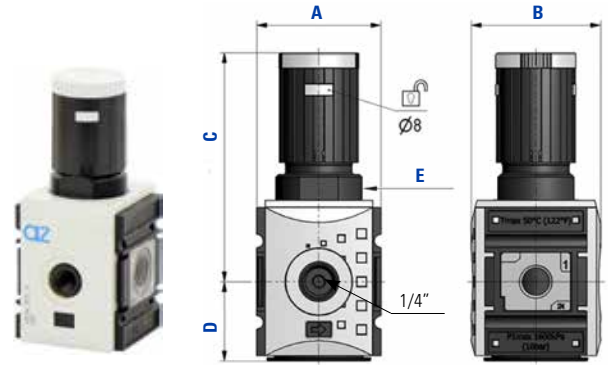
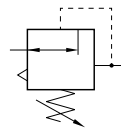
Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

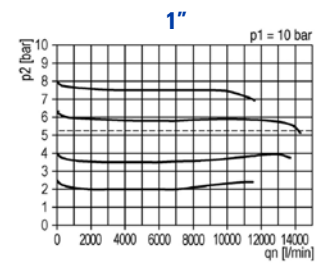
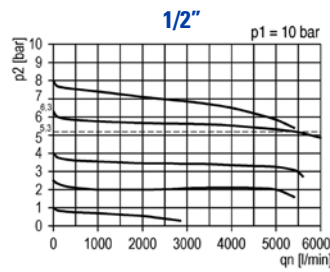
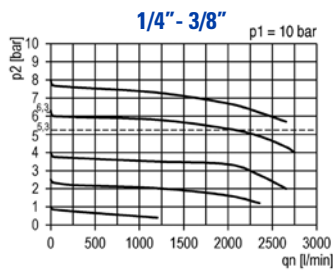
Internal bowl: polycarbonate

Bowl protection: polyamide

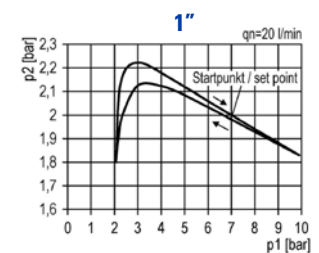
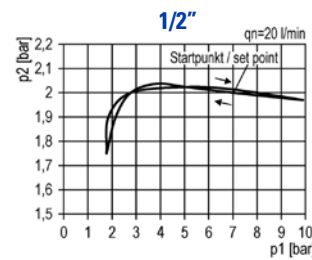
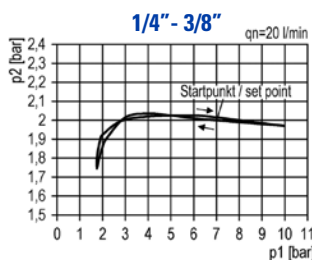


Ports		1/4"	3/8"	1/2"	1"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.3 kg	0.3 kg	0.5 kg	0.75 kg
Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232)	0 bar (0 PSI) 16 bar (232)
Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)
Nominal Flow $p = 6.3 \text{ bar (91.3 PSI)}$; $\Delta p = 1 \text{ bar (14 PSI)}$	Q_{\max}	77,6 (2200) SCFM (L/min ANR)	77,6 (2200) SCFM (L/min ANR)	180 (5100) SCFM (L/min ANR)	494.3 (14000) SCFM (L/min ANR)
ORDER CODE		REG 2K-08 US16.301.0	REG 3K-08 US16.341.0	REG 4K-08 US16.321.0	REG 6K-08 US16.359.0

Flow characteristics



Hysteresis



ORDER CODE	A	B	C	D	E
REG 2K-08 US16.301.0	52	54	96	33	M36X1.5
REG 3K-08 US16.341.0	52	54	96	33	M36X1.5
REG 4K-08 US16.321.0	63	67	110	40	M42X1.5
REG 6K-08 US16.359.0	85	93	137	54	-

DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Mounting bracket and mouting ring are sold separately.

Pressure regulator with embedded pressure gauge

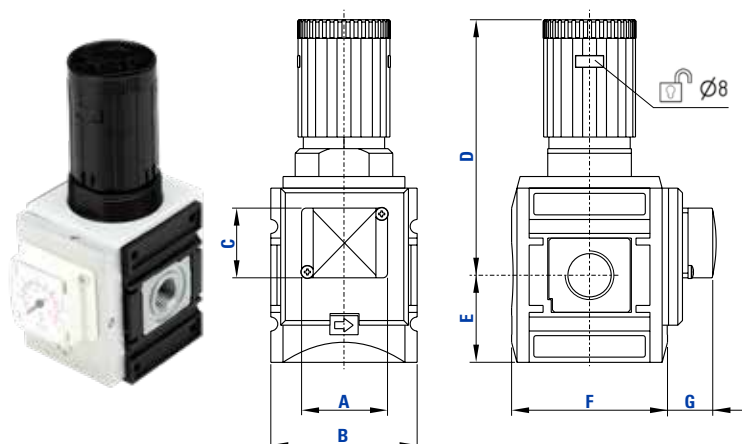
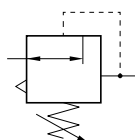
- Diaphragm-type pressure regulator with relieving
- Self-compensated regulation
- In-line or panel mounting with embedded pressure gauge
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

Body: technopolymer

Seals: NBR

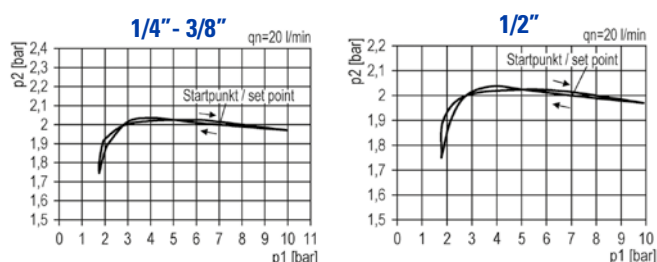
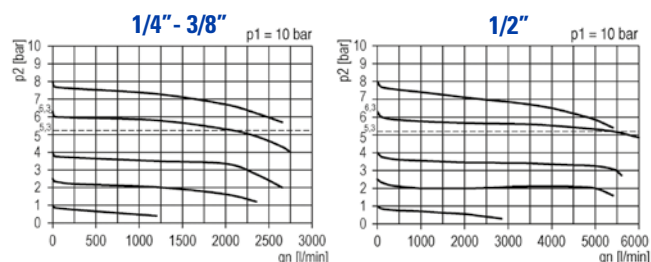
Internal parts: brass and stainless steel



Ports		1/4"	3/8"	1/2"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.3 kg	0.3 kg	0.5 kg
Inlet pressure range	$p_{1\ min}$ $p_{1\ max}$	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232)
Outlet pressure range	$p_{2\ min}$ $p_{2\ max}$	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)
Nominal Flow $p = 6.3\ \text{bar (91.3 PSI)}$; $\Delta p = 1\ \text{bar (14 PSI)}$	$Q_{\ max}$	77,6 (2200) SCFM (L/min ANR)	77,6 (2200) SCFM (L/min ANR)	180 (5100) SCFM (L/min ANR)
ORDER CODE		REG 2TK-08 US16.301.3	REG 3TK-08 US16.341.3	REG 4TK-08 US16.321.3

Flow characteristics

Hysteresis



ORDER CODE	A	B	C	D	E	F	G
REG 2TK-08 US16.301.3	37	52	30	96	31	54	17
REG 3TK-08 US16.341.3	37	52	30	96	31	54	17
REG 4TK-08 US16.321.3	37	63	30	110	37.5	67	19.5

DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Mounting bracket and mounting ring are sold separately.

Filter-regulator

- Diaphragm-type pressure regulator with relieving; filter 5 μm
- Bowl protection as a standard
- In-line or panel mounting
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

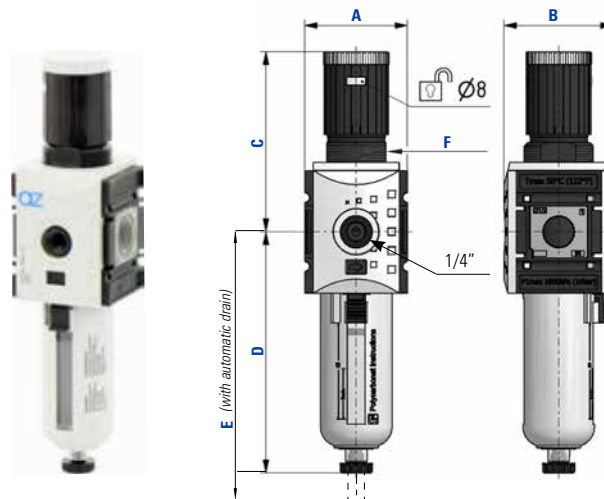
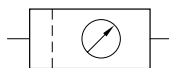
Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

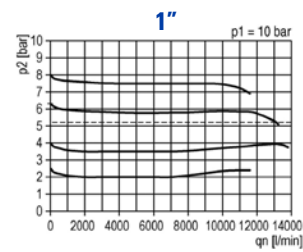
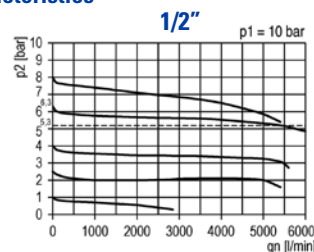
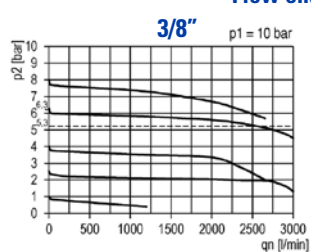
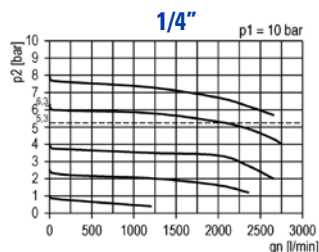
Internal bowl: polycarbonate

Bowl protection: polyamide

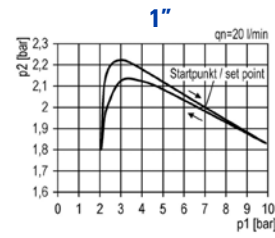
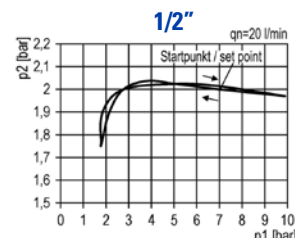
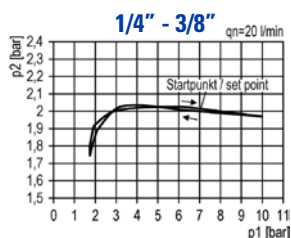


Ports			1/4"	3/8"	1/2"	1"
Temperature range			from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)
Weight			0.37 kg	0.37 kg	0.56 kg	0.98 kg
Inlet pressure range		p_{min} p_{max}	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232)	1.5 bar (21.7 PSI) 16 bar (232 PSI)
Outlet pressure range		p_{2min} p_{2max}	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)
Nominal Flow $p = 6.3$ bar (91.3 PSI); $\Delta p = 1$ bar (14 PSI)		Q_{max}	77,6 (2200) SCFM (L/min ANR)	91.8 (2600) SCFM (L/min ANR)	180 (5100) SCFM (L/min ANR)	459 (13000) SCFM (L/min ANR)
ORDER CODE	semi-automatic drain		FR 2K-08-05-S US16.304.0	FR 3K-08-05-S US16.344.0	FR 4K-08-05-S US16.324.0	FR 6K-08-05-S US16.363.0
	automatic drain		FR 2K-08-05-A US16.103.3	FR 3K-08-05-A US16.104.3	FR 4K-08-05-A US16.105.3	FR 6K-08-05-A US16.364.0

Flow characteristics



Hysteresis



DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Semi-automatic drain						
ORDER CODE	A	B	C	D	E	F
FR 2K-08-05-S US16.304.0	52	54	96	130	145	M 36X1.5
FR 3K-08-05-S US16.344.0	52	54	96	130	145	M 36X1.5
FR 4K-08-05-S US16.324.0	63	67	110	147	162	M 42X1.5
FR 6K-08-05-S US16.363.0	85	93	137	189	-	-

Mounting bracket and mounting ring are sold separately.

Automatic drain						
ORDER CODE	A	B	C	D	E	F
FR 2K-08-05-A US16.103.3	52	54	96	130	145	M 36X1.5
FR 3K-08-05-A US16.104.3	52	54	96	130	145	M 36X1.5
FR 4K-08-05-A US16.105.3	63	67	110	147	162	M 42X1.5
FR 6K-08-05-A US16.364.0	85	93	137	189	-	-

Filter-regulator with embedded pressure gauge

- Diaphragm-type pressure regulator with relieving; filter 5 µm
- With embedded pressure gauge
- Bowl protection as a standard
- In-line or panel mounting
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

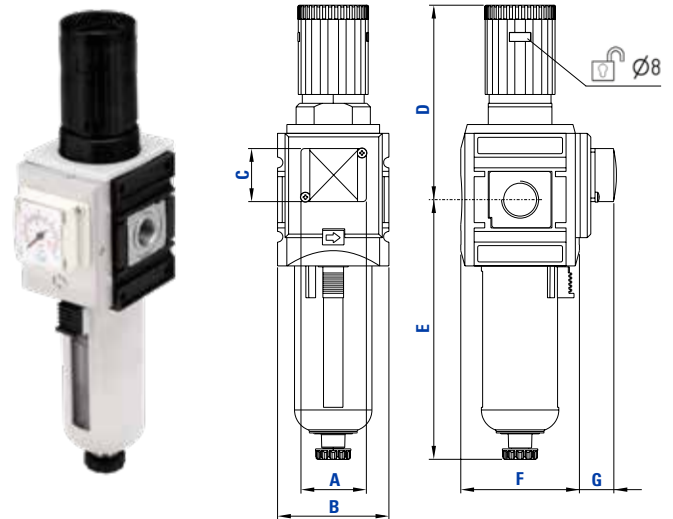
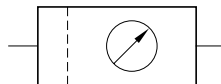
Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

Internal bowl: polycarbonate

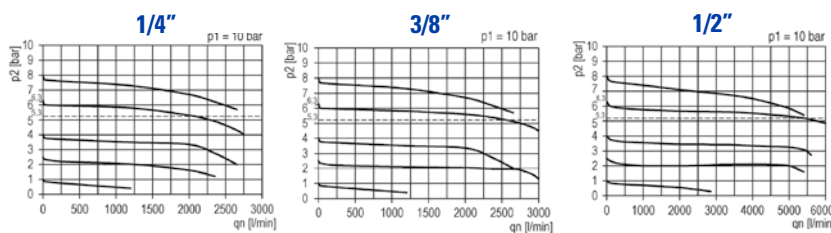
Bowl protection: polyamide



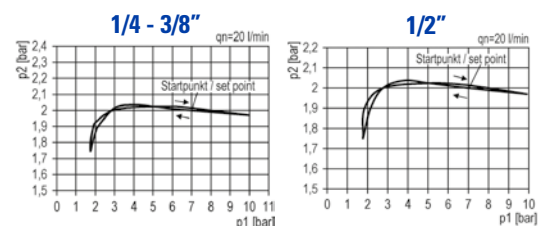
Mounting bracket and mounting ring are sold separately.

Ports			1/4"	3/8"	1/2"
Temperature range			from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)
Weight			0.37 kg	0.37 kg	0.56 kg
Inlet pressure range		p_{min} p_{max}	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232)
Outlet pressure range		p_{2min} p_{2max}	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)
Nominal Flow $p = 6.3$ bar (91.3 PSI); $\Delta p = 1$ bar (14 PSI)		Q_{max}	77.6 (2200) SCFM (L/min ANR)	91.8 (2600) SCFM (L/min ANR)	180 (5100) SCFM (L/min ANR)
ORDER CODE	semi-automatic drain		FR 2TK-08-05-S US16.304.3	FR 3TK-08-05-S US16.344.3	FR 4TK-08-05-S US16.324.3
	automatic drain		FR 2TK-08-05-A US16.304.4	FR 3TK-08-05-A US16.344.4	FR 4TK-08-05-A US16.324.4

Flow characteristics



Hysteresis



DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Semi-automatic drain							
ORDER CODE	A	B	C	D	E	F	G
FR 2TK-08-05-S US16.304.3	37	52	30	96	130	54	17
FR 3TK-08-05-S US16.344.3	37	52	30	96	130	54	17
FR 4TK-08-05-S US16.324.3	37	63	30	110	147	67	19.5

Automatic drain							
ORDER CODE	A	B	C	D	E	F	G
FR 2TK-08-05-A US16.304.4	37	52	30	96	145	54	17
FR 3TK-08-05-A US16.344.4	37	52	30	96	145	54	17
FR 4TK-08-05-A US16.324.4	37	63	30	110	162	67	19.5

Filter-regulator with embedded electronic pressure and switch/sensor

- Diaphragm-type pressure regulator with relieving; filter 5 μm
- With embedded digital pressure gauge
- Bowl protection as a standard
- In-line or panel mounting
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)



For dimensions see page 8
(G= 33 mm)

(dimensions in mm; 1 inch= 25.4 mm)

Materials

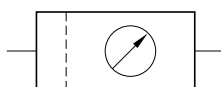
Body: technopolymer

Seals: NBR

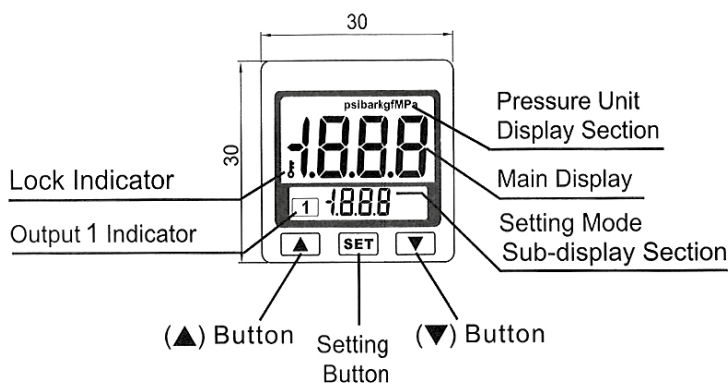
Internal parts: brass and stainless steel

Internal bowl: polycarbonate

Bowl protection: polyamide



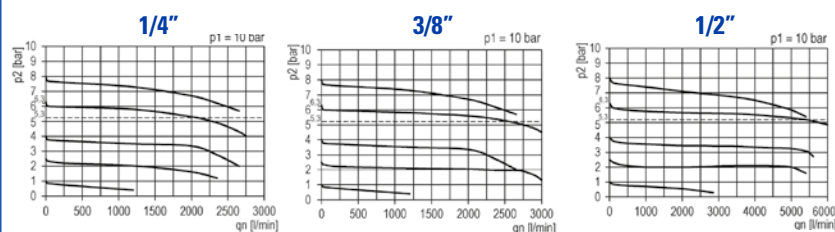
Mounting bracket and mounting ring are sold separately.



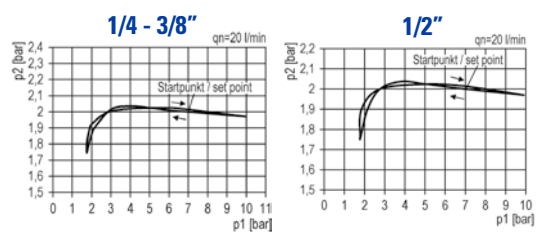
- Visualization of settings
- Simple 3-Step Setting
- Easy screen switching setting is possible while checking the measured value
- Delay Time: 1.5 ms
- Current consumption: 25 mA

Ports			1/4"	3/8"	1/2"
Temperature range			from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)
Weight			0.37 kg	0.37 kg	0.56 kg
Inlet pressure range		p_{\min} p_{\max}	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232)
Outlet pressure range		$p_{2\min}$ $p_{2\max}$	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)
Nominal Flow $p = 6.3 \text{ bar (91.3 PSI); } \Delta p = 1 \text{ bar (14 PSI)}$		Q_{\max}	77.6 (2200) SCFM (L/min ANR)	91.8 (2600) SCFM (L/min ANR)	180 (5100) SCFM (L/min ANR)
ORDER CODE	semi-automatic drain		FR 2DK-08-05-S US16.305.3	FR 3DK-08-05-S US16.315.3	FR 4DK-08-05-S US16.325.3
	automatic drain		FR 2DK-08-05-A US16.305.4	FR 3DK-08-05-A US16.315.4	FR 4DK-08-05-A US16.325.4

Flow characteristics



Hysteresis



Lubricator

- Oil lubricator with venturi type technology and flow compensation
- Allows fill while under pressure
- Vertical installation
- Bowl protection as a standard
- With NPT threaded ports
- BSP available on request (by taking out “US” from the code)
- Recommended oil type: VG32 - ISO3448 (page no. 18)

Materials

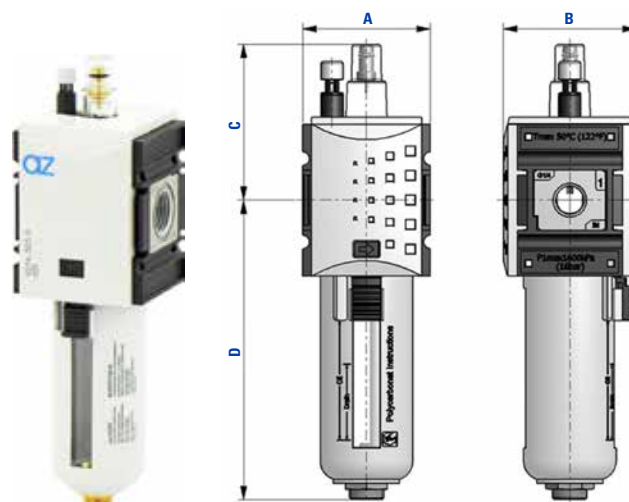
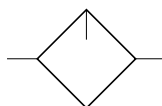
Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

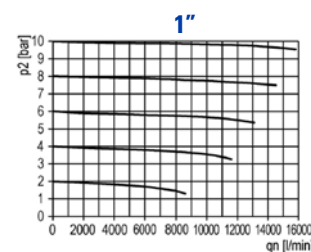
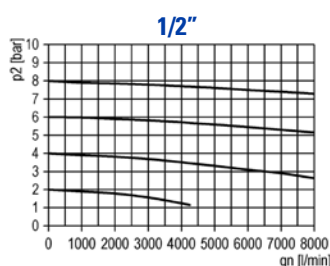
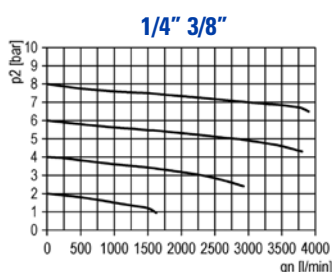
Internal bowl: polycarbonate

Bowl protection: polyamide

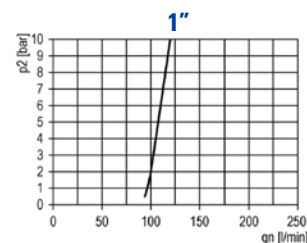
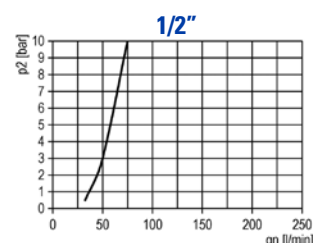
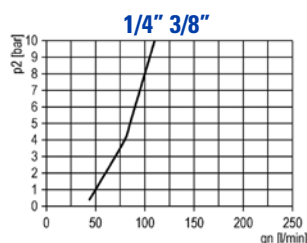


Ports		1/4"	3/8"	1/2"	1"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.28 kg	0.28 kg	0.42 kg	0.79 kg
Working pressure range	p_{min} p_{max}	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232 PSI)
Nominal Flow $p = 6.3 \text{ bar (91.3 PSI); } \Delta p = 1 \text{ bar (14 PSI)}$	Q_{max}	98.8 (2800) SCFM (L/min ANR)	98.8 (2800) SCFM (L/min ANR)	282.4 (8000) SCFM (L/min ANR)	494.3 (14000) SCFM (L/min ANR)
ORDER CODE		LUB 2K-00 US16.303.0	LUB 3K-00 US16.343.0	LUB 4K-00 US16.323.0	LUB 6K-00 US16.360.0

Flow characteristics



Oil/air ratio



ORDER CODE	A	B	C	D
LUB 2K-00 US16.303.0	52	54	64	122
LUB 3K-00 US16.343.0	52	54	64	122
LUB 4K-00 US16.323.0	63	67	70	140
LUB 6K-00 US16.360.0	85	93	88	183

DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Mounting bracket is sold separately.

Filter Regulator+Lubricator (FRL air preparation unit)

- Diaphragm-type pressure regulator with relieving; filter 5 µm
- Degree of filtration: 95%
- Bowl protection as a standard
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

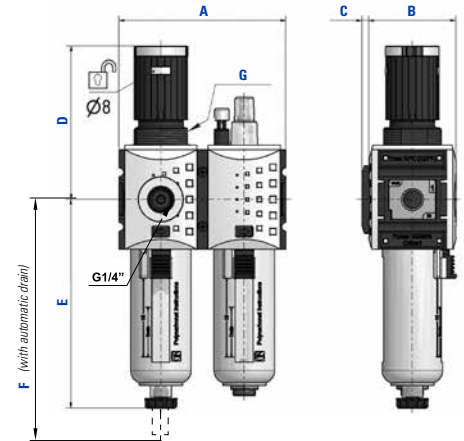
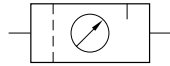
Body: technopolymer

Seals: NBR

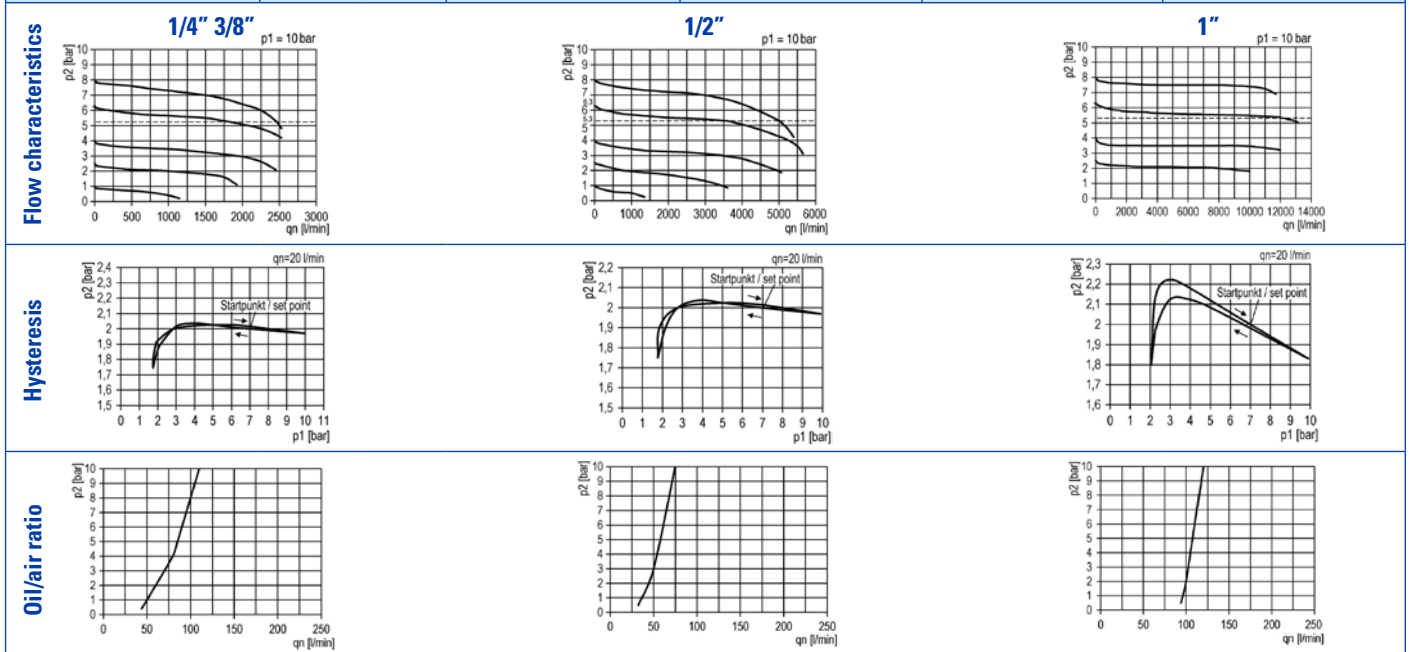
Internal parts: brass and stainless steel

Internal bowl: polycarbonate

Bowl protection: polyamide



Ports			1/4"	3/8"	1/2"	1"
Temperature range			from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)	from 0 up to +50°C (122° F)
Weight			0.68 kg	0.68 kg	1.06 kg	1.85 kg
Inlet pressure range		p_{min} p_{max}	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232 PSI)	1.5 bar (21.7 PSI) 16 bar (232)	1.5 bar (21.7 PSI) 16 bar (232 PSI)
Outlet pressure range		p_{2min} p_{2max}	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)	0 bar (0 PSI) 8 bar (116 PSI)
Nominal Flow $p = 6.3 \text{ bar (91.3 PSI)}$; $\Delta p = 1 \text{ bar (14 PSI)}$		Q_{max}	63.5 (1800) SCFM (L/min ANR)	63.5 (1800) SCFM (L/min ANR)	123.5 (3500) SCFM (L/min ANR)	423.7 (12000) SCFM (L/min ANR)
ORDER CODE	semi-automatic drain		FR+L 2K-08-05-S US16.305.0	FR+L 3K-08-05-S US16.345.0	FR+L 4K-08-05-S US16.325.0	FR+L 6K-08-05-S US16.365.0
	automatic drain		FR+L 2K-08-05-A US16.106.3	FR+L 3K-08-05-A US16.107.3	FR+L 4K-08-05-A US16.108.3	FR+L 6K-08-05-A US16.366.0



Semi-automatic drain							
ORDER CODE	A	B	C	D	E	F	G
FR+L 2K-08-05-S US16.305.0	104	54	4	96	130	145	M36X1.5
FR+L 3K-08-05-S US16.345.0	104	54	4	96	130	145	M36X1.5
FR+L 4K-08-05-S US16.325.0	126	67	5	110	147	162	M42X1.5
FR+L 6K-08-05-S US16.365.0	170	63	5	137	189	-	-

DIMENSIONS
(dimensions in mm; 1 inch= 25.4 mm)

Mounting bracket and mounting ring are sold separately.

Automatic drain							
ORDER CODE	A	B	C	D	E	F	G
FR+L 2K-08-05-A US16.106.3	104	54	4	96	130	145	M36X1.5
FR+L 3K-08-05-A US16.107.3	104	54	4	96	130	145	M36X1.5
FR+L 4K-08-05-A US16.108.3	126	67	5	110	147	162	M42X1.5
FR+L 6K-08-05-A US16.366.0	170	63	5	137	189	-	-

Shut-off valve

- High performance modular element
- High exhaust flow rate
- Manual actuation; it can be secured with a padlock
- Installation in any position
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

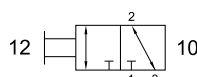
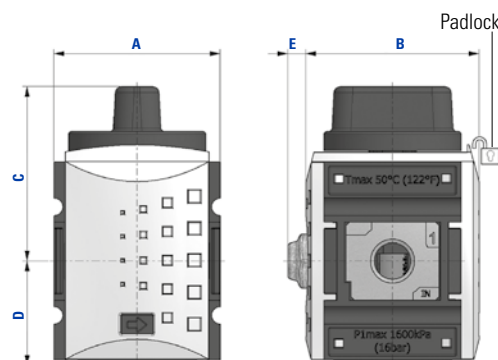
Materials

Body: technopolymer

Seals: NBR

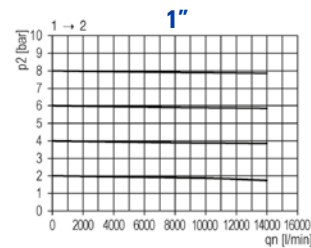
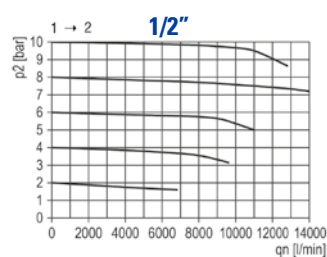
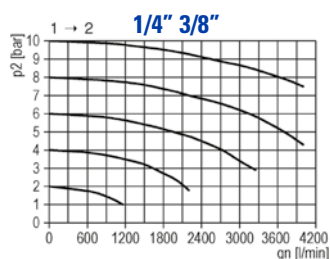
Internal parts: brass and stainless steel

Mounting bracket is sold separately.

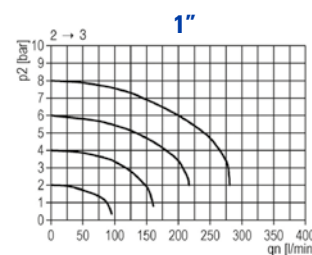
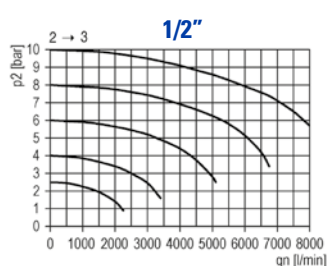
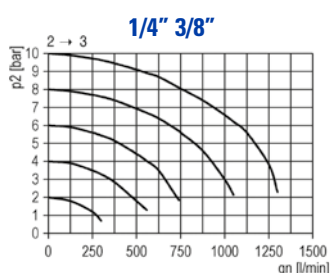


Ports		1/4"	3/8"	1/2"	1"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.27 kg	0.27 kg	0.53 kg	0.86 kg
Working pressure range	p_{min} p_{max}	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232 PSI)
Inlet maximum flow rate $p = 6.3 \text{ bar (91.3 PSI)}$; $\Delta p = 1 \text{ bar (14 PSI)}$	Q_{max}	67 (1900) SCFM (L/min ANR)	67 (1900) SCFM (L/min ANR)	388.4 (11000) SCFM (L/min ANR)	494.3 (14000) SCFM (L/min ANR)
Exhaust maximum flow rate	Q_{max}	14.1 (400) SCFM (L/min ANR)	14.1 (400) SCFM (L/min ANR)	105.9 (3000) SCFM (L/min ANR)	14.1 (400) SCFM (L/min ANR)
ORDER CODE		SR-M2K US16.308.0	SR-M3K US16.348.0	SR-M4K US16.328.0	SR-M6K US16.369.0

Inlet flow rate



Exhaust flow rate



ORDER CODE	A	B	C	D	E
SR-M2K US16.308.0	52	54	55	33	6
SR-M3K US16.348.0	52	54	55	33	6
SR-M4K US16.328.0	63	67	70	92	-
SR-M6K US16.369.0	85	93	94	51	-

DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Pneumatically actuated quick exhaust valve

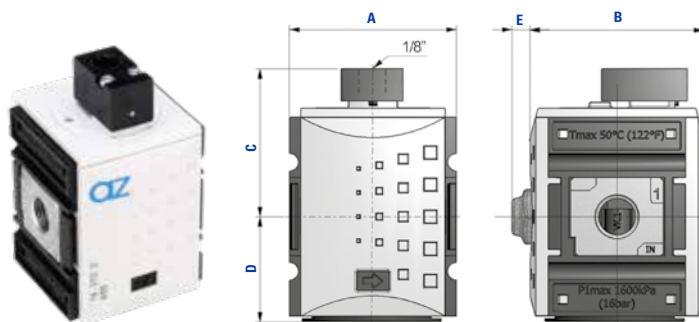
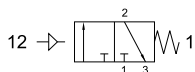
- Pneumatically actuated 3/2 quick exhaust and shut-off valve
- High exhaust flow rate
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

Body: technopolymer

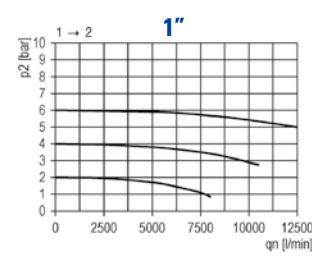
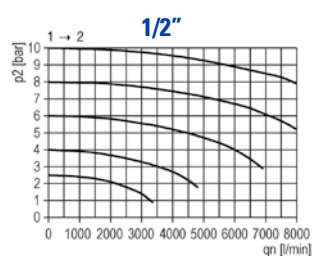
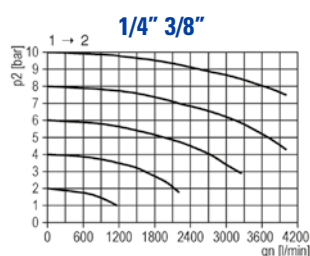
Seals: NBR

Internal parts: brass and stainless steel

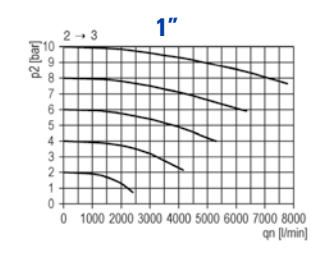
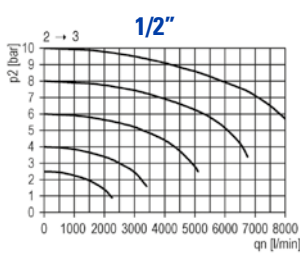
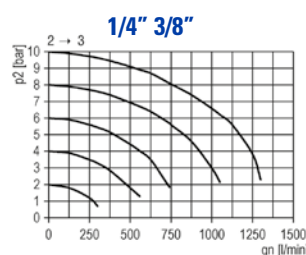


Ports		1/4"	3/8"	1/2"	1"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.26 kg	0.26 kg	0.56 kg	0.89 kg
Working pressure range	p_{min} p_{max}	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 16 bar (232 PSI)	0 bar (0 PSI) 10 bar (145 PSI)
Inlet maximum flow rate $p = 6.3 \text{ bar (91.3 PSI)}$; $\Delta p = 1 \text{ bar (14 PSI)}$	Q_{max}	70.6 (2000) SCFM (L/min ANR)	70.6 (2000) SCFM (L/min ANR)	151.8 (4300) SCFM (L/min ANR)	388.4 (11000) SCFM (L/min ANR)
Exhaust maximum flow rate	Q_{max}	14.1 (400) SCFM (L/min ANR)	14.1 (400) SCFM (L/min ANR)	105.9 (3000) SCFM (L/min ANR)	141.2 (4000) SCFM (L/min ANR)
ORDER CODE		SCR 2K-P US16.310.0	SCR 3K-P US16.350.0	SCR 4K-P US16.330.0	SCR 6K-P US16.370.0

Inlet flow rate



Exhaust flow rate



ORDER CODE	A	B	C	D	E
SCR 2K-P US16.310.0	52	54	46	33	6
SCR 3K-P US16.350.0	52	54	46	33	6
SCR 4K-P US16.330.0	63	67	55	92	-
SCR 6K-P US16.370.0	85	93	78	102	-

DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Mounting bracket is sold separately.

Solenoid actuated quick exhaust valve

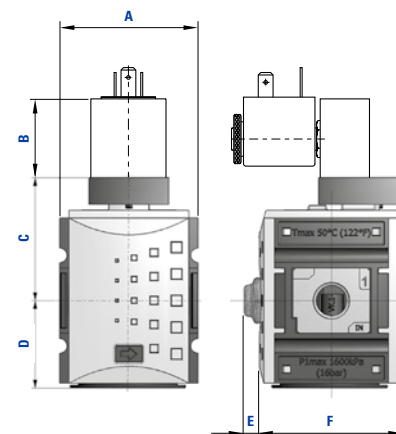
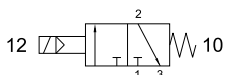
- Solenoid actuated 3/2 quick exhaust and shut-off valve
- High exhaust flow rate
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

Materials

Body: technopolymer

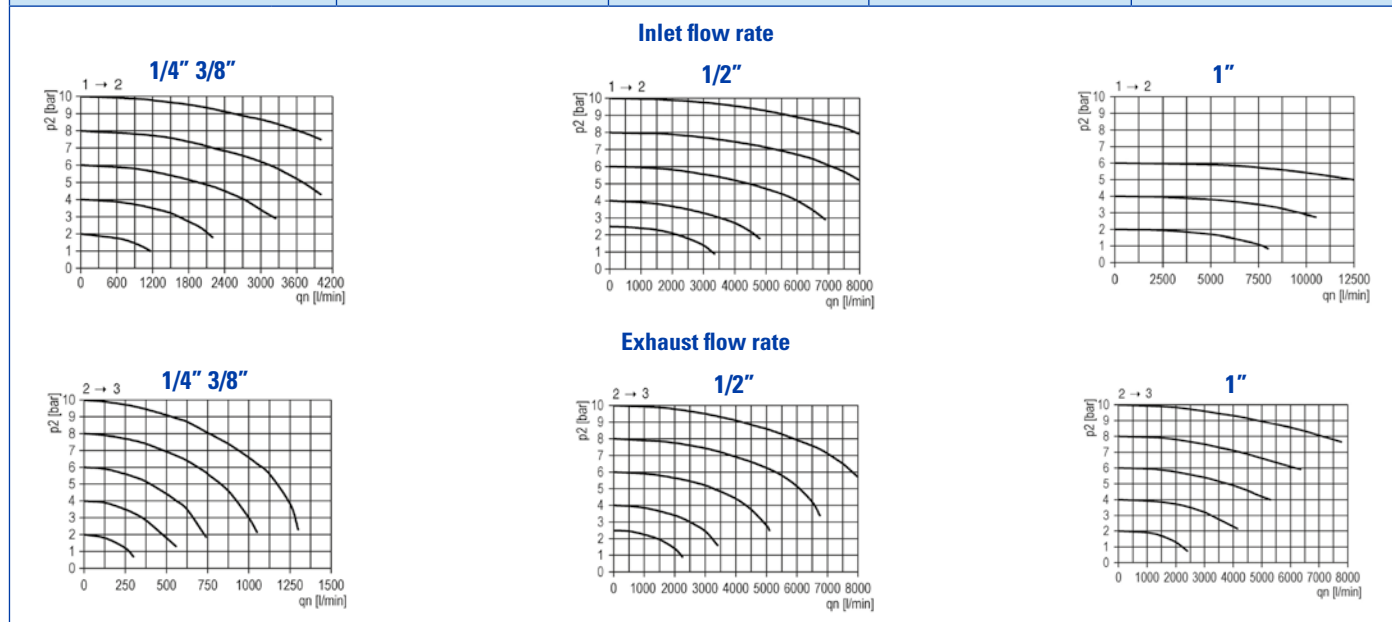
Seals: NBR

Internal parts: brass and stainless steel



The product is sold without coil, which is sold separately

Ports		1/4"	3/8"	1/2"	1"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.38 kg	0.38 kg	0.68 kg	1.15 kg
Working pressure range	p_{min} p_{max}	0 bar (0 PSI) 10 bar (145 PSI)	0 bar (0 PSI) 10 bar (145 PSI)	0 bar (0 PSI) 10 bar (145 PSI)	0 bar (0 PSI) 10 bar (145 PSI)
Inlet maximum flow rate $p = 6.3 \text{ bar (91.3 PSI); } \Delta p = 1 \text{ bar (14 PSI)}$	Q_{max}	70.6 (2000) SCFM (L/min ANR)	70.6 (2000) SCFM (L/min ANR)	151.8 (4300) SCFM (L/min ANR)	388.4 (11000) SCFM (L/min ANR)
Exhaust maximum flow rate	Q_{max}	14.1 (400) SCFM (L/min ANR)	14.1 (400) SCFM (L/min ANR)	105.9 (3000) SCFM (L/min ANR)	141.2 (4000) SCFM (L/min ANR)
ORDER CODE		SCR 2K-E US16.310.3	SCR 3K-E US16.340.3	SCR 4K-E US16.330.3	SCR 6K-E US16.370.3



ORDER CODE	A	B	C	D	E	F
SCR 2K-E US16.310.3	52	32	46	33	6	54
SCR 3K-E US16.340.3	52	32	46	33	6	54
SCR 4K-E US16.330.3	63	32	55	92	-	67
SCR 6K-E US16.370.3	85	32	72	102	-	93

DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

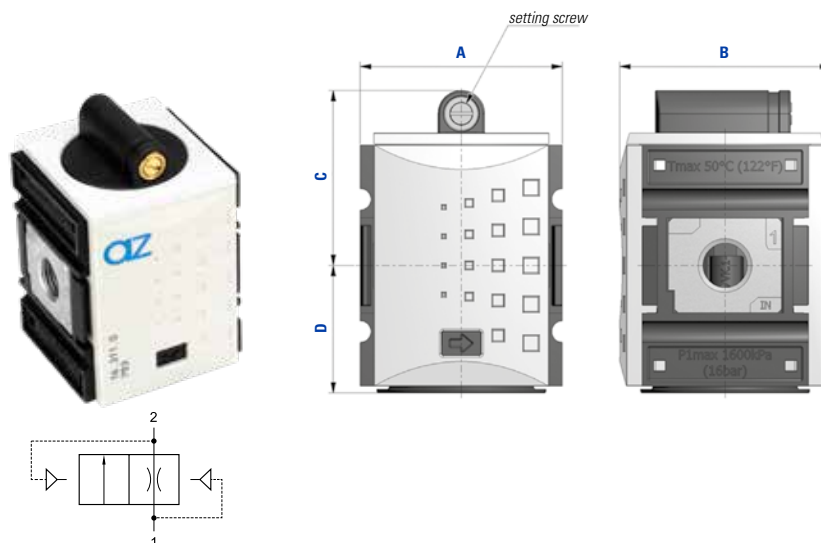
Mounting bracket is sold separately.

Slow-start valve

Valve operation

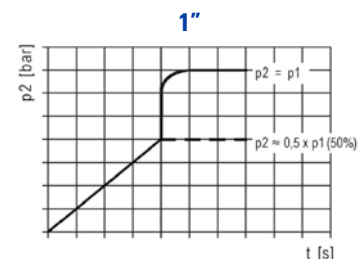
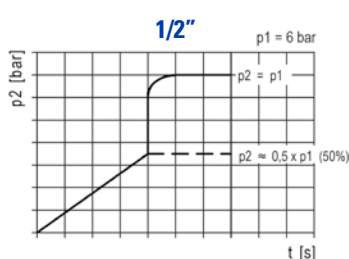
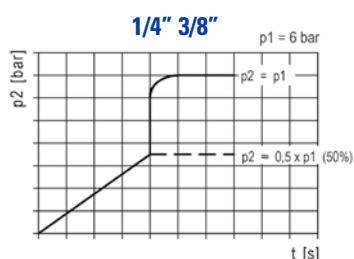
The valve applies to a pneumatic circuit a progressively increasing pressure over a period of time set by the integrated screw. During this phase no air consumption is allowed in the circuit. After having reached the half of the system pressure, the slow-start valve begins to automatically feed the circuit with the system pressure.

The slow-start valve prevents from unexpected motions of the pneumatic devices in the circuit, which could happen by applying directly the system pressure

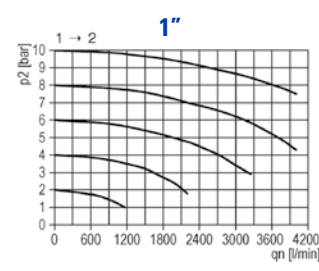
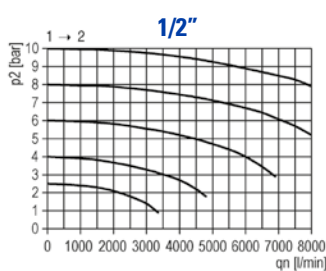
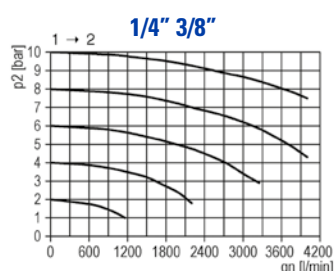


Ports		1/4"	3/8"	1/2"	1"
Temperature range °F (°C)		35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)	35 to 122 (1.7 to 50)
Weight		0.24 kg	0.24 kg	0.53 kg	0.86 kg
Working pressure range	p_{min} p_{max}	2.5 bar (36.2 PSI) 16 bar (232 PSI)	2.5 bar (36.2 PSI) 16 bar (232 PSI)	2.5 bar (36.2 PSI) 16 bar (232 PSI)	2.5 bar (36.2 PSI) 16 bar (232 PSI)
Nominal Flow $p = 6.3 \text{ bar (91.3 PSI)}$; $\Delta p = 1 \text{ bar (14 PSI)}$	Q_{max}	67 (1900) SCFM (L/min ANR)	67 (1900) SCFM (L/min ANR)	14.1 (400) SCFM (L/min ANR)	67 (1900) SCFM (L/min ANR)
ORDER CODE		AVP 2K-00 US16.311.0	AVP 3K-00 US16.351.0	AVP 4K-00 US16.331.0	AVP 6K-00 US16.371.0

Time/pressure ratio



Exhaust flow rate



ORDER CODE	A	B	C	D
AVP 2K-00 US16.311.0	52	54	45	33
AVP 3K-00 US16.351.0	52	54	45	33
AVP 4K-00 US16.331.0	63	67	54	58
AVP 6K-00 US16.371.0	43	48	53	28

DIMENSIONS

(dimensions in mm; 1 inch= 25.4 mm)

Materials

Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

With NPT threaded ports, BSP available on request

(by taking out "US" from the code)

Mounting bracket is sold separately.

Mini pressure regulator

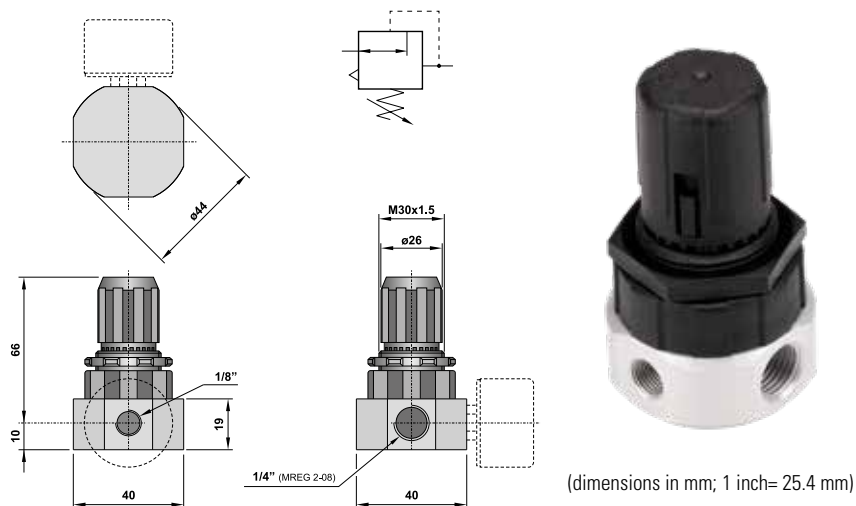
- Piston-type pressure regulator with relieving
- Self-compensated regulation
- Body in aluminium alloy
- Sensitive regulation
- In-line or panel mounting
- BSP available on request
(by taking out "US" from the code)

Materials

Springs: stainless steel

Seals: NBR

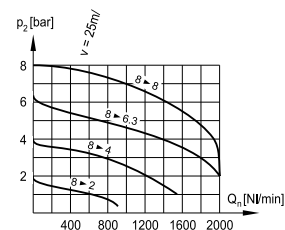
Internal parts: brass, stainless steel and polymer



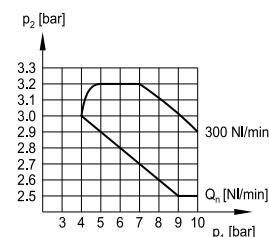
(dimensions in mm; 1 inch= 25.4 mm)

Ports		1/4"
Temperature range °F (°C)		35 to 122 (1.7 to 50)
Inlet pressure range	$p_{1\ min}$ $p_{1\ max}$	0 bar (0 PSI) 10 bar (145 PSI)
Outlet pressure range	$p_{2\ min}$ $p_{2\ max}$	0.5 bar (72.5 PSI) 8 bar (116 PSI)
Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar (2.9 PSI)
Hysteresis	$p_1=10\ bar\ (145\ PSI) / p_2=0\ bar\ (0\ PSI)$ $p_1=10\ bar\ (145\ PSI) / p_2=8\ bar\ (116\ PSI)$	1.6 0.6
Nominal Flow $p = 6.3\ bar\ (91.3\ PSI); \Delta p = 1\ bar\ (14\ PSI)$	Q_n	19.4 (550) SCFM (L/min ANR)
Flow rate 2 => 1 $p = 6\ bar\ (87\ PSI); \Delta p = 1\ bar\ (14\ PSI)$	only for US16.070.4 (see application sketch)	6.35 (180) SCFM (L/min ANR)
ORDER CODE mini pressure regulator		MREG 2-08 US16.011.4
ORDER CODE mini pressure regulator with by-pass		US16.070.4

Flow characteristics (MREG 2-08)

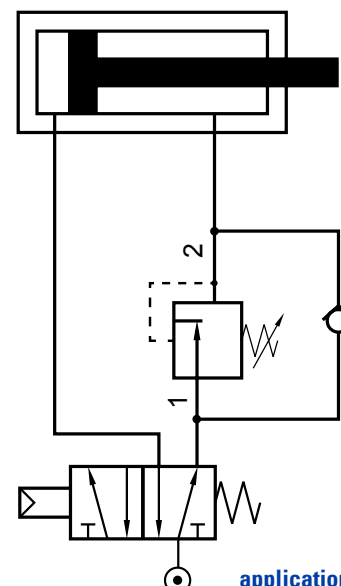
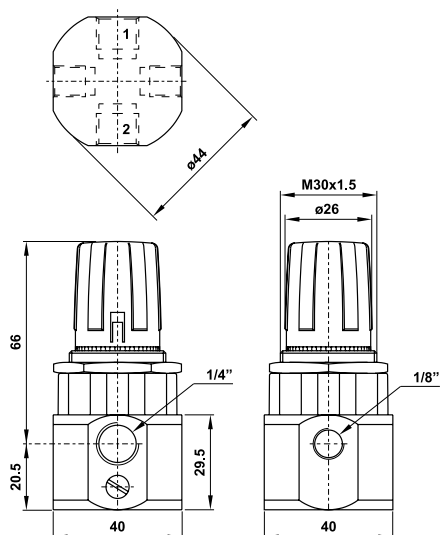


Inlet flow rate



Mini pressure regulator with by-pass (ideal for use between cylinder and valve)

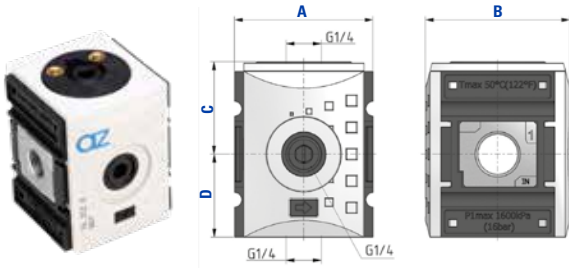
- With check valve to by-pass the regulator in direction from 2 to 1



application sketch

Accessories for air preparation units

distribution manifold block



- Suitable to add extra ports to the FRL manifold
- With NPT threaded ports
- BSP available on request (by taking out "US" from the code)

PORTS	ORDER CODE	A	B	C	D
1/4"	PAI 2K-00 US16.312.0	52	54	35	31
3/8"	PAI 3K-00 US16.352.0	52	54	35	31
1/2"	PAI 4K-00 US16.332.0	63	67	43	38
1"	PAI 6K-00 US16.372.0	85	93	59	51

pressure gauge



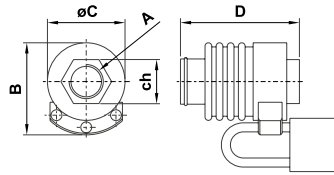
(dimensions in mm; 1 inch= 25.4 mm)

Ø	THREAD	ORDER CODE
50 mm	1/4"	M50-01 17.054.0
63 mm	1/4"	M63-00 17.003.0

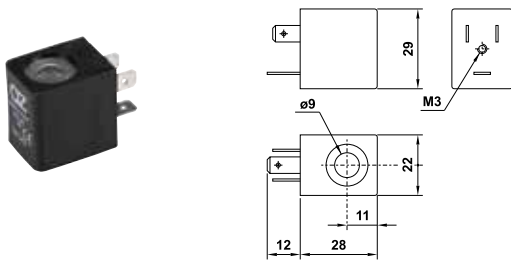
Lock type sleeve valve

Model	A	B	C	D	ch
US18.010.0	1/4" NPT	35.6	30	46	17
18.010.0	1/4" BSP	35.6	30	46	17
US18.013.0	3/8" NPT	45.1	40	62	26
18.013.0	3/8" BSP	45.1	40	62	26
US18.011.0	1/2" NPT	45.1	40	62	26
18.011.0	1/2" BSP	45.1	40	62	26

18.012.0 Padlock (sold separately)



22 mm coils and connectors



CODE	TENSION	POWER	
		rated	inrush
00.028.0	24V DC	3W	
00.029.0	24V AC 50/60Hz	3W	
00.030.0	110V AC 50/60Hz	5VA	7.5VA

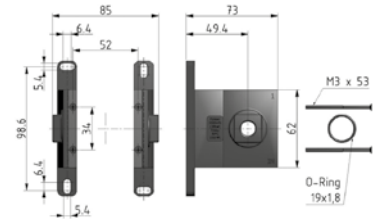
Coupling kits with mounting bracket and threaded ports

It allows to replace the air treatment units without removing the tubes and the mounting brackets from the panel.

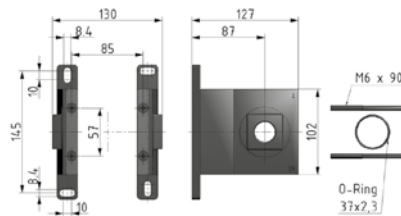
Each element is sold in kit with all necessary pieces for installation.

PORT	ORDER CODE
1/4"	16.267.0

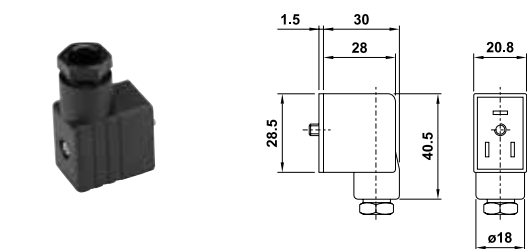
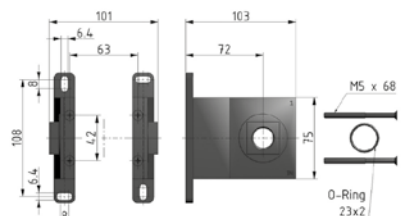
PORT	ORDER CODE
3/8"	16.268.0



PORT	ORDER CODE
1"	16.279.0



PORT	ORDER CODE
1/2"	16.269.0

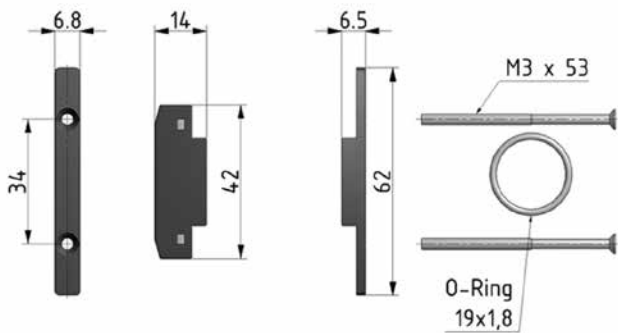


CODE	COLOUR	CABLES	TYPE
00.197.0	black	PG09	standard
00.344.0	clear with LED light	PG09	with LED 24V AC&DC
00.346.0	clear with LED light	PG09	with LED 115V AC

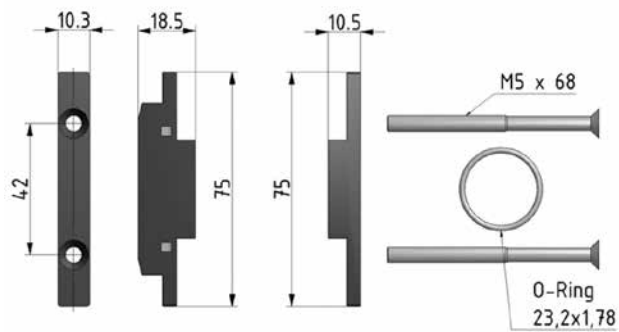
Coupling kits with mounting bracket

Each element is sold in kit with all necessary pieces for installation.

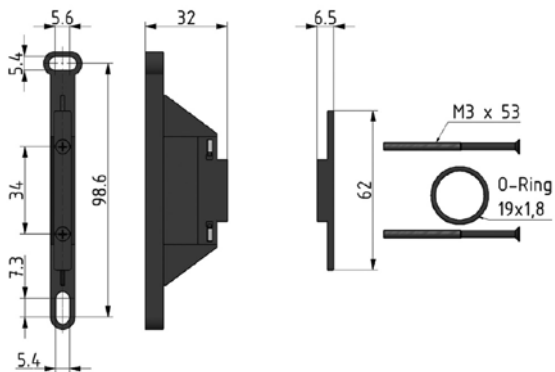
PORTS	ORDER CODE
1/4" - 3/8"	KIT 2K-00 16.313.0



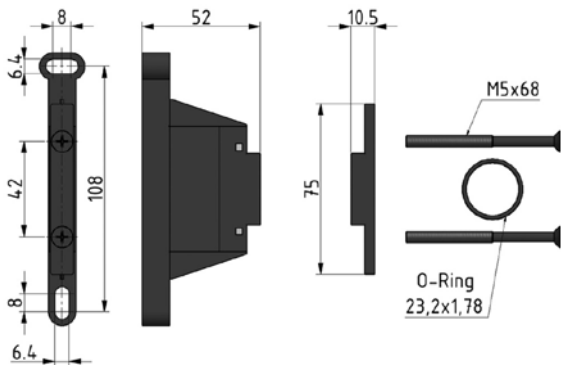
PORT	ORDER CODE
1/2"	KIT 4K-00 16.333.0



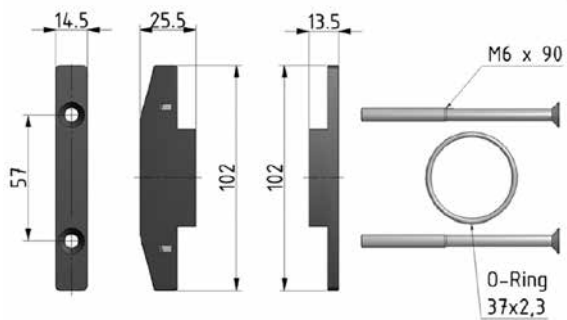
PORTS	ORDER CODE
1/4" - 3/8"	KIT 2K-01 16.314.0



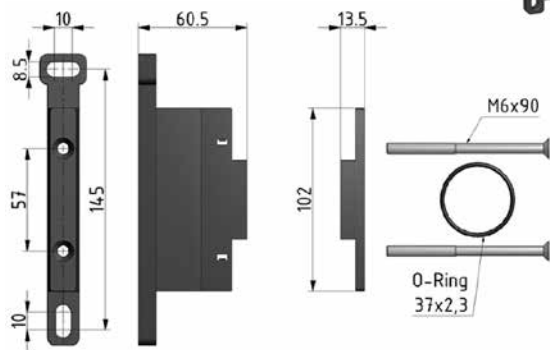
PORT	ORDER CODE
1/2"	KIT 4K-01 16.334.0



PORT	ORDER CODE
1"	KIT 6K-00 16.373.0

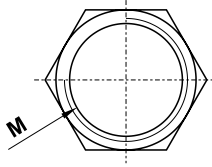


PORT	ORDER CODE
1"	KIT 6K-01 16.374.0



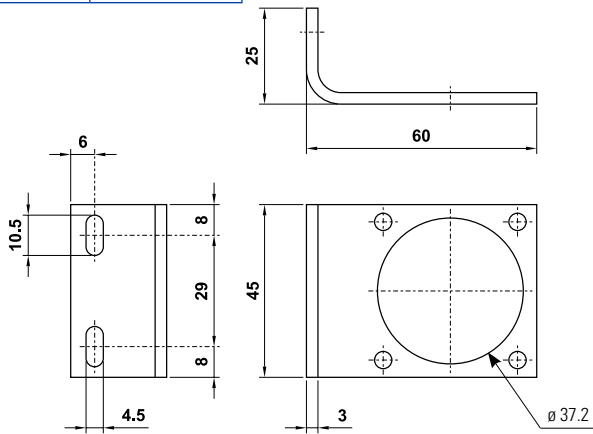
Mounting ring and mounting brackets

ORDER CODE	PORTS	M
16.030.0	1/4" - 3/8"	M36x1.5
16.329.0	1/2"	M42x1.5



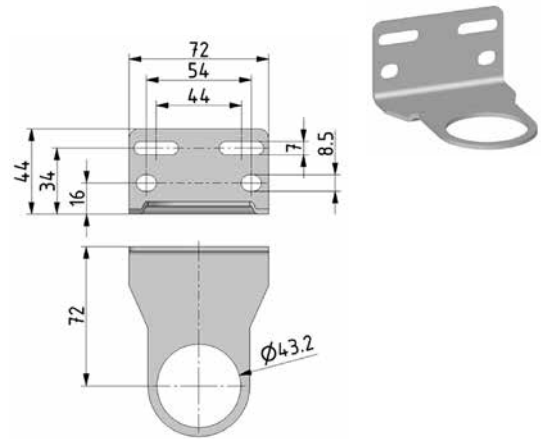
PORTS	ORDER CODE
1/4" - 3/8"	STF 3A 16.011.2

(the mounting ring above is needed)

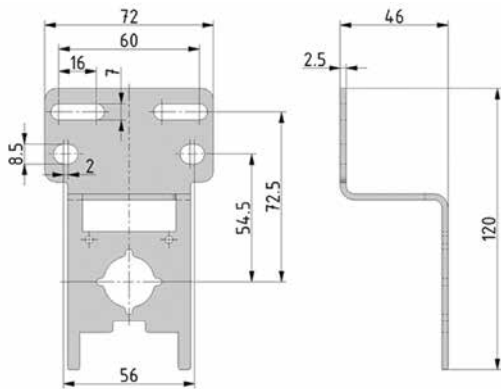


PORT	ORDER CODE
1/2"	16.338.0

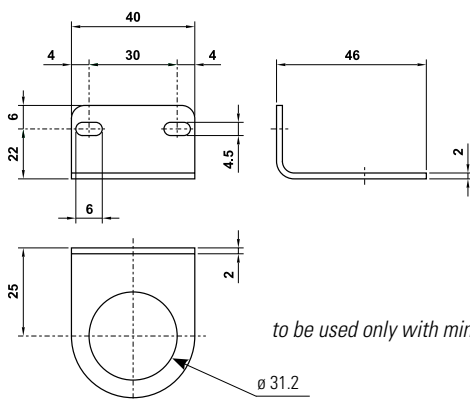
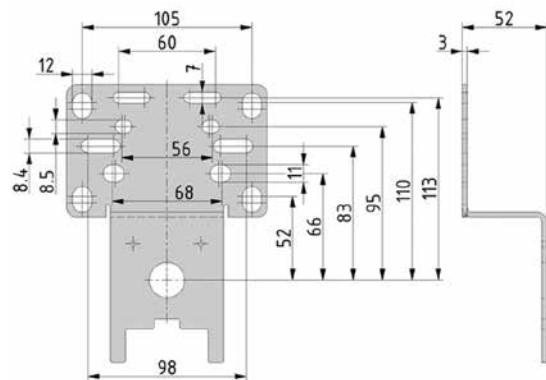
(the mounting ring above is needed)



PORT	ORDER CODE
1/2"	16.289.0



PORT	ORDER CODE
1"	16.375.0



ORDER CODE
STF 2 16.021.0

to be used only with mini regulators (page 16)

Oil for air lubricators (code no. 16.172.0)

- Oil type: VG32 - ISO3448
- Recommended for air lubricators
- Can capacity 1.05 quart (1 liter)



Instructions for use:

Fill the lubricator to the recommended level. Regulate, where possible, the oil flow at about 2 drops/minute. Do not use at temperatures below +35°F



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