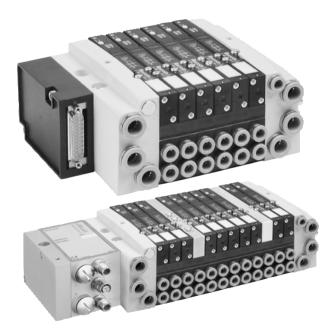
Valve systems - Valve systems



Brochure



Valve systems ► Valve systems Series HF03-LG

	Valve system, Series HF03-LG ► Qn Max. = 700 I/min ► Multipole ► Electr. connection: D-Sub plug, 25-pin, on the side / D-Sub plug, 44-pin, on the side	
	Valve system, Series HF03-LG ► Qn Max. = 700 I/min ► Direct field bus connection (BDC) ► B-design	
State 1	Valve system, Series HF03-LG ► Qn Max. = 700 I/min ► Field bus connection with I/O functionality (CMS) ► B-design	
	Valve system, Series HF03-LG ► Qn Max. = 700 I/min ► Connection with diagnosis (DDL) ► B-design	
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	Valve system, Series HF03-LG ► Qn Max. = 700 I/min ► Field bus connection with AS i ► B-design	
alves		
JI THE STREET	2x3/2-directional valve, Series HF03-LG ► for Series HF03-LG, CL03 ► Qn = 850 l/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: with detent ► Pilot: external, internal	
1	2x3/2-directional valve, Series HF03-LG ► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: without detent ► Pilot: external, internal	
	5/2-directional valve, Series HF03-LG ► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: with detent ► single solenoid, double solenoid ► Pilot: external, internal	
1	5/2-directional valve, Series HF03-LG ► for Series HF03-LG, CL03 ► Qn = 850 l/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: without detent ► single solenoid, double solenoid ► Pilot: external, internal	
1	5/3-directional valve, Series HF03-LG ► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► closed center ► plate connection ► Manual override: with detent ► Pilot: external, internal	
	5/3-directional valve, Series HF03-LG ► for Series HF03-LG, CL03 ► Qn = 850 l/min ► Pilot valve width: 16 mm ► closed center ► plate connection ► Manual override: without detent ► Pilot: external, internal	

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## Valve systems ► Valve systems Series HF03-LG

4

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► Qn Max. = 700 I/min ► Multipole ► Electr. connection: D-Sub plug, 25-pin, on the side / D-Sub plug, 44-pin, on the side



Blocking principle	Single base plate principle
Working pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	+0°C/+50°C
Medium temperature min./max.	+0°C/+50°C
Medium	Compressed air
Max. particle size	5 <i>µ</i> m
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Protection class with connection	IP65
Number of valve positionsmax.	24 / 32
Number of solenoid coilsmax.	24 / 32
DC operating voltage	24 V
Voltage tolerance DC	-15% / +20%

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

### **Technical Remarks**

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- See the following pages on the series for technical data on individual components.
- The flow of the individual valves depends on the base plate, so here the flow is 700 l/min.
- For push-in fittings, only use plug accessories made of plastic (polyamide) from our catalog.
- It is necessary to maintain the electrical current in the coil of double solenoid valves to avoid unexpected auto-switching.

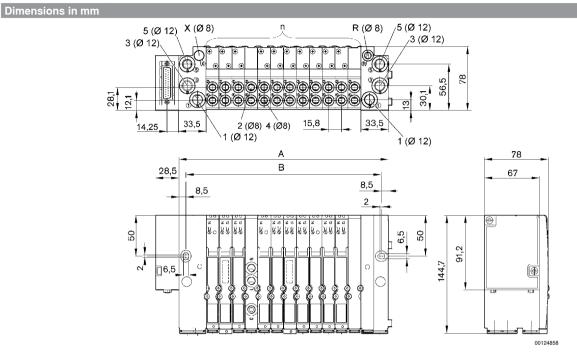
Configurable product	
	This product is configurable. Please use our Internet configurator at http://www.aventics.com or contact the nearest AVENTICS sales office.

**FNT** 

Valve systems ► Valve systems

## Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Multipole ► Electr. connection: D-Sub plug, 25-pin, on the side / D-Sub plug, 44-pin, on the side



1 = plug-in connection  $\emptyset$  12 mm or 1/2"

2 and 4 = plug-in connection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection  $\emptyset$  12 mm or 1/2"

R = collected pilot exhaust, plug-in connection  $\emptyset$  8 mm or 1/4"

X = external pilot control, plug-in connection Ø 8 mm or 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

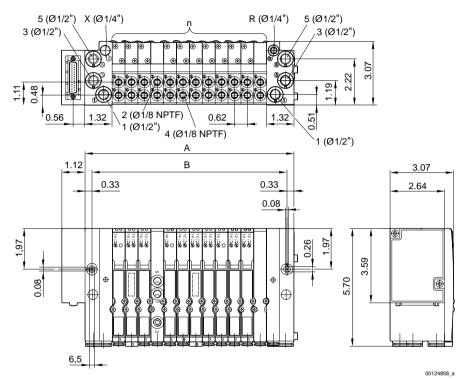
n	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	82.8	98.6	114.4	130.2	146	161.8	177.6	193.4	209.2	225	240.8	256.6	272.4	288.2
В	65.8	81.6	97.4	113.2	129	144.8	160.6	176.4	192.2	208	223.8	239.6	255.4	271.2
	4 -	10	4.5	10	10	00	04	00	00	04				
n	15	16	17	18	19	20	21	22	23	24				
A	304	319.8	335.6	351.4	367.2	383	398.8	414.6	430.4	446.2				
В	287	302.8	318.6	334.4	350.2	366	381.8	397.6	413.4	429.2				

n = number of subbases



► Qn Max. = 700 I/min ► Multipole ► Electr. connection: D-Sub plug, 25-pin, on the side / D-Sub plug, 44-pin, on the side

Dimensions in inches



1 = plug-in connection  $\emptyset$  12 mm or 1/2"

2 and 4 = plug-in connection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection Ø 12 mm or 1/2"

R = collected pilot exhaust, plug-in connection  $\emptyset$  8 mm or 1/4"

X = external pilot control, plug-in connection  $\emptyset$  8 mm or 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	3.26	3.88	4.5	5.13	5.75	6.37	6.99	7.61	8.24	8.86	9.48	10.1	10.72	11.35
В	2.59	3.21	3.83	4.46	5.08	5.7	6.32	6.94	7.57	8.19	8.81	9.43	10.06	10.68
	4 -	10	4 -	10	10		04	00	00					
n	15	16	17	18	19	20	21	22	23	24				
A	11.97	12.59	13.21	13.83	14.46	15.08	15.7	16.32	16.94	17.57				
В	11.3	11.92	12.54	13.17	13.79	14.41	15.03	15.65	16.28	16.9				
n = numb	n = number of subbases													

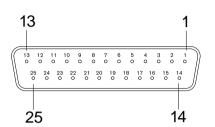
## Ø 8

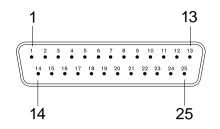
Valve systems ► Valve systems

### Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Multipole ► Electr. connection: D-Sub plug, 25-pin, on the side / D-Sub plug, 44-pin, on the side

Multipole plug (25-pin), cable identification as per DIN 47100





Socket (female)

Socket (female)

Plug (male)

00136701

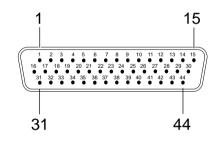
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Pin	1	2	3	4	5	(	6	7	8	3	9 1	0 11	1 12	13
Color	white	brown	green	yellow	gray	pinl	٢	blue	red	sld bla	ick viol	et gray/pinl	k red/blue	white/ green
Pin	14	. 1:	5 16	6	17	18	19	2	0	21	22	23	24	25
Color	brown/ green			0		ray/ whi own	ite/pink	pin brov		hite/blue	brown/ blue	white/red	brown/red	white/ black

Multipole plug (44-pin), cable identification as per DIN 47100

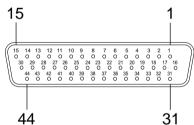
brown

yellow



00137727\_a

00137724



Plug (male)

Pin	1	2	3	4	5	1	6	7		8	ç	9	10 1	1 12	13
Color	white	brown	green	yellow	gray	F	pink	blue		red	black	k vi	olet gray/pin	k red/blue	white/ green
Pin	14	. 15	5	6	17	18	1	э	20		21	22	2 23	24	25
Color	brown/ green					gray/ v rown	white/pin		pink/ brown	white/	olue	brown blue		brown/red	white/ black
Pin	26	2	7 2	18	29	30	3	1	32		33	34	35	36	37
Color	brown/ black	1 0 1	-		nk/ ye	ellow/ pink	greer blu		/ellow/ blue	green	/red y	yellow/red	l green/ black	yellow/ black	gray/blue
Pin			38		9		40		41			42		43	44
Color		pink/t		gray/re	-	pink/	-	gra	ay/black		pinł	<td>blue/b</td> <td></td> <td>red/black</td>	blue/b		red/black

► Qn Max. = 700 I/min ► Direct field bus connection (BDC) ► B-design



Version
Blocking principle
Working pressure min./max.
Ambient temperature min./max.
Medium temperature min./max.
Medium
Max. particle size
Oil content of compressed air
Protection class, with plug
Number of valve positions
Number of solenoid coils
Operational voltage electronics
Electronics voltage tolerance
Lubricant

Field bus Single base plate principle 3 bar / 10 bar  $+0^{\circ}C / +50^{\circ}C$   $+0^{\circ}C / +50^{\circ}C$ Compressed air 5  $\mu$ m 0 mg/m<sup>3</sup> - 5 mg/m<sup>3</sup> IP65 32 32 24 V DC -15% / +20%ISO 21469 (NSF-H1)

VENTI

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

### **Technical Remarks**

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- See the following pages on the series for technical data on individual components.
- The technical data for the electronics (link structures) can be found in the section "Fieldbus Connections".
- The flow of the individual valves depends on the base plate, so here the flow is 700 l/min.
- For push-in fittings, only use plug accessories made of plastic (polyamide) from our catalog.
- It is necessary to maintain the electrical current in the coil of double solenoid valves to avoid unexpected auto-switching.

### Configurable product



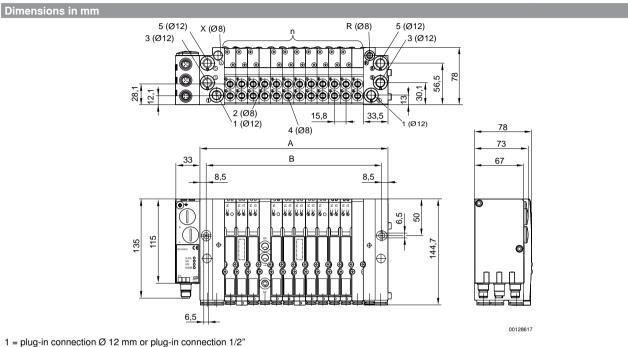
This product is configurable. Please use our Internet configurator at http://www.aventics.com or contact the nearest AVENTICS sales office.

### Ø 10

Valve systems ► Valve systems

### Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Direct field bus connection (BDC) ► B-design



2 and 4 = plug-in connection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF 3 and 5 = plug-in connection Ø 12 mm or plug-in connection  $1/2^{"}$ 

R = collected pilot exhaust, plug-in connection Ø 8 mm or plug-in connection 1/4"

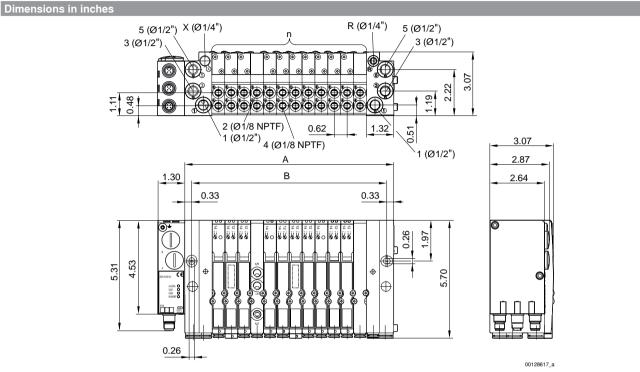
X = external pilot control, plug-in connection Ø 8 mm or plug-in connection 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Α	82.8	98.6	114.4	130.2	146	161.8	177.6	193.4	209.2	225	240.8	256.6	272.4	288.2
В	65.8	81.6	97.4	113.2	129	144.8	160.6	176.4	192.2	208	223.8	239.6	255.4	271.2
n	15	16	17	18	19	20	21	22	23	24	25	26	27	28
A	304	319.8	335.6	351.4	367.2	383	398.8	414.6	430.4	446.2	462	477.8	493.6	509.4
В	287	302.8	318.6	334.4	350.2	366	381.8	397.6	413.4	429.2	445	460.8	476.6	492.4
n	29	30	31	32										
Α	525.2	541	556.8	572.6										
в	508.2	524	539.8	555.6										
n = number of subbases														

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

► Qn Max. = 700 I/min ► Direct field bus connection (BDC) ► B-design



1 = plug-in connection Ø 12 mm or plug-in connection 1/2"

2 and 4 = plug-in connection  $\emptyset$  8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection Ø 12 mm or plug-in connection 1/2"

R = collected pilot exhaust, plug-in connection  $\emptyset$  8 mm or plug-in connection 1/4"

X = external pilot control, plug-in connection Ø 8 mm or plug-in connection 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4	5	6	7	8	9	10	11	12	13	14
А	3.26	3.88	4.5	5.13	5.75	6.37	6.99	7.61	8.24	8.86	9.48	10.1	10.72	11.35
В	2.59	3.21	3.83	4.46	5.08	5.7	6.32	6.94	7.57	8.19	8.81	9.43	10.06	10.68
n	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Α	11.97	12.59	13.21	13.83	14.46	15.08	15.7	16.32	16.94	17.57	18.19	18.81	19.43	20.06
В	11.3	11.92	12.54	13.17	13.79	14.41	15.03	15.65	16.28	16.9	17.52	18.14	18.76	19.39
n	29	30	31	32										
А	20.68	21.3	21.92	22.54										
в	20.01	20.63	21.25	21.87										
i = numbe	er of subba	ses												

Valve systems ► Valve systems

### Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Field bus connection with I/O functionality (CMS) ► B-design



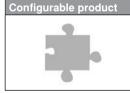
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Version Blocking principle Working pressure min./max. Ambient temperature min./max. Medium temperature min./max. Medium Max. particle size Oil content of compressed air Protection class, with plug Number of valve positions Operational voltage electronics Electronics voltage tolerance Lubricant field bus CMS Single base plate principle 3 bar / 10 bar +0°C / +50°C Compressed air 5  $\mu$ m 0 mg/m<sup>3</sup> - 5 mg/m<sup>3</sup> IP65 32 24 V DC -15% / +20% ISO 21469 (NSF-H1)

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

### **Technical Remarks**

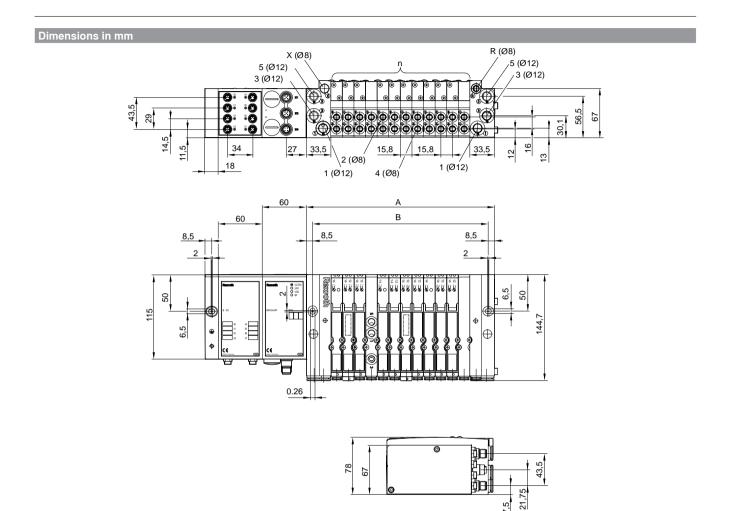
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- See the following pages on the series for technical data on individual components.
- The technical data for the electronics (link structures) can be found in the section "Fieldbus Connections".
- The flow of the individual valves depends on the base plate, so here the flow is 700 l/min.
- For push-in fittings, only use plug accessories made of plastic (polyamide) from our catalog.
- It is necessary to maintain the electrical current in the coil of double solenoid valves to avoid unexpected auto-switching.



This product is configurable. Please use our Internet configurator at http://www.aventics.com or contact the nearest AVENTICS sales office.

Pneumatics catalog, online PDF, as of 2017-02-21, ©AVENTICS S.à r.l., subject to change

► Qn Max. = 700 I/min ► Field bus connection with I/O functionality (CMS) ► B-design



1 = plug-in connection  $\emptyset$  12 mm or 1/2"

2 and 4 = plug-in connection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection Ø 12 mm or 1/2"

R = collected pilot exhaust, plug-in connection Ø 8 mm or 1/4"

X = external pilot control, plug-in connection Ø 8 mm or 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	82.8	98.6	114.4	130.2	146	161.8	177.6	193.4	209.2	225	240.8	256.6	272.4	288.2
В	65.8	81.6	97.4	113.2	129	144.8	160.6	176.4	192.2	208	223.8	239.6	255.4	271.2
n	15	16	17	18	19	20	21	22	23	24	25	26	27	28
A	304	319.8	335.6	351.4	367.2	383	398.8	414.6	430.4	446.2	462	477.8	493.6	509.4
В	287	302.8	318.6	334.4	350.2	366	381.8	397.6	413.4	429.2	445	460.8	476.6	492.4
n	29	30	31	32										
A	525.2	541	556.8	572.6										
В	508.2	524	539.8	555.6										
n = numbe	er of subba	ises	·			J				]				

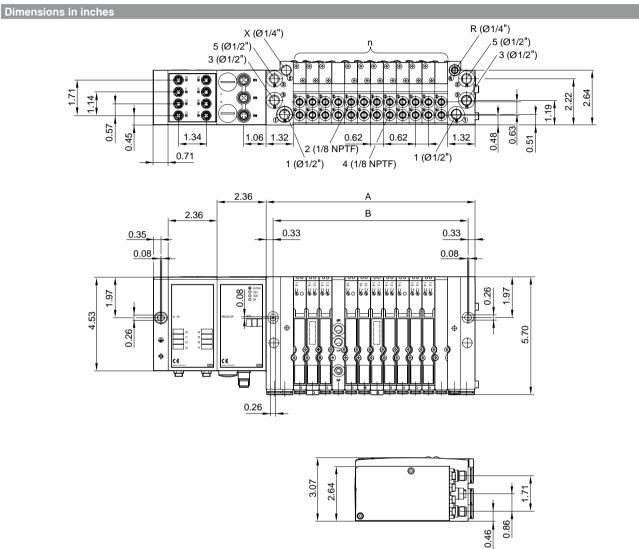
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Valve systems ► Valve systems

### Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Field bus connection with I/O functionality (CMS) ► B-design



00124629\_a

1 = plug-in connection  $\emptyset$  12 mm or 1/2"

2 and 4 = plug-in connection  $\emptyset$  8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection  $\emptyset$  12 mm or 1/2"

R = collected pilot exhaust, plug-in connection Ø 8 mm or 1/4"

X = external pilot control, plug-in connection Ø 8 mm or 1/4", connection X plugged with internal pilot control An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Α	3.26	3.88	4.5	5.13	5.75	6.37	6.99	7.61	8.24	8.86	9.48	10.1	10.72	11.35
В	2.59	3.21	3.83	4.46	5.08	5.7	6.32	6.94	7.57	8.19	8.81	9.43	10.06	10.68
n	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Α	11.97	12.59	13.21	13.83	14.46	15.08	15.7	16.32	16.94	17.57	18.19	18.81	19.43	20.06
В	11.3	11.92	12.54	13.17	13.79	14.41	15.03	15.65	16.28	16.9	17.52	18.14	18.76	19.39
n	29	30	31	32										
Α	20.68	21.3	21.92	22.54										
В	20.01	20.63	21.25	21.87										
n = numbe	er of subba	ses												

► Qn Max. = 700 I/min ► Connection with diagnosis (DDL) ► B-design



Version Blocking principle Working pressure min./max. Ambient temperature min./max. Medium temperature min./max. Medium Max. particle size Oil content of compressed air Protection class, with plug Number of valve positions Number of solenoid coils Operational voltage electronics Electronics voltage tolerance Lubricant Link structure DDL Single base plate principle 3 bar / 10 bar +0°C / +50°C +0°C / +50°C Compressed air 5  $\mu$ m 0 mg/m<sup>3</sup> - 5 mg/m<sup>3</sup> IP65 32 32 24 V DC -15% / +20% ISO 21469 (NSF-H1)

VFNTI

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

### **Technical Remarks**

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- See the following pages on the series for technical data on individual components.
- The technical data for the electronics (link structures) can be found in the section "Fieldbus Connections".
- The flow of the individual valves depends on the base plate, so here the flow is 700 l/min.
- For push-in fittings, only use plug accessories made of plastic (polyamide) from our catalog.
- It is necessary to maintain the electrical current in the coil of double solenoid valves to avoid unexpected auto-switching.

### Configurable product



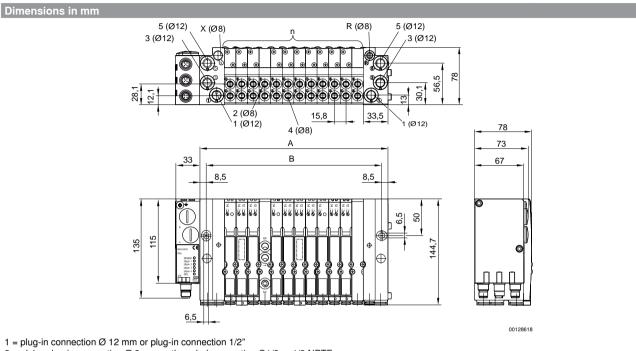
This product is configurable. Please use our Internet configurator at http://www.aventics.com or contact the nearest AVENTICS sales office.

### Ø 16

Valve systems ► Valve systems

### Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Connection with diagnosis (DDL) ► B-design



2 and 4 = plug-in connection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF 3 and 5 = plug-in connection Ø 12 mm or plug-in connection  $1/2^{"}$ 

R = collected pilot exhaust, plug-in connection Ø 8 mm or plug-in connection 1/4"

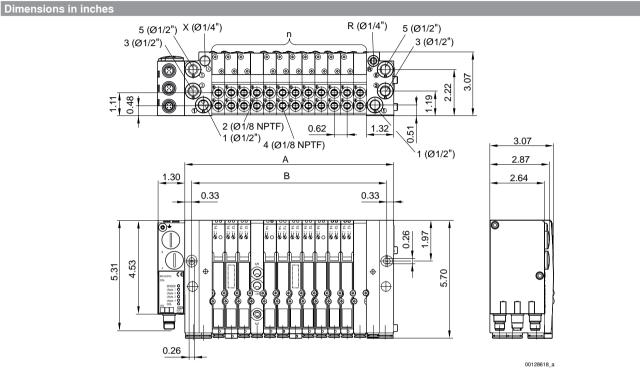
X = external pilot control, plug-in connection Ø 8 mm or plug-in connection 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4	5	6	7	8	9	10	11	12	13	14
А	82.8	98.6	114.4	130.2	146	161.8	177.6	193.4	209.2	225	240.8	256.6	272.4	288.2
В	65.8	81.6	97.4	113.2	129	144.8	160.6	176.4	192.2	208	223.8	239.6	255.4	271.2
n	15	16	17	18	19	20	21	22	23	24	25	26	27	28
А	304	319.8	335.6	351.4	367.2	383	398.8	414.6	430.4	446.2	462	477.8	493.6	509.4
В	287	302.8	318.6	334.4	350.2	366	381.8	397.6	413.4	429.2	445	460.8	476.6	492.4
n	29	30	31	32										
А	525.2	541	556.8	572.6										
В	508.2	524	539.8	555.6										
n = numbe	number of subbases												`	

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

► Qn Max. = 700 I/min ► Connection with diagnosis (DDL) ► B-design



1 = plug-in connection Ø 12 mm or plug-in connection 1/2"

2 and 4 = plug-in connection  $\emptyset$  8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection  $\emptyset$  12 mm or plug-in connection 1/2"

R = collected pilot exhaust, plug-in connection  $\emptyset$  8 mm or plug-in connection 1/4"

X = external pilot control, plug-in connection Ø 8 mm or plug-in connection 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4	5	6	7	8	9	10	11	12	13	14
А	3.26	3.88	4.5	5.13	5.75	6.37	6.99	7.61	8.24	8.86	9.48	10.1	10.72	11.35
В	2.59	3.21	3.83	4.46	5.08	5.7	6.32	6.94	7.57	8.19	8.81	9.43	10.06	10.68
n	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Α	11.97	12.59	13.21	13.83	14.46	15.08	15.7	16.32	16.94	17.57	18.19	18.81	19.43	20.06
В	11.3	11.92	12.54	13.17	13.79	14.41	15.03	15.65	16.28	16.9	17.52	18.14	18.76	19.39
n	29	30	31	32										
А	20.68	21.3	21.92	22.54										
в	20.01	20.63	21.25	21.87										
i = numbe	er of subba	ses												

Valve systems ► Valve systems

### Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Connection with diagnosis, optionally with I/O function (DDL) ► B-design



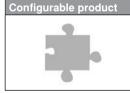
00125893

Version Blocking principle Working pressure min./max. Ambient temperature min./max. Medium temperature min./max. Medium Max. particle size Oil content of compressed air Protection class, with plug Number of valve positions Operational voltage electronics Electronics voltage tolerance Lubricant Link structure DDL Single base plate principle 3 bar / 10 bar +0°C / +50°C +0°C / +50°C Compressed air 5  $\mu$ m 0 mg/m<sup>3</sup> - 5 mg/m<sup>3</sup> IP65 24 24 V DC -15% / +20% ISO 21469 (NSF-H1)

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

### **Technical Remarks**

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- See the following pages on the series for technical data on individual components.
- The technical data for the electronics (link structures) can be found in the section "Fieldbus Connections".
- The flow of the individual valves depends on the base plate, so here the flow is 700 l/min.
- For push-in fittings, only use plug accessories made of plastic (polyamide) from our catalog.
- It is necessary to maintain the electrical current in the coil of double solenoid valves to avoid unexpected auto-switching.

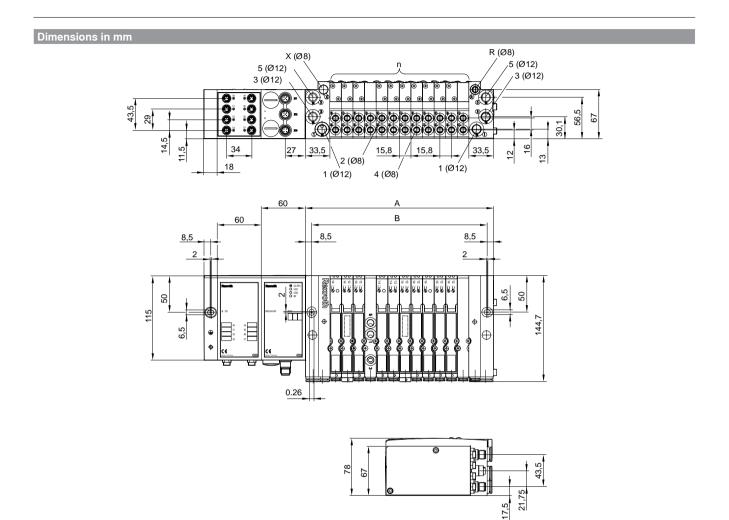


This product is configurable. Please use our Internet configurator at http://www.aventics.com or contact the nearest AVENTICS sales office.

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## Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Connection with diagnosis, optionally with I/O function (DDL) ► B-design



1 = plug-in connection Ø 12 mm or 1/2"

2 and  $\tilde{4}$  = plug-in connection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection Ø 12 mm or 1/2"

R = collected pilot exhaust, plug-in connection Ø 8 mm or 1/4"

X = external pilot control, plug-in connection Ø 8 mm or 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

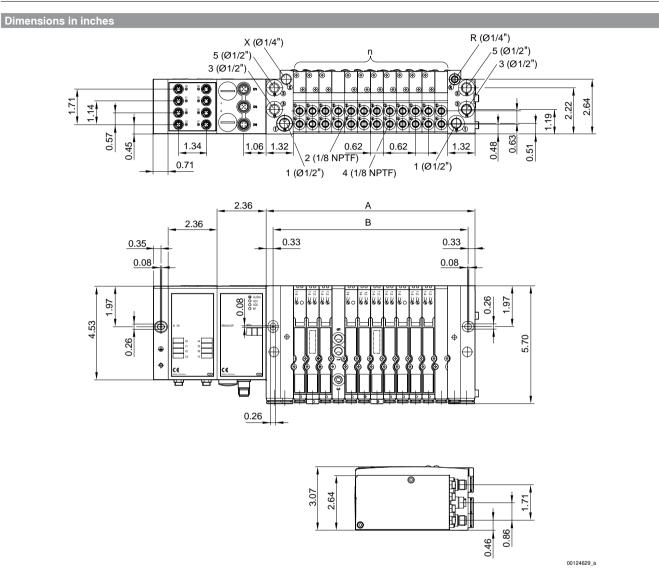
n	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	82.8	98.6	114.4	130.2	146	161.8	177.6	193.4	209.2	225	240.8	256.6	272.4	288.2
В	65.8	81.6	97.4	113.2	129	144.8	160.6	176.4	192.2	208	223.8	239.6	255.4	271.2
n	15	16	17	18	19	20	21	22	23	24				
A	304	319.8	335.6	351.4	367.2	383	398.8	414.6	430.4	446.2				
В	287	302.8	318.6	334.4	350.2	366	381.8	397.6	413.4	429.2				
n = numbe	e number of subbases													

## Ø 20

Valve systems ► Valve systems

### Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Connection with diagnosis, optionally with I/O function (DDL) ► B-design



1 = plug-in connection  $\emptyset$  12 mm or 1/2"

2 and 4 = plug-in connection  $\emptyset$  8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection Ø 12 mm or 1/2"

R = collected pilot exhaust, plug-in connection  $\emptyset$  8 mm or 1/4"

X = external pilot control, plug-in connection Ø 8 mm or 1/4", connection X plugged with internal pilot control An example configuration is illustrated. The delivered product may thus deviate from the illustration.

A 3.26	3.88	4.5		1									
		4.5	5.13	5.75	6.37	6.99	7.61	8.24	8.86	9.48	10.1	10.72	11.35
B 2.59	3.21	3.83	4.46	5.08	5.7	6.32	6.94	7.57	8.19	8.81	9.43	10.06	10.68
n 15	16	17	18	19	20	21	22	23	24				
A 11.97	12.59	13.21	13.83	14.46	15.08	15.7	16.32	16.94	17.57				
B 11.3	11.92	12.54	13.17	13.79	14.41	15.03	15.65	16.28	16.9				

► Qn Max. = 700 I/min ► Field bus connection with AS i ► B-design



Version Blocking principle Working pressure min./max. Ambient temperature min./max. Medium temperature min./max. Medium Max. particle size Oil content of compressed air Protection class, with plug Number of valve positions Operational voltage electronics Electronics voltage tolerance Power supply connection Communication port Lubricant Field bus Single base plate principle 3 bar / 10 bar +0°C / +50°C Compressed air 5  $\mu$ m 0 mg/m<sup>3</sup> - 5 mg/m<sup>3</sup> IP65 8 24 V DC -15% / +20% Black AS-i flat cable Yellow AS-i flat cable ISO 21469 (NSF-H1)

/FNT

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

#### **Technical Remarks**

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- See the following pages on the series for technical data on individual components.
- The technical data for the electronics (link structures) can be found in the section "Fieldbus Connections".
- The flow of the individual valves depends on the base plate, so here the flow is 700 l/min.
- For push-in fittings, only use plug accessories made of plastic (polyamide) from our catalog.
- It is necessary to maintain the electrical current in the coil of double solenoid valves to avoid unexpected auto-switching.

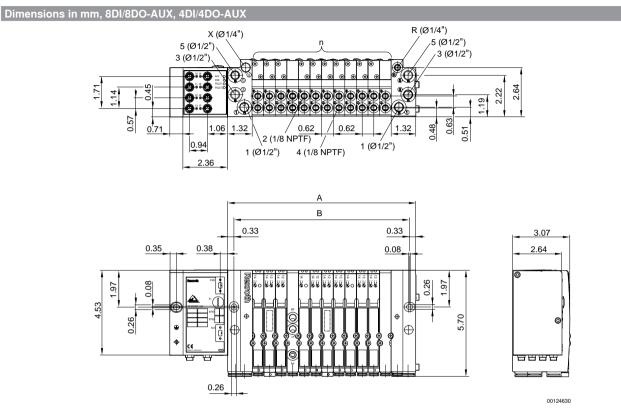
# Configurable product

This product is configurable. Please use our Internet configurator at http://www.aventics.com or contact the nearest AVENTICS sales office.

Valve systems ► Valve systems

### Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Field bus connection with AS i ► B-design



1 = plug-in connection  $\emptyset$  12 mm or 1/2"

2 and 4 = plug-in connection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection  $\emptyset$  12 mm or 1/2"

R = collected pilot exhaust, plug-in connection  $\emptyset$  8 mm or 1/4"

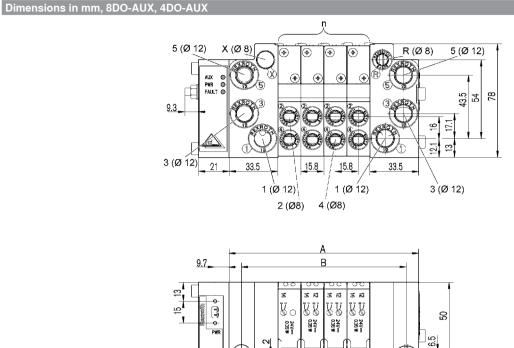
X = external pilot control, plug-in connection Ø 8 mm or 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4	5	6	7	8					
А	82.8	98.6	114.4	130.2	146	161.8	177.6	193.4					
В	65.8	81.6	97.4	113.2	129	144.8	160.6	176.4					
n numbe													

n = number of subbases

► Qn Max. = 700 I/min ► Field bus connection with AS i ► B-design



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1 = plug-in connection  $\emptyset$  12 mm or 1/2"

2 and 4 = plug-in connection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF

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3 and 5 = plug-in connection Ø 12 mm or 1/2"

 $\begin{array}{l} R = \text{collected pilot exhaust, plug-in connection $\mathcal{\mathca}\}\mathcal{\mathcal{\mathcal{\mathcal{\matha$ An example configuration is illustrated. The delivered product may thus deviate from the illustration.

3 AUX

I	n	1	2	3	4					
	А	82.8	98.6	114.4	130.2					
	В	65.8	81.6	97.4	113.2					

n = number of subbases

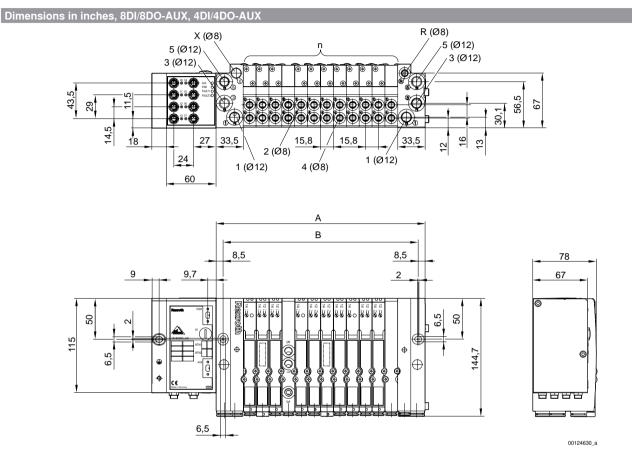
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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Valve systems ► Valve systems

### Valve system, Series HF03-LG

► Qn Max. = 700 I/min ► Field bus connection with AS i ► B-design



1 = plug-in connection  $\emptyset$  12 mm or 1/2"

2 and 4 = plug-in connection  $\emptyset$  8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection  $\emptyset$  12 mm or 1/2"

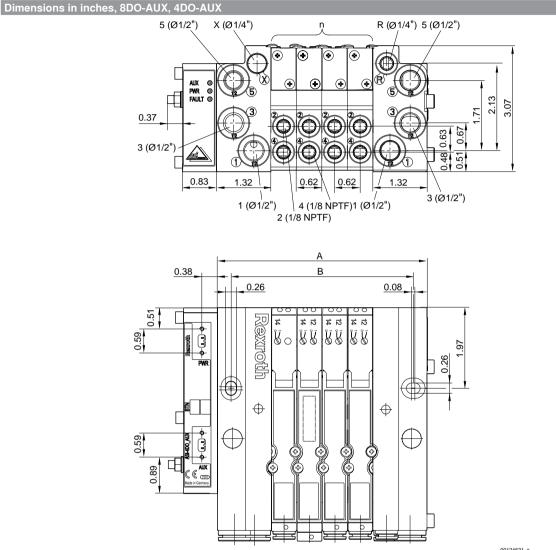
R = collected pilot exhaust, plug-in connection Ø 8 mm or 1/4"

X = external pilot control, plug-in connection Ø 8 mm or 1/4", connection X plugged with internal pilot control

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4	5	6	7	8					
A	3.26	3.88	4.5	5.13	5.75	6.37	6.99	7.61					
В	2.59	3.21	3.83	4.46	5.08	5.7	6.32	6.94					
n = numb	= number of subbases												

► Qn Max. = 700 I/min ► Field bus connection with AS i ► B-design



00124631\_a

1 = plug-in connection Ø 12 mm or 1/2"

2 and 4 = plug-in connection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF

3 and 5 = plug-in connection Ø 12 mm or 1/2"

R = collected pilot exhaust, plug-in connection Ø 8 mm or 1/4"

X = external pilot control, plug-in connection Ø 8 mm or 1/4", connection X plugged with internal pilot control An example configuration is illustrated. The delivered product may thus deviate from the illustration.

n	1	2	3	4					
A	3.26	3.88	4.5	5.13					
В	2.59	3.21	3.83	4.46					
n = numbe	er of subba	ises							

Valve systems ► Valve systems

## 2x3/2-directional valve, Series HF03-LG

► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: with detent ► Pilot: external, internal

	Version	Spool valve, zero overlap
	Sealing principle	Soft sealing
	Blocking principle	Single base plate principle
	Working pressure min./max.	-0.9 bar / 10 bar
	Control pressure min./max.	3 bar / 10 bar
1. 2. 14.	Ambient temperature min./max.	+0°C/+50°C
3	Medium temperature min./max.	+0°C/+50°C
	Medium	Compressed air
	Max. particle size	5 <i>µ</i> m
	Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
	Nominal flow Qn	850 l/min
	Protection class with connection	IP65
00106356	Protective circuit	Z-diode
		Protected against polarity reversal
	Status display LED	Yellow
	Duty cycle	100 %
	Typ. switch-on time	16 ms
	Typ. switch-off time	25 ms
	Generic emission standard in accordance with	EN 50081-1
	Generic immunity standard in accordance with	EN 50082-2
	Mounting screw	cross recessed DIN EN ISO 4757-Z1
	Mounting screw tightening torque	1.3 Nm
	Weight	0.082 kg
	Materials:	
	Housing	Polyamide, fiber-glass reinforced
	Seals	Acrylonitrile butadiene rubber

### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
- The pilot valve is UL (Underwriters Laboratories) certified.

Operational voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-15% / +20%	0.35

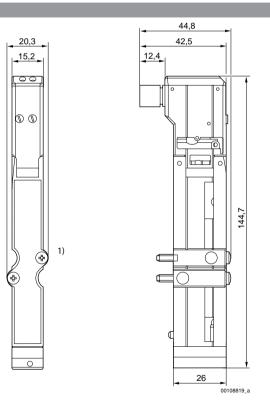
		МО	Operating voltage		Flow conductance		Part No.	
			DC	DC	b	C		
				[W]		[l/(s*bar)]		
	NC/NC	-	24 V	0.35	0.22	2.97	0820055101	
$MO = Manual override$ With collective pilot air exhaust Nominal flow Qn at 6 bar and $\Delta p = 1$ bar								

## 2x3/2-directional valve, Series HF03-LG

► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: with detent ► Pilot: external, internal

	МО	Operating voltage	Power consumption	Flow conductance		Part No.		
		DC	DC	b	С			
			[W]		[l/(s*bar)]			
NO/NO	-	24 V	0.35	0.22	2.97	0820055201		
NC/NO	2-	24 V	0.35	0.22	2.97	0820055301		
NO/NC	-	24 V	0.35	0.22	2.97	0820055311		

Dimensions



1) Mounting screw: X-slot DIN EN ISO 4757-Z1 tightening torque for mounting screw [Nm]: 1.3

Valve systems ► Valve systems

## 2x3/2-directional valve, Series HF03-LG

► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: without detent ► Pilot: external, internal

	Version	Spool valve, zero overlap
	Sealing principle	Soft sealing
	Blocking principle	Single base plate principle
and the second sec	Working pressure min./max.	-0.9 bar / 10 bar
a starte	Control pressure min./max.	3 bar / 10 bar
and the second s	Ambient temperature min./max.	+0°C / +50°C
3	Medium temperature min./max.	+0°C/+50°C
	Medium	Compressed air
	Max. particle size	5 <i>µ</i> m
	Oil content of compressed air	0 mg/m³ - 5 mg/m³
	Nominal flow Qn	850 l/min
	Protection class with connection	IP65
00106356	Protective circuit	Z-diode
		Protected against polarity reversal
	Status display LED	Yellow
	Duty cycle	100 %
	Typ. switch-on time	16 ms
	Typ. switch-off time	25 ms
	Generic emission standard in accordance with	EN 50081-1
	Generic immunity standard in accordance with	EN 50082-2
	Mounting screw	cross recessed DIN EN ISO 4757-Z1
	Mounting screw tightening torque	1.3 Nm
	Weight	0.082 kg
	Materials:	
	Housing	Polyamide, fiber-glass reinforced
	Seals	Acrylonitrile butadiene rubber

### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
- The pilot valve is UL (Underwriters Laboratories) certified.

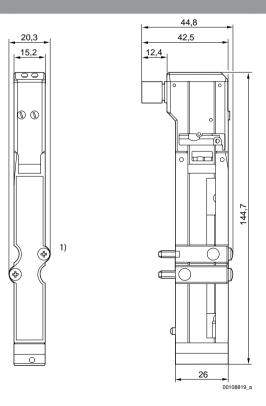
Operational voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-15% / +20%	0.35

### 2x3/2-directional valve, Series HF03-LG

► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: without detent ► Pilot: external, internal

	МО	Operating voltage	Power consumption			Part No.		
		DC	DC	b	С			
			[W]		[l/(s*bar)]			
NC/NC		24 V	0.35	0.22	2.97	0820055102		
NO/NO		24 V	0.35	0.22	2.97	0820055202		
NC/NO	Ш	24 V	0.35	0.22	2.97	0820055302		
NO/NC		24 V	0.35	0.22	2.97	0820055312		





1) Mounting screw: X-slot DIN EN ISO 4757-Z1 tightening torque for mounting screw [Nm]: 1.3

Valve systems ► Valve systems

### 5/2-directional valve, Series HF03-LG

► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: with detent ► single solenoid, double solenoid ► Pilot: external, internal

	Version	
		Spool valve, zero overlap Soft sealing
	Sealing principle	5
	Blocking principle	Single base plate principle
9	Working pressure min./max.	-0.9 bar / 10 bar
Children	Control pressure min./max.	3 bar / 10 bar
	Ambient temperature min./max.	+0°C / +50°C
	Medium temperature min./max.	+0°C / +50°C
	Medium	Compressed air
	Max. particle size	5 <i>µ</i> m
	Oil content of compressed air	0 mg/m³ - 5 mg/m³
	Nominal flow Qn	850 l/min
	Protection class with connection	IP65
00138485	Protective circuit	Z-diode
		Protected against polarity reversal
	Status display LED	Yellow
	Duty cycle	100 %
	Generic emission standard in accordance with	EN 50081-1
	Generic immunity standard in accordance with	EN 50082-2
	Mounting screw	cross recessed DIN EN ISO 4757-Z1
	Mounting screw tightening torque	1.3 Nm
	Weight	0.082 kg
	Materials:	
	Housing	Polyamide, fiber-glass reinforced
	Seals	Acrylonitrile butadiene rubber

### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
- The pilot valve is UL (Underwriters Laboratories) certified.

Operational voltage		Power consumption
DC	DC	DC
		W
24 V	-15% / +20%	0.35

	MO	Oper- ating voltage	Power consumption	Flow conductance		Switch-on time	Switch-off time	Part No.
		DC	DC	b	C			
			[W]		[l/(s*bar)]	[ms]	[ms]	
		24 V	0.35	0.22	2.98	16	23	0820055051
		24 V	0.35	0.22	2.97	13	15	0820055501
MO = Manual overrid								

With collective pilot air exhaust

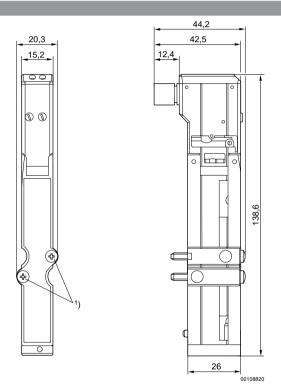
Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

## 5/2-directional valve, Series HF03-LG

► for Series HF03-LG, CL03 ► Qn = 850 l/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: with detent ► single solenoid, double solenoid ► Pilot: external, internal

	МО	Oper- ating voltage	Power consumption	Flow conductance		Switch-on time	Switch-off time	Part No.
		DC	DC	b	C			
			[W]		[l/(s*bar)]	[ms]	[ms]	
	3-	24 V	0.35	0.22	2.98	15	23	0820055001
MO = Manual overrid With collective pilot a Nominal flow Qn at 6	air exhaust	0 = 1 bar						

Dimensions



1) Mounting screw: X-slot DIN EN ISO 4757-Z1 tightening torque for mounting screw [Nm]: 1.3

Valve systems ► Valve systems

## 5/2-directional valve, Series HF03-LG

► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: without detent ► single solenoid, double solenoid ► Pilot: external, internal

	Version	Spool valve, zero overlap
	Sealing principle	Soft sealing
	Blocking principle	Single base plate principle
	Working pressure min./max.	-0.9 bar / 10 bar
(hile with)	Control pressure min./max.	3 bar / 10 bar
	Ambient temperature min./max.	+0°C/+50°C
	Medium temperature min./max.	+0°C / +50°C
	Medium	Compressed air
	Max. particle size	5 <i>µ</i> m
-	Oil content of compressed air	0 mg/m³ - 5 mg/m³
	Nominal flow Qn	850 l/min
	Protection class with connection	IP65
00138485	Protective circuit	Z-diode
		Protected against polarity reversal
	Status display LED	Yellow
	Duty cycle	100 %
	Generic emission standard in accordance with	EN 50081-1
	Generic immunity standard in accordance with	EN 50082-2
	Mounting screw	cross recessed DIN EN ISO 4757-Z1
	Mounting screw tightening torque	1.3 Nm
	Weight	0.082 kg
	-	-
	Materials:	
	Housing	Polyamide, fiber-glass reinforced
	Seals	Acrylonitrile butadiene rubber

## Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
- The pilot valve is UL (Underwriters Laboratories) certified.

Operational voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-15% / +20%	0.35

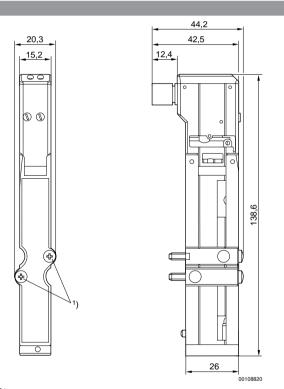
	MO	Oper- ating voltage	Power consumption	Flow conductance		Switch-on time	Switch-off time	Part No.	
		DC	DC	b	С				
			[W]		[l/(s*bar)]	[ms]	[ms]		
	E	24 V	0.35	0.22	2.98	16	23	0820055052	
		24 V	0.35	0.22	2.97	13	15	0820055502	
With collective pilot a	MO = Manual override With collective pilot air exhaust Nominal flow Qn at 6 bar and $\Delta p = 1$ bar								

## 5/2-directional valve, Series HF03-LG

► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► plate connection ► Manual override: without detent ► single solenoid, double solenoid ► Pilot: external, internal

	MO	Oper- ating voltage	Power consumption	Flow conductance		Switch-on time	Switch-off time	
		DC	DC	b	C			
			[W]		[l/(s*bar)]	[ms]	[ms]	
		24 V	0.35	0.22	2.98	15	23	0820055002
MO = Manual override With collective pilot air exhaust Nominal flow Qn at 6 bar and $\Delta p$ = 1 bar								

### Dimensions



1) Mounting screw: X-slot DIN EN ISO 4757-Z1 tightening torque for mounting screw [Nm]: 1.3

Valve systems ► Valve systems

## 5/3-directional valve, Series HF03-LG

- ► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► closed center ► plate connection
- ► Manual override: with detent ► Pilot: external, internal

	Version	Spool valve, zero overlap
	Sealing principle	Soft sealing
	Blocking principle	Single base plate principle
	Working pressure min./max.	-0.9 bar / 10 bar
Chiefans 1	Control pressure min./max.	3 bar / 10 bar
ALE DI	Ambient temperature min./max.	+0°C / +50°C
	Medium temperature min./max.	+0°C / +50°C
	Medium	Compressed air
	Max. particle size	5 μm
•	Oil content of compressed air	0 mg/m³ - 5 mg/m³
	Nominal flow Qn	850 l/min
	Protection class with connection	IP65
00138485	Protective circuit	Z-diode
		Protected against polarity reversal
	Status display LED	Yellow
	Duty cycle	100 %
	Typ. switch-on time	14 ms
	Typ. switch-off time	15 ms
	Generic emission standard in accordance with	EN 50081-1
	Generic immunity standard in accordance with	EN 50082-2
	Mounting screw	cross recessed DIN EN ISO 4757-Z1
	Mounting screw tightening torque	1.3 Nm
	Weight	0.082 kg
	Marta Asta	
	Materials:	
	Housing	Polyamide, fiber-glass reinforced
	Seals	Acrylonitrile butadiene rubber

### **Technical Remarks**

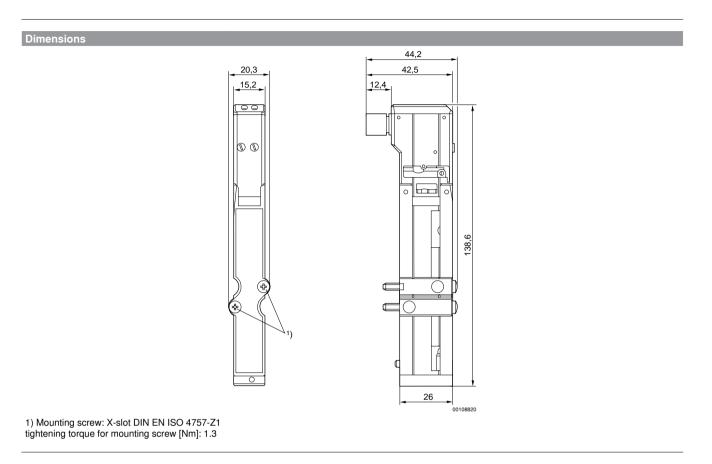
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
- The pilot valve is UL (Underwriters Laboratories) certified.

Operational voltage	Voltage tolerance	
DC	DC	DC
		W
24 V	-15% / +20%	0.35

	МО	Operating voltage	Power consumption	Flow conductance		Part No.
		DC	DC	b	C	
			[W]		[l/(s*bar)]	
	_	24 V	0.35	0.23	2.79	0820055601
MO = Manual override With collective pilot air exhaust Nominal flow Qn at 6 bar and $\Delta p = 1$ bar						

### 5/3-directional valve, Series HF03-LG

- ► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► closed center ► plate connection
- ► Manual override: with detent ► Pilot: external, internal



Valve systems ► Valve systems

## 5/3-directional valve, Series HF03-LG

- ► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► closed center ► plate connection
- ► Manual override: without detent ► Pilot: external, internal

	Version	Spool valve, zero overlap
	Sealing principle	Soft sealing
	Blocking principle	Single base plate principle
	Working pressure min./max.	-0.9 bar / 10 bar
(hite hite)	Control pressure min./max.	3 bar / 10 bar
ALE OF	Ambient temperature min./max.	+0°C / +50°C
	Medium temperature min./max.	+0°C / +50°C
	Medium	Compressed air
	Max. particle size	5 μm
-	Oil content of compressed air	0 mg/m³ - 5 mg/m³
	Nominal flow Qn	850 l/min
	Protection class with connection	IP65
00138485	Protective circuit	Z-diode
		Protected against polarity reversal
	Status display LED	Yellow
	Duty cycle	100 %
	Typ. switch-on time	14 ms
	Typ. switch-off time	15 ms
	Generic emission standard in accordance with	EN 50081-1
	Generic immunity standard in accordance with	EN 50082-2
	Mounting screw	cross recessed DIN EN ISO 4757-Z1
	Mounting screw tightening torque	1.3 Nm
	Weight	0.082 kg
	5	0
	Materials:	
	Housing	Polyamide, fiber-glass reinforced
	Seals	Acrylonitrile butadiene rubber

### **Technical Remarks**

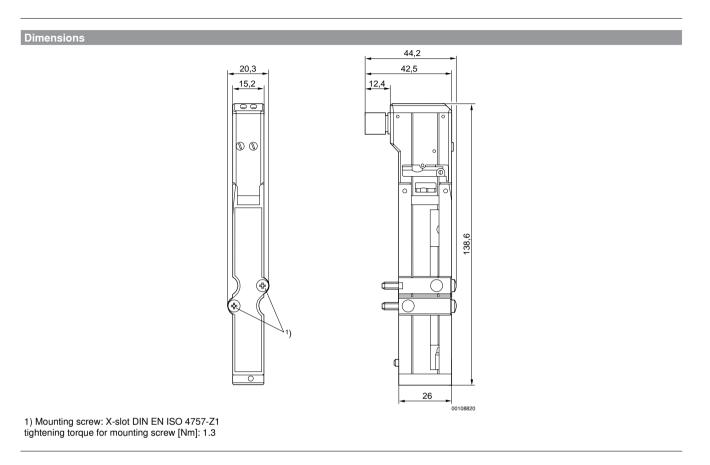
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".
- The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.
- The pilot valve is UL (Underwriters Laboratories) certified.

Operational voltage	Voltage tolerance	
DC	DC	DC
		W
24 V	-15% / +20%	0.35

	МО	Operating voltage		Flow conductance		Part No.
		DC	DC	b C		
			[W]		[l/(s*bar)]	
	Ш	24 V	0.35	0.23	2.79	0820055602
MO = Manual override With collective pilot air exhaust Nominal flow Qn at 6 bar and $\Delta p = 1$ bar						

### 5/3-directional valve, Series HF03-LG

- ► for Series HF03-LG, CL03 ► Qn = 850 I/min ► Pilot valve width: 16 mm ► closed center ► plate connection
- ► Manual override: without detent ► Pilot: external, internal



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Valve systems ► Valve systems

#### Series HF03-LG Accessories

#### Direct field bus connection (BDC) ► Bus coupler with driver ► direct field bus connection ► Field bus protocol: EtherCAT / PROFIBUS DP / CANopen / CANopen sb / DeviceNet / sercos III

001303	56

Ambient temperature min./max.	+0°C/+50°C
Protection class	IP65
Operational voltage electronics	24 V DC
Electronics voltage tolerance	-15% / +20%
Power consumption electronics	0.05 A
Operating voltage, actuators	24 V DC
Total current for actuators	3 A
Number of solenoid coils max.	32
Max. power consumption per coil	0.1 mA
PortValve system	Socket
	2.0 mm strip
<b>.</b>	3x13-pin
Generic emission standard in accordance with norm	EN 61000-6-4
Generic immunity standard in accordance with	IEC 61000-6-2
norm	
Materials:	
Housing	Die-cast aluminum
5	

# Technical Remarks

Max. number of valves: 16 double solenoid or 32 single solenoid

You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

Part No.	Weight	power supply	Port 2	Port 1	Field bus protocol
	[kg]				
R412009573	0.29	Plug (male), M12, 4-pin, A-coded	Socket (female), M12x1, 5-pin, D-coded	Socket (female), M12x1, 5-pin, D-coded	EtherCAT
R412008537	0.29	Plug (male), M12, 4-pin, A-coded	Socket (female), M12x1, 5-pin, B-coded	Plug (male), M12x1, 5-pin, B-coded	PROFIBUS DP
R412008538	0.29	Plug (male), M12, 4-pin, A-coded	Socket (female), M12x1, 5-pin, A-coded	Plug (male), M12x1, 5-pin, A-coded	CANopen
R412008990	0.29	Plug (male), M12, 4-pin, A-coded	Socket (female), M12x1, 5-pin, A-coded	Plug (male), M12x1, 5-pin, A-coded	CANopen sb
R412008539	0.29	Plug (male), M12, 4-pin, A-coded	Socket (female), M12x1, 5-pin, A-coded	Plug (male), M12x1, 5-pin, A-coded	DeviceNet
R412009516	0.29	Plug (male), M12, 4-pin, A-coded	Socket (female), M12x1, 5-pin, D-coded	Socket (female), M12x1, 5-pin, D-coded	sercos III

Scope of delivery incl. 2 screws and seal

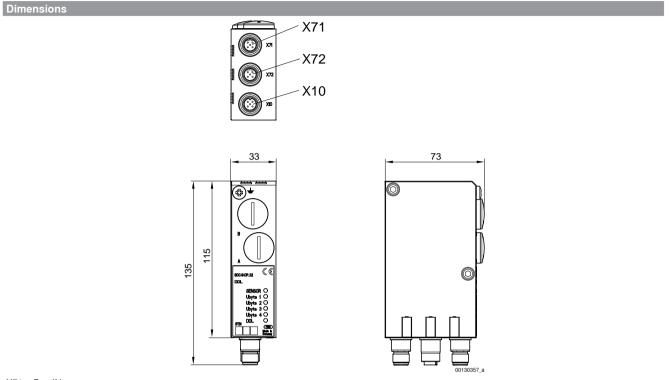
The following operating instructions can be found in the Media Center for: PROFIBUS DP: R412009414

PROFIBUS DP: R412009414 CANopen /-sb: R412009415 DeviceNet: R412009416

EtherCAT: R412012792

sercos III: R412012610

#### Series HF03-LG Accessories



X71 = Bus IN X72 = Bus OUT X10 = power supply

#### Optional field bus connection with I/O function (CMS), B-design ► Bus coupler with driver ► Field bus protocol: PROFIBUS DP / DeviceNet / CANopen / EtherNET/IP / PROFINET IO



Ambient temperature min./max.	+0°C/+50°C
Protection class	IP65
Operational voltage electronics	24 V DC
Electronics voltage tolerance	-15% / +20%
Operating voltage, actuators	24 V DC
Max. power consumption per coil	0.063 mA
I/O module extension max.	6
Generic emission standard in accordance with norm	EN 61000-6-4
Materials:	
Housing	Die-cast aluminum

The delivered product may vary from that in the illustration.

**Technical Remarks** 

You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

#### 0 AVENTIC 40 Valve systems ► Valve systems

## Series HF03-LG Accessories

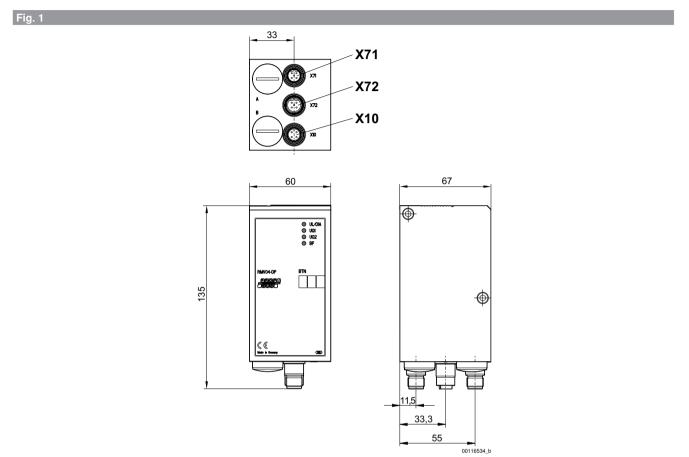
					valve coils			
Plug (male), M12, 5-pin, B-coded	Socket (female), M12,	Plug (male), M12, 4-pin,		Socket 2.0 mm strip 2x13-pin	24	R412003484		
B-coded	5-pin, B-coded		A-coded	Socket 2.0 mm strip 3x13-pin	32	R412008516		
Plug (male), M12, 5-pin,	Socket (female), M12,	Plug	(male), M12, 4-pin,	Socket 2.0 mm strip 2x13-pin	24	R412004346		
A-coded	5-pin, A-coded		A-coded	Socket 2.0 mm strip 3x13-pin	32	R412008517		
Plug (male), M12, 5-pin,	Socket (female), M12,			Socket 2.0 mm strip 2x13-pin	24	R412005747		
A-coded	5-pin, A-coded	A-coded		Socket 2.0 mm strip 3x13-pin	32	R412008518		
-	Socket (female), M12, 5-pin, D-coded	Plug	(male), M12, 4-pin, A-coded	Socket 2.0 mm strip 3x13-pin	32	R412012755		
Socket (female), M12x1, 4-pin, D-coded	Socket (female), M12x1, 4-pin, D-coded		4-pin, A-coded	-	32	R412014581		
			(male), 7/8°, 5-pm		l	R412014583		
ver consumption elec- tronics	W	eight		Fig.		Note		
[A]		[kg]						
0.12		0.84		Fig. 1		2)		
R412004346 R412008517 0.12		1		2 1		Fig. 1		2)
5747 0.12		2005747 2008518 0.12 1 Fig		1		Fig. 1		2)
0.12	1		Fig. 2		1); 2)			
0.12		0.91		Fig. 1		2)		
	A-coded Plug (male), M12, 5-pin, A-coded Coded C	A-coded     5-pin, A-coded       Plug (male), M12, 5-pin, A-coded     Socket (female), M12, 5-pin, A-coded       Socket (female), M12x1, 4-pin, D-coded     Socket (female), M12x1, 4-pin, D-coded       Socket (female), M12x1, 4-pin, D-coded     Socket (female), M12x1, 4-pin, D-coded       Image: Consumption electors     W       Image: Consumption electors     W <td>A-coded     5-pin, A-coded       Plug (male), M12, 5-pin, A-coded     Socket (female), M12, 5-pin, A-coded     Plug       -     Socket (female), M12, 5-pin, D-coded     Plug       Socket (female), M12x1, 4-pin, D-coded     Socket (female), M12x1, 4-pin, D-coded     Plug       er consumption elec- tronics     Weight       [A]     [kg]       0.12     0.84       0.12     1       0.12     1       0.12     1       0.12     1       0.12     1</td> <td>A-coded       5-pin, A-coded       A-coded         Plug (male), M12, 5-pin, A-coded       Socket (female), M12, 5-pin, A-coded       Plug (male), M12, 4-pin, A-coded         -       Socket (female), M12, 5-pin, A-coded       Plug (male), M12, 4-pin, A-coded         Socket (female), M12, 5-pin, D-coded       Plug (male), M12, 4-pin, A-coded         Socket (female), M12x1, 4-pin, D-coded       Plug (male), M12x1, 4-pin, A-coded         Socket (female), M12x1, 4-pin, D-coded       Plug (male), 7/8", 5-pin         er consumption electronics       Weight         [A]       [kg]         0.12       0.84         0.12       1         0.12       1         0.12       1         0.12       1         0.12       1         0.12       1</td> <td>Plug (male), M12, 5-pin, A-coded       Socket (female), M12, 5-pin, A-coded       Plug (male), M12, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Plug (male), M12, 5-pin, A-coded       Socket (female), M12, 5-pin, A-coded       Plug (male), M12, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Plug (male), M12, 5-pin, A-coded       Socket (female), M12, 5-pin, D-coded       Plug (male), M12, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12, 1, 4-pin, D-coded       Socket (female), M12, 1, 4-pin, D-coded       Plug (male), M12, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket (female), M12x1, 4-pin, A-coded       Plug (male), M12x1, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket (female), M12x1, 4-pin, A-coded       Plug (male), M12x1, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket (female), M12x1, 4-pin, A-coded       Plug (male), M12x1, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket (female), M12x1, 4-pin, A-coded       Fig. 1       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket 4.0       Fig. 1       Fig. 1       Fig. 1         O.12       0.84       Fig. 1       Fig. 1       Fig. 1       Fig. 1</td> <td>Plug (male), M12, 5-pin, A-coded         Socket (female), M12, 5-pin, A-coded         Plug (male), M12, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         24           Plug (male), M12, 5-pin, A-coded         Socket (female), M12, 5-pin, A-coded         Plug (male), M12, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Plug (male), M12, 5-pin, A-coded         Socket (female), M12, 5-pin, A-coded         Plug (male), M12, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         24           Socket (female), M12, 5-pin, D-coded         Plug (male), M12, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12, 4-pin, D-coded         Plug (male), M12, 1, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12, 4-pin, D-coded         Plug (male), M12, 1, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12x1, 4-pin, D-coded         Plug (male), M12x1, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12x1, 4-pin, D-coded         Plug (male), 7/8*, 5-pin         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12x1, 4-pin, D-coded         Plug (male), 7/8*, 5-pin         Socket 2.0 rm strip 3x13-pin         32           O.12         0.12         1         Fig. 1         Fig. 1         Fig. 1           0.1         <td< td=""></td<></td>	A-coded     5-pin, A-coded       Plug (male), M12, 5-pin, A-coded     Socket (female), M12, 5-pin, A-coded     Plug       -     Socket (female), M12, 5-pin, D-coded     Plug       Socket (female), M12x1, 4-pin, D-coded     Socket (female), M12x1, 4-pin, D-coded     Plug       er consumption elec- tronics     Weight       [A]     [kg]       0.12     0.84       0.12     1       0.12     1       0.12     1       0.12     1       0.12     1	A-coded       5-pin, A-coded       A-coded         Plug (male), M12, 5-pin, A-coded       Socket (female), M12, 5-pin, A-coded       Plug (male), M12, 4-pin, A-coded         -       Socket (female), M12, 5-pin, A-coded       Plug (male), M12, 4-pin, A-coded         Socket (female), M12, 5-pin, D-coded       Plug (male), M12, 4-pin, A-coded         Socket (female), M12x1, 4-pin, D-coded       Plug (male), M12x1, 4-pin, A-coded         Socket (female), M12x1, 4-pin, D-coded       Plug (male), 7/8", 5-pin         er consumption electronics       Weight         [A]       [kg]         0.12       0.84         0.12       1         0.12       1         0.12       1         0.12       1         0.12       1         0.12       1	Plug (male), M12, 5-pin, A-coded       Socket (female), M12, 5-pin, A-coded       Plug (male), M12, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Plug (male), M12, 5-pin, A-coded       Socket (female), M12, 5-pin, A-coded       Plug (male), M12, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Plug (male), M12, 5-pin, A-coded       Socket (female), M12, 5-pin, D-coded       Plug (male), M12, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12, 1, 4-pin, D-coded       Socket (female), M12, 1, 4-pin, D-coded       Plug (male), M12, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket (female), M12x1, 4-pin, A-coded       Plug (male), M12x1, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket (female), M12x1, 4-pin, A-coded       Plug (male), M12x1, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket (female), M12x1, 4-pin, A-coded       Plug (male), M12x1, 4-pin, A-coded       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket (female), M12x1, 4-pin, A-coded       Fig. 1       Socket 2.0 mm strip 3x13-pin         Socket (female), M12x1, 4-pin, D-coded       Socket 4.0       Fig. 1       Fig. 1       Fig. 1         O.12       0.84       Fig. 1       Fig. 1       Fig. 1       Fig. 1	Plug (male), M12, 5-pin, A-coded         Socket (female), M12, 5-pin, A-coded         Plug (male), M12, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         24           Plug (male), M12, 5-pin, A-coded         Socket (female), M12, 5-pin, A-coded         Plug (male), M12, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Plug (male), M12, 5-pin, A-coded         Socket (female), M12, 5-pin, A-coded         Plug (male), M12, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         24           Socket (female), M12, 5-pin, D-coded         Plug (male), M12, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12, 4-pin, D-coded         Plug (male), M12, 1, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12, 4-pin, D-coded         Plug (male), M12, 1, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12x1, 4-pin, D-coded         Plug (male), M12x1, 4-pin, A-coded         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12x1, 4-pin, D-coded         Plug (male), 7/8*, 5-pin         Socket 2.0 rm strip 3x13-pin         32           Socket (female), M12x1, 4-pin, D-coded         Plug (male), 7/8*, 5-pin         Socket 2.0 rm strip 3x13-pin         32           O.12         0.12         1         Fig. 1         Fig. 1         Fig. 1           0.1 <td< td=""></td<>		

The following operating instructions can be found in the Media Center for: PROFIBUS DP: R499050016 CANopen: R412005742 DeviceNet: R499050019

EtherNET/IP: R412012728

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

#### Series HF03-LG Accessories



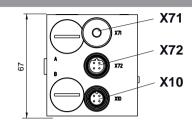
X71, (Bus IN), M12x1 X72, (Bus OUT), M12x1 X10, (Power), M12x1

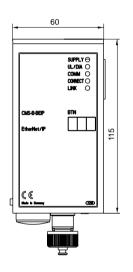
# 42 AVENTICS

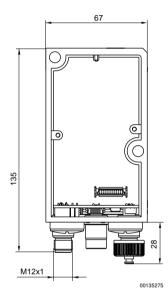
Valve systems ► Valve systems

#### Series HF03-LG Accessories

Fig. 2

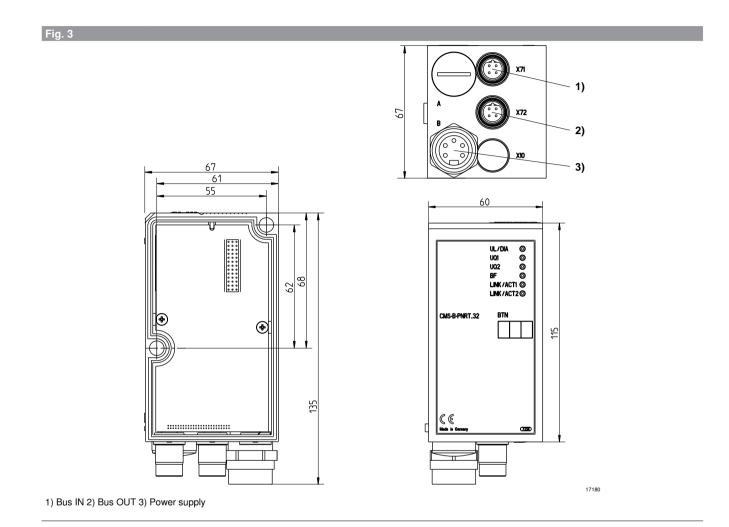






X71 = optional interface X72 = Bus X10 = Power

#### Series HF03-LG Accessories



#### Link structure DDL, B-design ► B-design ► Driver



Ambient temperature min./max. Protection class Operational voltage electronics Power consumption electronics Operating voltage, actuators Actuator voltage tolerance Total current for actuators Number of solenoid coils max. Max. power consumption per coil Max. cable length Max. number of DDL participants PortValve system

IP65 24 V DC 0.05 A 24 V DC -10% / +10% 3 A 32 0.1 mA 40 m 14 Socket (female) 2.0 mm strip 2x13-pin

+0°C/+50°C

Materials: Housing

Die-cast aluminum

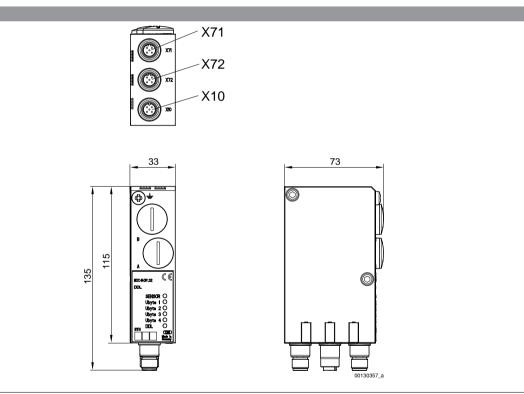


**Technical Remarks** 

- Max. current in 0 V line: 4 A
- You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

Port 1	Port 2	power supply	Weight	Part No.			
			[kg]				
Plug (male), M12, 5-pin, A-coded	Socket (female), M12, 5-pin, A-coded	Plug (male), M12, 4-pin, A-coded	0.29	R412008541			
Scope of delivery incl. 2 tie rod extensions and seal The following operating instructions can be found in the Media Center: R412009417 + R499050020							

#### Dimensions



#### Link structure DDL, B-design ► Driver



00119265

Ambient temperature min./max.	+0°C/+50°C
Protection class	IP65
Operational voltage electronics	24 V DC
Power consumption electronics	0.2 A
Operating voltage, actuators	24 V DC
Actuator voltage tolerance	-10% / +10%
Total current for actuators	3 A
Number of solenoid coils max.	24
Max. power consumption per coil	0.1 mA
Max. cable length	40 m
Max. number of DDL participants	14
PortValve system	Socket (female) 2.0 mm strip 3x13-pin
I/O module extension max.	6
I/O module extension Input Max.	3
I/O module extension Output Max.	3
No module extension output wax.	0
Materials:	
Housing	Die-cast aluminum
-	

**Technical Remarks** 

Max. current in 0 V line: 4 A

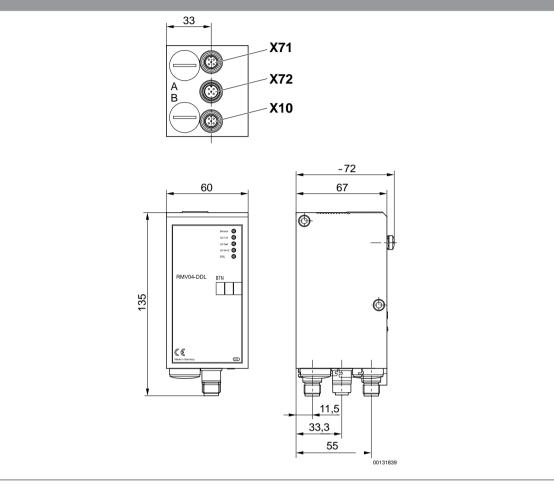
• You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

Port 1	Port 2	power supply	Weight	Part No.			
			[kg]				
Plug (male), M12, 5-pin, A-coded	Socket (female), M12, 5-pin, A-coded	Plug (male), M12, 4-pin, A-coded	1.04	R412006880			
Scope of delivery incl. 2 tie rod extensions and seal The following operating instructions can be found in the Media Center: R412009417 + R499050020							



#### Series HF03-LG Accessories

Dimensions



#### Fieldbus connection, Series AS-i ► B-design ► Bus coupler with driver ► Field bus protocol: AS-i



Ambient temperature min./max.	+0°C / +50°C
Protection class	IP65
Operational voltage electronics	AS-i compatible
Operating voltage, actuators	24 V DC
Max. power consumption per coil	0.03 mA
PortValve system	Socket 2.0 mm strip 2x13-pin
ID Code / ID2 Code	F/E
I/O Code	8
Generic emission standard in accordance with norm	EN 50295
Generic immunity standard in accordance with norm	EN 50295
Materials:	
Housing	Aluminum, Die-cast aluminum

The delivered product may vary from that in the illustration.

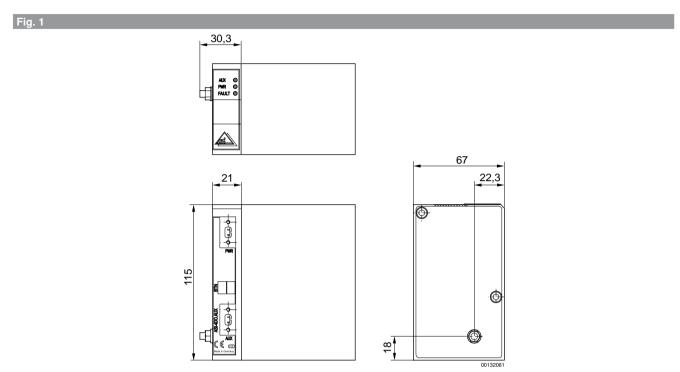
#### **Technical Remarks**

You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

Field bus protocol	Port 1	power supply	Number of outputs for valve coils	consump-		Fig.	Part No.
				[A]	[kg]		
AS-i	Yellow AS-i flat cable	Black AS-i flat cable	4	0.05	0.14	Fig. 1	R412003488
A3-1	reliuw AS-i liai cable	DIACK AS-I HAL CADIE	8	0.08	0.14	Fig. 2	R412006761
Scope of delivery incl. seal and mounting screws The following operating instructions can be found in the Media Center for: AS-i: R499050017							

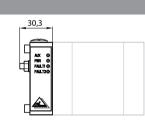


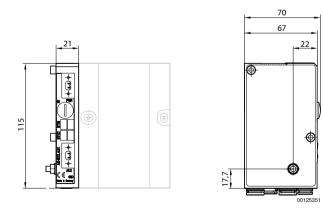
#### Series HF03-LG Accessories



#### AS-i, 4DO-AUX

Fig. 2





AS-i, 8DO-AUX

+0°C/+50°C

IP65 AS-i compatible

24 V DC

#### Series HF03-LG Accessories

#### Fieldbus connection, Series AS-i ► B-design ► Bus coupler with driver ► Field bus protocol: AS i with inputs



Max. power consumption per coil	0.03 mA
PortValve system	Socket 2.0 mm strip 2x13-pin
ID Code / ID2 Code	F/E
I/O Code	7
Generic emission standard in accordance with norm	EN 50295
Generic immunity standard in accordance with norm	EN 50295
Materials:	
Housing	Aluminum

Ambient temperature min./max.

Operational voltage electronics

Operating voltage, actuators

Protection class

The delivered product may vary from that in the illustration.

#### Technical Remarks

You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

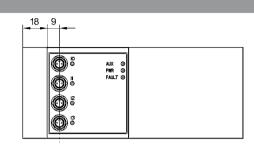
Field bus pr	rotocol	Port 1	power supply	Number of inputs	Number of out- puts for valve coils		Part No.	
AS i wit	h inpute	Yellow AS-i flat cable	Black AS-i flat cable	8	8	input or output, Socket, M8, 8x	R412003486	
AS i with inputs		renow AS-I hat cable	Diack AS-1 hat cable	4	4	input or output, Socket, M8, 4x	R412003487	
Part No.		Powe	r consumption electroni	cs			Fig.	
				[A]				
R412003486				0.1			Fig. 2	
R412003487	0.0			.05			Fig. 1	
Scope of delivery incl. 2 tie rod extensions and seal The following operating instructions can be found in the Media Center for:								

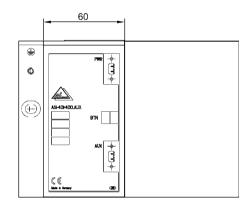
AS-i: R499050017



#### Series HF03-LG Accessories

Fig. 1

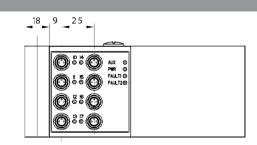


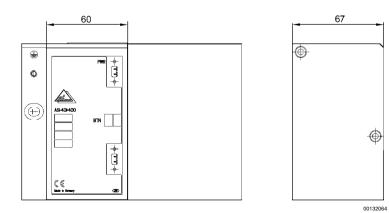




4DI/4DO-AUX

Fig. 2





#### 8DI/8DO-AUX

### Adapter module

#### ► for series AES on B-design ► for Series HF02-LG, HF03-LG, HF04, CD10, CD20, CD01-PI



Ambient temperature min./max.

-10°C/+60°C

Materials: Housing Seals

Aluminum Nitrile rubber

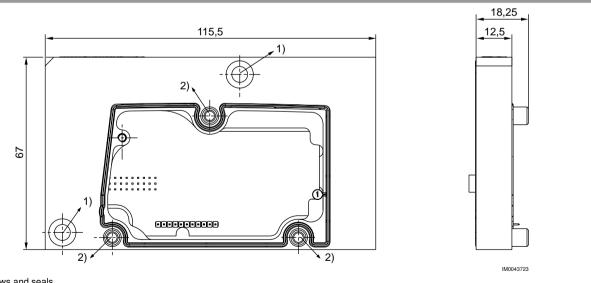
IM0041634

#### **Technical Remarks**

The adapter module is mounted on valve systems with a B-design interface for use with AES fieldbus couplers and AES I/O modules. See the operating instructions for further information (R412018150).

antity Part No.	Order quantity	Weight	Version
piece]	[piece]	[kg]	
1 R412023458	1	0.16	32 outputs

#### Dimensions



Includes screws and seals.

1) Torque: 3 Nm +0.5 Nm

2) Torque: 1.6 Nm +0.4 Nm



#### compact ejector, Series ECV ► For HF03 valve system

Mile O dell Martino HUMAR O dell Martino PORTANI PORTA

00115581

Ambient temperature min./max. Medium temperature min./max. Working pressure min./max. Medium Max. particle size Oil content of compressed air

Nozzle Ø Max. vacuum level at p.opt Max. suction capacity Air consumption at p.opt.

Materials:	
Housing	
Seal	
Nozzle	
Silencers	

+0°C/+50°C +0°C/+50°C 3 bar / 6 bar Compressed air 5  $\mu$ m 0 mg/m<sup>3</sup> - 1 mg/m<sup>3</sup>

1.5 mm 76 % 63 l/min 116 l/min

Polyamide, fiber-glass reinforced Acrylonitrile butadiene rubber Brass Polyethylene

#### **Technical Remarks**

- Note: All data refers to an ambient pressure of 1,013 bar and an ambient temperature of 20 °C.
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- p.opt. = optimum working pressure

	Туре	Com- pressed air con- nection	Vacuum connec- tion+	Port exhaust	Sound pressure level intake effect	pressure level		Note	Part No.
					[dB]	[dB]	[kg]		
		Ø 8	Ø 8	Ø 8	-	-		2)	0821305160
		Ø 8	Ø 8	-	67	73	0.11	1)	0821305161
V	ECV-PC-15-NN	G 1/8	G 1/8	G 1/8	-	-	0.11	2)	0821305164
,		G 1/8	G 1/8	-	67	73		1)	0821305165
1) with silencer									

2) With ventilation port

#### Vacuum p2 depending on working pressure p1

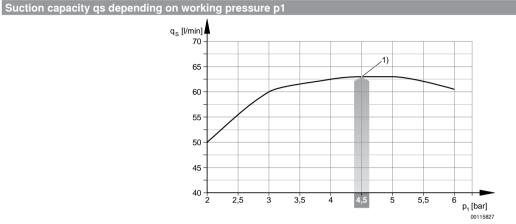
p<sub>2</sub>[%] 90 80 70 60 50 40 30 20 2,5 3 3,5 4 5 5,5 6 p₁ [bar] 00115828

1) optimum working pressure

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

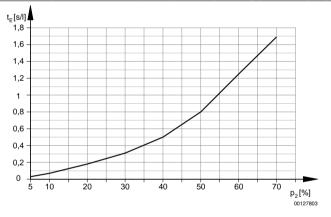
# compact ejector, Series ECV

► For HF03 valve system

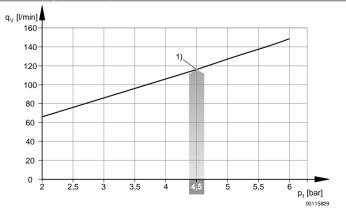


1) optimum working pressure

Evacuation time tE depending on vacuum p2 for 1 I volume (with optimal operating pressure p1opt)



#### Air consumption qv depending on working pressure p1

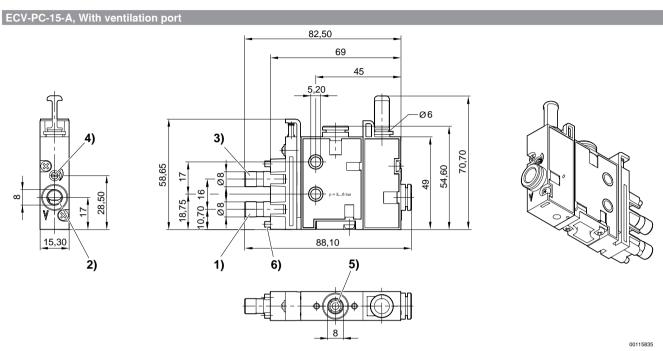


1) optimum working pressure



# compact ejector, Series ECV

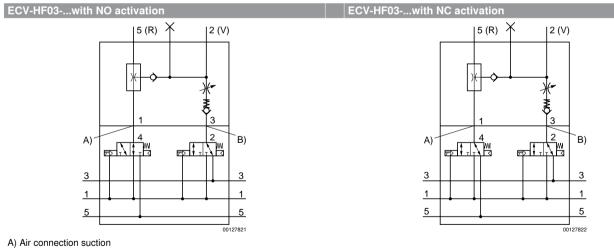
► For HF03 valve system



1) air connection (suction)

- 2) vacuum connection
- 3) release pulse connection
- 4) throttle for release pulse
- 5) ventilation port

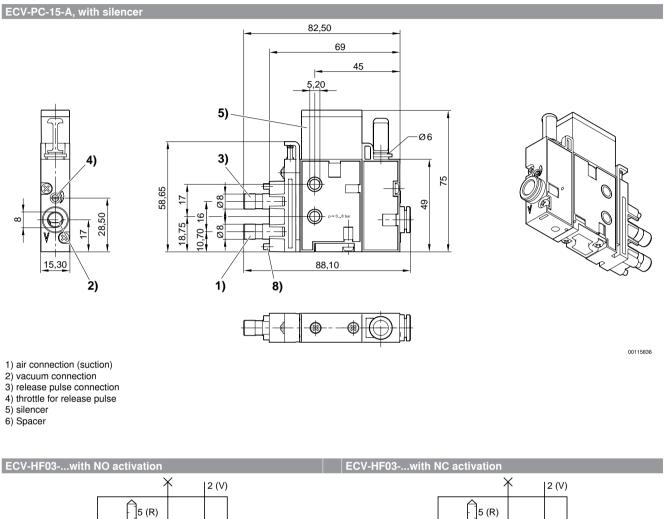
6) Spacer

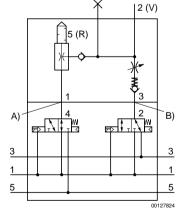


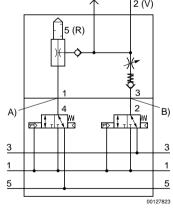
B) release pulse air connection

# compact ejector, Series ECV

► For HF03 valve system







A) Air connection suction

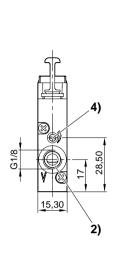
B) release pulse air connection

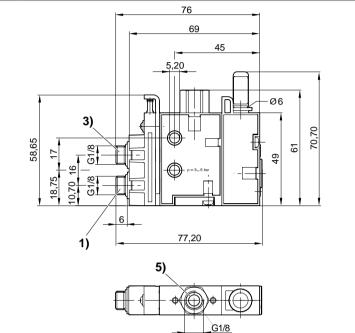


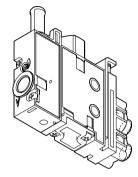
# compact ejector, Series ECV

► For HF03 valve system









00115839

1) air connection (suction)

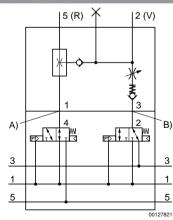
2) vacuum connection

3) release pulse connection

4) throttle for release pulse

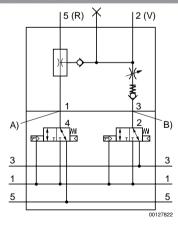
5) ventilation port

#### ECV-HF03-...with NO activation



A) Air connection suctionB) release pulse air connection

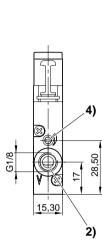
#### ECV-HF03-...with NC activation

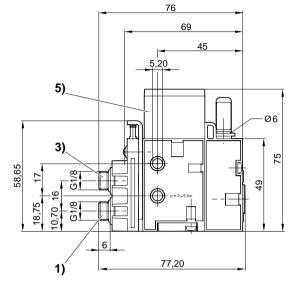


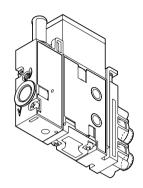
# compact ejector, Series ECV

► For HF03 valve system











00115840

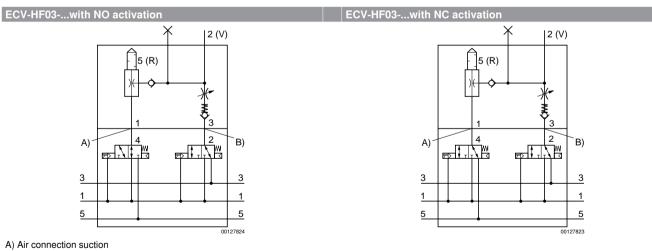
1) air connection (suction)

2) vacuum connection

3) release pulse connection

4) throttle for release pulse

5) silencer



B) release pulse air connection

# 58 AVENTICS

Valve systems ► Valve systems

#### Series HF03-LG Accessories

#### Pressure regulator subplate

► Base plate connection, Base plate connection ► Poppet valve



Working pressure min./max. Ambient temperature min./max. Medium temperature min./max. Medium Max. particle size Oil content of compressed air

Materials: Housing Seals 0.5 bar / 10 bar +0°C / +50°C +0°C / +50°C Compressed air 5 µm 0 mg/m<sup>3</sup> - 5 mg/m<sup>3</sup>

Polyamide Acrylonitrile butadiene rubber

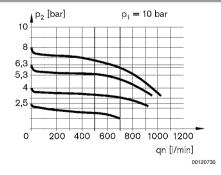
00120216

#### **Technical Remarks**

Protection class when mounted: IP65

Compres	ssed air connection	Adjustment range min./max.	Weight	Part No.
Input	Output			
		[bar]	[kg]	
Special base plate	Special base plate	0.5 / 10	0.085	0821302200

#### Flow diagram

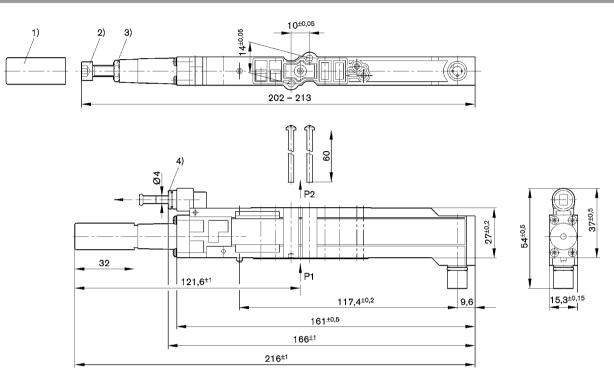


p1 = Working pressure p2 = Secondary pressure

qn = Nominal flow

#### Series HF03-LG Accessories

Dimensions



1) Locking cap 2) Regulating screw 3) Lock nut 4) Push-in fitting

p1 = working pressure p2 = secondary pressure

5) Valve position is controlled by the pressure regulator subplate

6) Valve position is directly supplied via channel 1 of the valve system

## **Pressure gauge**

► Front port ► Background color: Black ► Scale color: White ► Viewing window: Polystyrene ► Units: MPa

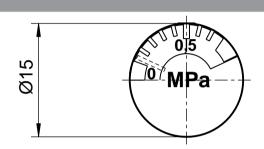
Version Main scale unit (outside) Ambient temperature min./max. Medium Oil content of compressed air Pointer color Main scale color (outside) Bourdon tube pressure gauge MPa +0°C / +60°C Compressed air 0 mg/m<sup>3</sup> - 1 mg/m<sup>3</sup> Red White 00120732

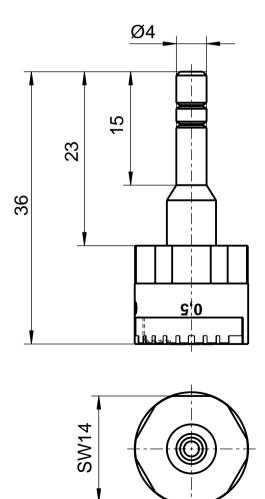




Compressed air connection			Display range	-	Window	Weight	Part No.
	[mm]	[bar]	[bar]			[kg]	
Ø 4	15	0 - 10	0 - 10	Acrylonitrile buta- diene styrene	Polystyrene	0.01	R412009413

# Dimensions





Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2017-02-21, ©AVENTICS S.à r.l., subject to change

23119

## Exhaust module, for port channels 2, 4



Working pressure min./max. Ambient temperature min./max. Medium

Materials: Housing Seals 0 bar / 10 bar -10°C / +60°C Compressed air

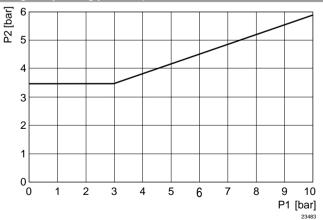
Aluminum Nitrile rubber

#### **Technical Remarks**

- When using polyurethane tubing, we recommend using additional stiffener sleeves.
- Particularly suitable for 5/3 CC valves, since the remaining pressure in the actuator can be exhausted when the control pressure is applied.
- The exhaust module and the air circuit should be tested monthly to ensure they function correctly.
- Applications with vertical actuators with exhaust or pressure throttles and a maximum load of 15 kg as well as up to a speed of Vmax < 33 mm/s.

	Port 2, 4	Weight	Part No.
		[kg]	
4 2	Ø 8		R422003118
<sup>10</sup> ⊳-Lhrll∓∓	Ø 6	0.08	R422003186
4 2	Ø 4		R422003188

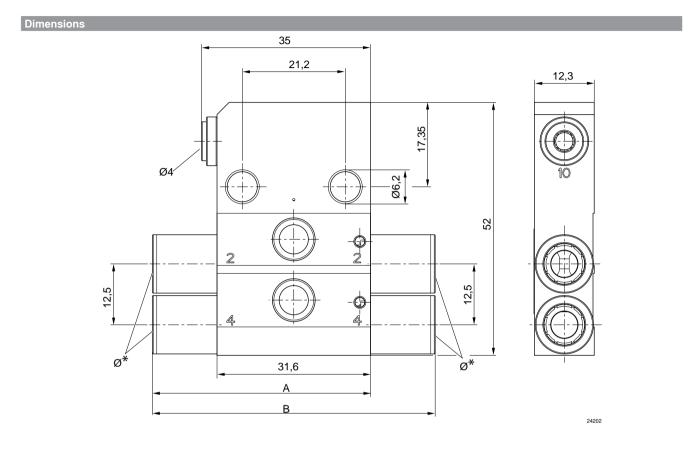
#### Minimum control pressure (depending on operating pressure)



p1 = pressure on connections 2 and 4; p2 = switching pressure

# 62 **AVENTICS** Valve systems - Valve systems

### Series HF03-LG Accessories



Part No.	Ø*	2 (NI/	4 (NI/	А	В	Weight kg			
R422003118	8	1080	1400	46	58	0.08			
R422003186	6	720	790	42	50	0.08			
R422003188	4	280	300	38	42	0.08			

# Multipole plug D-Sub (25-pin)

► Socket, D-Sub, 25-pin



Ambient temperature min./max. Protection class Operating voltage DC, max. Wire cross-section

Materials: Housing Housing color Cable color -20°C / +80°C IP67 24 V DC 0.22 mm<sup>2</sup>

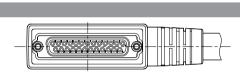
Thermoplastic elastomer Black Black

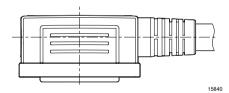
#### **Technical Remarks**

- The specified protection class is only valid in assembled and tested state.
- The increased wire cross-section of pin 25 is 0.82 mm<sup>2</sup>.

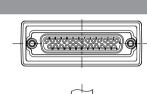
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

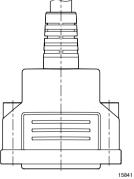
Cable exit	Cable sheath	Cable-Ø	Cable length		Fig.	Part No.
			L			
		[mm]	[m]			
	Polyvinyl chloride	8.5	3	-		R419500454
	Polyvinyl chloride	8.5	5	-		R419500455
	Polyvinyl chloride	8.5	10	-		R419500456
straight 180°	Polyurethane	10.5	3	suitable for dynamic laying	Fig. 1	R419500457
	Polyurethane 10.5 5		10.5 5 suitable for dynamic laying		R419500458	
	Polyurethane	Polyurethane 10.5 10 suitable for dynamic laying				R419500459
	Polyvinyl chloride	8.5	3	-		R419500460
	Polyvinyl chloride	8.5	5	-		R419500461
	Polyvinyl chloride	8.5	10	-		R419500462
angled 90°	Polyurethane	10.5	3	suitable for dynamic laying	Fig. 2	R419500463
	Polyurethane	10.5	5	suitable for dynamic laying		R419500464
	Polyurethane	10.5	10	suitable for dynamic laying		R419500465



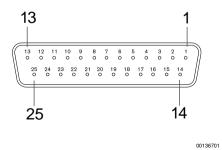








PIN assignment and cable colors, cable identification as per DIN 47100



Socket (female)

Fig. 1

Pin	1	2	3	4	5		6	7	8	g	) 10	) 11	12	13
Color	white	brown	green	yellow	gray	pir	nk t	olue	red	black	k viole	t gray/pinl	red/blue	white/ green
Pin	14	1	5 1	6	17	18	19	20	1	21	22	23	24	25
Color	brown/ green	white yellov				gray/ wł rown	nite/pink	pink/ brown		e/blue	brown/ blue	white/red	brown/red	white/ black

# Multipole plug (44-pin) ► high density ► Socket, D-Sub, 44-pin



Ambient temperature min./max.
Protection class
Operating voltage DC, max.

Materials: Housing

24 V DC

-5°C/+50°C IP65

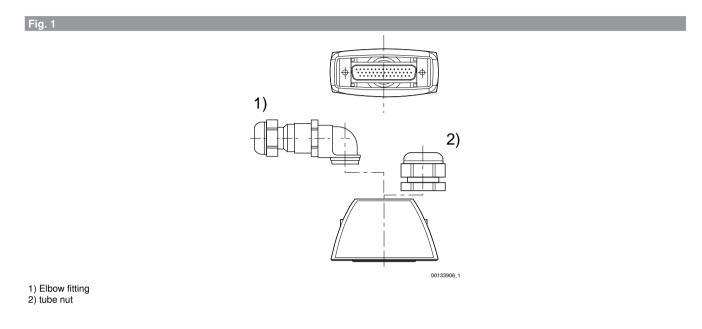
Polyamide

## **Technical Remarks**

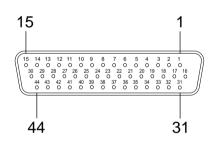
- The specified protection class is only valid in assembled and tested state.
- Note for use with VS LP04: The plug can only be used in the LP04 versions with a side electrical connection.

Cable exit	Housing color	Weight	Part No.
		[kg]	
straight 180° angled 90°	Black	0.042	R412011259
Scope of delivery: multipole plug including 1 tube	e nut and 1 elbow fitting		

#### Series HF03-LG Accessories



### Pin assignments



00137727

#### Socket (female)

Pin	1	2	3	4		5	6		7	8		9	10	11	12	13
Color	white	brown	green	yellow	gra	y	pink	blı	ıe	red	bla	ck v	violet	gray/pinł	red/blue	white/ green
Pin	14	1	5	16	17	18	1	19	20		21		22	23	24	25
Color	brown/ green	white yellov	e/ yell	w/ white/		gray/ brown		e/pink	pink/ brown	white	e/blue	brow blu	n/	white/red	brown/red	white/ black
								î								
Pin	26	2	7	28	29	30		31	32		33	:	34	35	36	37
Color	brown/ black	gray gree	-		pink/	/ellow pink	g	reen/ blue	/yellow blue	gree	en/red	yellow/re	ed	green/ black	yellow/ black	gray/blue
Pin			38		39		40		4	1		42			43	44
Color		pink/	hlue	gray/	red	nir	nk/red	ĺ	gray/blacl		nir	nk/black		blue/bl	ack	red/black

#### 

Valve systems ► Valve systems

#### Series HF03-LG Accessories

#### Multipole plug (44-pin) ► Socket, D-Sub, 44-pin



Ambient temperature min./max. Protection class Operating voltage DC, max. Wire cross-section

Materials: Housing Housing color Cable color -20°C / +80°C IP65 24 V DC 0.22 mm<sup>2</sup>

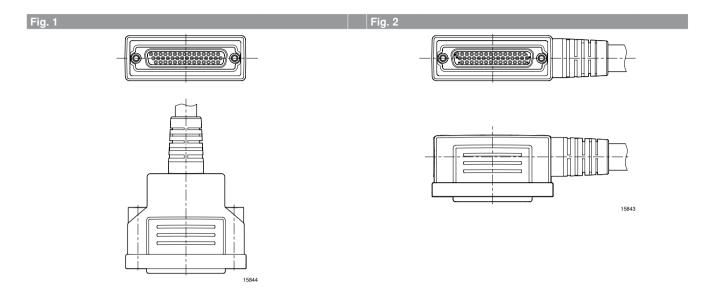
Thermoplastic elastomer Black Black

### **Technical Remarks**

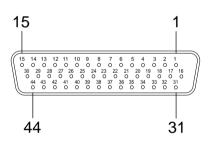
#### ■ The specified protection class is only valid in assembled and tested state.

Cable exit	Cable sheath	Cable-Ø	Cable length		Fig.	Part No.
			L			
		[mm]	[m]			
	Polyvinyl chloride	10.7	3	-		R419500466
	Polyvinyl chloride	10.7	5	-		R419500467
	Polyvinyl chloride	10.7	10	-		R419500468
straight 180°	Polyurethane	13	3	suitable for dynamic laying	Fig. 1	R419500469
	Polyurethane	13	5	suitable for dynamic laying		R419500470
	Polyurethane	13	10	suitable for dynamic laying		R419500471
	Polyvinyl chloride	10.7	3	-		R419500472
	Polyvinyl chloride	10.7	5	-		R419500473
	Polyvinyl chloride	10.7	10	-		R419500474
angled 90°	Polyurethane	13	3	suitable for dynamic laying	Fig. 2	R419500475
	Polyurethane	13	5	suitable for dynamic laying		R419500476
	Polyurethane	13	10	suitable for dynamic laying		R419500477

#### Series HF03-LG Accessories



Multipole plug (44-pin), PIN assignment and cable colors, cable identification as per DIN 47100



00137727

Socket (female)

Pin	1	2		3	4	5		6		7	8	9		10 1	1 12	13
Color	white	brown	gre	en	yellow	gray		pink	blu	ie	red	black	vio	let gray/pin	k red/blue	white/
																green
Pin	14	1	5	16		17	18		19	20		21	22	23	24	25
Color	brown/			ellow/	white/gr			white	/pink	pink/	white/bl	ue	brown/	white/red	brown/red	white/
	green	yello	w	brown			rown			brown			blue			black
Pin	26	2	27	28		29	30		31	32		33	34	35	36	37
Color	brown/	J		ellow/	pir		llow/	g	reen/	yellow/	green/r	ed y	ellow/red	0	yellow/	gray/blue
	black	gree	en	gray	gre	en	pink		blue	blue				black	black	
Pin			38		39	9		40		41			42		43	44
Color		pink	/blue		gray/red	ł	pink	⟨/red		gray/black		pink	/black	blue/b	ack	red/black

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Valve systems ► Valve systems

#### Series HF03-LG Accessories

#### CKD kit, Series HF03-LG

► Metric version ► Compressed air connection output: Ø 8 - G 1/8 ► Can be assembled into blocks ► Single base plate principle ► With collective pilot air exhaust



00128754

Ambient temperature min./max. Medium temperature min./max. Medium Working pressure min./max. Number of valve positions Grid dimension Tightening torque for mounting screws Exhaust (3,5)

Materials: Base plate push-in fitting Seals +0°C / +50°C +0°C / +50°C Compressed air See table below 1 15.8 mm 1.1 Nm With directional exhaust (3/5) Ports separated

Polyamide Brass, nickel-plated Nitrile rubber

**Technical Remarks** 

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

■ The oil content of compressed air must remain constant during the life cycle.

■ Use only the approved oils from AVENTICS, see chapter "Technical information".

Туре				Compressed	l air connection	Qn	Part No.
	Input	Output	Exhaust	Pilot control exhaust	Pilot connec- tion		
	[1]	[2 / 4]	[3 / 5]	[12]	[14]	[l/min]	
2x end plates with push-in fittings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, Ø8, internal pilot control	Ø 12	Ø 8	Ø 12	Ø 8	without	700	R412005795
2x end plates with push-in fittings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, Ø8, external pilot control	Ø 12	Ø8	Ø 12	Ø8	Ø8	700	R412005803
2x end plates with push-in fittings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, G1/8, internal pilot control	Ø 12	G 1/8	Ø 12	Ø8	without	700	R412005839

Туре				Compi	ressec	air connection	Qn	Part No.
	Input	Output	Exhaust	Pilot co	ontrol	Pilot connec-		
				ex	haust	tion		
	[1]	[2 / 4]	[3 / 5]		[12]	[14]	[l/min]	
2x end plates with push-in fittings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, G1/8, external pilot control	Ø 12	G 1/8	Ø 12		Ø 8	Ø8	700	R412005945
Part No		Wo	rking pressure i	min./max.				Pilot
R41200579	5			3 / 10				internal
R412005803	3			-1 / 10				external
R412005839	9			3 / 10				internal
R41200594	5			-1 / 10				external
1 = plug-in connect 2 and 4 = plug-in co 3 and 5 = plug-in co R = collected pilot e	onnection Ø 8 mm c	or threaded connecti or 1/2"		F				

X = external pilot control, plug-in connection Ø 8 mm or 1/4", connection X plugged with internal pilot control

#### CKD kit, Series HF03-LG

► Inch version ► Compressed air connection output: 1/8-27 NPTF - Ø 8 ► Can be assembled into blocks ► Single base plate principle ► With collective pilot air exhaust



00128754

Ambient temperature min./max. Medium temperature min./max. Medium Working pressure min./max. Number of valve positions Grid dimension Tightening torque for mounting screws Exhaust (3,5)

Materials: Base plate push-in fitting Seals +0°C / +50°C +0°C / +50°C Compressed air See table below 1 15.8 mm 1.1 Nm With directional exhaust (3/5) Ports separated

Polyamide Brass, nickel-plated Nitrile rubber

#### Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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AVENT 70 Valve systems ► Valve systems

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### Series HF03-LG Accessories

Туре				Compr	essed	l air connection	Qn	Part No.
	Input	Output	Exhaust	Pilot co exh	naust	Pilot connec- tion		
	[1]	[2 / 4]	[3 / 5]		[12]	[14]	[l/min]	
2x end plates with push-in fit- tings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, NPTF1/8, internal pilot control	1/2″	1/8-27 NPTF	1/2"		1/4″	without	700	R412005961
2x end plates with push-in fittings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, NPTF1/8, external pilot control	1/2"	1/8-27 NPTF	1/2"		1/4″	1/4″	700	R412005976
2x end plates with push-in fittings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, G1/8, internal pilot control	1/2"	G 1/8	1/2"		1/4″	without	700	R412005950
2x end plates with push-in fittings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, G1/8, external pilot control	1/2"	G 1/8	1/2"		1/4"	1/4"	700	R412005952
2x end plates with push-in fittings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, Ø8, internal pilot control	1/2*	Ø8	1/2"		1/4″	without	700	R412006547
2x end plates with push-in fittings 1, 3, 5, R, X and 1x subbase with push-in fittings 2, 4, Ø8, external pilot control	1/2"	Ø 8	1/2"		1/4″	1/4″	700	R412006626
Part No.		Wo	rking pressure r	min./max.				Pilot
R412005961	1			3 / 10				internal
R412005976				-1 / 10				external
R412005950	)			3 / 10				internal
R412005952				-1 / 10				external
R412006547	7			3 / 10				internal
1 = plug-in connecti 2 and 4 = plug-in co 3 and 5 = plug-in co B = collected pilot e	onnection Ø 8 mm c onnection Ø 12 mm	r threaded connecti or 1/2"		F				

 $\begin{array}{l} R = \text{collected pilot exhaust, plug-in connection $\alphi$ 8 mm or 1/4" \\ X = \text{external pilot control, plug-in connection $\alphi$ 8 mm or 1/4", connection X plugged with internal pilot control $\alphi$ 8 mm or 1/4". \\ \end{array}$ 

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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Part No.	Working pressure min./max.	Pilot
R412006626	-1 / 10	external
3 and 5 = plug-in con R = collected pilot ext	n Ø 12 mm or 1/2" nection Ø 8 mm or threaded connection G1/8 or 1/8 NPTF nection Ø 12 mm or 1/2" haust, plug-in connection Ø 8 mm or 1/4" trol, plug-in connection Ø 8 mm or 1/4", connection X plugged with int	ternal pilot control

#### Series QR1-S standard ► Blanking plug ► pin bushing ► Ø 8 - Ø 12 ► QR1-S-RBS



Ambient temperature min./max. Working pressure min./max.

Materials: Screw Housing +0°C / +60°C -0.95 bar / 10 bar

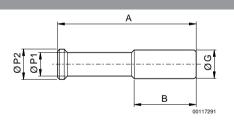
nickel-plated Polybutyleneterephthalate

#### **Technical Remarks**

■ The series QR1 (plastic) and QR2 (metal) can not be combined

• For further information about assembling and tolerances of adaptable tubing, see the section "Technical information".

Dimensions



Part No.	Port G	A	В	Ø P1	Ø P2	Delivery quantity [Piece]	Weight [kg]		
2123208000	Ø 8	39	18.5	5	8	20	0.0014		
2123210000	Ø 10	42	21	8	10	20	0.002		
2123212000	Ø 12	44	22.5	8	12	20	0.0036		

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Valve systems ► Valve systems

#### Series HF03-LG Accessories

#### Blanking plate ► for HF03-LG, CL03



Ambient temperature min./max. Medium Working pressure min./max. Mounting screw Tightening torque for mounting screws

Materials: Base plate Seals -5°C / +50°C Compressed air -0.9 bar / 10 bar cross recessed DIN EN ISO 4757-Z1 1.1 Nm+0,2

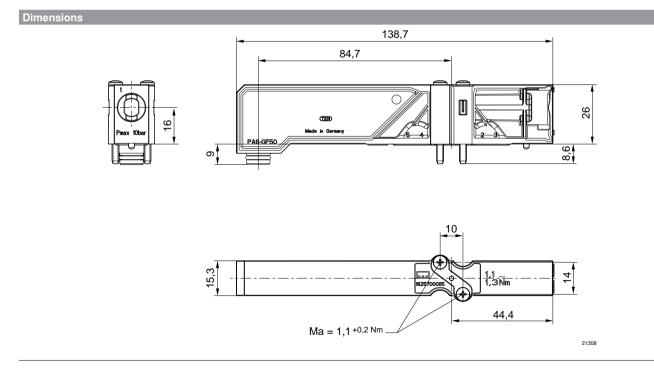
Polyamide Nitrile rubber

1690

#### **Technical Remarks**

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

Туре	Weight	Part No.
	[kg]	
Blanking plate, incl. sealing kit, 2x mounting screws	0.093	1825A00085



Series HF03-LG Accessories

# Accessories, Series HF03-LG



Part No.	Туре	Weight [kg]	Order quantity [Piece]			
1827030206	Plug box, 25-pin, complete	0.12	1			Γ
R412013379	HD multipole plug box, 44-pin, complete	0.12	1			
1827010606	Intermediate plate for 1 valve, push-in fitting Ø8 mm, for double solenoid valves, 2 tie rod extensions and 1 sealing kit	0.104	1			
1827010642	Intermediate plate for 3 valves, push-in fitting Ø8 mm, for double solenoid valves, 2 tie rod extensions and 1 sealing kit	0.284	3			
1827010643	Intermediate plate for 5 valves, push-in fitting Ø8 mm, for double solenoid valves, 2 tie rod extensions and 1 sealing kit	0.467	5			
1827010639	intermediate plate for 1 valve, thread con- nection G1/8, for double solenoid valves, 2 tie rod extensions and 1 sealing kit	0.108	1			
R412005959	Intermediate plate Ø8, for single solenoid valves, comprised of: 1x subbase, 2x tie rod extension, 1x sealing kit	0.108	1			
R412005958	Intermediate plate G1/8, for single solenoid valves, comprised of: 1x subbase, 2x tie rod extension, 1x sealing kit	0.108	1			
R412005783	Intermediate plate G1/8 NPTF, for double solenoid valves, comprised of: 1x subbase, 2x tie rod extension, 1x sealing kit	0.108	1			
1827010709	Mounting kit for hat rail DIN EN 60715, 35x15	0.052	-			
1827010707	Base plate for supply plate without valve control	0.108	1			
1821A39033	Supply plate, incl. sealing kit, 2x mounting screws	0.147	1			
1827A20285	Separator	0.001	1			

For connectors, plastic tubing, etc., see the Chapter "Pneumatic connection technologies". Field bus connections can be found in the correspondent chapter. AVENTICS GmbH Ulmer Straße 4 30880 Laatzen, GERMANY Phone +49 511 2136-0 Fax +49 511 2136-269 www.aventics.com info@aventics.com

# Find more contact information at www.aventics.com/contact

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