

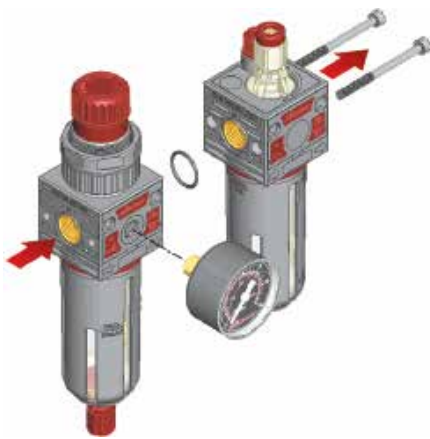
FRL SERVICE UNITS

DESCRIPTION	PRESSURE RANGE bar	CONNECTION	SERIES	PAGE
made of plastic, 2- and 3-part	0 ... 8 / 12	G $\frac{1}{4}$ - G1	C2 / C3	19.03
assembly diagrams C2, C3			C35 ... C95	19.04
switch-on and soft start valve C2, C3		G $\frac{1}{4}$ - G $\frac{3}{4}$	A0 / S0 / V0	19.05
made of brass, 2- and 3-part	0.2 ... 3 / 15	G $\frac{1}{4}$ and G $\frac{1}{2}$	CM	19.06
Stainless steel, 2- and 3-part	0.2 ... 3 / 15	G $\frac{1}{4}$ - G2	C3002, C3003	15.39
„Maxi“-Series, made of metal, robust, 2- and 3-part	0.2 ... 4 / 17	G $\frac{1}{2}$ - G1	C20 / C21	19.07
Series „D“, made of alu, 2-part	0.3 ... 3 / 15	G $\frac{1}{8}$ - G2	CD2	19.08
„Standard“-Series, robust	0.2 ... 4 / 17	G $\frac{3}{4}$ - G1 $\frac{1}{2}$	C630	19.09
hose rupture valves, aluminium/stainless steel	max.18	G $\frac{1}{4}$ - G2	281	19.10



19

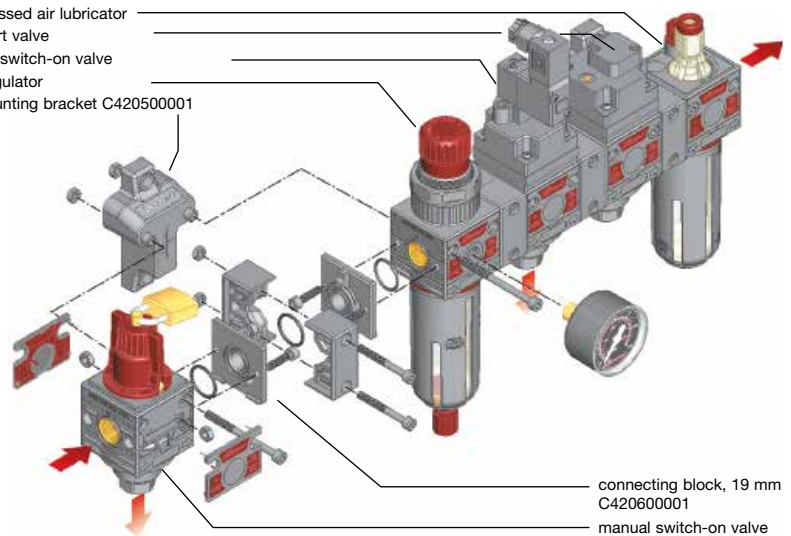
ASSEMBLY DIAGRAMS FOR PLASTIC FRL SERVICE UNITS C2/C3



screw connection of standard FRL service unit with screws, nuts and o-ring
C400500001

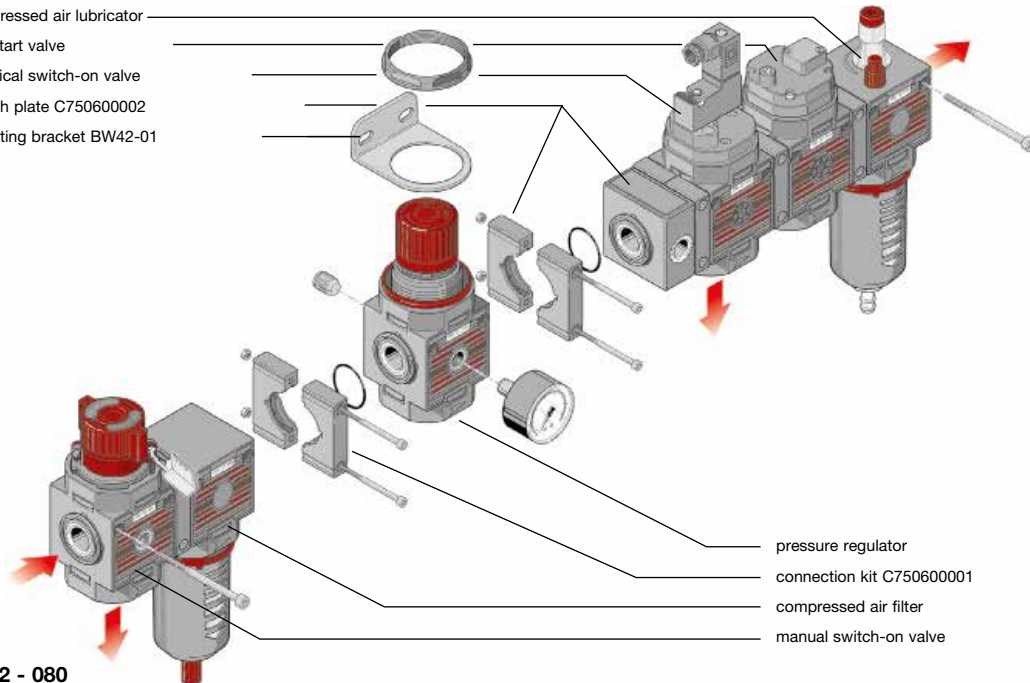
Series 042

compressed air lubricator
soft start valve
electric switch-on valve
filter regulator
"T" mounting bracket C420500001



connecting block, 19 mm
C420600001
manual switch-on valve

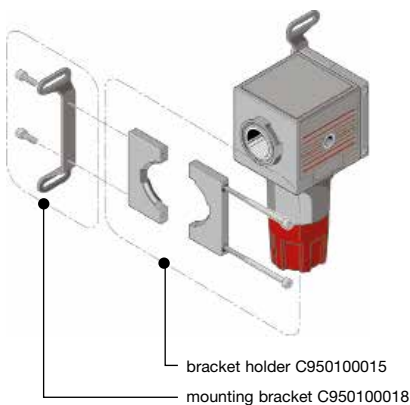
compressed air lubricator
soft start valve
electrical switch-on valve
branch plate C750600002
mounting bracket BW42-01



pressure regulator
connection kit C750600001
compressed air filter
manual switch-on valve

Series 075

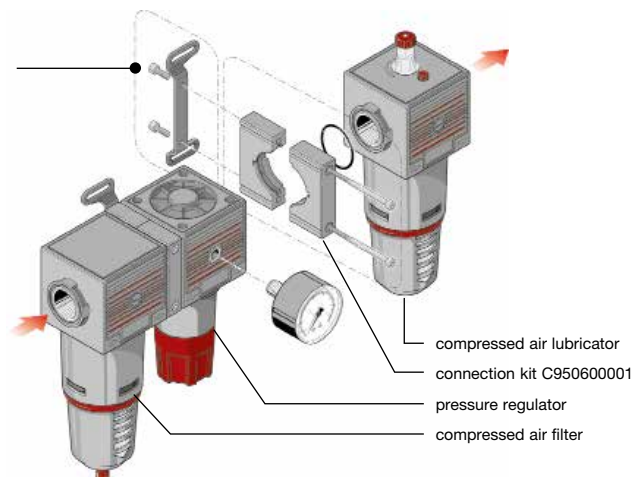
similar to
Series 050 - 052 - 080



bracket holder C950100015
mounting bracket C950100018

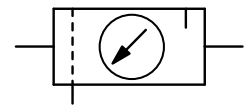
Series 095

mounting bracket
C950100018



compressed air lubricator
connection kit C950600001
pressure regulator
compressed air filter

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. 12.5 bar, max. 7 bar at lubricator with oil level indicator, max. 16 bar for Series 042		
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. Contact: NO Voltage: max. 115 V		
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 consist of	Bowl design made of / with	Flow rate		Connection thread G	Order number	B*
A	B	C	K			m ³ /h*1	l/min*1			
mm	mm	mm	mm							

FRL unit, 2-partP₁: max. 12.5 / 16 bar, P₂: 0...8 bar, 20 μ m, semiautomatic drain, with pressure gauge**C2**

84	208	126	-	B+L042	plastic/	59	980	G $\frac{1}{4}$	C242-02HC
115	239	148	126	B+L050	bowl guard	84	1400	G $\frac{3}{8}$	C250-03HC
115	239	148	126	B+L052		90	1500	G $\frac{1}{2}$	C252-04HC
139	276	173	151	B+L075		132	2200	G $\frac{1}{2}$	C275-04HC
212	276	173	-	B+L080		138	2300	G $\frac{3}{4}$	C280-06HC
210	415	237	230	B+L095		480	8000	G1	C295-08HC

FRL unit, 3-partP₁: max. 12.5 / 16 bar, P₂: 0...8 bar, 20 μ m, semiautomatic drain, with pressure gauge**C3**

126	208	126	-	F+R+L042	plastic/	59	980	G $\frac{1}{4}$	C342-02HC
178	239	148	189	F+R+L050	bowl guard	84	1100	G $\frac{3}{8}$	C350-03HC
178	239	148	189	F+R+L052		90	1500	G $\frac{1}{2}$	C352-04HC
215	276	173	227	F+R+L075		132	2200	G $\frac{1}{2}$	C375-04HC
288	276	173	-	F+R+L080		138	2300	G $\frac{3}{4}$	C380-06HC
325	411	237	345	F+R+L095		480	8000	G1	C395-08HC

Special options, add the appropriate letter5 μ m filter element

C...-0.G.

0...12 bar regulating range

C...-0...D

automatic drain

C400200130

C...-0...R

semiautomatic oil refilling

P_{min.} 3 bar

for C.42 to C.80

C...-0...X65

oil level indicator

P_{max.} 7 bar

max. 115 V / NO

for C.50 to C.95

C...-0...X66

Accessories, enclosed

mounting bracket

made of steel, mounting nut at the device for C.42
for C.50 to C.80

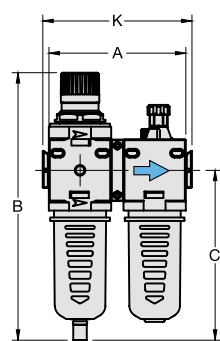
BW30-01

set of brackets

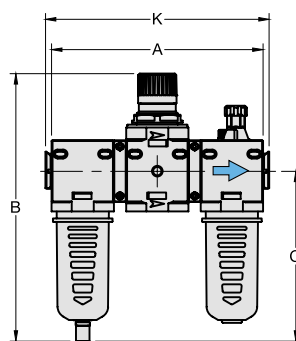
made of steel, mounting nut at the device for C.95

BW42-01

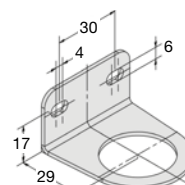
BW00-02



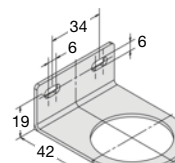
C2



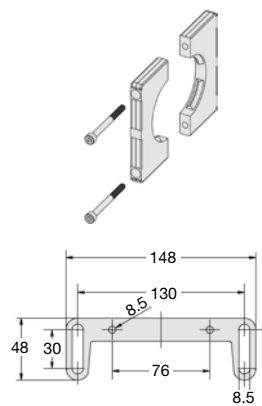
C3



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

PDF CAD
 www.aircom.net

* Product group



Order example:
 C242-02HC

FRL units

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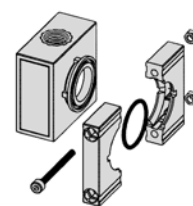
Connection kit

With this interlocking kit, two compressed air instruments can be connected to one another without need for double nipples. This makes possible very compact layouts.

- C35 : • Mounting using rotary clip and two o-rings. These allow regulators to be connected to other regulators or filters.
- C40 : • Instruments are connected to each other using screws, nuts and o-ring;
• alternatively, a segmented connecting block can be used for instrument connection.
- C50 : • Instrument connection by means of a two-part connecting block.

Branch plate

- C40 : • Branch plate with compressed air connection port G $\frac{1}{8}$ or G $\frac{1}{4}$ or both outlet plates.
• Supply plate for two pressure regulators through port G $\frac{1}{4}$.
- C50 : • Branch plate with compressed air connection G $\frac{1}{4}$.
Port installation of the branch plate is only possible using connecting blocks.



assembly components

Description

Connection of instruments

for series

Order number

Connection kit

for connecting separate instruments

C...

rotary clips with two o-rings screws, nuts and o-ring

R+F or R+R or F+F
F+R+L or P+B+L
B+L
F+L or F+F

35

C350100018

42

C400500001

42

C400600001

42

C400700001

connection kit

for any two instruments

42

C420600001

50 / 52

C500600001

75

C750600001

80

C800600004

95

C950600001



C350100018

Verbindungssatz



C400500001
C400600001
C400700001

connection kit

Branch plate

with compressed air connection port

C...

outlet G $\frac{1}{8}$

42

C400500102

outlet G $\frac{1}{4}$

42

C400500108

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

42

C400500103

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

with connection kit

42

C420500003

supply G $\frac{1}{4}$ for two regulators

42

C400500111

outlet G $\frac{1}{4}$

50 / 52

C500500003

outlet G $\frac{1}{4}$

75

C750600002

outlet G $\frac{1}{4}$

80

C800600005

Mounting material

mounting bracket

for G $\frac{1}{4}$

BW30-01

mounting bracket

for G $\frac{3}{8}$ to G $\frac{1}{2}$

BW42-01

wall mounting

for G $\frac{1}{4}$

C420500001

wall mounting

for G1

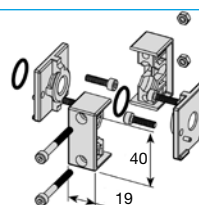
C950100018

bracket holder

required in absence of C9506

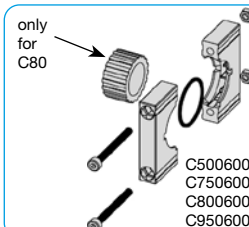
for G1

C950100015



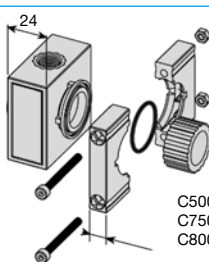
C420600001

connection kit



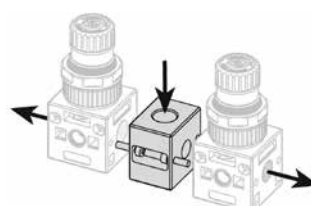
C500600001 width 10.6
C750600001 width 12.5
C800600004 width 12.5
C950600001 width 16.0

connection kit



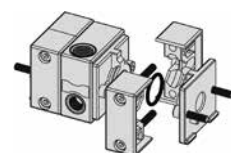
C500500003 width 10.6 mm
C750600002 width 12.6 mm
C800600005 width 12.5 mm

branch plate



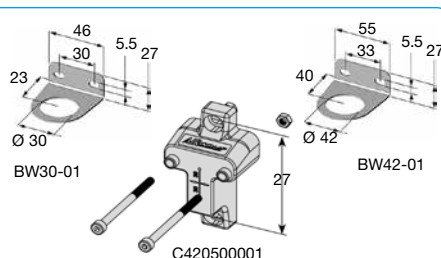
C400500111

supply

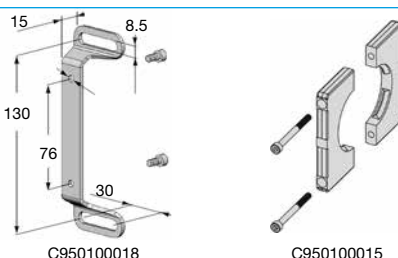


C420500003

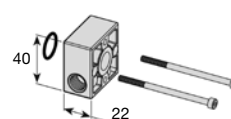
branch plate



mounting brackets



wall mounting



C400500102
C400500108
C400500103

branch plate

FRL
units

19



Manual switch-on

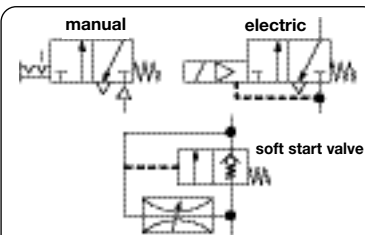
Manual switch-on/off valve which relieves at switch-off. Tapped exhaust with connection thread G $\frac{1}{8}$ or valve G $\frac{1}{4}$. Valve can be protected from unauthorised tampering by provided padlock. Wall mounting is possible through two drilled holes in the body. Maximum supply pressure is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



pressure valves



V052 manual switch-on valve



S052 electric switch-on valve



A052 soft start valve

Dimensions			Description	Exhaust port	Flow rate		Connection thread	Order number	B*
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

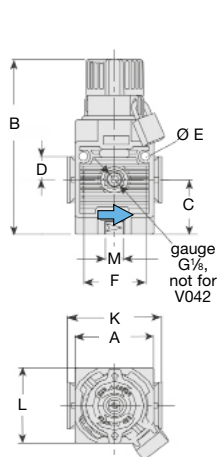
supply pressure 3...10 bar

A0

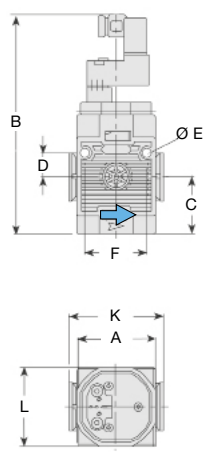
42	105	42	slow pressurizing of the		96	1600	G $\frac{1}{4}$	A042-02
63	108	52	pneumatic plant,		156	2600	G $\frac{3}{8}$	A050-03
63	108	52	delay time adjustable		162	2700	G $\frac{1}{2}$	A052-04
75	117	63			186	3100	G $\frac{1}{2}$	A075-04
137	117	63			192	3200	G $\frac{3}{4}$	A080-06

Special options, add the appropriate letter

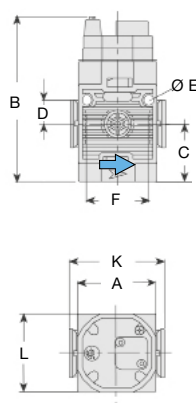
24 V AC, 2 W	input supply voltage	for S0	S0...-0.X
115 V AC, 1 W	input supply voltage	for S0	S0...-0.Y
230 V AC, 1 W	input supply voltage	for S0	S0...-0.Z
pneumatic control	C402600014, instead of electrical operation	for S0	S0...-0.P



V0 manual switch-on valve



S0 electric switch-on valve



A0 soft start valve

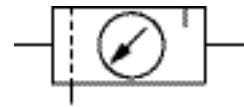
Series	D	Ø E	F	K	L
042	10.5	4.5	31	—	42
050/052	16	5.5	41	63	52
075	17.5	5.5	45	75	63
080	—	—	—	—	137

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

* Product group



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.-02, by T-handle with locknut at CM.-04
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
Filter element	50 μ m, optionally 5 μ m, made of stainless steel
Bowl	stainless steel version without sight glass
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 0 °C to 130 °C / 32 °F to 212 °F high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F
Material	Body: brass Bowl: stainless steel 316L / 1.4404 at G $\frac{1}{8}$ to G1, brass at G $\frac{1}{2}$ and G2 Elastomer: FKM optionally EPDM Knob: plastic at sizes G $\frac{1}{4}$, brass at G $\frac{1}{2}$ Inner valve: brass and plastic (not at option X54)



**G $\frac{1}{8}$ and G $\frac{1}{2}$, max. 50 bar
-20 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			m 3 /h*1	l/min*1		
mm	mm	mm						

FRL unit, 2-part					P $_1$: max. 50 bar, screw plug, relieving,	P $_2$: 0.5...8 bar, with pressure gauge	50 μ m,	CM2
138	220	123	BM+LM	stainless steel	51	850	G $\frac{1}{4}$	CM2-02
168	247	127			138	2 300	G $\frac{1}{2}$	CM2-04



CM2-04

FRL unit, 3-part					P $_1$: max. 30 bar, screw plug, relieving,	P $_2$: 0.5...8 bar, with pressure gauge	50 μ m,	CM3
212	173	129	FM+R120+LM	stainless steel	51	850	G $\frac{1}{4}$	CM3-02
256	175	130			138	2 300	G $\frac{1}{2}$	CM3-04



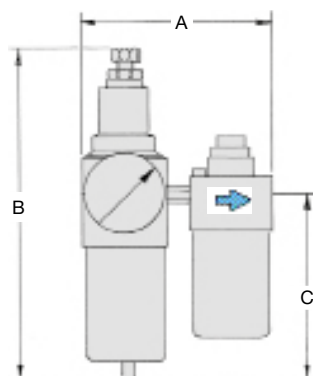
CM3-02

Special options, add the appropriate letter

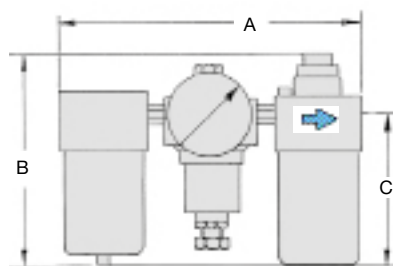
5 μ m filter element		CM . . . G
0.2... 3 bar pressure range		CM . . . B
1 ...15 bar pressure range	P $_1$ max. 50 bar	CM . . . D
manual drain	max. 30 bar	CM . . . H
automatic drain	made of stainless steel, max. 16 bar	CM . . . R
up to 130 °C / 266 °F	high temperature version	CM . . . X54
flange connection	according to EN-1092-1 or ASME B16.5 on request	CM . . . F.

Accessories, enclosed

mounting bracket	made of stainless steel	for G $\frac{1}{4}$	BW35-01S
mounting nut			M35x1,5S
mounting bracket	made of stainless steel	for G $\frac{1}{2}$	BW50-01S
mounting nut			M50x1,5S

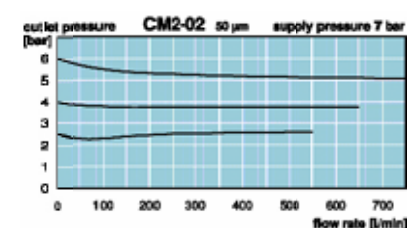
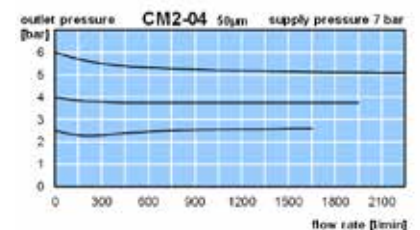


CM2-0. .H



CM3-0. .H

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



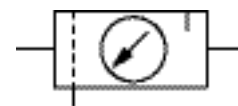
Further details: see chapter for single devices

PDF CAD
www.aircom.net



Order example:
CM2-02

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	or semiautomatic drain version
	Knob (C20): glass fibre-reinforced plastic	Spring cage: zinc die-cast
	Bowl: zinc die-cast	T-handle (C21): steel
	Elastomer: NBR/Buna-N	Sight glass: polyurethane
		Inner valve: brass and plastic



G $\frac{1}{2}$ up to G1

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

FRL unit, 2-part

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

C20

178	289	175	B+L20	metal / sight glass	276	4600	G $\frac{1}{2}$	C20-04BL-W
203	289	175	B+L20	metal / sight glass	276	4600	G $\frac{1}{2}$	C20-04BL-W
					390	6500	G $\frac{3}{4}$	C20-06BL-W
					402	6700	G1	C20-08BL-W

FRL unit, 3-part

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

C20

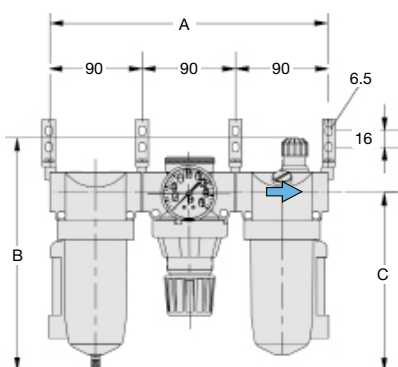
270	226	171	F+R+L20	metal / sight glass	102	1700	G $\frac{1}{4}$	C20-02FRL-W
					174	2900	G $\frac{3}{8}$	C20-03FRL-W
					276	4600	G $\frac{1}{2}$	C20-04FRL-W
292	226	171	F+R+L20	metal / sight glass	390	6500	G $\frac{3}{4}$	C20-06FRL-W
					402	6700	G1	C20-08FRL-W

Special options, add the appropriate letter

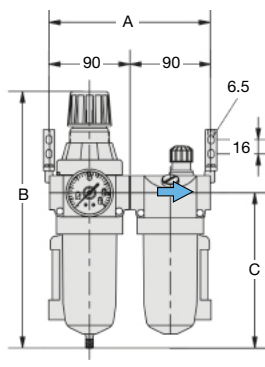
T-handle	including locknut	C21-0 . . . -W
5 μ m filter element		C20-0 . . . -WG
0.2... 4 bar pressure range		C20-0 . . . -WB
0.5...17 bar pressure range		C20-0 . . . -WD
semiautomatic drain	RK500SY, max. 12 bar	C20-0 . . . -WM
automatic drain	SA605MD, max. 12 bar	C20-0 . . . -WR

Accessories, enclosed

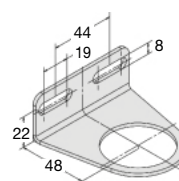
mounting bracket	mounting at the spring cage	BW45-02
mounting nut	made of aluminium	M45x1,5A
mounting bracket set	made of steel, consisting of two mounting brackets	MK20-0100
porting block	tap G $\frac{1}{4}$, for unlubricated compressed air	IK20CP



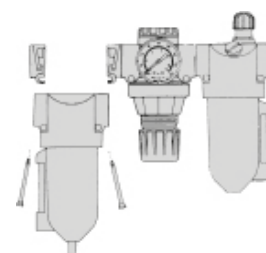
C20- . . FRL mit MK20-0100



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

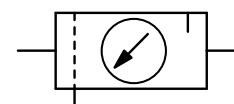
Further details: see chapter for single devices

PDF CAD
www.aircom.net



Order example:
C20-04BL-W

Description	Solid, low-cost FRL service unit made of aluminium equipped with pressure gauge.
Media	compressed air or non-corrosive gases
Supply pressure	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 hexagon head screw from G $\frac{3}{8}$ up to G1 $\frac{1}{2}$ on (CD.-1A.) by T-handle from G1 $\frac{1}{2}$ (CD.-12.) up to G2 on
Relieving function	relieving, optionally non-relieving
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	semiautomatic drain as standard, optionally automatic (max. 16 bar) or manual drain for max. 30 bar
Drainage	20 μ m or 50 μ m, optionally 5 μ m or 50 μ m, made of propylene Bowl metal version with or without sight glass
Temperature range	-10 °C to 50 °C / -14 °F to 122 °F metal bowl with sight glass, for G $\frac{1}{2}$ to G $\frac{3}{8}$ -20 °C to 60 °C / -4 °F to 140 °F metal bowl with sight glass, for G $\frac{3}{8}$ to G2 -30 °C to 80 °C / -22 °F to 176 °F metal bowl without sight glass, for all sizes
Material	Body: aluminium Elastomer: NBR/Buna-N Bowl: aluminium



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

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

A*

FRL unit, 2-part

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

CD2

80	201	128	BD+LD	metal/sight glass	50	27	450	G $\frac{1}{8}$ G $\frac{1}{4}$	CD2-01 CD2-02
128	248	148		metal/sight glass	50	108	1800	G $\frac{3}{8}$ G $\frac{1}{2}$	CD2-03 CD2-04
275	314	179		metal/sight glass	50	300	5000	G $\frac{3}{4}$ G1	CD2-06 CD2-08
386	314	179		metal/sight glass	50	300	5000	G1 $\frac{1}{4}$ G1 $\frac{1}{2}$	CD2-10 CD2-1A
355	483	223		metal/sight glass	50	960	16000	G1 $\frac{1}{2}$ G2	CD2-12 CD2-16



CD2-01/-02



CD2-03/-04



CD2-10/-1A

Special options, add the appropriate letter

5 μ m filter element

CD2-..G

0.3...3 bar regulation range

CD2-..B

1 ...15 bar

CD2-..E

operating press. 30 bar

only for metal bowl (without sight glass) with manual drain

CD2-..NH

manual drain

max. 16 bar

CD2-..H

automatic drain

drainage by float valve, max. 16 bar for G $\frac{3}{8}$ up to G2

CD2-..R

flange connection

according to EN-1092-1 or ASME B16.5 on request

CD2-..F.

Accessories, enclosed

B*

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 stainless steel

for G $\frac{3}{4}$ up to G1 $\frac{1}{2}$ (1A)

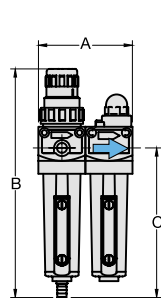
BW00-59S

set of brackets

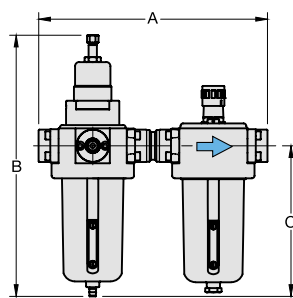
made of steel

for G1 $\frac{1}{2}$ (12) and G2

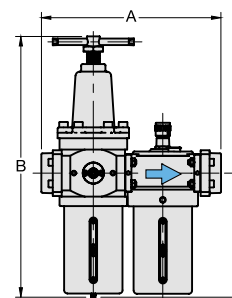
BW00-61



CD2-01/-.../-04



CD2-06/-08/-10/-1A



CD2-12/-16

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

* Product group

Further details: see chapter for single devices

PDF CAD
www.aircom.net



Order example:
CD2-01

Description	FRL service unit of small size and with high flow. Compact design, proven in operation.		
Media	compressed air or non-corrosive gases		
Supply pressure	max. 17 bar for metal bowl with sight glass		
Adjustment	by T-handle with locknut		
Relieving function	relieving, optionally non-relieving		
Gauge port	G $\frac{3}{4}$ on both sides of the body, one screw plug supplied		
Filter element	40 μ m, optionally 5 μ m, made of polypropylene		
Bowl	metal version with sight glass		
Drainage	manual drain as standard optionally semiautomatic drain or automatic drain for max. 12 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	

G $\frac{3}{4}$ up to G1 $\frac{1}{2}$

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

FRL unit, 3-partP₁: max. 17 bar, P₂: 0.3...9 bar, 40 μ m,
manual drain, relieving, with pressure gauge**C630**

400	267	197	F602	metal/sight glass	408	6 800	G $\frac{3}{4}$	C630-06FRL-W
			+ R119, + L606		516	8 600	G1	C630-08FRL-W
419	286	206		metal/sight glass	600	10 000	G1 $\frac{1}{4}$	C630-10FRL-W
					630	10 500	G1 $\frac{1}{2}$	C630-12FRL-W



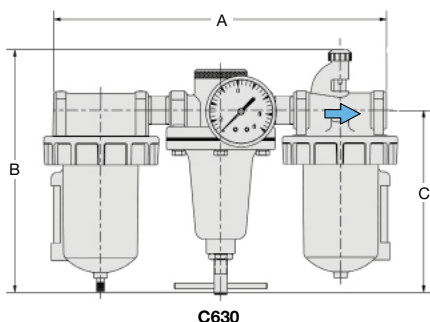
C630-08FRL-W

Special options, add the appropriate letter

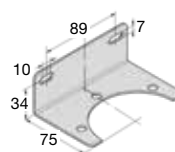
5 μm filter element		C630-0 G
NPT	connection thread	C630-0 N
0.2... 4 bar pressure range		C630-0 B
0.5...17 bar pressure range		C630-0 D
semiautomatic drain	RK500SY, max. 12 bar	C630-0 M
automatic drain	SA605MD, max. 12 bar	C630-0 R
flange connection	according to EN-1092-1 or ASME B16.5 on request	C630-0 F

Accessories, enclosed

mounting bracket	made of steel	for G $\frac{3}{4}$ to G1 $\frac{1}{2}$	BW00-24
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C630



BW00-24

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

Further details: see chapter for single devices

PDF CAD
www.aircom.net

RK500SY

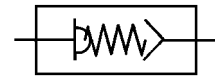
SA605MD

* Product group

Order example:
C630-06FRL-WFRL
units

19

Description	Air supply is immediately shut off when volume flow exceeds a specific value. The maximum admissible flow is factory-set in such a way that a standard application of pneumatic equipment is ensured. Pressure drop amounts to 0.05 to 0.3 bar. In the case of failure, the hose rupture valve blows off through a small nozzle. After repairing the hose break, the hose rupture valve can be set to zero again.		
EN ISO 4414-11.2010	According to EN ISO 4414-11.2010 the hose rupture valve protects individuals, systems and machines from injuries or damages caused by lashing hose lines in the event of hose breaks.		
Function	The air passes the piston and continues through the seat. The air stream is slowed down by means of lengthwise grooves on the piston surface. When the volume flow is too high, the air cannot pass the piston quickly enough, thus the piston will be pressed against the spring. If the maximum admissible flow is exceeded, e.g. when the hose suddenly breaks, the air supply will automatically be shut off.		
Supply pressure	max. 18 bar		
Temperature range	-20 °C to 80 °C / -4 °F to 176 °F at G¼ to G½, up to 120 °C / 248 °F at G¾ to G2		
Material	Body: aluminium, optionally stainless steel Elastomer: NBR/Buna-N Inner valve: aluminium and plastic		



max. 18 bar
G¼ up to G2

Dimensions			max. flow rate		Connection thread	Order number
B	C	A/F	at 8 bar *2			
mm	mm	mm	m³/h	l/min	G	

Hose Rupture Valve "HoseGuard®"						operating pressure max. 18 bar	281
49	-	22	46	760 *1	G¼		281A0211
49	10	22	46	760 *1	G¼ mf		281A0221
49	-	22	3	52	G¼		281ZL0211
49	10	22	3	52	G¼ mf		281ZL0221
49	-	22	60	990	G¼		281ZH0211
49	10	22	60	990	G¼ mf		281ZH0221
58	-	27	65	1080 *1	G¾		281A0311
58	12	27	65	1080 *1	G¾ mf		281A0321
58	-	27	87	1450	G¾		281ZH0311
58	12	27	87	1450	G¾ mf		281ZH0321
65	-	30	181	3020 *1	G½		281A0411
64	15	30	181	3020 *1	G½ mf		281A0421
65	-	30	206	3440	G½		281ZH0411
64	15	30	206	3440	G½ mf		281ZH0421
76	-	30	244	4070 *1	G¾		281A0511
76	-	30	315	5250	G¾		281ZH0511
100	-	41	313	5220 *1	G1		281A0611
100	-	41	456	7600	G1		281ZH0611
130	-	70	775	12920 *1	G2		281A0911

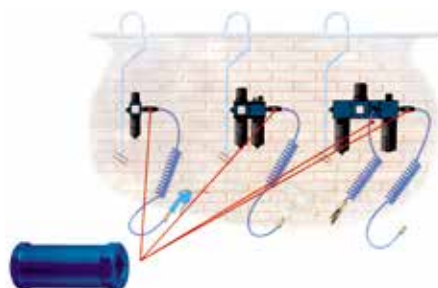
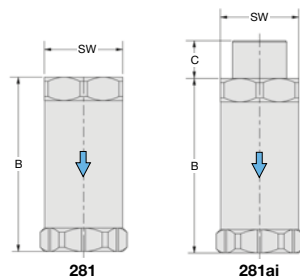
Special options, add the appropriate letter

NPT

connection thread for standard version
connection thread for Low-Flow version
connection thread for High-Flow version

281A1 ...
281ZL1 ...
281ZH1 ...
281R ...

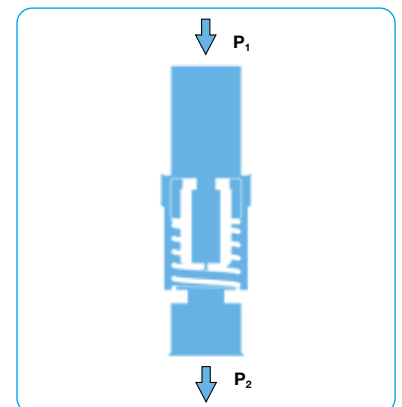
stainless steel body



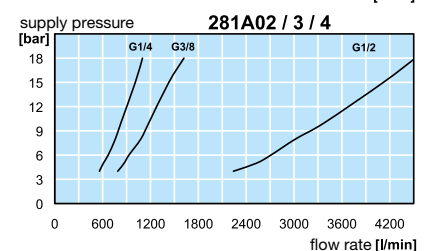
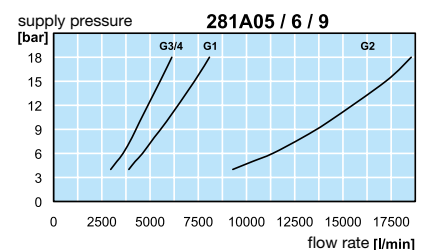
application example



281



cross-section



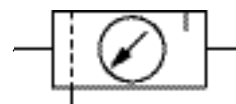
*1 Standard version

*2 volume flow measurement according to DIN EN60534 (± 10% for closing)

* Product group



Description	Service unit, consisting of filter regulator and oiler with pressure gauge, in small design with high flow rate.		
Media	compressed air or non-corrosive gases		
Supply pressure	max. 17 bar		
Adjustment	with lockable adjustment knob for C510BL, with T-handle for C511BL, with adjustment screw for C512BL		
Relieving function	relieving, optionally non-relieving		
Gauge port	G $\frac{1}{8}$ on both sides of the body		
Filter element	40 μ m, optionally 5 μ m, made of sintered bronze		
Bowl	metal bowl with sight glass		
Drainage	manual drain as standard, optionally automatic drain, max. 10 bar		
Temperature range	0 °C to 80 °C		
Material	Body: alu die-cast	Bowl: alu die-cast	
	Spring cage: glass fibre-reinforced plastic	Elastomer: NBR	
	Inner valve: brass, plastic		

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

Dimensions			Combination consisting of	Flow rate		P ₁ max. bar	Connection thread G	Pressure range bar	Order number	A*
A	B	C		m ³ /h*1	l/min*1					
mm	mm	mm								

FRL unit, 2-partmanual drain, relieving, max 17 bar with pressure gauge, Filter element 40 μ m**C510BL**

157	244	149	B510 + L510	126	2100	17	G $\frac{1}{4}$	0.2 ... 2	C510BL-02WJA
								0.4 ... 4	C510BL-02WJB
								1.0 ... 10	C510BL-02WJC
			B512 + L510					1.7 ... 17	C512BL-02WJD
157	244	149	B510 + L510	132	2200	17	G $\frac{3}{8}$	0.2 ... 2	C510BL-03WJA
								0.4 ... 4	C510BL-03WJB
								1.0 ... 10	C510BL-03WJC
			B512 + L510					1.7 ... 17	C512BL-03WJD
157	244	149	B510 + L510	138	2300	17	G $\frac{1}{2}$	0.2 ... 2	C510BL-04WJA
								0.4 ... 4	C510BL-04WJB
								1.0 ... 10	C510BL-04WJC
			B512 + L510					1.7 ... 17	C512BL-04WJD



C510BL



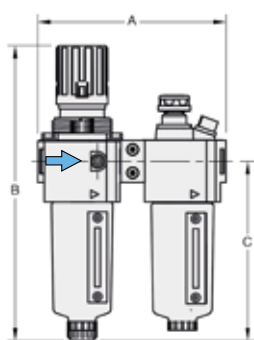
C511BL

Special options, add the appropriate letter

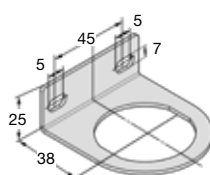
T-handle	including locknut	up to 10 bar B + 20 mm	C511BL -0 . W . .
adjusting screw	including locknut	up to 10 bar B + 20 mm	C512BL -0 . W . .
5 μm filter element			C51 . BL -0 . WG .
non relieving	without relieving function		C51 . BL -0 . W . . K
automatic drain	SA-500, max. 10 bar		C51 . BL -0 . W . . R

Accessories, enclosed

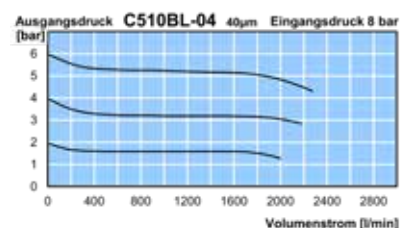
pressure gauge	50 mm, 0... ² bar, G $\frac{1}{8}$	MA5001- . . ²
mounting bracket	made of steel	BW48-00
mounting nut	made of plastic	M48x1,5K



C510BL



BW48-00



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

*2 02 = 0...2,5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar

Further details: see chapter for single devices
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

* Product group

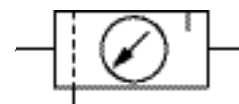


Order example:
C510BL-02WJA

FRL
units

19

Description	Service unit, consisting of regulator, filter and oiler with pressure gauge, in small design with high flow rate.		
Media	compressed air or non-corrosive gases		
Supply pressure	max. 17 bar		
Adjustment	with lockable adjustment knob for C510FRL, with T-handle for C511FRL, with adjustment screw for C512FRL		
Relieving function	relieving, optionally non-relieving		
Gauge port	G $\frac{1}{8}$ on both sides of the body		
Filter element	40 μ m, optionally 5 μ m, made of sintered bronze		
Bowl	metal bowl with sight glass		
Drainage	manual drain as standard, optionally automatic drain, max. 10 bar		
Temperature range	0 °C to 80 °C		
Material	Body: alu die-cast	Bowl: alu die-cast	
	Spring cage: glass fibre-reinforced plastic	Elastomer: NBR	
	Inner valve: brass, plastic		



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

Dimensions			Combination consisting of	Flow rate		P ₁ max. bar	Connection thread G	Pressure range bar	Order number	A*
A	B	C		m ³ /h*1	l/min*1					
mm	mm	mm								

FRL unit, 3-part

manual drain, relieving, max 17 bar with pressure gauge, Filter element 40 μ m

C510FRL

240	235	149	F510+R510+L510	126	2100	17	G $\frac{1}{4}$	0.2 ... 2	C510FRL-02WJA
								0.4 ... 4	C510FRL-02WJB
								1.0 ... 10	C510FRL-02WJC
			F510+R512+L510					1.7 ... 17	C512FRL-02WJD
240	235	149	F510+R510+L510	132	2200	17	G $\frac{3}{8}$	0.2 ... 2	C510FRL-03WJA
								0.4 ... 4	C510FRL-03WJB
								1.0 ... 10	C510FRL-03WJC
			F510+R512+L510					1.7 ... 17	C512FRL-03WJD
240	235	149	F510+R510+L510	138	2300	17	G $\frac{1}{2}$	0.2 ... 2	C510FRL-04WJA
								0.4 ... 4	C510FRL-04WJB
								1.0 ... 10	C510FRL-04WJC
			F510+R512+L510					1.7 ... 17	C512FRL-04WJD



C510FRL



C511FRL

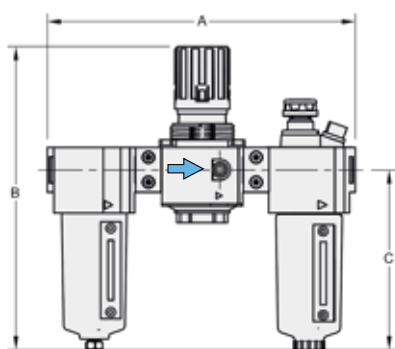
Special options, add the appropriate letter

T-handle	including locknut	up to 10 bar B + 20 mm	C511FRL -0 . W . .
adjusting screw	including locknut	up to 10 bar B + 20 mm	C512FRL -0 . W . .
5 μm filter element			C51 . FRL -0 . WG .
non relieving	without relieving function		C51 . FRL -0 . W . . K
automatic drain	SA-500, max. 10 bar		C51 . FRL -0 . W . . R

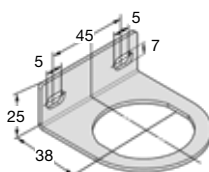
Accessories, enclosed

pressure gauge	50 mm, 0... ² bar, G $\frac{1}{8}$	MA5001-..²
mounting bracket	made of steel	BW48-00
mounting nut	made of plastic	M48x1,5K

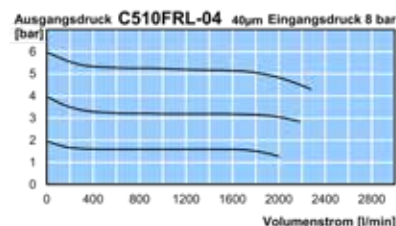
for G $\frac{3}{4}$ to G1 $\frac{1}{2}$



C510FRL



BW48-00



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

*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar

Further details: see chapter for single devices
Gauges: see chapter for measuring devices

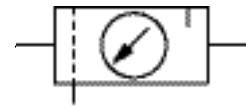
PDF CAD
www.aircom.net

* Product group



Order example:
C510FRL-02WJA

Description	Service unit, consisting of filter regulator and oiler with pressure gauge, in small design with high flow rate.		
Media	compressed air or non-corrosive gases		
Supply pressure	max. 17 bar		
Adjustment	with lockable adjustment knob for C520BL, with T-handle for C521BL, with adjustment screw for C522BL		
Relieving function	relieving, optionally non-relieving		
Gauge port	G $\frac{1}{8}$ on both sides of the body		
Filter element	40 μ m, optionally 5 μ m, made of sintered bronze		
Bowl	metal bowl with sight glass		
Drainage	manual drain as standard, optionally automatic drain, max. 10 bar		
Temperature range	0 °C to 80 °C		
Material	Body: alu die-cast	Bowl: alu die-cast	
	Spring cage: glass fibre-reinforced plastic	Elastomer: NBR	
	Inner valve: brass, plastic		



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

Dimensions			Combination consisting of	Flow rate		P ₁ max. bar	Connection thread G	Pressure range bar	Order number	A*
A	B	C		m ³ /h*1	l/min*1					
mm	mm	mm								

FRL unit, 2-part

manual drain, relieving, max 17 bar with pressure gauge, Filter element 40 μ m

C520BL

180	282	165	B520 + L520	132	2100	17	G $\frac{1}{4}$	0.2 ... 2	C520BL-02WJA
								0.3 ... 3.5	C510BL-02WJB
								1.0 ... 10	C520BL-02WJC
			B522 + L520					1.7 ... 17	C522BL-02WJD
180	282	165	B520 + L520	186	3100	17	G $\frac{3}{8}$	0.2 ... 2	C520BL-03WJA
								0.3 ... 3.5	C520BL-03WJB
								1.0 ... 10	C520BL-03WJC
			B522 + L520					1.7 ... 17	C522BL-03WJD
180	282	165	B520 + L520	288	4800	17	G $\frac{1}{2}$	0.2 ... 2	C520BL-04WJA
								0.3 ... 3.5	C520BL-04WJB
								1.0 ... 10	C520BL-04WJC
			B522 + L520					1.7 ... 17	C522BL-04WJD
180	282	165	B520 + L520	408	6800	17	G $\frac{3}{4}$	0.2 ... 2	C520BL-06WJA
								0.3 ... 3.5	C520BL-06WJB
								1.0 ... 10	C520BL-06WJC
								1.7 ... 17	C522BL-06WJD



C520BL



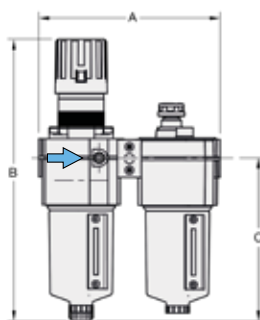
C521BL

Special options, add the appropriate letter

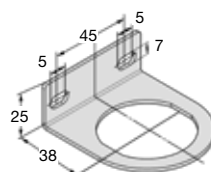
T-handle	including locknut	up to 10 bar B + 20 mm	C521BL -0 . W . .
adjusting screw	including locknut	up to 10 bar B + 20 mm	C522BL -0 . W . .
5 μm filter element			C52 . BL -0 . WG .
non relieving	without relieving function		C52 . BL -0 . W . .
automatic drain	SA-500, max. 10 bar		C52 . BL -0 . W . . R

Accessories, enclosed

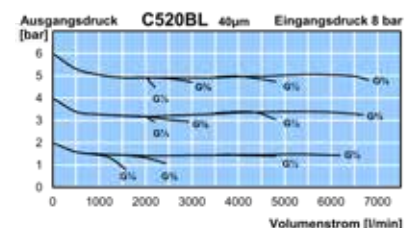
pressure gauge	50mm, 0... ² bar, G $\frac{1}{8}$	MA5001-. . ²
mounting bracket	made of steel	BW48-00
mounting nut	made of plastic	M48x1,5K



C520BL



BW48-00



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

*2 02 = 0...2,5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar

Further details: see chapter for single devices
Gauges: see chapter for measuring devices

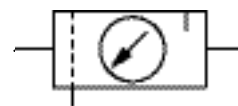
PDF CAD
www.aircom.net

* Product group



Order example:
C520BL-02WJA

Description	Service unit, consisting of regulator, filter and oiler with pressure gauge, in small design with high flow rate.		
Media	compressed air or non-corrosive gases		
Supply pressure	max. 17 bar		
Adjustment	with lockable adjustment knob for C520FRL, with T-handle for C521FRL, with adjustment screw for C522FRL		
Relieving function	relieving, optionally non-relieving		
Gauge port	G $\frac{1}{8}$ on both sides of the body		
Filter element	40 μ m, optionally 5 μ m, made of sintered bronze		
Bowl	metal bowl with sight glass		
Drainage	manual drain as standard, optionally automatic drain, max. 10 bar		
Temperature range	0 °C to 80 °C		
Material	Body: alu die-cast	Bowl: alu die-cast	
	Spring cage: glass fibre-reinforced plastic	Elastomer: NBR	
	Inner valve: brass, plastic		

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

Dimensions			Combination consisting of	Flow rate m 3 /h*1 l/min*1	P $_1$ max. bar	Connection thread G	Pressure range bar	Order number	A*
A	B	C							
mm	mm	mm	of						

FRL unit, 3-partmanual drain, relieving, max 17 bar with pressure gauge, Filter element 40 μ m**C510FRL**

280	265	165	R520+F520+L520	132	2100	17	G $\frac{1}{4}$	0.2 ... 2	C520FRL-02WJA
								0.3 ... 3.5	C520FRL-02WJB
								1.0 ... 10	C520FRL-02WJC
			R522+F520+L520					1.7 ... 17	C522FRL-02WJD
280	265	165	R520+F520+L520	168	3100	17	G $\frac{3}{8}$	0.2 ... 2	C520FRL-03WJA
								0.3 ... 3.5	C520FRL-03WJB
								1.0 ... 10	C520FRL-03WJC
			R522+F520+L520					1.7 ... 17	C522FRL-03WJD
280	265	165	R520+F520+L520	288	4800	17	G $\frac{1}{2}$	0.2 ... 2	C520FRL-04WJA
								0.3 ... 3.5	C520FRL-04WJB
								1.0 ... 10	C520FRL-04WJC
			R522+F520+L520					1.7 ... 17	C522FRL-04WJD
280	265	165	R520+F520+L520	408	6800	17	G $\frac{3}{4}$	0.2 ... 2	C520FRL-06WJA
								0.3 ... 3.5	C520FRL-06WJB
								1.0 ... 10	C520FRL-06WJC
			R522+F520+L520					1.7 ... 17	C522FRL-06WJD



C510FRL



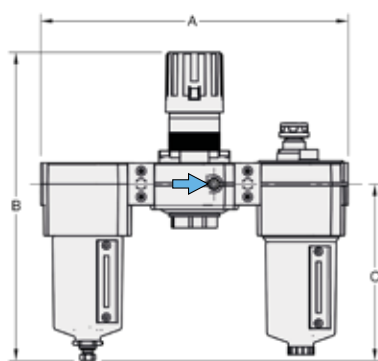
C511FRL

Special options, add the appropriate letter

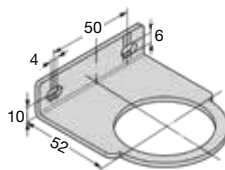
T-handle	including locknut	up to 10 bar B + 20 mm	C521FRL -0 . W . .
adjusting screw	including locknut	up to 10 bar B + 20 mm	C522FRL -0 . W . .
5 μm filter element			C52 . FRL -0 . WG .
non relieving	without relieving function		C52 . FRL -0 . W . . K
automatic drain	SA-500, max. 10 bar		C52 . FRL -0 . W . . R

Accessories, enclosed

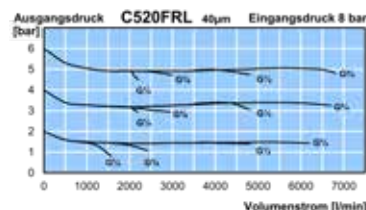
pressure gauge	50 mm, 0... *2 bar, G $\frac{1}{8}$	MA5001-. .*2
mounting bracket	made of steel	BW48-01
mounting nut	made of plastic	M48x1,5K

for G $\frac{3}{4}$ to G1 $\frac{1}{2}$ 

C520FRL



BW48-01



* Product group

Order example:
C520FRL-02WJA

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

*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar

Further details: see chapter for single devices

Gauges: see chapter for measuring devices

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