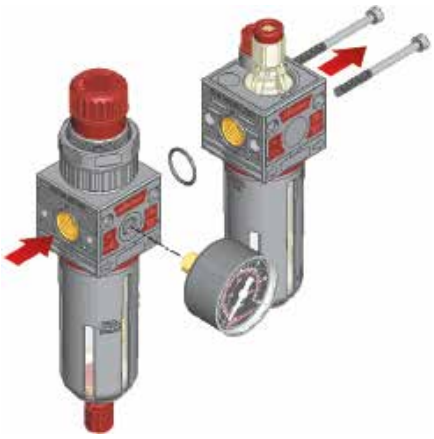
FRL SERVICE UNITS

DESCRIPTION	PRESSURE RANGE bar	CONNECTION	SERIES	PAGE
made of plastic, 2- and 3-part	0 … 8 / 12	G¼ - G1	C2, C3	**19.03**
assembly diagrams C2, C3			C35 … C95	**19.04**
switch-on and soft start valve C2, C3		G¼ - G¾	A0, S0, V0	**19.05**
made of brass, 2- and 3-part	0.2 … 3 / 15	G¼ and G½	CM	**19.06**
Stainless steel, 2- and 3-part	0.2 … 3 / 15	G¼ - G2	C3002, C3003	15.38
„Maxi“-Series, made of metal, robust, 2- and 3-part	0.2 … 4 / 17	G½ - G1	C20, C21	**19.07**
Series „D“, made of alu, 2-part	0.3 … 3 / 15	G⅛ - G2	CD2	**19.08**
„Standard“-Series, robust	0.2 … 4 / 17	G¾ - G2	C630	**19.09**
hose rupture valves, aluminium/stainless steel	max.18	G¼ - G2	281	**19.10**

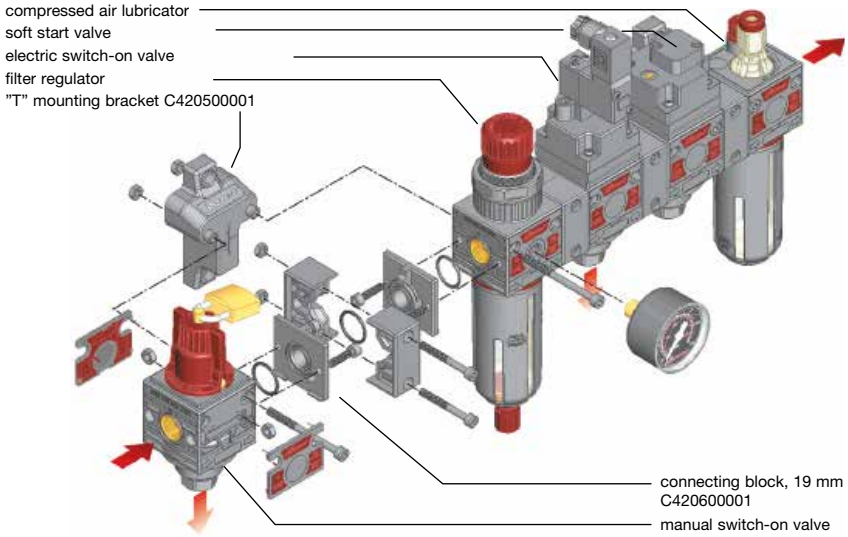
19

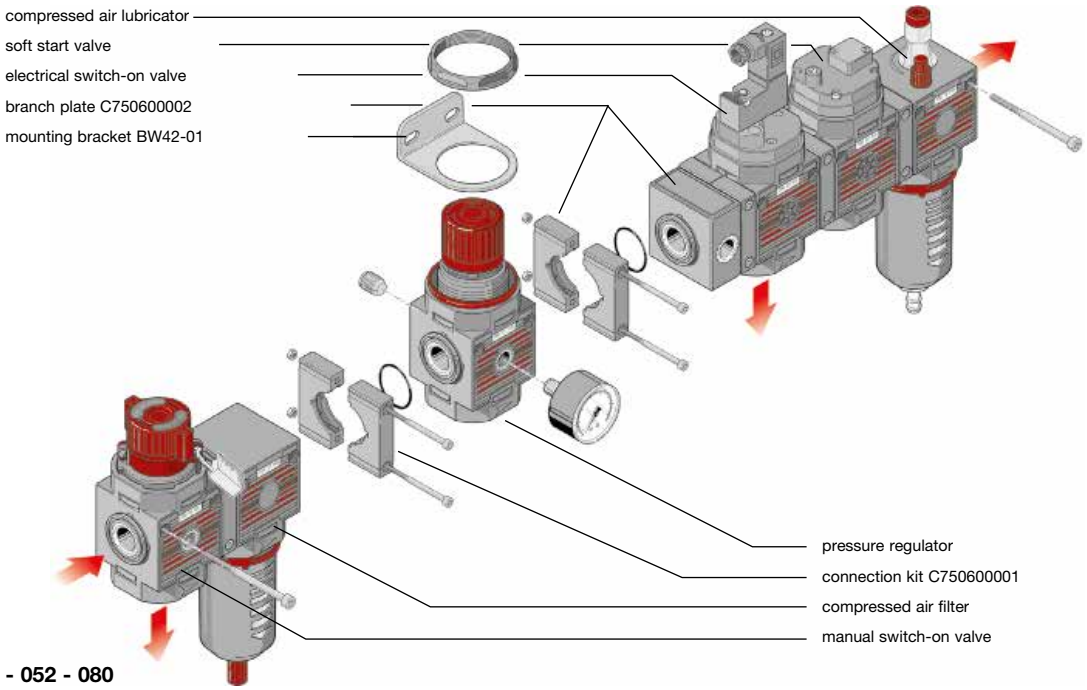
ASSEMBLY DIAGRAMS FOR PLASTIC FRL SERVICE UNITS C2/C3



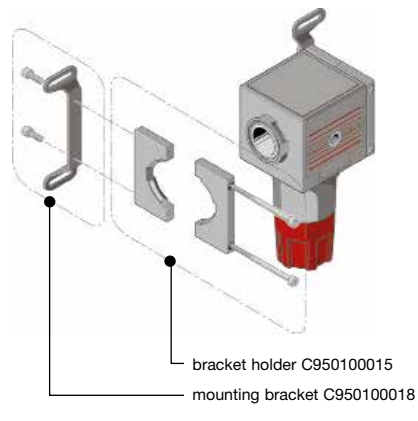
screw connection of standard FRL service unit with screws, nuts and o-ring
C400500001

Series 042

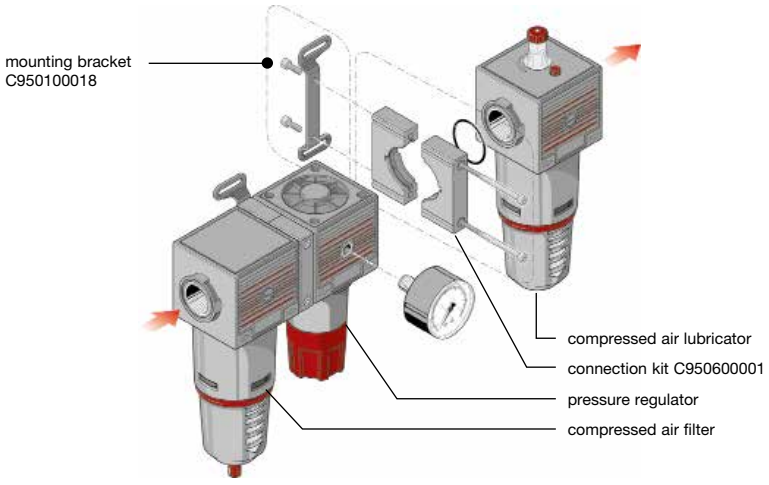




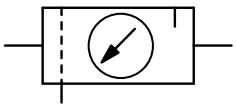
Series 075
similar to
Series 050 - 052 - 080



Series 095



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	G⅛ or G¼ at series 095, on both sides of the body, one screw plug supplied
Filter element	20 µm, optionally 5 µm, 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



G¼ up to G1

Dimensions A mm	B mm	C mm	K mm	Combination consist of	Bowl design made of / with	Flow rate m³/h*1	l/min*1	Connection thread G	Order number B*
FRL unit, 2-part					P1: max. 12.5 / 16 bar, P2: 0...8 bar, 20 µm, semiautomatic drain, with pressure gauge				**C2**
84	208	126	-	B+L042	plastic/	59	980	G¼	**C242-02HC**
115	239	148	126	B+L050	bowl guard	84	1 400	G⅜	**C250-03HC**
115	239	148	126	B+L052		90	1 500	G½	**C252-04HC**
139	276	173	151	B+L075		132	2 200	G½	**C275-04HC**
212	276	173	-	B+L080		138	2 300	G¾	**C280-06HC**
210	415	237	230	B+L095		480	8 000	G1	**C295-08HC**
FRL unit, 3-part					P1: max. 12.5 / 16 bar, P2: 0...8 bar, 20 µm, semiautomatic drain, with pressure gauge				**C3**
126	208	126	-	F+R+L042	plastic/	59	980	G¼	**C342-02HC**
178	239	148	189	F+R+L050	bowl guard	84	1 100	G⅜	**C350-03HC**
178	239	148	189	F+R+L052		90	1 500	G½	**C352-04HC**
215	276	173	227	F+R+L075		132	2 200	G½	**C375-04HC**
288	276	173	-	F+R+L080		138	2 300	G¾	**C380-06HC**
325	411	237	345	F+R+L095		480	8 000	G1	**C395-08HC**

C242

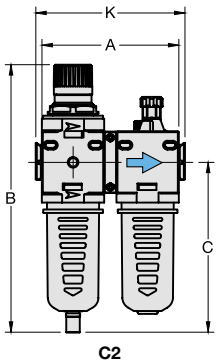
C375

Special options, add the appropriate letter

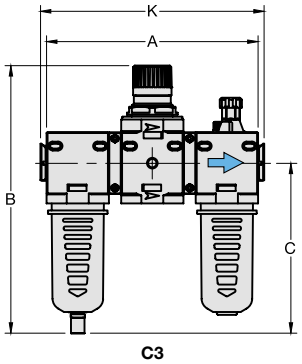
5 µm filter element				C . . . -0 . **G** .
0...12 bar regulating range				C . . . -0 . . **D**
automatic drain	C400200130			C . . . -0 . . . **R**
semiautomatic oil refilling	$P_{min.}$ 3 bar		for C.42 to C.80	C . . . -0 . . . **X65**
oil level indicator	$P_{max.}$ 7 bar	max. 115 V / NO	for C.50 to C.95	C . . . -0 . . . **X66**

Accessories, enclosed

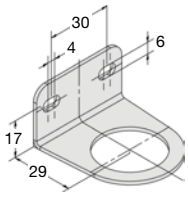
mounting bracket	made of steel, mounting nut at the device	for C.42	**BW30-01**
		for C.50 to C.80	**BW42-01**
set of brackets	made of steel, mounting nut at the device	for C.95	**BW00-02**



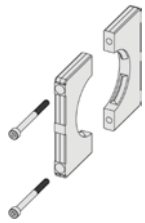
C2

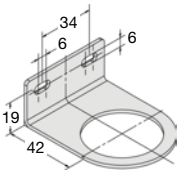


C3

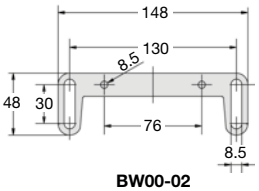


BW30-01





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

* Product group

Further details: see chapter for single devices

PDF CAD
www.aircom.net

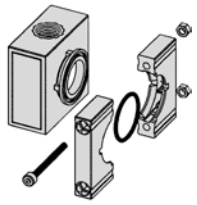
Order example:
C242-02HC

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 G⅛ or G¼ or both outlet plates. • Supply plate for two pressure regulators through port G¼.
- C50 : • Branch plate with compressed air connection G¼. Port installation of the branch plate is only possible using connecting blocks.



assembly components

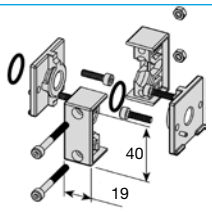
Description	Connection of instruments	for series	Order number
Connection kit	for connecting separate instruments		**C…**
rotary clips with two o-rings	R+F or R+R or F+F	35	**C350100018**
screws, nuts and o-ring	F+R+L or P+B+L	42	**C400500001**
	B+L	42	**C400600001**
	F+L or F+F	42	**C400700001**
connection kit	for any two instruments	42	**C420600001**
		50 / 52	**C500600001**
		75	**C750600001**
		80	**C800600004**
		95	**C950600001**
Branch plate	with compressed air connection port		**C…**
outlet G⅛		42	**C400500102**
outlet G¼		42	**C400500108**
outlet G⅛ and G¼		42	**C400500103**
outlet G⅛ and G¼	with connection kit	42	**C420500003**
supply G¼ for two regulators		42	**C400500111**
outlet G¼		50 / 52	**C500500003**
outlet G¼		75	**C750600002**
outlet G¼		80	**C800600005**
Mounting material			
mounting bracket		for G¼	**BW30-01**
mounting bracket		for G⅜ to G¾	**BW42-01**
wall mounting		for G¼	**C420500001**
wall mounting		for G1	**C950100018**
bracket holder	required in absence of C9506	for G1	**C950100015**

C350100018

Verbindungssatz

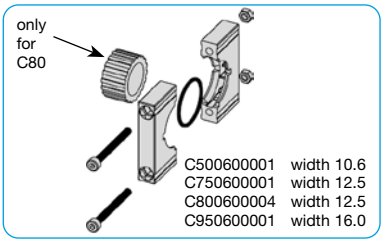
C400500001
C400600001
C400700001

connection kit



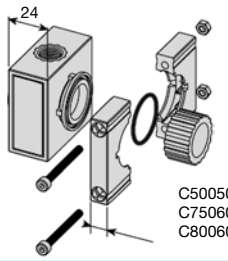
C420600001

connection kit



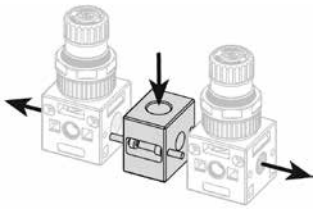
C500600001 width 10.6
C750600001 width 12.5
C800600004 width 12.5
C950600001 width 16.0

connection kit



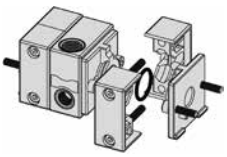
C500500003 width 10.6 mm
C750600002 width 12.6 mm
C800600005 width 12.5 mm

branch plate



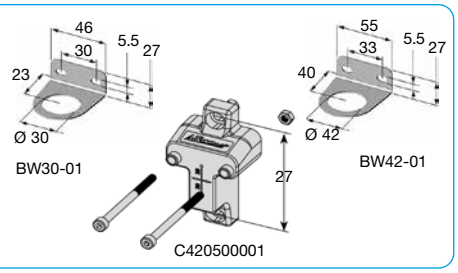
C400500111

supply



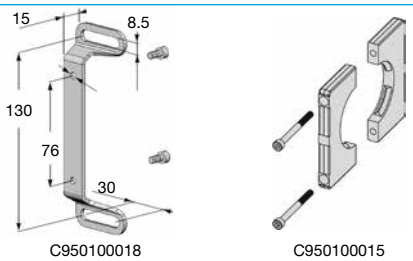
C420500003

branch plate



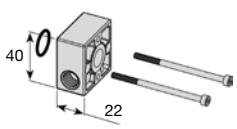
C420500001

mounting brackets



C950100018 C950100015

wall mounting



C400500102
C400500108
C400500103

branch plate

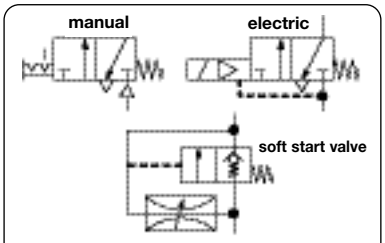
PDF CAD
www.aircom.net

Order example: C350100018

Manual switch-on — Manual switch-on/off valve which relieves at switch-off. Tapped exhaust with connection thread G⅛ or valve G¼. 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 G⅛ or G¼. 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.

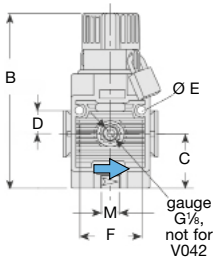


pressure valves

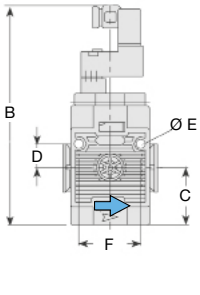
Dimensions A mm	B mm	C mm	Description	Exhaust port G	Flow rate m³/h*1	l/min*1	Connection thread G	Order number	B*
Manual 3-port/2-way valve				supply pressure max. 15 bar, including padlock				**V0**	
42	110	45	manual switch-on	G⅛	96	1600	G¼	**V042-02**	
63	121	36	and switch-off of the	G¼	156	2600	G⅜	**V050-03**	
63	121	36	compressed air circuit	G¼	162	2700	G½	**V052-04**	
75	138	42		G¼	186	3100	G½	**V075-04**	
137	138	42		G¼	192	3200	G¾	**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	G⅛	96	1600	G¼	**S042-02**	
63	145	52	and switch-off of the	G¼	156	2600	G⅜	**S050-03**	
63	145	52	compressed air circuit	G¼	162	2700	G½	**S052-04**	
75	154	63		G¼	186	3100	G½	**S075-04**	
137	154	63		G¼	192	3200	G¾	**S080-06**	
Soft start valve				supply pressure 3...10 bar				**A0**	
42	105	42	slow pressurizing of the		96	1600	G¼	**A042-02**	
63	108	52	pneumatic plant,		156	2600	G⅜	**A050-03**	
63	108	52	delay time adjustable		162	2700	G½	**A052-04**	
75	117	63			186	3100	G½	**A075-04**	
137	117	63			192	3200	G¾	**A080-06**	

Special options, add the appropriate letter

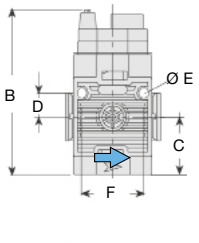
24 V AC, 2 W	input supply voltage	for S0	S0..-0.**X**
115 V AC, 1 W	input supply voltage	for S0	S0..-0.**Y**
230 V AC, 1 W	input supply voltage	for S0	S0..-0.**Z**
pneumatic control	C402600014, instead of electrical operation	for S0	S0..-0.**P**



V0
manual switch-on valve



S0
electric switch-on valve



A0
soft start valve

V052
manual switch-on valve

S052
electric switch-on valve

A052
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

PDF CAD
www.aircom.net

Order example:
V042-02

FRL SERVICE UNIT MADE OF BRASS UP TO 50 BAR CM

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	G¼ on both sides of the body, one screw plug supplied
Filter element	50 µm, optionally 5 µm, made of stainless steel **Relieving function** relieving, optionally non-relieving
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 G⅛ to G1, brass at G1½ and G2 Elastomer: FKM optionally EPDM Knob: plastic at sizes G¼, brass at G½ Inner valve: brass and plastic (not at option X54)

G⅛ and G½, max. 50 bar
-20 to 130 °C / -40 to 266 °F

Dimensions A mm	B mm	C mm	Combination consisting of	Bowl design made of	Flow rate m³/h*1	l/min*1	Connection thread G	Order number
FRL unit, 2-part				P1: max. 50 bar, screw plug,	P2: 0.5...8 bar, relieving,	50 µm, with pressure gauge		**CM2**
138	220	123	BM+LM	stainless steel	51	850	G¼	**CM2-02**
168	247	127			138	2 300	G½	**CM2-04**

CM2-04

FRL unit, 3-part				P1: max. 30 bar, screw plug,	P2: 0.5...8 bar, relieving,	50 µm, with pressure gauge		**CM3**
212	173	129	FM+R120+LM	stainless steel	51	850	G¼	**CM3-02**
256	175	130			138	2300	G½	**CM3-04**

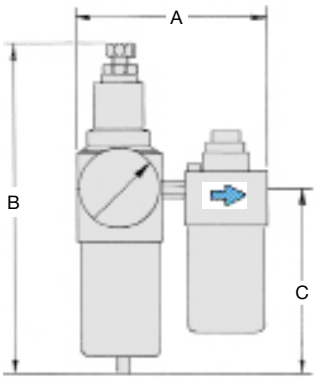
CM3-02

Special options, add the appropriate letter

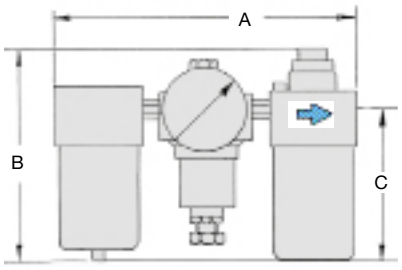
5 µm filter element		CM . - . . **G**
0.2... 3 bar pressure range		CM . - . . **B**
1 ...15 bar pressure range	P1 max. 50 bar	CM . - . . **D**
manual drain	max. 30 bar	CM . - . . **H**
automatic drain	made of stainless steel, max. 16 bar	CM . - . . **R**
up to 130 °C / 266 °F	high temperature version	CM . - . . **X54**
flange connection	see chapter for stainless steel devices / flanges	CM . - . . **F.**

Accessories, enclosed

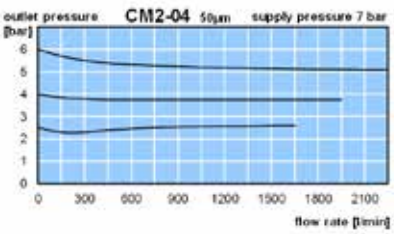
mounting bracket	made of stainless steel	for G¼	**BW35-01S**
mounting nut			**M35x1,5S**
mounting bracket	made of stainless steel	for G½	**BW50-01S**
mounting nut			**M50x1,5S**

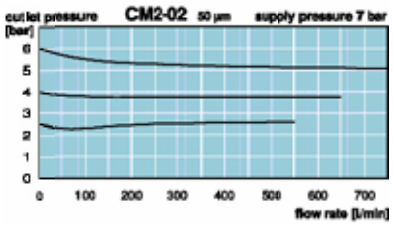


CM2-0. .H



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
Spare parts: see separate spare parts list

PDF CAD
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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	**Filter element**	40 µm, optionally 5 µm, made of polypropylene
Gauge port	G¼ on both sides of the body	**Bowl**	metal version with sight glass
Drainage	manual drain as standard,	optionally automatic drain or semiautomatic drain for max. 12 bar	
Temperature range	0 °C to 70 °C / 32 °F to 158 °F 0 °C to 50 °C / 32 °F to 122 °F for automatic or semiautomatic drain version		
Material	Body: zinc die-cast Knob (C20): glass fibre-reinforced plastic Bowl: zinc die-cast Elastomer: NBR/Buna-N	Spring cage: zinc die-cast T-handle (C21): steel Sight glass: polyurethane Inner valve: brass and plastic	

G½ up to G1

Dimensions A mm	B mm	C mm	Combination consisting of	Bowl design made of / with	Flow rate m³/h*1	l/min*1	Connection thread G	Order number	A*
FRL unit, 2-part				P1: max. 17 bar, P2: 0.3...9 bar, 40 µm, manual drain, relieving, with pressure gauge				**C20**	
178	289	175	B+L20	metal / sight glass	276	4600	G½	**C20-04BL-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				P1: max. 17 bar, P2: 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**	

C20-06BL-W

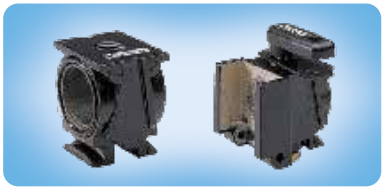
C20-06FRL-W

Special options, add the appropriate letter

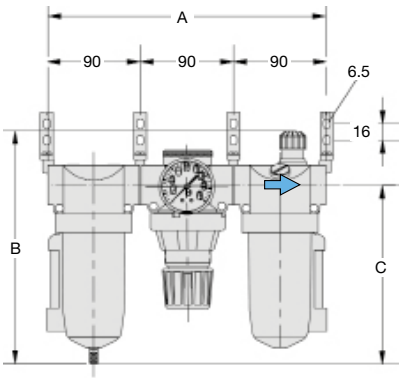
T-handle	including locknut	C**21**-0 . . . . -W
5 µm filter element		C20-0 . . . . -W**G**
NPT	connection thread	C20-0 . . . . -W**N**
0.2... 4 bar pressure range		C20-0 . . . . -W**B**
0.5...17 bar pressure range		C20-0 . . . . -W**D**
semiautomatic drain	RK500SY, max. 12 bar	C20-0 . . . . -W**M**
automatic drain	SA605MD, max. 12 bar	C20-0 . . . . -W**R**

Accessories, enclosed

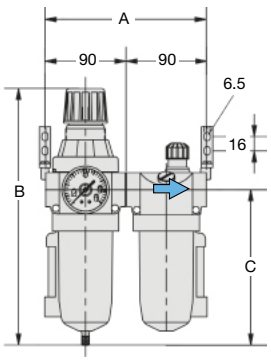
mounting bracket	mounting at the spring cage	**BW45-02**	B*
mounting nut	made of aluminium	**M45x1,5A**	B*
mounting bracket set	made of steel, consisting of two mounting brackets	**MK20-0100**	
porting block	tap G¼, for unlubricated compressed air	**IK20CP**	



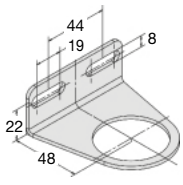
IK20CP **IK20V**



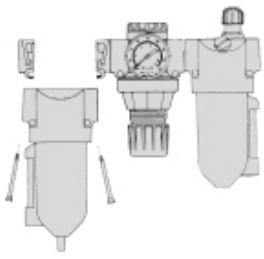
C20- . . FRL mit MK20-0100



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

* Product group

Further details: see chapter for single devices

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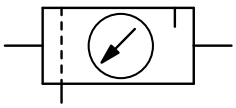
Order example: C20-04BL-W

Description	Solid, low-cost FRL service unit made of aluminium equipped with pressure gauge.
Mediua	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 G1½ by hexagon head screw from G¾ up to G1½ on (CD.-1A.) by T-handle from G1½ (CD.-12.) up to G2 on
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ or G⅛ at CD.-01/-02, on both sides of the body, one screw plug supplied
Filter element	20 µm or 50 µm, optionally 5 µm or 50 µm, made of propylene **Bowl** 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	-10 °C to 50 °C / 14 °F to 122 °F metal bowl with sight glass, for G⅛ to G½ -20 °C to 60 °C / -4 °F to 140 °F metal bowl with sight glass, for G¾ 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



G⅛ up to G2

Dimensions A mm	B mm	C mm	Combination consisting of	Bowl design made of / with	Filter element	Flow rate m³/h*1	l/min*1	Connection thread G	Order number	A*
FRL unit, 2-part				P_1: max. 16 bar, P_2: 0.8...8 bar, 20 / 50 µm, semiautomatic drain, relieving, with gauge					**CD2**	
80	201	128	BD+LD	metal/sight glass	50	27	450	G⅛	**CD2-01**	
								G¼	**CD2-02**	
128	248	148		metal/sight glass	50	108	1800	G⅜	**CD2-03**	
								G½	**CD2-04**	
275	314	179		metal/sight glass	50	300	5000	G¾	**CD2-06**	
								G1	**CD2-08**	
386	314	179		metal/sight glass	50	300	5000	G1¼	**CD2-10**	
								G1½	**CD2-1A**	
355	483	223		metal/sight glass	50	960	16000	G1½	**CD2-12**	
								G2	**CD2-16**	

CD2-01/-02

CD2-03/-04

CD2-10/-1A

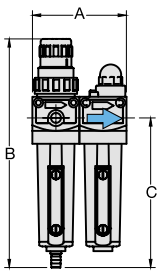
Special options, add the appropriate letter

5 µm 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 G⅜ up to G2	CD2-...**R**

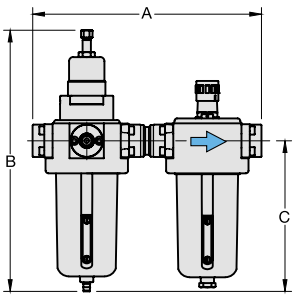
Accessories, enclosed

B*

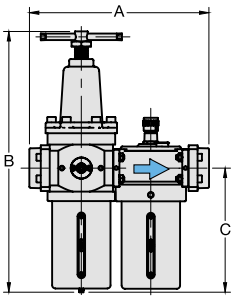
mounting bracket	made of steel	for G⅛ and G¼	**BW30-02**
mounting nut	made of plastic	for G⅛ and G¼	**M30x1,5K**
mounting bracket	made of steel	for G⅜ and G½	**BW50-03**
mounting nut	made of plastic	for G⅜ and G½	**M50x1,5K**
mounting bracket	made of stainless steel	for G¾ up to G1½ (1A)	**BW00-59S**
set of brackets	made of steel	for G1½ (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

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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, 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 A mm	B mm	C mm	Combination consisting of	Bowl design made of/with	Flow rate m³/h*1	l/min*1	Connection thread G	Order number
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	6800	G¾	**C630-06FRL-W**
					516	8600	G1	**C630-08FRL-W**
419	286	206		metal/sight glass	600	10000	G1¼	**C630-10FRL-W**
					630	10500	G1½	**C630-12FRL-W**
485	425	356		metal/sight glass	1590	26500	G2	**C630-16FRL-W**

C630-08FRL-W

C630-16FRL-W

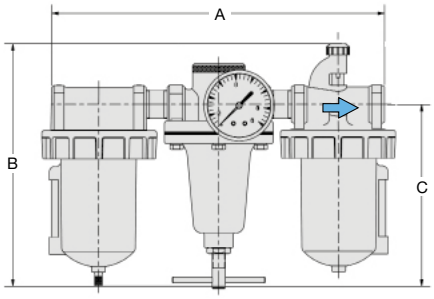
C630-16FRL-WF.
with mounting flange

Special options, add the appropriate letter

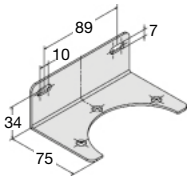
5 µm filter element		C630-0 . . . . - . **G**
NPT	connection thread	C630-0 . . . . - . **N**
0.2... 4 bar pressure range		C630-0 . . . . - . **B**
0.5...17 bar pressure range		C630-0 . . . . - . **D**
semiautomatic drain	RK500SY, max. 12 bar	C630-0 . . . . - . **M**
automatic drain	SA605MD, max. 12 bar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

Accessories, enclosed

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



C630



BW00-24

RK500SY **SA605MD**

*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
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Order example: C630-06FRL-A

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

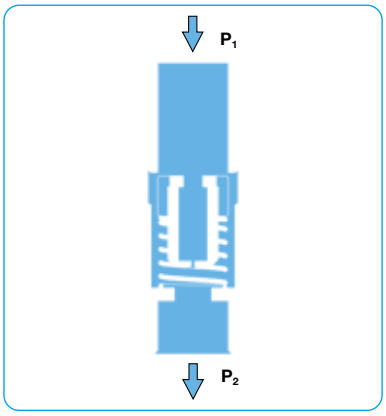
Hose Rupture Valve "HoseGuard®" operating pressure max. 18 bar — 281

Dimensions B mm	C mm	A/F mm	max. flow rate at 8 bar *2 m³/h	l/min	Connection thread G	Order number	A*
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	G⅜	**281A0311**	
58	12	27	65	1080 *1	G⅜ mf	**281A0321**	
58	-	27	87	1450	G⅜	**281ZH0311**	
58	12	27	87	1450	G⅜ 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**	

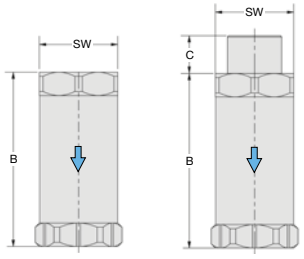
281

Special options, add the appropriate letter

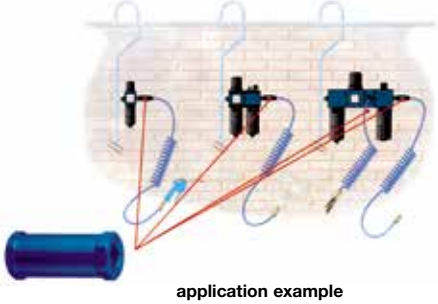
NPT	connection thread for standard version	281A**1** . . .
	connection thread for Low-Flow version	281ZL**1** . . .
	connection thread for High-Flow version	281ZH**1** . . .
stainless steel body		281**R** . . . .



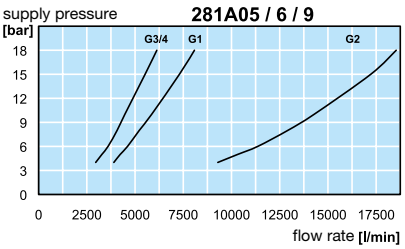
cross-section

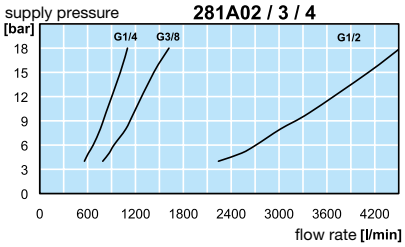


281 **281ai**



application example





*1 Standard version

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

* Product group

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Order example:
281A0211