Pressure regulator LR-DB

FESTO



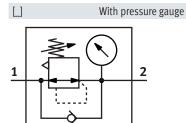
Pressure regulator LR-DB

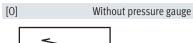
Characteristics

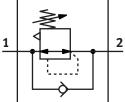
At a glance

- Setting values are secured by locking the rotary knob
- $\bullet \ \ \mbox{Good regulation characteristics with minimal pressure hysteres is } \\$
- High flow rate performance

Pressure gauge







Type code

001	Series			
LR	Pressure regulator			
002	Pneumatic connection			
1/4	Female thread G1/4			
003	Version			
DB	D series, polymer			

004	Pressure regulation range	
7	0.5 7 bar (0.05 0.7 MPa)	
005	Pressure gauge	
	With pressure gauge	
0	Without pressure gauge	
006	Size	
MINI	Grid dimension 40 mm (without connecting plates)	

Datasheet

General	technical	l data

Pneumatic connection, port 1	G1/4			
Pneumatic connection, port 2	G1/4			
Size	Mini			
Design	Pressure regulator with pressure gauge			
	Pressure regulator without pressure gauge			
Controller function	With secondary venting			
	With return flow function			
Type of mounting	Either:			
	Front panel mounting			
	In-line installation			
	With through-hole			
	Via mounting bracket			
Mounting position	optional			
Actuator lock	Rotary knob with detent			
Max. pressure hysteresis	0.5 bar			
Pressure gauge (ANALOG) or	Prepared for G1/8			
Pressure display (DIGITAL)	With pressure gauge			

Operating and environmental conditions

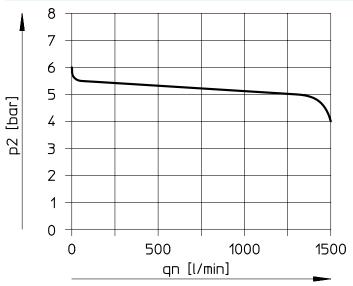
0.1 1 MPa
1.5 10 bar
21 145 psi
Compressed air to ISO 8573-1:2010 [7:4:4]
Lubricated operation possible (in which case lubricated operation will always be required)
-5 50℃
-5 50℃
1 - Low corrosion stress

¹⁾ More information www.festo.com/x/topic/crc

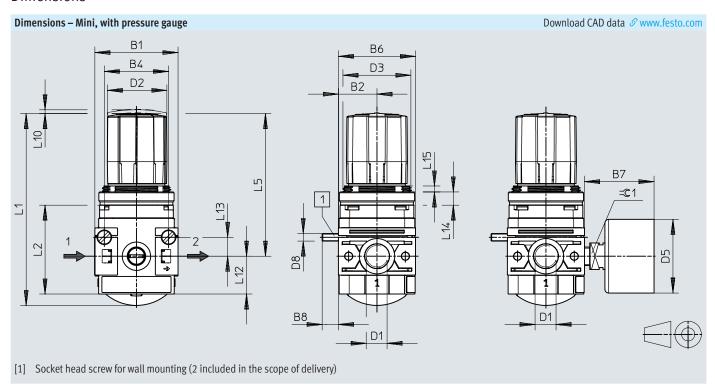
Materials

Material housing	PA-reinforced
Material rotary knob	POM
Material seals	NBR
Note on materials	RoHS-compliant Compliant C
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Standard flow rate qn as a function of output pressure p2 (p1 = 10 bar)



Dimensions



	B1	B2	B4	В6	B7 max.	B8	D1	D2 Ø	D3	D5 Ø	D8
LR-1/4-DB	44	20,5	34	41	37	9	G1/4	32	M36x1,5	39	M4
	L1	L2		-5	L10	L12	L13	L1	4	L15	= © 1
LR-1/4-DB	102	47	7	5,9	2	20	10	7		3,2	14

Pressure regulator LR-DB

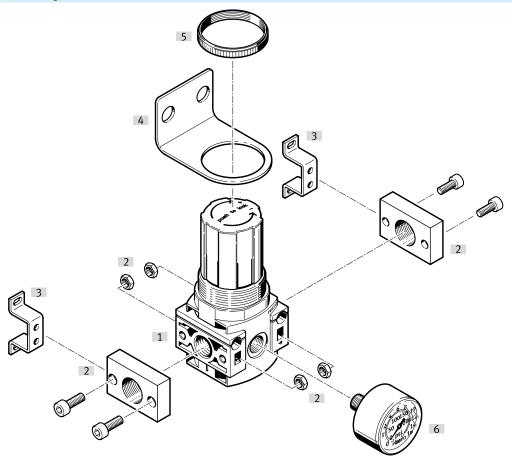
Ordering data

Pressure regulators LR-DB (with pressure gauge, outer scale in bar, inner scale in psi)								
Size	Pneumatic connection, port 1	range	Standard nominal flow rate (standard- ised to DIN 1343)	Product weight	Part no.	Туре		
Mini	G1/4	0.5 7 bar	1,300 l/min	150 g	539682	LR-1/4-DB-7-MINI		

Pressure regulators LR-DB (without pressure gauge)								
Size	Pneumatic connection, port 1	Pressure regulation range	Standard nominal flow rate (standard- ised to DIN 1343)	Product weight	Part no.	Туре		
Mini	G1/4	0.5 12 bar	1,300 l/min	150 g	537643	LR-1/4-DB-7-O-MINI		

Peripherals

Pressure regulator LR-DB



Access	sories		→ Link
	Type/order code	Description	
[1]	Pressure regulator LR-DB		₿ lr-db
[2]	Connection kit PBL		8
[3]	Mounting bracket HFOE		8
[4]	Mounting bracket HR-D		8
[5]	Knurled nut HMR	Included in the scope of delivery	8-
[6]	Pressure gauge MA		8

Accessories

Connection kit PBL								
	Corrosion resistance class CRC ¹⁾	LABS (PWIS) conformity	Part no.	Туре				
	1 - Low corrosion stress	VDMA24364-B1/B2-L	542788	PBL-1/4-DB-MINI				

¹⁾ More information: www.festo.com/x/topic/kbk

Mounting bracket HFOE								
	Corrosion resistance class CRC ¹⁾	LABS (PWIS) conformity	Part no.	Туре				
G	2 - Moderate corrosion stress	VDMA24364-B2-L	159593	HFOE-D-MIDI/MAXI				
		VDMA24364-B1/B2-L	159638	HFOE-D-MINI				

¹⁾ More information: www.festo.com/x/topic/kbk

Mounting bracket HR-D							
	Corrosion resistance class CRC ¹⁾	LABS (PWIS) conformity	Part no.	Туре			
	1 - Low corrosion stress	VDMA24364-B1/B2-L	164936	HR-D-MINI			
	2 - Moderate corrosion stress		162804	HR-D-MIDI			
			162805	HR-D-MAXI			
			193802	HR-D-DI-MAXI			

¹⁾ More information: www.festo.com/x/topic/kbk

Pressure gauge MA						
	Nominal size of pressure gauge	Pneumatic con- nection	Scale	Product weight	Part no.	Туре
	40	G1/8	Double scale, Bar	60 g	345395	MA-40-16-1/8
			(outside scale), psi (inner scale)		359874	MA-40-10-1/8
			Single scale, MPa		192733	MA-40-1,6-G1/8-MPA
			(outer scale)		192732	MA-40-1-G1/8-MPA
		G1/4	Double scale, psi (inner scale), Bar (outside scale)	80 g	159596	FMA-40-10-1/4-EN
			· ·	70 g	183900	MA-40-10-G1/4-EN
				80 g	159597	FMA-40-16-1/4-EN
		R1/8		psi (inner scale)	60 g	162835
	50 G1/4	G1/4		70 g	356759	MA-50-16-1/4
					359873	MA-50-10-1/4
				100 g	159600	FMA-50-16-1/4-EN
					159599	FMA-50-10-1/4-EN
			Single scale, MPa	70 g	192734	MA-50-1-G1/4-MPA
			(outer scale)		192735	MA-50-1,6-G1/4-MPA

Accessories

	Pneumatic con- nection	Switching output	Display type	Electrical connection 1, connector system	Part no.	Туре
	R1/8	2 x PNP or 2 x NPN, switchable	Illuminated LCD	M12x1, A-coded to EN 61076-2- 101 M8x1, A-coded, to EN 61076-2- 104	8001206 8001203	SPAU-P10R-T-R18M-L-PNLK-PNVBA-M12D SPAU-P10R-T-R18M-L-PNLK-PNVBA-M8D
	R1/4			M12x1, A-coded to EN 61076-2- 101	8001208	SPAU-P10R-T-R14M-L-PNLK-PNVBA-M12D
				M8x1, A-coded, to EN 61076-2- 104	8001209	SPAU-P10R-T-R14M-L-PNLK-PNVBA-M8D

Pneumatic connection, port 1	Pneumatic connection, port 2	Product weight	Part no.	Туре
Female thread G1/4	For tubing outside di- ameter of 8 mm	24 g	★ 153026	QSF-1/4-8-B

Push-in T-fitting QSTF, rotatable 360°,	Pneumatic connection, port 1	Pneumatic connection, port 2	Product weight	Part no.	Туре
	Male thread G1/4	Female thread G1/4, For tubing outside di- ameter of 8 mm	44 g	186203	QSTF-G1/4-8

Push-in Y-fitting QSYLV, rotatable 360°, male thread with external hex							
	Pneumatic connection,	Pneumatic connection,	Product weight	Part no.	Туре		
	port 1	port 2					
	Male thread G1/4	For tubing outside diameter of 8 mm	48 g	186210	QSYLV-G1/4-8		