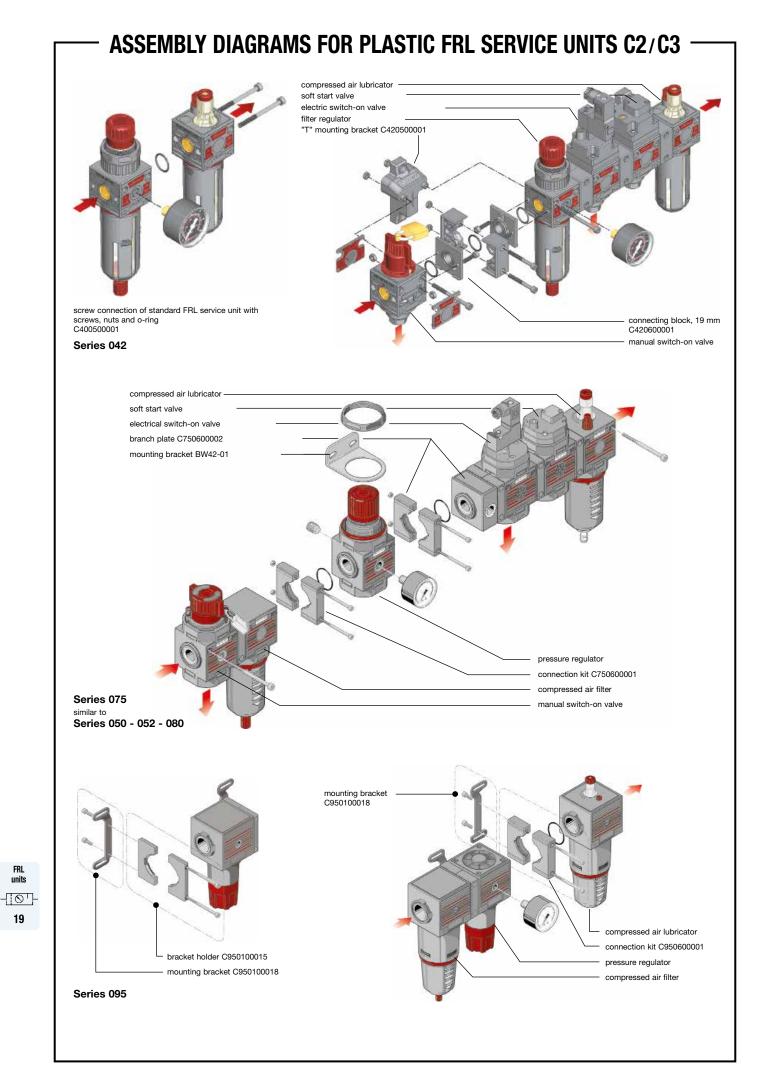
# FRL SERVICE UNITS -

DESCRIPTION		PRESSURE RANGE max. bar	CONNECTION thread	DEVICE	PAGE
assembly diagrams C2	2, C3 2, C3 2, C3	0 8 / 12	G¼ - G1	C2, C3 C35 C95 A0, S0, V0	19.03 19.04 19.05
made of brass, 2- and 3-part	,	0.3 3 / 15	G¼ and G½	СМ	19.06
"Maxi"-Series, made of metal, robust Series "D", made of alu, 2-part Series "D", made of alu, 3-part	:, 2- and 3-part	0.2 4 / 17 0.3 3 / 15 0.3 3 / 15	G½ - G1 G½ - G2 G½ - G2	C20, C21 CD2 CD3	19.07 19.08 19.09
"Standard"-Series, robust		0.2 4 / 17 max. 21	G¾ - G2	C630 SA, RK	19.10 19.11
hose rupture valves, aluminium/sta	ainless steel	max. 18	G¼ - G2	281	19.12



19

units



## **COMPRESSED AIR FRL SERVICE UNITS, MADE OF PLASTIC**

Made up of modular components which can be combined to form compact units. Switch-on and soft start valves available as additional modules. Description

compressed air or non-corrosive gases

Supply pressure Gauge port max, 12.5 bar, max, 7 bar at lubricator with oil level indicator, max, 16 bar for Series 042  $G\frac{1}{8}$  or  $G\frac{1}{4}$  at series 095, on both sides of the body, one screw plug supplied

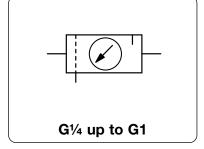
Filter element 20 μm, optionally 5 μm, made of sintered polyethylene plastic version with bayonet catch, series 042 with connection thread

Bowl Drain Oil refilling manual drain with semiautomatic drain, optionally automatic drain

optionally with semiautomatic oil refilling without need to interrupt operation If the oil level falls below the limit value, a float will close a signal contact. Contact: NO Voltage: max. 115 V Oil level indicator

Temperature range Material

0 °C to 50 °C / 32 °F to 122 °F Body: nylon, POM a Bowl: polyamide Elastomer: NBR/Buna-N POM at series 042 Inner valve: brass Thread insert:



	Dimer		nensions		Combination	Combination Bowl Flow Connecti		Flow		Order	
	Α	В	С	K	consist	design	ra	te	thread	number	B*
	mm	mm	mm	mm	of	made of / with	m³/h*1	l/min*1	G		J
•	_										

FRL unit, 2-par		P <sub>1</sub> : max. 12.5 / 16 bar, P <sub>2</sub> : 08 bar, 20 µm, semiautomatic drain, with pressure gauge				
115 239 148 126 E 115 239 148 126 E 139 276 173 151 E 212 276 173 - E	3+L042 plastic/ 3+L050 bowl guard 3+L052 3+L075 3+L080 3+L095	59 84 90 132 138 480	980 1400 1500 2200 2300 8000	G¼ G% G½ G½ G¾ G1	C242-02HC C250-03HC C252-04HC C275-04HC C280-06HC C295-08HC	

٠.	_00	0		D   LO   L	piactic		000	<b>∽</b> /¬	OZ 12 OZ110	
115	239	148	126	B+L050	bowl guard	84	1 400	G%	C250-03HC	
115	239	148	126	B+L052		90	1500	G1/2	C252-04HC	
139	276	173	151	B+L075		132	2200	G1/2	C275-04HC	
212	276	173	-	B+L080		138	2300	G¾	C280-06HC	
210	415	237	230	B+L095		480	8000	G1	C295-08HC	
FRL unit, 3-part			P <sub>1</sub> : max. 12.5 / 16 bar, P <sub>2</sub> : 08 bar, 20 μm, semiautomatic drain, with pressure gauge				C3			
126	208	126	_	F+R+I 042	plastic/	59	980	G1/4	C342-02HC	

		semiautor	nauc drain,	with pressure g	auge	
126 208 126 -	F+R+L042	plastic/	59	980	G1/4	C342-02HC
178 239 148 189	F+R+L050	bowl guard	84	1100	G¾	C350-03HC
178 239 148 189	F+R+L052	•	90	1500	G1/2	C352-04HC
215 276 173 227	7 F+R+L075		132	2200	G1/2	C375-04HC
288 276 173 -	F+R+L080		138	2300	G3/4	C380-06HC
325 411 237 345	5 F+R+L095		480	8000	G1	C395-08HC



5 µm filter element				C0. <b>G</b> .
012 bar regulating range				C0 <b>D</b>
automatic drain	C40020013	0		C0 <b>R</b>
semiautomatic oil refilling	Pmin. 3 bar		for C.42 to C.80	C0 <b>X65</b>
oil level indicator	P <sub>max.</sub> 7 bar	max. 115 V / NO	for C.50 to C.95	C0 <b>X66</b>



C242

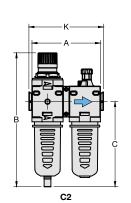


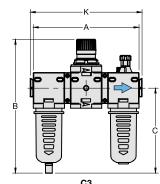
C375

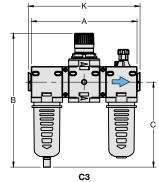
### Accessories, enclosed

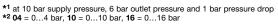
mounting bracket made of steel, mounting nut at the device for C.42 BW30-01 for C.50 to C.80 BW42-01

set of brackets made of steel, mounting nut at the device for C.95 BW00-02









Further details: see chapter for single devices

BW30-01





Order example: C242-02HC

BW00-02

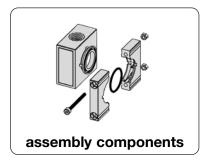
PDF CAD www.aircom.net

BW42-01

FRL

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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 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% or G% or both outlet plates. Supply plate for two pressure regulators through port G1/4. C50 Branch plate with compressed air connection G1/4 Port installation of the branch plate is only possible using connecting blocks.



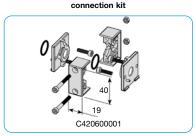
Description	of instruments	for series	Order number	
Connection kit	for connecting separate instrumen	ts	C	

Connection kit	for connecting separate instrument	s	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



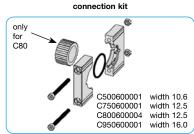
 Verbindungssatz	
0	
C400500001	
C400600001	
C400700001	

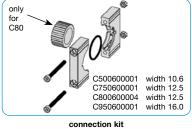
Branch plate	with compressed air connection port		C
outlet G1/8 outlet G1/4 outlet G1/8 and G1/4 outlet G1/8 and G1/4 supply G1/4 for two regulators outlet G1/4 outlet G1/4 outlet G1/4	with connection kit	42 42 42 42 42 50/52 75 80	C400500102 C400500108 C400500103 C420500003 C400500111 C500500003 C750600002 C800600005

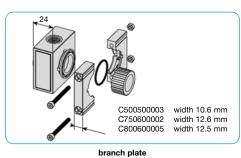


#### **Mounting material** mounting bracket BW30-01 for G1/4 mounting bracket for G3/8 to G3/4 BW42-01 C420500001 wall mounting for G1/4 wall mounting for G1 C950100018

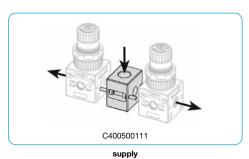
required in absence of C9506





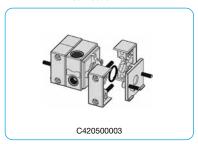


bracket holder

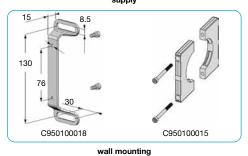


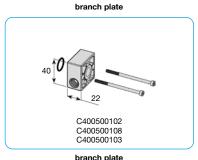
for G1

C950100015



46 . 30 BW42-01 BW30-01 C420500001 mounting brackets





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### **SWITCH-ON AND SOFT START VALVE MADE OF PLASTIC**

Manual switch-on Manual switch-on/off valve which relieves at switch-off. Tapped exhaust with connection thread G% or valve G%. 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 G½ or G¾.

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.

D	imensi	ons	Description	Exhaust	FI	ow	Connection	Order	
Α	В	С	•	port	ra	ite	thread	number	B*
mm	mm	mm		G	m³/h*1	l/min*1	G		

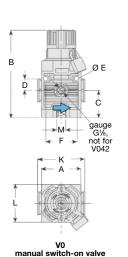
Manual 3-port/2-way valve					supply pressure max. 15 bar, including padlock			
42	110	45	manual switch-on	G1//8	96	1600	G1⁄4	V042-02
63	121	36	and switch-off of the	G1/4	156	2600	G%	V050-03
63	121	36	compressed air circuit	G1⁄4	162	2700	G1/2	V052-04
75	138	42		G1/4	186	3100	G1/2	V075-04
137	138	42		G1/4	192	3200	G3/4	V080-06

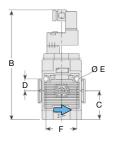
Ele	ctric	3-poi	rt/2-way valve	supply pres	S0			
42	143	42	electric switch-on	G1//s	96	1600	G1/4	S042-02
63	145	52	and switch-off of the	G1/4	156	2600	G%	S050-03
63	145	52	compressed air circuit	G1/4	162	2700	G1/2	S052-04
75	154	63		G1/4	186	3100	G1/2	S075-04
137	154	63		G1/4	192	3200	G¾	S080-06

Sof	ft sta	rt va	alve	supply pres	<b>A</b> 0		
42	105	42	slow pressurizing of the	96	1600	G1⁄4	A042-02
63	108	52	pneumatic plant,	156	2600	G¾	A050-03
63	108	52	delay time adjustable	162	2700	G1/2	A052-04
75	117	63		186	3100	G1/2	A075-04
137	117	63		192	3200	G¾	A080-06

#### Special options, add the appropriate letter

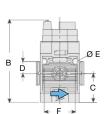
24 V AC, 2 W	input supply voltage	for S0	S00. <b>X</b>
115 V AC, 1 W	input supply voltage	for S0	S00. <b>Y</b>
230 V AC, 1 W	input supply voltage	for S0	S00. <b>Z</b>
pneumatic control	C402600014, instead of electrical operation	for S0	S00. <b>P</b>





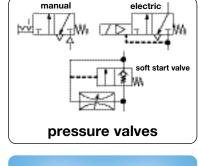


S0 electric switch-on valve





A0 soft start valve





V052 manual switch-on valve



S052 electric switch-on valve



A052 soft start valve

Series	D	ØE	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

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\* Product group

FRL units -[0] 19

<sup>\*1</sup> at 10 bar supply pressure and 1 bar pressure drop

### FRL SERVICE UNIT MADE OF BRASS UP TO 50 BAR

Relieving function relieving, optionally non-relieving

Description Media Supply pressure

**Bowl** Drainage

Material

Extremely robust FRL service unit made of brass.

compressed air, non-corrosive gases or liquids
max. 50 bar at CM2,
max. 30 bar at CM3, optionally max. 50 bar (all without drain) by T-handle with locknut at CM.-04

by black plastic knob at CM.-02, Gauge port Filter element

 $G\frac{1}{4}$  on both sides of the body, one screw plug supplied 50  $\mu$ m, optionally 5  $\mu$ m, made of stainless steel

stainless steel version without sight glass 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 / 32 °F to 212 °F high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F

brass steel 316L / 1.4404 at G½ to G1, brass at G1½ and G2 FKM optionally EPDM plastic at sizes G¼, brass at G½ brass and plastic (not at option X54)

Body: Bowl: Elastomer:

Knob: Inner valve:

-
---

G1/8 and G1/2, max. 50 bar -20 to 130 °C / -40 to 266 °F

(	Dimensions		ns	Combination	Bowl	Bowl Flow		Connection	Order
	Α	В	С	consisting	design	rat	rate		number
	mm	mm	mm	of	made of	m³/h*1	l/min*1	G	

FRL unit, 2-part				P₁: max. 5 screw plu		P <sub>2</sub> : 0.58 bar, ng, with pressu	50 μm, re gauge	CM2
138	220	123	BM+LM	stainless steel	51	850	G1/4	CM2-02
168	247	127			138	2 300	G1/2	CM2-04



CM2-04

FRI	_ uni	t, 3- <sub> </sub>	oart		P <sub>1</sub> : max. 30 bar, P <sub>2</sub> : 0.58 bar, 50 µm, screw plug, relieving, with pressure gauge				
212	173	129	FM+R120+LM	stainless steel	51	850	G1/4	CM3-02	
256	175	130			138	2300	G1/2	CM3-04	



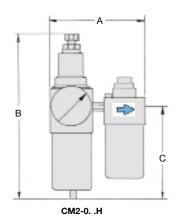
CM3-02

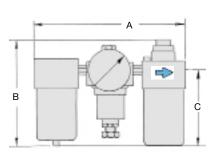
#### Special options. add the appropriate letter

opoolal options, au	tile appropriate letter	
5 µm filter element	CM <b>G</b>	
0.2 3 bar pressure range		CM <b>B</b>
115 bar pressure range	P <sub>1</sub> max. 50 bar	CM <b>D</b>
manual drain	max. 30 bar	CM <b>H</b>
automatic drain	made of stainless steel, max. 16 bar	CM <b>R</b>
up to 130 °C / 266 °F	high temperature version	CM <b>X54</b>
flange connection	see chapter for stainless steel devices / flanges	CM <b>F.</b>

#### Accessories, enclosed

mounting bracket	made of stainless steel	for G1/4	BW35-01S
mounting nut			M35x1,5S
mounting bracket	made of stainless steel	for G½	BW50-01S
mounting nut			M50x1,5S

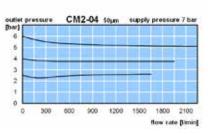


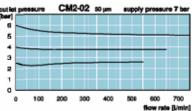


CM3-0. .H

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

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<sup>\*1</sup> at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

### "MAXI" FRL SERVICE UNIT

metal version with sight glass

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

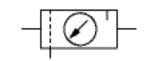
Supply pressure

Adjustment Relieving function by plastic knob with snap-lock at C20, relieving, optionally non-relieving Gauge port G¼ on both sides of the body Drainage Temperature range

by T-handle with locknut at C21 Filter element  $\,$  40  $\mu m,$  optionally 5  $\mu m,$  made of polypropylene optionally automatic drain or semiautomatic drain for max. 12 bar

manual drain as standard, optionally automatic drain or semi 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 Body: zinc die-cast Spring cage: zinc die-cast Material

Spring cage: zinc of T-handle (C21): steel Sight glass: polyu Inner valve: brass Booly: 2 life die-Cast
Knob (C20): glass fibre-reinforced plastic
Bowl: zinc die-Cast
Elastomer: NBR/Buna-N polyurethane brass and plastic



G½ up to G1

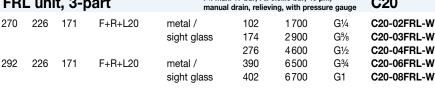
Di	Dimensions		Combination	Bowl	Flow		Connection	· ·	
Α	В	С	consisting	design	ra	te	thread	number	<b>A</b> *
mm	mm	mm	of	made of / with	m³/h*1	l/min*1	G		

FRL unit, 2-part					P <sub>1</sub> : max. 17 bar, P <sub>2</sub> : 0.39 bar, 40 μm, manual drain, relieving, with pressure gauge			
178	289	175	B+L20	metal / sight glass	276	4600	G1//2	C20-04BL-W
203	289	175	B+L20	metal / sight glass	276 390 402	4600 6500 6700	G½ G¾ G1	C20-04BL-W C20-06BL-W C20-08BL-W

FRL unit, 3-	part		P <sub>1</sub> : max. 17 bar, P <sub>2</sub> : 0.39 bar, 40 µm, manual drain, relieving, with pressure gauge			
270     226     171       292     226     171	F+R+L20 F+R+L20	metal / sight glass metal / sight glass	102 174 276 390 402	1700 2900 4600 6500 6700	G¼ G% G½ G¾ G1	C20-02FRL-W C20-03FRL-W C20-04FRL-W C20-06FRL-W C20-08FRL-W



C20-06BL-W



### Special options, add the appropriate letter

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

tap G1/4, for unlubricated compressed air



C20-06FRL-W

#### Accessories, enclosed

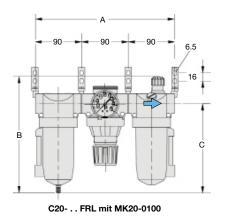
porting block

mounting bracket	mounting at the spring cage
mounting nut	made of aluminium
mounting bracket set	made of steel, consisting of two mounting brackets

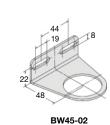
B ' BW45-02 В, M45x1,5A MK20-0100

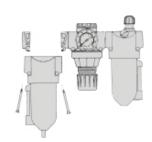
IK20CP





C20-..BL mit MK20-0100



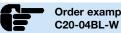


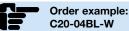
dismantling from fixed piping

 $\star 1$  at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

Further details: see chapter for single devices

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FRL

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## FRL SERVICE UNIT SERIES "D", UP TO 30 BAR

Description Mediua Solid, low-cost FRL service unit made of aluminium equipped with pressure gauge.

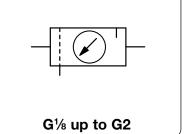
Supply pressure Adjustment

Relieving function

Solid, low-cost HAL service unit made of aluminium equipped with pressure gauge. compressed air or non-corrosive gases max. 16 bar for metal bowl with sight glass, max. 30 bar for metal bowl without sight glass by plastic knob with snap-lock up to G½ by hexagon head screw from G¾ up to G1½ on (CD.-1A.) by T-handle from G1½ (CD.-12.) up to G2 on relieving, optionally non-relieving G¼ or G% at CD.-01/-02, on both sides of the body, one screw plug supplied 20 µm or 50 µm, optionally 5 µm or 50 µm, made of propylene Bowl metal version with or without sight glass contact protection of the proposed propos Gauge port Filter element Drainage Temperature range

semiautomatic drain as standard, optionally automatic (max. 16 bar) or manual drain for max. 30 bar  $^{-10}$  °C to 50 °C /  $^{-4}$  °F to 142 °F metal bowl with sight glass, for G½ 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 with sight glass, for all sizes

Body: Elastomer: Bowl: aluminium NBR/Buna-N aluminium Material



Di	mensic	ns	Combination	Bowl	Filter	Flo	)W	Connection	Order	1
Α	В	С	consisting	design	element	ra	te	thread	number	<b>A</b> *
mm	mm	mm	of	made of / with		m³/h*1	l/min*1	G		
FR	Luni	it 2	-nart		nax. 16 bar, P				CD2	

FRI	L uni	t, 2- <sub> </sub>	part			, P <sub>2</sub> : 0.88 ba drain, relievir			CD2
80	201	128	BD+LD	metal/sight glass	50	27	450	G1// <sub>8</sub> G1// <sub>4</sub>	CD2-01 CD2-02
128	248	148		metal/sight glass	50	108	1800	G% G½	CD2-03 CD2-04
275	314	179		metal/sight glass	50	300	5000	G¾ G1	CD2-06 CD2-08
386	314	179		metal/sight glass	50	300	5000	G1¼ G1½	CD2-10 CD2-1A
355	483	223		metal/sight glass	50	960	16000	G1½ G2	CD2-12 CD2-16



### Special options, add the appropriate letter

	,	
5 µm filter element		CD2 <b>G</b>
0.33 bar regulation ra	nge	CD2 <b>B</b>
115 bar		CD2 <b>E</b>
operating press. 30 bar	only for metal bowl (without sight glass) with manual drain	CD2 <b>NH</b>
manual drain	max. 16 bar	CD2 <b>H</b>
automatic drain	drainage by float valve, max, 16 bar for G\% up to G2	CD2 <b>R</b>



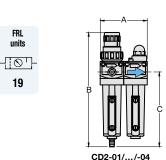
CD2-03/-04

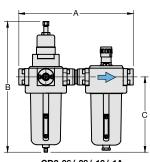
## Accessories, enclosed

Accessories, enclosed									
mounting bracket	made of steel	for G1//a and G1//4	BW30-02						
mounting nut	made of plastic	for G1// <sub>8</sub> and G1// <sub>4</sub>	M30x1,5K						
mounting bracket	made of steel	for G% and G½	BW50-03						
mounting nut	made of plastic	for G% 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 G11/2 (12) and G2	BW00-61						



CD2-10/-1A





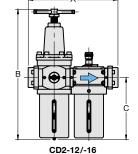






PDF CAD www.aircom.net

В\*



\* Product group



Order example: CD2-01

## FRL SERVICE UNIT SERIES "D", UP TO 30 BAR

Description Solid, low-cost FRL service unit made of aluminium equipped with pressure gauge.

Mediua Supply pressure compressed air or non-corrosive gases max. 16 bar for metal bowl with sight glass, max. 30 bar for metal bowl without sight glass Adjustment

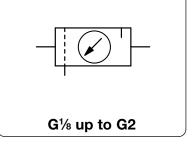
Relieving function

Gauge port Filter element Drainage
Temperature range

max. 16 bar for metal bowl with sight glass, max. 30 bar for metal bowl without sight glass by plastic knob with snap-lock up to 61% by hexagon head screw from 61% up to 61% on (CD.-1A.) from G1½ (CD.-12.) up to G2 on relieving, optionally non-relieving G¼ or 61% at CD.-01/-02, on both sides of the body, one screw plug supplied  $20~\mu m$  or  $50~\mu m$ , optionally  $5~\mu m$  or  $50~\mu m$ , made of propylene **Bowl** metal version with or without sight glass semiautomatic drain as standard, optionally automatic (max. 16 bar) or manual drain for max. 30 bar -10~C to 50~C / 14~F to 12.9~C metal bowl with sight glass, for 63% to 63% or 63% or

aluminium NBR/Buna-N Material

aluminium



		nensio B	ns C	Combination consisting	n Bowl design	Filter element	Flo rat		Connection thread	Order number	Δ*
m	-	mm	mm	of	made of / with		m³/h*1	l/min*¹			
F	RL	_ uni	t, 3-	part		max. 16 bar, I niautomatic d				CD3	
12	20	201	128	FD+RD+LD	metal/sight glass	50	24	400	G1//8	CD3-01	

FRI	L uni	t, 3-	part		o: max. semiauto		CD3			
120	201	128	FD+RD+LD	metal/sight gla	ass	50	24	400	G1/4	CD3-01 CD3-02
192	251	148		metal/sight gla	ass	50	108	1800	G% G½	CD3-03 CD3-04
427	312	179		metal/sight gla	ass	50	228	3800	G¾ G1	CD3-06 CD3-08
531	312	179		metal/sight gla	ass	50	228	3800	G1¼ G1½	CD3-10 CD3-1A
472	399	231		metal/sight gla	ass	50	1320	22 000	G1½ G2	CD3-12 CD3-16



### Special options, add the appropriate letter

	,		
5 µm filter element			CD3 <b>G</b>
0.33 bar regulation ra	nge		CD3 <b>B</b>
115 bar			CD3 <b>E</b>
operating press. 30 bar	only for metal bowl (without sight glass	s) with manual drain	CD3 <b>NH</b>
manual drain	max. 16 bar		CD3 <b>H</b>
automatic drain	drainage by float valve, max. 16 bar	for G% up to G2	CD3 <b>R</b>



CD3-03/-04

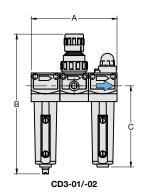
### Accessories, enclosed

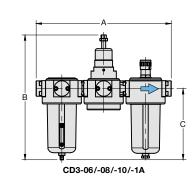
mounting bracket made of steel mounting nut made of plastic mounting bracket made of steel mounting nut made of plastic mounting bracket made of stainless steel set of brackets made of steel

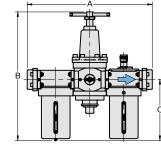




CD3-12/-16







CD3-12/-16

Further details: see chapter for single devices

PDF CAD www.aircom.net



\* Product group

FRL -[0] 19

<sup>\*1</sup> at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

### STANDARD FRL SERVICE UNIT

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 Adjustment max. 17 bar for metal bowl with sight glass

by T-handle with locknut, by plastic knob with snap-lock on pilot regulator at size  $\ensuremath{\mathsf{G2}}$ Relieving function Air consumption only for pilot pressure at size G2

relieving, optionally non-relieving

Air consur

G¼ on both sides of the body, one screw plug supplied Gauge port Filter element 40 μm, optionally 5 μm, made of polypropylene

Bowl metal version with sight glass

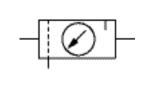
for max. 21 bar for max. 12 / 16 bar for max. 18 bar manual drain as standard Drainage optionally internal automatic drain or external automatic drain

0 °C to 70 °C / 32 °F to 158 °F for metal bowl with sight glass Temperature range

NBR/Buna-N Material Body: Bowl: zinc die-cast Elastomer: Inner valve: polyurethane, zinc die-cast or steel

Dir	mensi	ons	Combination	Bowl	Fle	ow	Connection	Order	
Α	В	С	consisting	design	ra	ite	thread	number	P
mm	mm	mm	of	made of/with	m³/h*1	l/min*1	G		

FR	L ur	nit, 3	3-part	P <sub>1</sub> : max. 17 bar, P <sub>2</sub> : 0.39 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	10 000 10 500	G1¼ G1½	C630-10FRL-W C630-12FRL-W
485	425	356		metal/sight glass	1590	26500	G2	C630-16FRL-W



G¼ up to G2



C630-08FRL-W



C630-16FRL-W



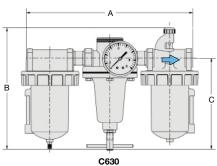
C630-16FRL-WF. with mounting flange

### Special options, add the appropriate letter

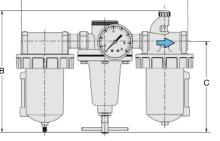
5 µm filter element		C630-0 <b>G</b>
NPT	connection thread	C630-0 <b>N</b>
0.2 4 bar pressure rang	ge	C630-0 <b>B</b>
0.517 bar pressure rang	ge	C630-0 <b>D</b>
semiautomatic drain	RK500SY, max. 12 bar	C630-0 <b>M</b>
automatic drain	SA605MD, max. 12 bar	C630-0 <b>R</b>
flange connection	see chapter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

#### Accessories, enclosed

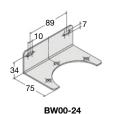
for G¾ to G1½ BW00-24 mounting bracket made of steel



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



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RK500SY

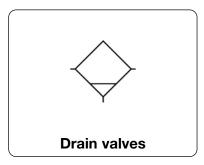
Product group

SA605MD



Further details: see chapter for single devices

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	$0^{\circ}\text{C}$ to $50^{\circ}\text{C}$ / $32^{\circ}\text{F}$ to $122^{\circ}\text{F}$ 0 $^{\circ}\text{C}$ to $80^{\circ}\text{C}$ / $32^{\circ}\text{F}$ to $176^{\circ}\text{F}$ for manual drain made of brass for appropriately conditioned compressed air down to -30 $^{\circ}\text{C}$ / -22 $^{\circ}\text{F}$



Valve type Des	cription For filter / filter regulate	bowl pro	perating Order ressure number lax. bar
----------------	---	----------	--

Drain valve	S	1/6"-27 NPSM thread of internal valve			SA/RK
manual drain	made of brass	F20/ F504/F602 / B11/B12/B20/B21/ B548	all	21	SA600Y-71
	made of plastic	F20/ F504/F602/ B11/B12/B20/B21/ B548	all	21	AWF-10
semiautomatic	piston drain	F504	all	12	RK504SY
drain	•	F602-02/-03	A/B/W	12	RK602SY
drainage after		B11/B12	all	12	4210
pressure switch-o		F20	all	12	4212
•	spring-loaded	F20/	all	12	RK504SY
		F20/	all	12	RK500SY
		F504/F602/ B11/B12/B20/B21/ B548			
automatic drain effective from	internal mounting	F20/F602/B11/ B12/B20/B21/	all	12	SA605MD
2 bar on		F20/F602/ B20/B21	all	16	SA702MD
	external mounting	F602-04 to -20 F602-04 to -20	A/B/W E/F	18 18	SA602D SA603D



manual drains

RK504SY piston drains



RK500SY semiautomatic drain



SA605MD SAF105MD internal automatic drains





SA602D external automatic drain



SA603D external automatic drain

Order example: SA600Y-71

PDF CAD www.aircom.net \* Product group

FRL units -[0] 19

## **HOSE RUPTURE VALVE "HOSEGUARD®"**

Air supply is immediately shut off when volume flow exceeds a specific value. The maximum admissible Description

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.

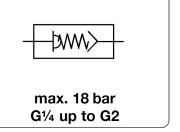
Function

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 Temperature range Material

"-20 °C to 80 °C /-4 °F to 176 °F at G¼ to G½,
Body: aluminium, optionally stainless steel
Inner valve: aluminium and plastic

up to 120 °C / 248 °F at G% to G2 Elastomer: NBR/Buna-N



Dimensions		max. flow rate		Connection	Order			
	В	С	A/F	at 8 k	oar *2	thread	number	<b>A</b> *
	mm	mm	mm	m³/h	l/min	G		J

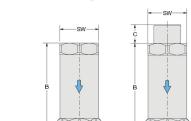
Hos	e Rupt	ure Va	Ive "Hose	eGuard®"	operating pressure max. 18 bar	281
49 49 49 49 49 49 58	10 - 10 - 10 - 10 -	22 22 22 22 22 22 22 27 27	46 46 3 3 60 60 65	760 *1 760 *1 52 52 990 990 1 080 *1 1 080 *1	G1/4 G1/4 mf G1/4 G1/4 mf G1/4 mf G% G% mf	281A0211 281A0221 281ZL0211 281ZL0221 281ZH0211 281ZH0221 281A0311 281A0321
58 58	12	27 27	87 87	1 450 1 450	G% G%mf	281ZH0311 281ZH0321
65 64 65 64	- 15 - 15	30 30 30 30	181 181 206 206	3 020 *1 3 020 *1 3 440 3 440	G½ G½mf G½ G½mf	281A0411 281A0421 281ZH0411 281ZH0421
76 76 100 100 130	- - - -	30 30 41 41 70	244 315 313 456 775	4 070 *1 5 250 5 220 *1 7 600 12 920 *1	G¾ G¾ G1 G1 G2	281A0511 281ZH0511 281A0611 281ZH0611 281A0911
_		· -				

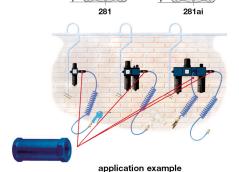


NPT

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

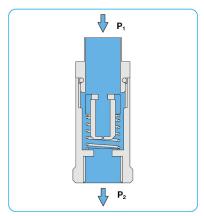
stainless steel body



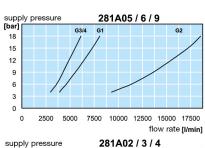


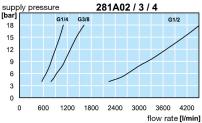
<sup>\*1</sup> Standard version

281



cross-section





\* Product group





281A**1** . . . 281ZL**1** . . .

281ZH1 . . .

281**R** . . . .

FRL

 $<sup>^{\</sup>star2}$  volume flow measurement according to DIN EN60534 (± 10% for closing)