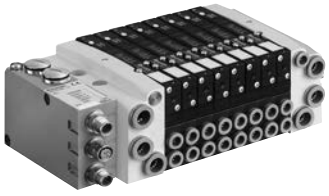
Valve systems → Valve systems

Valve system, Series HF03-LG

► Qn Max. = 700 l/min ► Direct field bus connection (BDC) ► B-design ► suitable for use in food processing



00130745

Version	Field bus
Blocking principle	Single base plate principle
Working pressure min./max.	2.5 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 µm
Oil content of compressed air	0 mg/m³
Protection class, with plug	IP 65
Number of valve positions	32
Number of solenoid coils	32
Operational voltage electronics	24 V DC
Electronics voltage tolerance	-15% / +20%
Lubricant	ISO 21469 (NSF-H1)

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

Technical Remarks
■ 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 Bosch Rexroth, see chapter „Technical information“.
■ See the following pages on the series for technical data on individual components.
■ For technical data for electronics (link structures), see the Chapter “Field bus 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 www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

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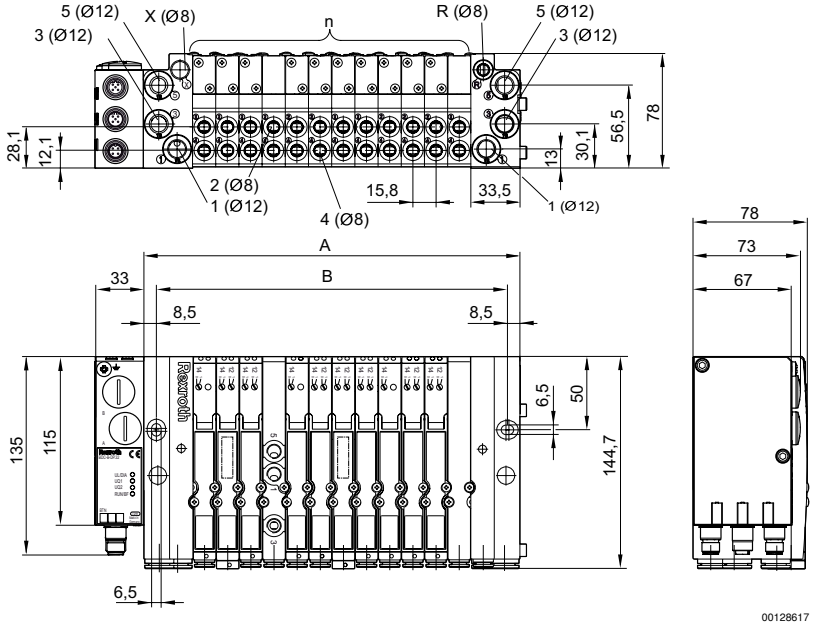
Dimensions in mm



1 = plug-in connection Ø 12 mm or plug-in connection 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 plug-in connection 1/2”
R = restricted 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
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
B	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
B	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										
B	508.2	524	539.8	555.6										

n = number of subbases

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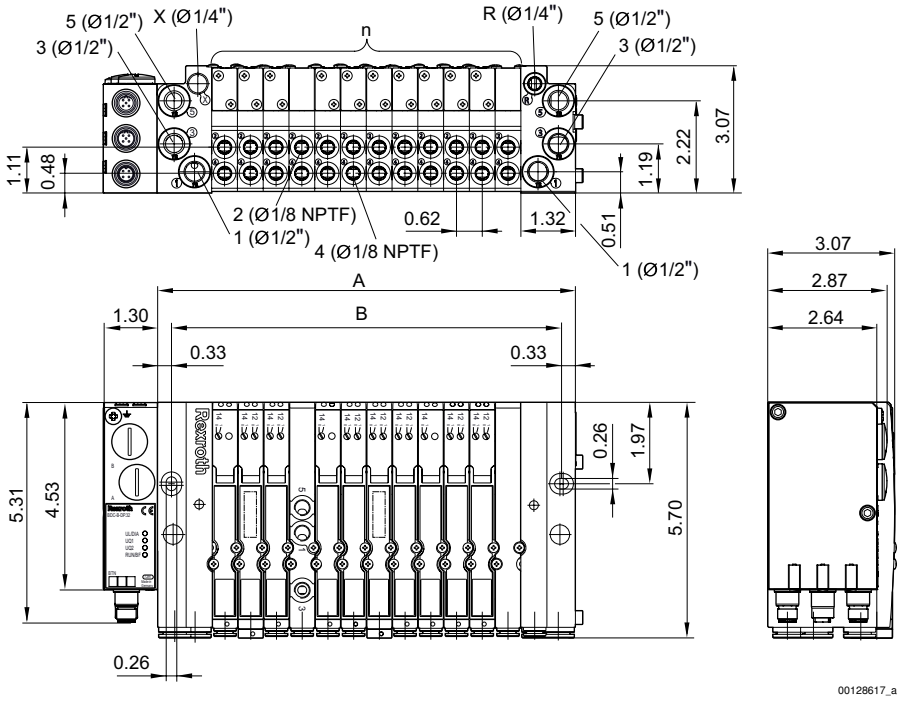
Dimensions in inches



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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
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	25	26	27	28
A	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
B	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										
A	20.68	21.3	21.92	22.54										
B	20.01	20.63	21.25	21.87										
n = number of subbases														