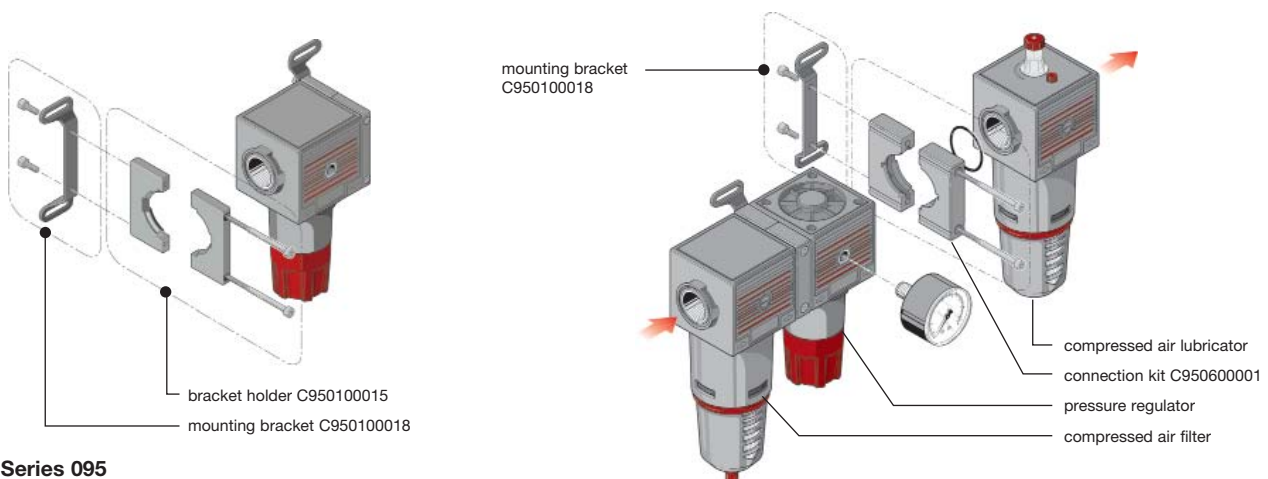
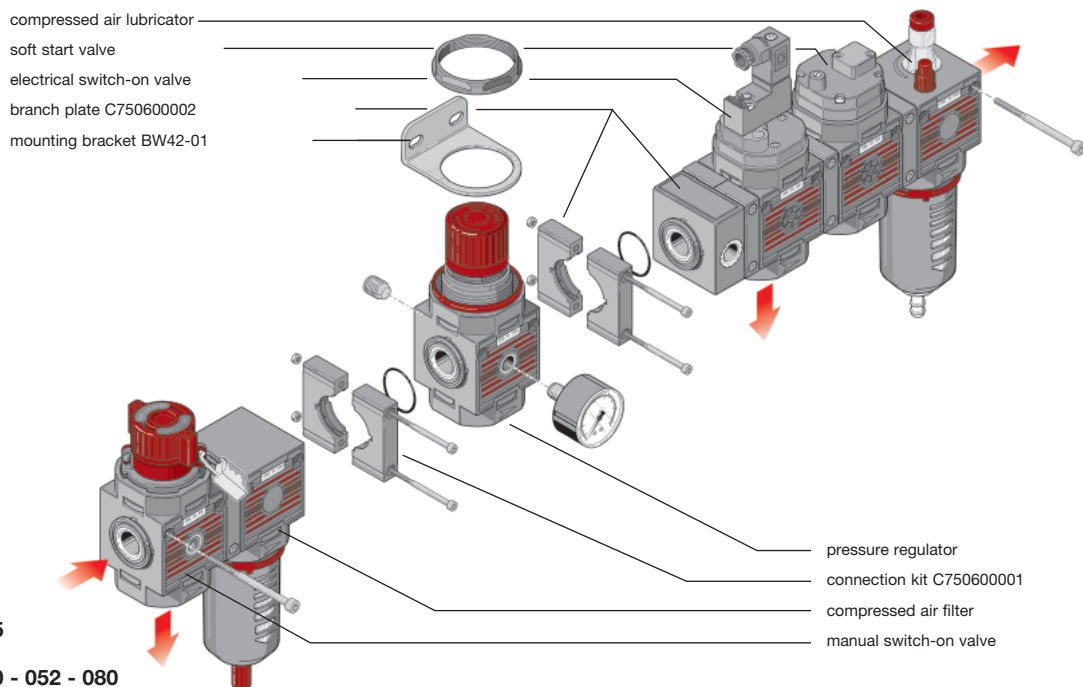
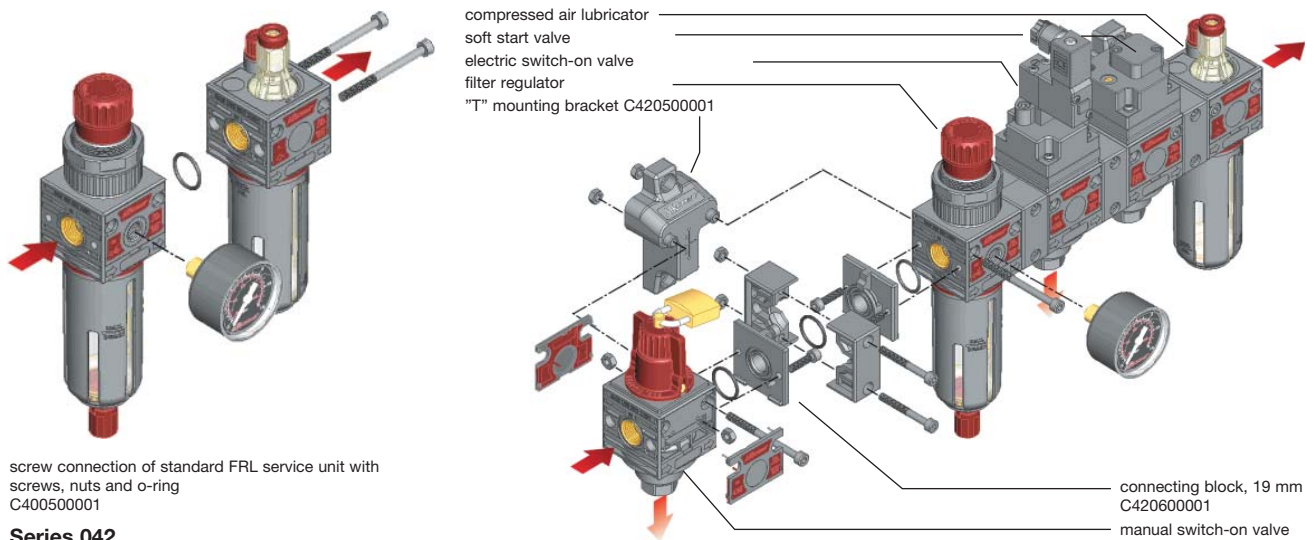


Description	Pressure range bar	Connection thread	Device	Page
made of plastic, 2- and 3-part	0 ... 8 / 12 bar	G $\frac{1}{4}$ - G1	C2, C3	19.03
switch-on and soft start valve for C2, C3		G $\frac{1}{4}$ - G $\frac{3}{4}$	A0, S0, V0	19.05
"Midi" series made of zinc die-cast, 2- and 3-part	0.2 ... 4 / 17 bar	G $\frac{1}{4}$ - G $\frac{1}{2}$	C10, C11	19.06
"Miniature" series, 2- and 3-part	0.2 ... 4 / 9 bar	G $\frac{1}{8}$, G $\frac{1}{4}$	C500	19.07
soft start valve / electric switching valve for "cube" series		G $\frac{3}{8}$ - G $\frac{3}{4}$	S, SC, SSA	19.08
"Cube" series modular, 2- and 3-part	0.3 ... 9 bar	G $\frac{1}{8}$ - G $\frac{3}{4}$	C35, C75, C105	19.09
accessories für "cube" series			PK, PD	19.10
accessories für "cube" series			AKV, SV, DK, BB	19.11
series "D", made of aluminium	0.3 ... 3 / 15 bar	G $\frac{1}{8}$ - G2	CD	19.12
„Maxi“ series, robust, made of zinc die-cast, 2- and 3-part	0.2 ... 4 / 17 bar	G $\frac{1}{4}$ - G1	C20, C21	19.13
brass, many variations, up to 50 bar	0.2 ... 3 / 15 bar	G $\frac{1}{8}$ - G2	CM	19.14
"Standard" series, robust	0.2 ... 4 / 17 bar	G $\frac{1}{4}$ - G2	C630	19.15
drain valve	max. 21 bar		SA, RK	19.16

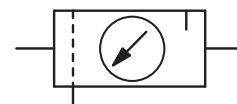


19

FRL Service Units



Description	Made up of modular components which can be combined to form compact units. Switch-on and soft start valves available as additional modules.		
Media	compressed air or non-corrosive gases		
Supply pressure	max. 15 bar, max. 7 bar at lubricator with oil level indicator		
Gauge port	G $\frac{1}{8}$ or G $\frac{1}{4}$ at series 095, on both sides of the body, one screw plug supplied		
Filter element	20 μ m, optionally 5 μ m, made of sintered polyethylene		
Bowl	plastic version with bayonet catch, series 042 with connection thread		
Drain	manual drain with semiautomatic drain, optionally automatic drain		
Oil refilling	optionally with semiautomatic oil refilling without need to interrupt operation		
Oil level indicator	If the oil level falls below the limit value, a float will close a signal contact.		
Temperature range	0 °C to 50 °C / 32 °F to 122 °F		
Material	Body: nylon, POM at series 042	Inner valve: brass	
	Bowl: polyamide	Thread insert: brass	
	Elastomer: NBR/Buna-N		

G $\frac{1}{4}$ up to G1

Dimensions			Combination consisting of	Bowl design made of/with	Flow rate		Connection thread G	Order number
A	B	C			m ³ /h*1	l/min*1		
mm	mm	mm						

FRL unit, 2-partP₁: max. 15 bar, P₂: 0...8 bar, 20 μ m, semiautomatic drain, with pressure gauge**C2**

84	198	126	B+L042	plastic	48	800	G $\frac{1}{4}$	C242-02HC
126	239	148	B+L050	plastic/	78	1300	G $\frac{3}{8}$	C250-03HC
126	239	148	B+L052	bowl guard	84	1400	G $\frac{1}{2}$	C252-04HC
151	276	173	B+L075		132	2200	G $\frac{1}{2}$	C275-04HC
226	276	173	B+L080		138	2300	G $\frac{3}{4}$	C280-06HC
225	411	237	B+L095		672	11200	G1	C295-08HC

FRL unit, 3-partP₁: max. 15 bar, P₂: 0...8 bar, 20 μ m, semiautomatic drain, with pressure gauge**C3**

126	198	126	F+R+L042	plastic	48	800	G $\frac{1}{4}$	C342-02HC
188	239	148	F+R+L050	plastic/	78	1300	G $\frac{3}{8}$	C350-03HC
188	239	148	F+R+L052	bowl guard	84	1400	G $\frac{1}{2}$	C352-04HC
226	276	173	F+R+L075		132	2200	G $\frac{1}{2}$	C375-04HC
290	276	173	F+R+L080		138	2300	G $\frac{3}{4}$	C380-06HC
335	411	237	F+R+L095		672	11200	G1	C395-08HC

Special options, add the appropriate letter or number5 μ m filter element

for C.42 to C.80

C...-0..G.

for C.95

C..95-0..G.

0...12 bar pressure range

for C.42 to C.80

C...-0...D

for C.95

C..95-0...D

automatic drain

C400200130

for all devices

C...-0...R

semiautomatic oil refilling

P_{min.} 3 bar

for C.42 bis C.80

C...-0...X65

oil level indicator

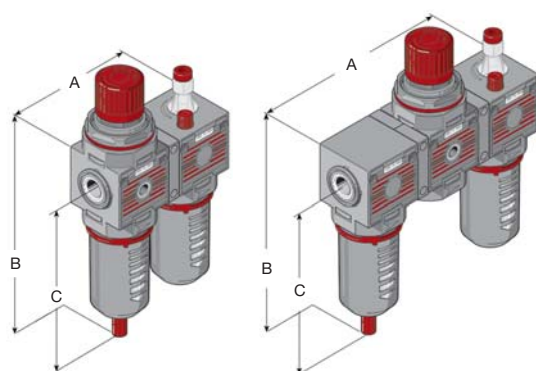
P_{max.} 7 bar max. 115 V / NO

for all devices

C...-0...X66

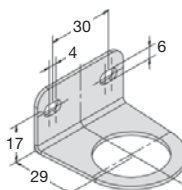
Accessories, enclosed

mounting bracket	made of steel, mounting nut at the device	for C.42	BW30-01
		for C.50 to C.80	BW42-01
mounting bracket set	made of steel, mounting nut at the device	for C.95	BW00-02

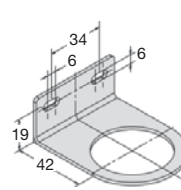


C2

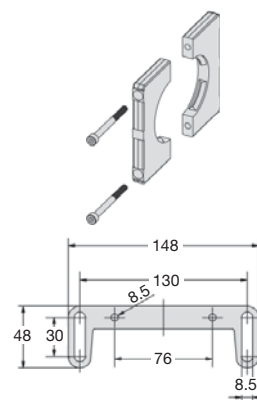
C3



BW30-01



BW42-01



BW00-02

*1 at 10 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
 *2 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar

Further details: see chapter for single devices
Spare parts: see separate spare parts list

PDF CAD
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Order example:
C242-02HC

Manual switch-on

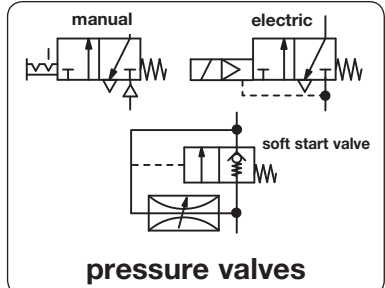
Manual switch-on/off valve which relieves at switch-off. Tapped exhaust with connection thread G $\frac{1}{8}$ or valve G $\frac{1}{4}$. Valve can be protected from unauthorised tampering by provided padlock. Wall mounting is possible through two drilled holes in the body. Maximum supply pressure is 15 bar.

Electric switch-on valve

The electrically-operated 3-port/2-way valve switches the air flow on or off. As standard, it is supplied with a miniature valve or alternatively with a CNOMO valve and can be operated purely in a pneumatic way as option. Wall mounting is possible through two drilled holes in the body. Tapped exhaust with connection thread G $\frac{1}{8}$ or G $\frac{1}{4}$. Maximum supply pressure is 3 to 10 bar.

Soft start valve

The soft start valve slowly pressurizes the system and switches over to full scale operation when 60% of the nominal pressure is reached. The pressure raising period can be set by an adjusting screw on top of the valve. Wall mounting is possible through two drilled holes in the body. Maximum supply pressure is 3 to 10 bar.



Dimensions			Description	Exhaust port	Flow rate		Connection thread	Order number
A	B	C			m ³ /h*1	l/min*1		
mm	mm	mm		G			G	

Manual 3-port/2-way valve

supply pressure max. 15 bar, including padlock

V0

42	110	45	manual switch-on	G $\frac{1}{8}$	96	1600	G $\frac{1}{4}$	V042-02
63	121	36	and switch-off of the	G $\frac{1}{4}$	156	2600	G $\frac{3}{8}$	V050-03
63	121	36	compressed air circuit	G $\frac{1}{4}$	162	2700	G $\frac{1}{2}$	V052-04
75	138	42		G $\frac{1}{4}$	186	3100	G $\frac{1}{2}$	V075-04
137	138	42		G $\frac{1}{4}$	192	3200	G $\frac{3}{4}$	V080-06

Electric 3-port/2-way valve

24 V DC, 2 W, supply pressure 3...10 bar

S0

42	143	42	electric switch-on	G $\frac{1}{8}$	96	1600	G $\frac{1}{4}$	S042-02
63	145	52	and switch-off of the	G $\frac{1}{4}$	156	2600	G $\frac{3}{8}$	S050-03
63	145	52	compressed air circuit	G $\frac{1}{4}$	162	2700	G $\frac{1}{2}$	S052-04
75	154	63		G $\frac{1}{4}$	186	3100	G $\frac{1}{2}$	S075-04
137	154	63		G $\frac{1}{4}$	192	3200	G $\frac{3}{4}$	S080-06

Soft start valve

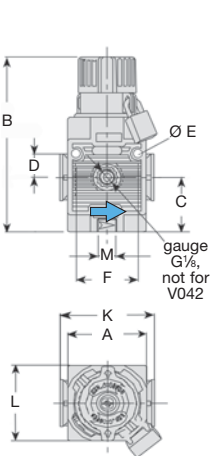
supply pressure 3...10 bar

A0

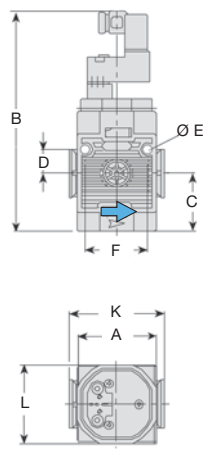
42	105	42	slow pressurizing of the		96	1600	G $\frac{1}{4}$	A042-02
63	108	52	pneumatic plant,		156	2600	G $\frac{3}{8}$	A050-03
63	108	52	delay time adjustable		162	2700	G $\frac{1}{2}$	A052-04
75	117	63			186	3100	G $\frac{1}{2}$	A075-04
137	117	63			192	3200	G $\frac{3}{4}$	A080-06

Special options, add the appropriate letter

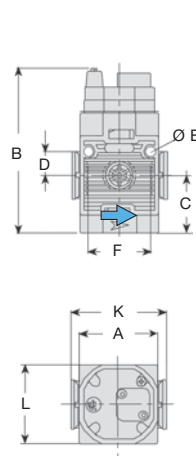
24 V AC, 2 W	input supply voltage	for S0	S0...-0.X
115 V AC, 1 W	input supply voltage	for S0	S0...-0.Y
230 V AC, 1 W	input supply voltage	for S0	S0...-0.Z
pneumatic control	C402600014, instead of electrical operation	for S0	S0...-0.P



V0
manual switch-on valve



S0
electric switch-on valve



A0
soft start valve



V0
manual switch-on valve



S0
electric switch-on valve

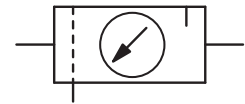


A0
soft start valve

Series	D	Ø E	F	K	L
042	10.5	4.5	31	—	42
050/052	16	5.5	41	63	52
075/080	17.5	5.5	45	75	63

*1 at 10 bar supply pressure and 1 bar pressure drop

Description	FRL service unit of small design and high flow. Equipped with pressure gauge.
Media	compressed air or non-corrosive gases
Supply pressure	max. 11 bar for plastic bowl max. 17 bar for metal bowl with sight glass
Adjustment	by plastic knob with snap-lock at C10, by T-handle with locknut at C11
Relieving function	relieving, optionally non-relieving
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
Filter element	40 μ m, optionally 5 μ m, made of polypropylene
Bowl	plastic version with or without bowl guard, metal version with sight glass, optionally without
Drainage	manual drain as standard for max. 21 bar, automatic or semiautomatic drain as option for max. 12 bar
Temperature range	0 °C to 50 °C / 32 °F to 122 °F for plastic bowl and automatic or semiautomatic drain version 0 °C to 70 °C / 32 °F to 158 °F for metal bowl with sight glass
Material	Body: zinc die-cast Elastomer: NBR/Buna-N Spring cage: glass fibre-reinforced plastic at C10, zinc die-cast at C11 Bowl: zinc die-cast or plastic Inner valve: brass



G $\frac{1}{4}$ up to G $\frac{1}{2}$

Dimensions			Combination consisting of	Bowl design made of / with	Flow rate		Connection thread	Order number
A	B	C			m 3 /h*1	l/min*1		
mm	mm	mm					G	

FRL unit, 2-part

P $_1$: max. 17 bar, P $_2$: 0.3...9 bar, 40 μ m, manual drain, relieving, with pressure gauge

C10

176	235	146	B11+L606	metal/sight glass	66	1 100	G $\frac{1}{4}$	C10-02BL-W
					114	1 900	G $\frac{3}{8}$	C10-03BL-W
					132	2 200	G $\frac{1}{2}$	C10-04BL-W

FRL unit, 3-part

P $_1$: max. 11/17 bar, P $_2$: 0.3...9 bar, 40 μ m, manual drain, relieving, with pressure gauge

C10

206	185	146	F602+R10+L606	plastic	66	1 100	G $\frac{1}{4}$	C10-02FRL-A
				plastic/bowl guard				C10-02FRL-B
				metal/sight glass				C10-02FRL-W
206	185	146	F602+R10+L606	plastic	102	1 700	G $\frac{3}{8}$	C10-03FRL-A
				plastic/bowl guard.				C10-03FRL-B
				metal/sight glass				C10-03FRL-W
206	185	146	F602+R10+L606	plastic	138	2 300	G $\frac{1}{2}$	C10-04FRL-A
				plastic/bowl guard				C10-04FRL-B
				metal/sight glass				C10-04FRL-W

Special options, add the appropriate letter

T-handle	including locknut	C11-0.....
5 μ m filter element		C10-0.....G
NPT	connection thread	C10-0.....N
0.2... 4 bar pressure range		C10-0.....B
0.5...17 bar pressure range		C10-0.....D
semiautomatic drain	RK500SY, max. 12 bar	C10-0.....M
automatic drain	SA605MD, max. 12 bar	C10-0.....R

Accessories

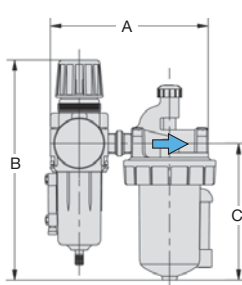
mounting bracket	made of steel	BW45-02
mounting nut	made of plastic	M45x1,5K
	made of aluminium	M45x1,5A



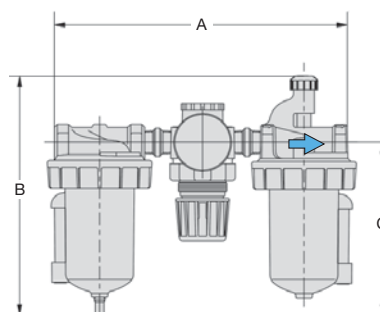
C10-04BL-W



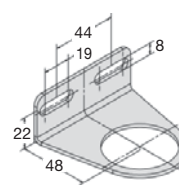
C10-04FRL-W



C10-0.BL



C10-0.FRL



BW45-02



RK500SY



SA605MD

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

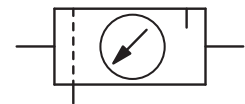
Further details: see chapter for single devices
Spare parts: see separate spare parts list

PDF CAD
www.aircom.net



Order example:
C10-02BL-W

Description	FRL unit of small and light design, ideal for limited space conditions. Equipped with pressure gauge. The instruments are connected to one another by means of double nipples.	
Media	compressed air or non-corrosive gases	
Supply pressure	max. 11 bar for plastic bowl max. 21 bar for metal bowl	
Adjustment	by plastic knob with snap-lock	
Relieving function	relieving, optionally non-relieving	
Gauge port	G $\frac{1}{8}$ on both sides of the body, one screw plug supplied	
Filter element	20 μ m, optionally 5 μ m, made of polypropylene	
Bowl	plastic or metal version	
Drainage	manual drain as standard for max. 21 bar, semiautomatic drain as option for max. 12 bar	
Temperature range	0 °C to 50 °C / 32 °F to 122 °F for plastic bowl and semiautomatic drain version 0 °C to 80 °C / 32 °F to 176 °F for metal bowl and spring cage of fibreglass	
Material	Body: aluminium	Elastomer: NBR/Buna-N
	Spring cage: glass fibre-reinforced plastic	Inner valve: brass
	Bowl: polyurethane or zinc die-cast	



G $\frac{1}{8}$ and G $\frac{1}{4}$

Dimensions			Combination consisting of	Bowl design made of	Flow rate		Connection thread	Order number
A	B	C			m ³ /h*1	l/min*1		
mm	mm	mm					G	

FRL unit, 2-part

P₁: max. 11 / 21 bar, P₂: 0.3...9 bar, 20 μ m, manual drain, relieving, with pressure gauge

C500

83	151	89	B548+L508	plastic	16	260	G $\frac{1}{8}$	C500-01BL-A
				metal				C500-01BL-D
83	151	89	B548+L508	plastic	20	320	G $\frac{1}{4}$	C500-02BL-A
				metal				C500-02BL-D

FRL unit, 3-part

P₁: max. 11 / 21 bar, P₂: 0.3...9 bar, 20 μ m, manual drain, relieving, with pressure gauge

C500

123	151	89	B504+R374+L508	plastic	16	260	G $\frac{1}{8}$	C500-01FRL-A
				metal				C500-01FRL-D
123	151	89	B504+R374+L508	plastic	20	320	G $\frac{1}{4}$	C500-02FRL-A
				metal				C500-02FRL-D



C500-02BL-A

Special options, add the appropriate letter

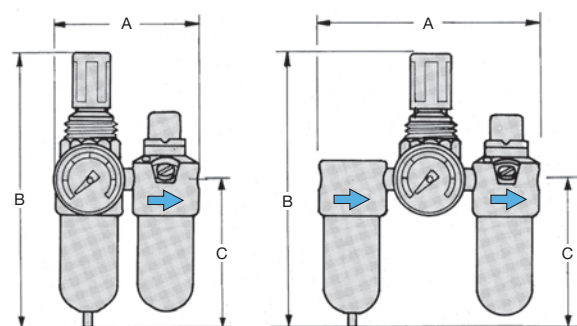
5 μ m filter element	C500-0....-G
0.2...4 bar pressure range	C500-0....-B
semiautomatic drain	RK500SY, max. 12 bar
	C500-0....-M

Accessories

mounting bracket	made of steel	BW30-02
mounting nut	made of plastic	M30x1,5K
	made of aluminium	M30x1,5A

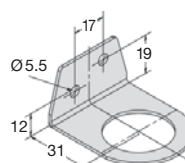


C500-02FRL-A



C500-0.BL

C500-0.FRL



BW30-02



RK500SY

*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

Further details: see chapter for single devices
Spare parts: see separate spare parts list

PDF CAD
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Order example:
C500-01BL-A

FRL-
units



19

General

These valves increase the security of the machine operator and extend the machine's service life. The minimum operating pressure is 2 bar. Maximum operating pressure is 21 bar for the pneumatic and 10 bar for the electrical valve. Temperature range runs from 0 °C to 50 °C / 32 °F to 122 °F.

Pneumatic soft start valve

When connecting the air supply with the valve, the system is slowly filled with compressed air by an adjustable restrictor. The valve switches over to full scale operation when approx. 60% of the nominal pressure is reached. The pressure raising period can be set by adjusting the restrictor. Note: The valve is not suitable for exhausting the system.

Electric soft start valve

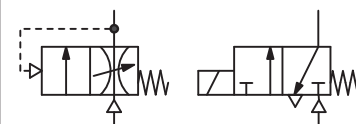
As with the pneumatic soft start valve, the system is slowly filled with compressed air by an adjustable restrictor. However, switching over to full scale operation is carried out by the electrical switching valve, which receives the signal by an external pressure switch, for instance.

Electric 3-port/2-way valve

The electrically-operated 3-port/2-way valve is normally closed and directly controlled. It is capable of quickly pressurising and depressurising the system. The valve has a tapped exhaust.

Soft start switch-on/off valve

By the soft start switch-on/off valve the system is slowly filled with compressed air. Full scale pressurising or depressurising is achieved by the electric 3-port/2-way valve. The valve has a tapped exhaust.



G³/₈ up to G³/₄

Description

for series	K _v value (m ³ /h)	Flow rate m ³ /h*1 l/min*1	Connection thread G	Order number
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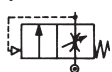
Soft start and switching valve

24 V DC

S / SC / SSA

pneumatic soft start valve

75	3.0	210	3500	G ³ / ₈	SSA 75-03
	3.4	240	4000	G ¹ / ₂	SSA 75-04
105	6.1	432	7200	G ¹ / ₂	SSA105-04
	7.2	510	8500	G ³ / ₄	SSA105-06



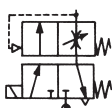
electric switching valve

75	3.0	210	3500	G ³ / ₈	S 75-03M
	3.4	240	4000	G ¹ / ₂	S 75-04M
105	5.6	432	6600	G ¹ / ₂	S105-04M
	7.2	510	8500	G ³ / ₄	S105-06M



soft start and switching valve

75	3.0	210	3500	G ³ / ₈	SC 75-03M
	3.4	240	4000	G ¹ / ₂	SC 75-04M
105	5.6	432	6600	G ¹ / ₂	SC105-04M
	7.2	510	8500	G ³ / ₄	SC105-06M



Special options, add the appropriate letter

control voltage 230 V, 50 Hz

S Y

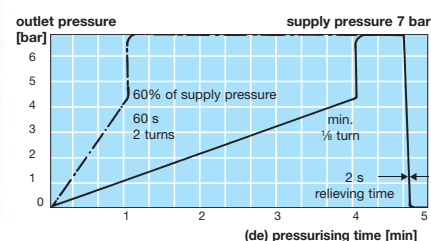
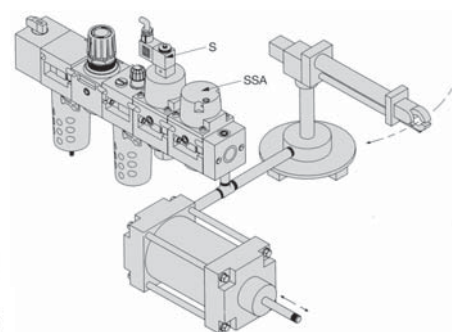
Series	A	B (SSA)	B (S/SC)	C (SSA)	C (SSC)	D	E	ØF
75	56	120	203	38	56	18	42	5.5
105	77	133	218	47	67	21	64	6.5



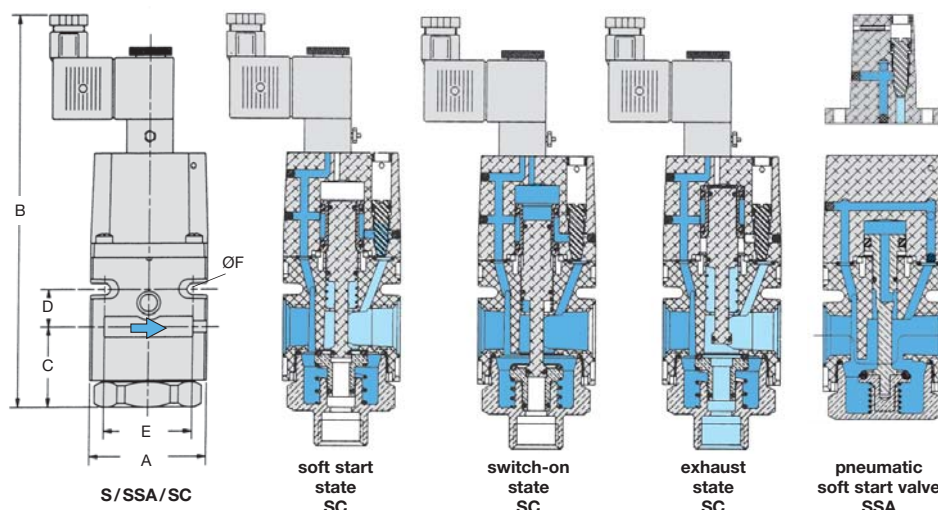
SSA



SC



typical pressurising and depressurising curve of the soft start switch-on/off combination at 10 l filling volume



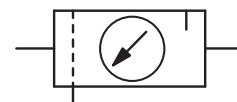
*1 at 7 bar supply pressure and 1 bar pressure drop

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www.aircom.net



Order example:
SSA75-03

Description	Modular cube FRL service unit of modern design. Equipped with pressure gauge.			
Media	compressed air or non-corrosive gases			
Supply pressure	max. 11 bar for plastic bowl, max. 17 bar for metal bowl with sight glass			
Adjustment	by plastic knob with snap-lock			
Relieving function	relieving, optionally non-relieving			
Gauge port	G½ at C35 and C75, G¼ at C105, on both sides of the body, one screw plug supplied			
Filter element	20 µm or 40 µm, optionally 5 µm or 20 µm, made of polypropylene			
Bowl	plastic version with or without bowl guard,		metal version with or without all-around sight glass	
Drainage	manual drain as standard for max. 21 bar,		automatic or semiautomatic drain as option for max. 12 bar	
Temperature range	0 °C to 50 °C / 32 °F to 122 °F for plastic bowl and automatic or semiautomatic drain version 0 °C to 70 °C / 32 °F to 158 °F for metal bowl with sight glass			
Material	Body:	zinc die-cast at C35 and C75,	aluminium at C105	
	Elastomer:	NBR/Buna-N	Spring cage:	glass fibre-reinforced plastic
	Inner valve:	brass	Bowl:	polyurethane or zinc die-cast



G $\frac{1}{8}$ up to G $\frac{3}{4}$

Dimensions			Combination consisting of	Bowl design made of / with	Filter element μ m	Flow rate		Connection thread G	Order number
A	B	C				m 3 /h*1	l/min*1		
mm	mm	mm							

FRL unit, 2-part

P $_1$: max. 11 / 17 bar, P $_2$: 0.3...9 bar, 20 / 40 μ m, manual drain, relieving, with pressure gauge

C35 / C75 / C105

81	178	108	B+L35	plastic	20	51	850	G $\frac{1}{8}$	C 35-01BL-A
				metal/sight glass					C 35-01BL-W
				plastic		60	1000	G $\frac{1}{4}$	C 35-02BL-A
				metal/sight glass					C 35-02BL-W
112	208	138	B+L75	plastic	40	102	1700	G $\frac{3}{8}$	C 75-03BL-A
				metal/sight glass					C 75-03BL-W
				plastic		114	1900	G $\frac{1}{2}$	C 75-04BL-A
				metal/sight glass					C 75-04BL-W
136	262	169	B+L105	plastic	40	222	3700	G $\frac{1}{2}$	C105-04BL-A
				metal/sight glass					C105-04BL-W
				plastic		246	4100	G $\frac{3}{4}$	C105-06BL-A
				metal/sight glass					C105-06BL-W



C75-03BL-A
with plastic bowl

FRL unit, 3-part

P $_1$: max. 11 / 17 bar, P $_2$: 0.3...9 bar, 20 / 40 μ m, manual drain, relieving, with pressure gauge

C35 / C75 / C105

122	178	108	F+R+L35	plastic	20	51	850	G $\frac{1}{8}$	C 35-01FRL-A
				metal/sight glass					C 35-01FRL-W
				plastic		60	1000	G $\frac{1}{4}$	C 35-02FRL-A
				metal/sight glass					C 35-02FRL-W
168	208	138	F+R+L75	plastic	40	102	1700	G $\frac{3}{8}$	C 75-03FRL-A
				metal/sight glass					C 75-03FRL-W
				plastic		114	1900	G $\frac{1}{2}$	C 75-04FRL-A
				metal/sight glass					C 75-04FRL-W
204	262	169	F+R+L105	plastic	40	222	3700	G $\frac{1}{2}$	C105-04FRL-A
				metal/sight glass					C105-04FRL-W
				plastic		246	4100	G $\frac{3}{4}$	C105-06FRL-A
				metal/sight glass					C105-06FRL-W



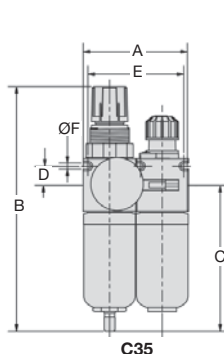
C75-03FRL-W
with all-around sight glass

Special options, add the appropriate letter

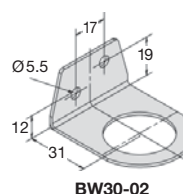
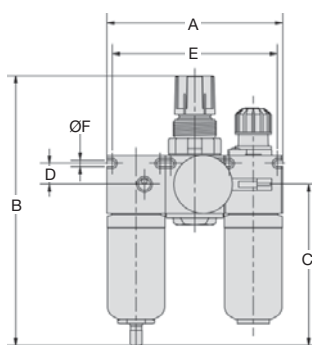
5 μ m filter element				C...-0...-G
semiautomatic drain	PKF35, piston drain,	max. 12 bar	for C35	C 35-0...-S
	RK500SY, spring-loaded,	max. 12 bar	for all	C...-0...-M
automatic drain	SA605MD,	max. 12 bar	for C75/C105	C...-0...-R

Accessories

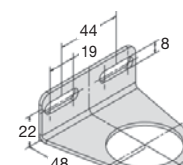
mount. bracket at spring cage	for C35/C75	BW30-02	for C105	BW45-02
aluminium nut	for C35/C75	M30x1,5A	for C105	M45x1,5A
mounting bracket, at the side	for C35	BW00-03	for C75	BW00-04
			for C105	BW00-05



C35



BW30-02



BW45-02



RK500SY

SA605MD



PKF35

2-part	D	E	Ø F
C 35	14	73	4.5
C 75	18	98	5.5
C105	20	126	6.5

3-part	D	E	Ø F
C 35	14	113	4.5
C 75	18	154	5.5
C105	20	194	6.5

*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

Further details: see chapter for single devices
Spare parts: see separate spare parts list

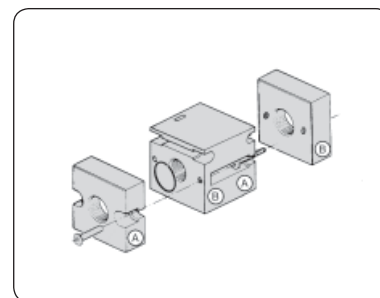
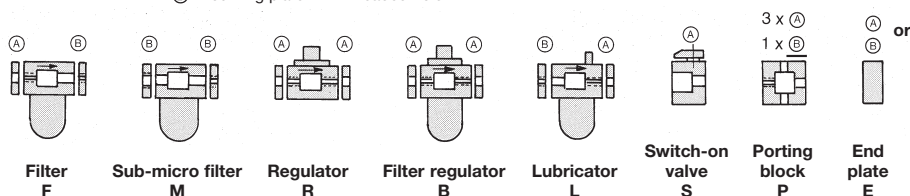
PDF CAD
www.aircom.net



Order example:
C35-01BL-A

Description

Devices, end plates and branch plates are connected in such a way that a connection flange with through hole (A) is connected with a threaded hole flange (B).
 (A): mounting plate with through hole
 (B): mounting plate with threaded hole



Dimensions			Series	Connection thread	Order number	Order number	Order number
A	B	C					
mm	mm	mm		G			

End plate

with o-rings and screws,
for bigger or smaller size of connection thread

PK

				end plate (A)			end plate (B)			end plate (A) and (B)		
				for R, FR or WE			between F-S and F-Ö			for F or Ö		
40	40	16	35	G $\frac{1}{8}$	PK3520-01		PK3540-01			PK3510-01		
				G $\frac{1}{4}$	PK3520-02		PK3540-02			PK3510-02		
				G $\frac{3}{8}$	PK3520-03		PK3540-03			PK3510-03		
51	51	16	75	G $\frac{1}{4}$	PK7520-02		PK7540-02			PK7510-02		
				G $\frac{3}{8}$	PK7520-03		PK7540-03			PK7510-03		
				G $\frac{1}{2}$	PK7520-04		PK7540-04			PK7510-04		
68	68	26	105	G $\frac{3}{8}$	PK1052-03		PK1054-03			PK1051-03		
				G $\frac{1}{2}$	PK1052-04		PK1054-04			PK1051-04		
				G $\frac{3}{4}$	PK1052-06		PK1054-06			PK1051-06		



PK7520



PK7540

Direction plate

enables - FRL unit mounting shifted by 90°
- combination of FRL units with different sizes

DP

				complete with o-rings and screws (A) and (B)		DP 35	
5	40	40	35			DP 75	
8	51	51	75			DP 105	
9	68	68	105				



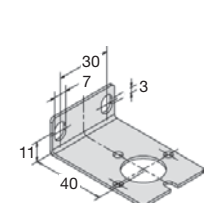
DP75

Accessories

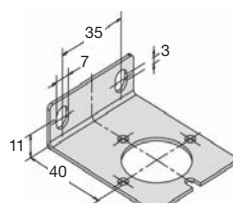
mounting bracket 35
75
105

for side mounting

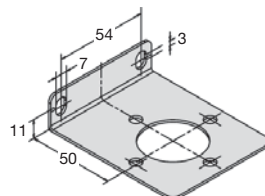
BW00-03
BW00-04
BW00-05



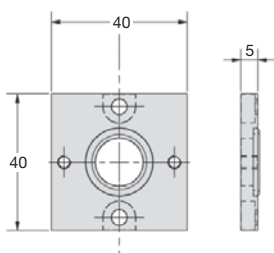
BW00-03



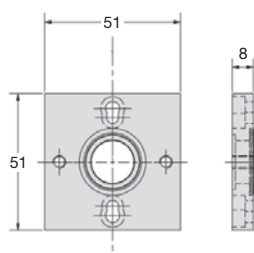
BW00-04



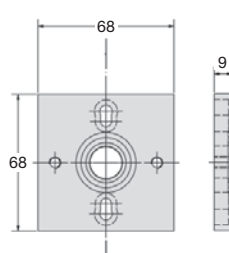
BW00-05



DP35
direction plate



DP75
direction plate



DP105
direction plate

FRL-
units

19

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Order example:
PK3520-01

Description	Combination of FRL service units by means of switch-on valves, porting blocks and branch plates as well as end plates and direction plates.
Switch-on valve	3-port/2-way ball valve with full orifice size, lockable by padlock, brass ball mounted in PTFE surrounding.
Porting block	Further devices or pressure outlet ports can be mounted on the porting block. The full nominal size remains.
Branch plate	provides tap for unlubricated compressed air
End plate	All FRL units are equipped with connection threads. End plates are needed to... – enlarge or reduce the thread on the FRL unit – permit easier removal of the FRL unit from fixed piping.
Direction plate	enables – FRL unit mounting shifted by 90° – combination of FRL units with different sizes
Mounting bracket	For side mounting on devices with threaded holes. Two mounting brackets are necessary for one FRL unit. Alternatively, an FRL unit can either be directly mounted via the threaded holes or by the means of a mounting bracket at the pressure regulator.



G¹/₈ up to G³/₄

Dimensions	Series	Assembly	Mounting	Connection thread	Order
A B C			side	Tap Inlet or outlet	number
mm mm mm					

Switch-on valve with exhaust, lockable by padlock AKV / SV

40	61	40	35	G ¹ / ₈	AKV35-01
				G ¹ / ₄	AKV35-02
				G ³ / ₈	AKV35-03
51	68	41	75	G ¹ / ₄	SV 75-02
				G ³ / ₈	SV 75-03
				G ¹ / ₂	SV 75-04
68	84	55	105	G ¹ / ₂	SV105-04
				G ³ / ₄	SV105-06



SV75

Porting block for pressure tap or for mounting additional regulators DK

49	40	40	35	(A) and (B)	G ¹ / ₄	G ³ / ₈	DK3510-3-2
51	51	51	75		G ¹ / ₄	Bohrung	DK7510
					G ¹ / ₄	G ³ / ₈	DK7510-3-2
70	68	68	105		G ¹ / ₂	G ³ / ₄	DK1051-6-4



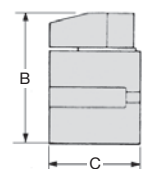
DK7510

Branch plate with connection thread at the top and at the bottom BB / PK

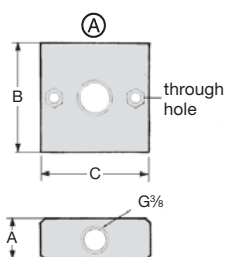
23	40	40	35	as end plate or between F-R or R-Ö (A)	G ¹ / ₈	G ¹ / ₈	BB35-1-1
					G ¹ / ₈	G ¹ / ₄	BB35-2-1
24	51	51	75	als Endplatte oder between F-R or R-Ö (A)	G ¹ / ₈	G ¹ / ₄	BB75-2-1
					G ¹ / ₈	G ³ / ₈	BB75-3-1
26	68	68	105	between F-R or R-Ö (A)	G ³ / ₈	borehole	PK1054
				F-R or Ö-E			
				between F-S or F-Ö (B)	G ³ / ₈	borehole	PK1055
				between F-S, if regulator or filter regulator follows (A)	G ³ / ₈	borehole	PK1056



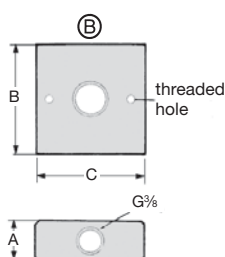
BB75-3-1



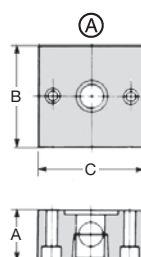
AKV/SV
switch-on valve



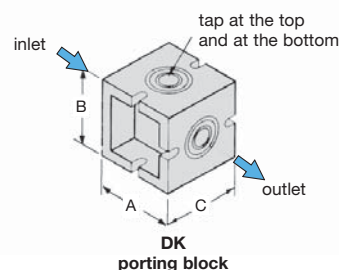
PK1054, PK1056
with groove for o-ring



PK1055
branch plate

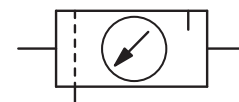


BB
branch plate



DK
porting block

Description	Solid, low-cost FRL service unit made of zinc die-cast equipped with pressure gauge. Wall mounting is possible through two drilled holes in the body.		
Media	compressed air or non-corrosive gases		
Supply pressure	max. 12 bar for plastic bowl, max. 16 bar for metal bowl with sight glass, max. 30 bar for metal bowl without sight glass		
Adjustment	by plastic knob with snap-lock up to G $\frac{1}{2}$ by handwheel from G $\frac{3}{4}$ to G1 $\frac{1}{2}$ (CD.-1A.) by T-handle from G1 $\frac{1}{2}$ (CD.-12.) on		
Gauge port	G $\frac{1}{4}$ or G $\frac{1}{2}$ at CD.-01/-02, on both sides of the body, one screw plug supplied		
Filter element	20 μ m or 50 μ m, optionally 5 μ m or 50 μ m, made of propylene		
Bowl	plastic or metal version with or without sight glass		
Drainage	semiautomatic drain as standard, optionally automatic (max. 16 bar) or manual drain for max. 30 bar		
Temperature range	0 °C to 50 °C / 32 °F to 122 °F for plastic bowl or (semi)automatic drain version 0 °C to 70 °C / 32 °F to 158 °F for metal bowl with sight glass 0 °C to 80 °C / 32 °F to 176 °F for metal bowl without sight glass		
Material	Body: zinc die-cast at G $\frac{1}{2}$ to G $\frac{3}{4}$, aluminium at sizes G $\frac{3}{4}$ to G2	Inner valve: brass Bowl: polyurethane or zinc die-cast	Elastomer: NBR/Buna-N



G $\frac{1}{8}$ up to G2

Dimensions			Combination consisting of	Bowl design made of / with	Filter element	Flow rate		Connection thread	Order number
A	B	C				m ³ /h*	l/min*		
mm	mm	mm						G	

FRL unit, 2-part

P₁: max. 12 / 16 bar, P₂: 0.8...8 bar, 20 / 50 μ m, semiautomatic drain, relieving, with gauge

CD2

80	198	125	BD +LD	plastic metal/sight glass	20	26	430	G $\frac{1}{8}$	CD2-01L CD2-01 CD2-02L CD2-02
				plastic metal/sight glass	20	26	430	G $\frac{1}{4}$	CD2-03 CD2-04 CD2-06 CD2-08
128	250	146		metal/sight glass	50	102	1700	G $\frac{3}{8}$ G $\frac{1}{2}$	CD2-10 CD2-1A CD2-12 CD2-16
208	323	180		metal/sight glass	50	288	4800	G $\frac{3}{4}$ G1	
240	282	172		metal/sight glass	50	372	6200	G1 $\frac{1}{4}$ G1 $\frac{1}{2}$	
360	487	232		metal/sight glass	50	900	15000	G1 $\frac{1}{2}$ G2	



CD2-02L



CD2-04

FRL unit, 3-part

P₁: max. 12 / 16 bar, P₂: 0.8...8 bar, 20 / 50 μ m, semiautomatic drain, relieving, with gauge

CD3

120	198	125	FD +RD +LD	plastic metal/sight glass	20	26	430	G $\frac{1}{8}$	CD3-01L CD3-01 CD3-02L CD3-02
				plastic metal/sight glass	20	26	430	G $\frac{1}{4}$	CD3-03 CD3-04 CD3-06 CD3-08
192	250	146		metal/sight glass	50	102	1700	G $\frac{3}{8}$ G $\frac{1}{2}$	CD3-10 CD3-1A CD3-12 CD3-16
312	340	180		metal/sight glass	50	288	4800	G $\frac{3}{4}$ G1	
330	260	172		metal/sight glass	50	372	6200	G1 $\frac{1}{4}$ G1 $\frac{1}{2}$	
500	385	255		metal/sight glass	50	900	15000	G1 $\frac{1}{2}$ G2	



CD2-08



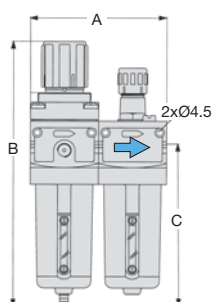
CD3-16

Special options, add the appropriate letter

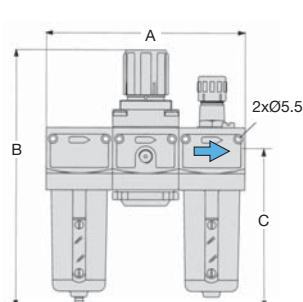
5 μ m filter element	for G $\frac{1}{8}$ to G2	CDG
0.3...3 bar pressure range		CDB
1...15 bar		CDE
operating pressure 30 bar	only for metal bowl (without sight glass) with manual drain	CDNH
manual drain	max. 16 bar	CDH
automatic drain	drainage by float valve, max. 16 bar	CDR

Accessories

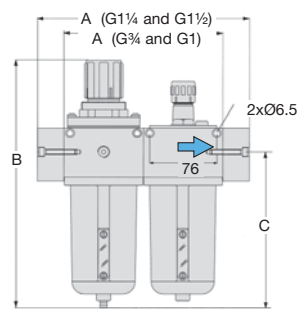
mounting bracket	made of steel	for G $\frac{1}{8}$ and G $\frac{1}{4}$	BW30-02
mounting nut	made of plastic	for G $\frac{1}{8}$ and G $\frac{1}{4}$	M30x1,5K
mounting bracket	made of steel	for G $\frac{3}{8}$ and G $\frac{1}{2}$	BW50-03
mounting nut	made of plastic	for G $\frac{3}{8}$ and G $\frac{1}{2}$	M50x1,5K
mounting bracket	made of steel	for G $\frac{3}{4}$ to G1 $\frac{1}{2}$ (CD.-1A.)	BW00-06



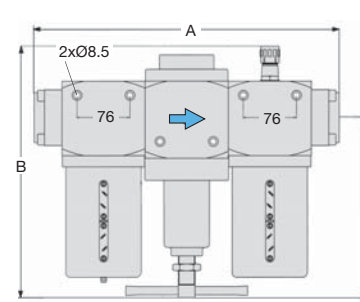
CD2-01...-04



CD3-01...-04



CD2-10...-12



CD3-16

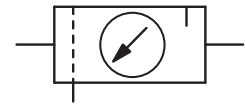
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

Further details: see chapter for single devices
Spare parts: see separate spare parts list

PDF CAD
www.aircom.net

Order example:
CD02-01L

Description	"Maxi" FRL service units with pressure gauge are of modular design with exchangeable insert kits and have a high flow rate. All "maxi" instruments are easy to take out of fixed piping by simply removing the two fastening bolts on the insert kits.	
Media	compressed air or non-corrosive gases	
Supply pressure	max. 17 bar	
Adjustment	by plastic knob with snap-lock at C20,	by T-handle with locknut at C21
Relieving function	relieving, optionally non-relieving	
Gauge port	G $\frac{1}{4}$ on both sides of the body	Filter element 40 μ m, optionally 5 μ m, made of polypropylene
Drainage	manual drain as standard,	Bowl metal version with sight glass
Temperature range	0 °C to 70 °C / 32 °F to 158 °F	optionally automatic drain or semiautomatic drain for max. 12 bar
Material	Body: zinc die-cast	Spring cage: zinc die-cast
	Knob (C20): glass fibre-reinforced plastic	T-handle (C21): steel
	Bowl: zinc die-cast	Sight glass: polyurethane
	Elastomer: NBR/Buna-N	Inner valve: brass and plastic



G $\frac{1}{4}$ up to G1

Dimensions			Combination consisting of	Bowl design made of / with	Flow rate		Connection thread	Order number
A	B	C			m ³ /h*1	l/min*1		
mm	mm	mm					G	

FRL unit, 2-part				P ₁ : max. 17 bar, P ₂ : 0.3...9 bar, 40 µm, manual drain, relieving, with pressure gauge			C20	
178	289	175	B+L20	metal /	102	1700	G¼	C20-02BL-W
				sight glass	174	2900	G⅜	C20-03BL-W
					276	4600	G½	C20-04BL-W
203	289	175	B+L20	metal /	390	6500	G¾	C20-06BL-W
				sight glass	402	6700	G1	C20-08BL-W

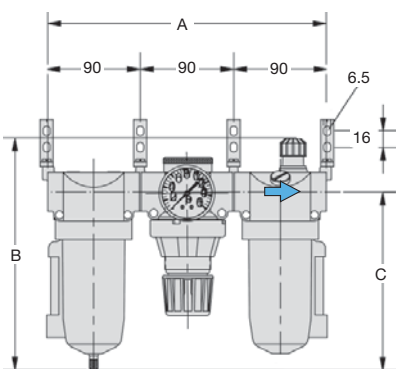
FRL unit, 3-part					P ₁ : max. 17 bar, P ₂ : 0.3...9 bar, 40 µm, manual drain, relieving, with pressure gauge			C20
270	226	171	F+R+L20	metal /	102	1700	G¼	C20-02FRL-W
				sight glass	174	2900	G⅜	C20-03FRL-W
					276	4600	G½	C20-04FRL-W
292	226	171	F+R+L20	metal /	390	6500	G¾	C20-06FRL-W
				sight glass	402	6700	G1	C20-08FRL-W

Special options, add the appropriate letter

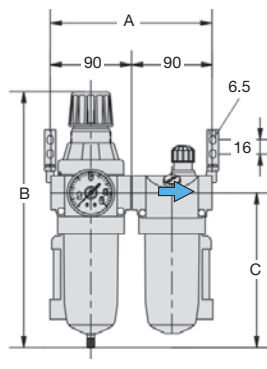
T-handle	including locknut	C21-0 . . . -W
5 μ m filter element		C20-0 . . . -WG
NPT	connection thread	C20-0 . . . -WN
0.2... 4 bar pressure range		C20-0 . . . -WB
0.5...17 bar pressure range		C20-0 . . . -WD
semiautomatic drain	RK500SY, max. 12 bar	C20-0 . . . -WM
automatic drain	SA605MD, max. 12 bar	C20-0 . . . -WR

Accessories

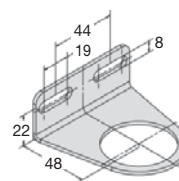
mounting bracket	mounting at the spring cage	BW45-02
mounting nut	made of aluminium	M45x1,5A
mounting bracket set	made of steel, consisting of two mounting brackets	MK20-0100
porting block	tap G $\frac{1}{4}$, for unlubricated compressed air	IK20CP
switch-on valve	lockable 3-port/2-way valve	IK20V



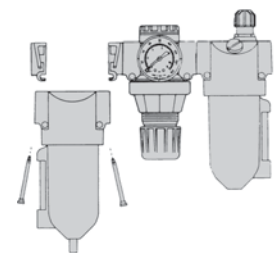
C20- . . FRL mit MK20-0100



C20- . . BL mit MK20-0100



BW45-02



dismantling from fixed piping

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

Further details: see chapter for single devices
Spare parts: see separate spare parts list

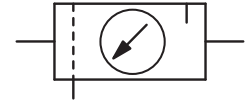
PDF CAD
www.aircom.net

Order example:
C20-02BL-W

FRL-
units

19

Description	Extremely robust FRL service unit made of brass.
Media	compressed air, non-corrosive gases or liquids
Supply pressure	max. 50 bar at CM2, max. 30 bar at CM3, optionally max. 50 bar (all without drain)
Adjustment	by black plastic knob at CM-01, by T-handle with locknut at CM-02 to CM-16
Gauge port	G¼ or G½ at CM-01, on both sides of the body, one screw plug supplied
Filter element	50 µm, optionally 5 µm, made of stainless steel
Bowl	stainless steel version without sight glass at G½ to G1, brass version without sight glass at G1½ and G2
Drainage	screw plug as standard, optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar)
Temperature range	0 °C to 80 °C / 32 °F to 176 °F FKM or EPDM 0 °C to 130 °C / 32 °F to 212 °F high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F, or low temperature version down to -40 °C / -40 °F
Material	Body: brass Bowl: stainless steel 316L / 1.4404 at G½ to G1, brass at G1½ and G2 Elastomer: FKM optionally EPDM Knob: plastic at sizes G½ and G¼, brass at G½ to G2 Inner valve: brass and plastic (not at option X54)



**G¼ to G2, max. 50 bar
-40 to 130 °C / -40 to 266 °F**

Dimensions			Combination consisting of	Bowl design made of	Flow rate		Connection thread G	Order number
A	B	C			m³/h*1	l/min*1		
mm	mm	mm						

FRL unit, 2-part

P1: max. 50 bar, screw plug, relieving, with pressure gauge

CM2

90	150	80	BM+LM	brass	33	550	G¼	CM2-01
138	220	123		stainless steel	51	850	G¼	CM2-02
168	247	127			138	2 300	G½	CM2-04
198	295	168			342	5 700	G¾	CM2-06
198	295	168			342	5 700	G1	CM2-08
378	470	224			690	11 500	G1½	CM2-12
378	470	224			690	11 500	G2	CM2-B6

FRL unit, 3-part

P1: max. 30 bar, screw plug, relieving, with pressure gauge

CM3

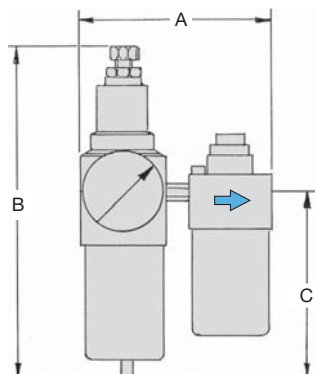
212	173	129	FM+R120+LM	stainless steel	51	850	G¼	CM3-02
256	175	130			138	2 300	G½	CM3-04
314	294	228			342	5 700	G¾	CM3-06
314	294	228			342	5 700	G1	CM3-08
548	385	257			690	11 500	G1½	CM3-12
548	385	257			690	11 500	G2	CM3-B6

Special options, add the appropriate letter

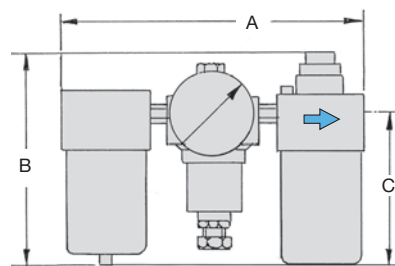
5 µm filter element		for G¼ and G¾	CM . . . G
		for G1	CM . . . G
		for G1½ and G2	CM . . . G
NPT connection thread			CM . . . N
0.2... 3 bar pressure range			CM . . . B
1 ...15 bar pressure range	P1 max. 50 bar		CM . . . D
manual drain	max. 30 bar		CM . . . H
automatic drain	made of stainless steel, max. 16 bar	for G¼ to G2	CM . . . R
down to -40 °C / -40 °F	low temperature version		CM . . . X51
up to 130 °C / 266 °F	high temperature version		CM . . . X54
EPDM elastomer			CM . . . E
flange connection	see chapter for stainless steel devices / flanges		CM . . . F.

Accessories

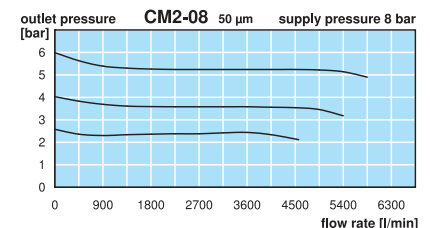
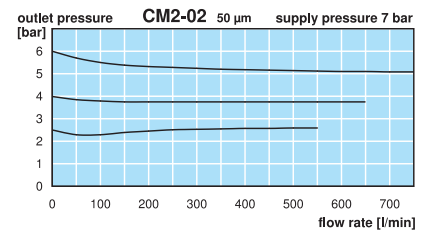
mounting bracket	made of stainless steel	for G¼	BW30-03S
mounting nut			M30x1,5S
mounting bracket	made of stainless steel	for G¼	BW35-01S
mounting nut			M35x1,5S
mounting bracket	made of stainless steel	for G½ to G1	BW50-01S
mounting nut			M50x1,5S



CM2-.H



CM3-.H



*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

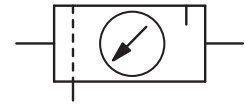
Further details: see chapter for single devices
Spare parts: see separate spare parts list

PDF CAD
www.aircom.net



Order example:
CM2-01

Description	FRL service unit of small size and with high flow. Solid design, proven in operation.				
Media	compressed air, non-corrosive gases or liquids				
Supply pressure	max. 17 bar for metal bowl with sight glass				
Adjustment	by T-handle with locknut,	by plastic knob with snap-lock on pilot regulator at size G2			
Relieving function	relieving, optionally non-relieving	Air consumption only for pilot pressure at size G2			
Gauge port	G¼ on both sides of the body, one screw plug supplied				
Filter element	40 µm, optionally 5 µm, made of polypropylene				
Bowl	metal version with sight glass				
Drainage	manual drain as standard	for max. 21 bar			
	optionally internal automatic drain	for max. 12 / 16 bar			
	or external automatic drain	for max. 18 bar			
Temperature range	0 °C to 70 °C / 32 °F to 158 °F for metal bowl with sight glass				
Material	Body: zinc die-cast	Elastomer:	NBR/Buna-N		
	Bowl: polyurethane, zinc die-cast or steel	Inner valve:	brass		



G¼ up to G2

Dimensions			Combination consisting of	Bowl design made of/with	Flow rate		Connection thread	Order number
A	B	C			m³/h*1	l/min*1		
mm	mm	mm					G	

FRL unit, 3-part

P1: max. 17 bar, P2: 0.3...9 bar, 40 µm, manual drain, relieving, with pressure gauge

C630

400	267	197	F602 + R119, + L606	metal/sight glass	408 516	6800 8600	G¾ G1	C630-06FRL-W C630-08FRL-W
419	286	206		metal/sight glass	600 630	10000 10500	G1¼ G1½	C630-10FRL-W C630-12FRL-W
485	425	356		metal/sight glass	1590	26500	G2	C630-16FRL-W



C630

Special options, add the appropriate letter

5 µm filter element		C630-0 G
NPT connection thread		C630-0 N
0.2... 4 bar pressure range		C630-0 B
0.5...17 bar pressure range		C630-0 D
semiautomatic drain	RK500SY, max. 12 bar	C630-0 M
automatic drain	SA605MD, max. 12 bar	C630-0 R
flange connection	see chapter for stainless steel devices / flanges	C630-0 F



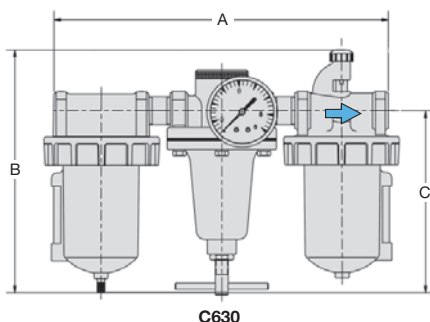
C630-03FRL-W
with metal bowl and sight glass



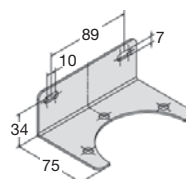
with mounting flange

Accessories

mounting bracket	made of steel	for G¾ to G1½	BW00-24
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C630



BW00-24



RK500SY

SA605MD

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

Further details: see chapter for single devices
Spare parts: see separate spare parts list

PDF CAD
www.aircom.net



Order example:
C630-06FRL-W

FRL-
units



19

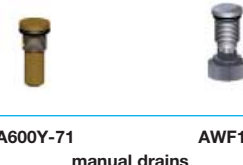
Manual drain	The manual drain can be opened by screwing it into the bowl. Once the collected condensate reaches the drain hole, it is being relieved.
Semiautomatic drain	The semiautomatic drain semiautomatically separates condensates from compressed air or gas systems. After operating pressure switch-off the drain valve opens and the collected condensate is being relieved.
Automatic drain	The automatic drain fully automatically separates condensates from compressed air or gas systems. Once the float lifts from the valve seat caused by the condensate level, the condensate is being relieved. Operating pressure must be 2 bar minimum.
Temperature range	0 °C to 50 °C / 32 °F to 122 °F 0 °C to 80 °C / 32 °F to 176 °F for manual drain made of brass for appropriately conditioned compressed air down to -30 °C / -22 °F



Drain valves

Valve type	Description	For filter/ filter regulator	For bowl type	Operating pressure max. bar	Order number
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Drain valves		1/8"-27 NPSM thread of internal valve			SA/RK
manual drain	made of brass	F20/F35...F105/ F504/F602 / B11/B12/B20/B21/ B35...B105/B548	all	21	SA600Y-71
	made of plastic	F20/F35...F105/ F504/F602/ B11/B12/B20/B21/ B35...B105/B548	all	21	AWF-10
semiautomatic drain drainage after pressure switch-off	piston drain	F504	all	12	RK504SY
		F602-02/-03	A/B/W	12	RK602SY
		B11/B12	all	12	4210
	spring-loaded	F20	all	12	4212
		F35	all	12	PKF35
automatic drain	internal mounting effective from 2 bar on	F20/F35...F105/ F504/F602/ B11/B12/B20/B21/ B35...B105/B548	all	12	RK500SY
		F20/F75/F602/B11/ B12/B20/B21/B75	all, except for W at F105	16	SA605MD
		F20/F105/F602/ B20/B21/B105	W	12	SA702MD
	external mounting	F105/B105	W	12	SAF105MD
		F602-04 to -20 F602-04 to -20	A/B/W E/F	18	SA602D SA603D



SA600Y-71 AWF10
manual drains



RK504SY PKF35
piston drains



RK500SY
semiautomatic drain



SA605MD SAF105MD
internal automatic drains

Drain valves made of SST		1/8"-27 NPSM valve thread			SA
automatic drain	internal mounting effective from 2 bar on	F10/F11/B11-S	all	12	SA10MDSS



SA602D
external automatic drain



SA603D
external automatic drain