

Valve terminal systems → Valve terminal systems






Series LP04

Brochure



Valve terminal systems → Valve terminal systems

* **Series LP04****Valve terminal systems**

	Valve terminal system, Series LP04 Qn max. = 350 l/min; Electr. connection: D-Sub plug, 25-pin, side	4
	Valve terminal system, Series LP04 Qn max. = 350 l/min; Electr. connection: D-Sub plug, 25-pin, top	6
	Valve terminal system, Series LP04 Qn max. = 350 l/min; Integrated field bus	8
	Valve terminal system, Series LP04 Qn max. = 350 l/min; direct field bus connection; Integrated field bus	12
	Valve terminal system, Series LP04 Qn max. = 350 l/min; field bus connection with diagnosis; ATEX optional	16

Valves

	2x3/2-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: with detent	19
	2x3/2-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: without detent	21
	5/2-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: with detent	23
	5/2-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: without detent	25
	5/3-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: with detent	27
	5/3-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: without detent	29
	2x3/2-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: with detent; ATEX certified	31
	2x3/2-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: without detent; ATEX certified	33
	5/2-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: with detent; ATEX certified	35
	5/2-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: without detent; ATEX certified	37
	5/3-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: with detent; ATEX certified	39
	5/3-way valve, Series HF04 and LP04 Qn = 400 l/min; plate connection; manual override: without detent; ATEX certified	41






* Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ **Series LP04****Zubehör**

	Multiple plug D-Sub (25-pin) Socket, D-Sub, 25-pin; with cable	43
	Multiple plug D-Sub (25-pin) Socket, D-Sub, 25-pin; with cable	44
	Pressure regulator subplate, Series HF04 and LP04	45
	VDS data cable Socket, M12x1, 8-pin, A-coded; Plug, M12x1, 8-pin, A-coded	47
	Cable socket	48
	Accessories, for Series LP04	48

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; Electr. connection: D-Sub plug, 25-pin, side



PLP04_503

Blocking principle	Double base plate principle
Working pressure min./max.	-0.95 bar / 10 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529; with D-Sub plug, 25-pin, side	IP 65
Number of valve positions	16
Number of solenoid coils	24
DC operating voltage	24 V
Voltage tolerance DC	-10% / +10%

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 air pressure 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 for individual components.

Configurable product

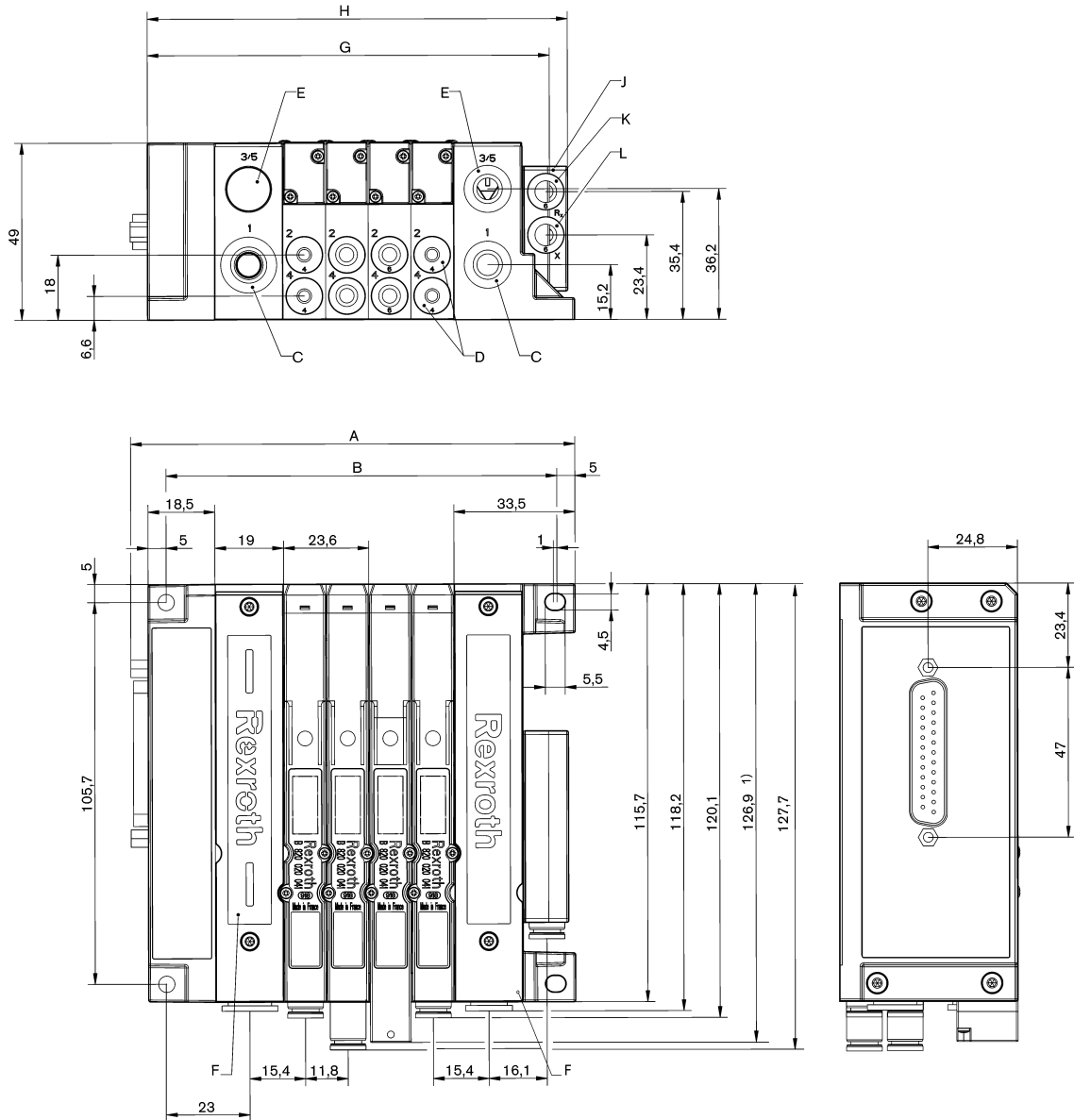
This product is configurable. Please use our configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; Electr. connection: D-Sub plug, 25-pin, side

Dimensions



00120486

A = 75.8 + number of subbases x 11.8

B = 61 + number of subbases x 11.8

C = connection port 1: 8 mm (5/16") or push-in fitting 3/8"

D = connection ports 2 and 4: 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

E = connection port 3/5: 8 mm (5/16"), push-in fitting 3/8" or plugged (integrated silencer)

F = option: integrated silencer or collected exhaust

G = 64.1 + number of subbases x 11.8 (internal air supply and integrated silencer)

H = 69.1 + number of subbases x 11.8 (external air supply and/or collected exhaust)

J = option: external pilot air supply, plugged with internal pilot air supply

K = connection port Rx (collected exhaust): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

L = connection port X (external pilot air supply): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

1) Dimensions for 5/3-way valve only

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

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; Electr. connection: D-Sub plug, 25-pin, top



PLP04_504

Blocking principle	Double base plate principle
Working pressure min./max.	-0.95 bar / 10 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529; with D-Sub plug, 25-pin, top	IP 20
Number of valve positions	16
Number of solenoid coils	24
DC operating voltage	24 V
Voltage tolerance DC	-10% / +10%

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 air pressure 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 for individual components.

Configurable product

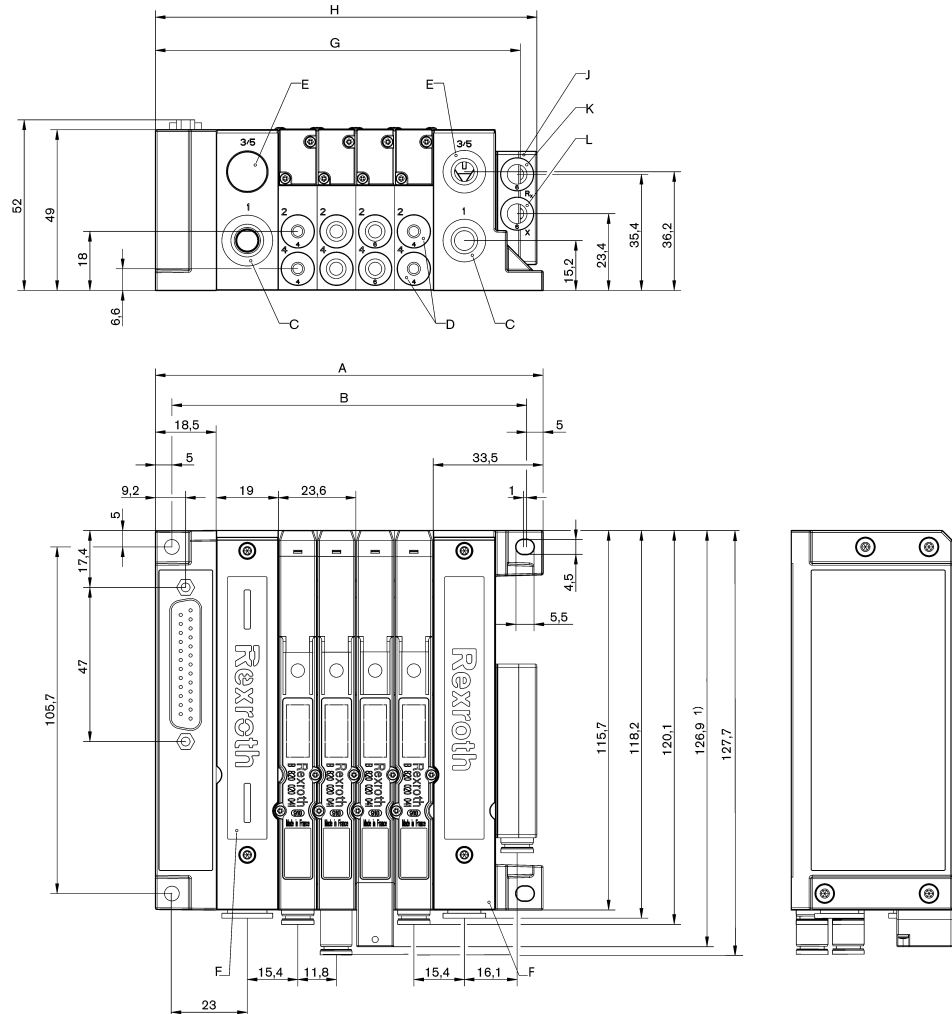
This product is configurable. Please use our configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; Electr. connection: D-Sub plug, 25-pin, top

Dimensions



00120487

A = 71 + number of subbases x 11.8

B = 61 + number of subbases x 11.8

C = connection port 1: 8 mm (5/16") or push-in fitting 3/8"

D = connection ports 2 and 4: 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

E = connection port 3/5: 8 mm (5/16"), push-in fitting 3/8" or plugged (integrated silencer)

F = option: integrated silencer or collected exhaust.

G = 64.1 + number of subbases x 11.8 (internal air supply and integrated silencer)

H = 69.1 + number of subbases x 11.8 (external air supply and/or collected exhaust)

J = option: external pilot air supply, plugged with internal pilot air supply

K = connection port Rx (collected exhaust): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

L = connection port X (external pilot air supply): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

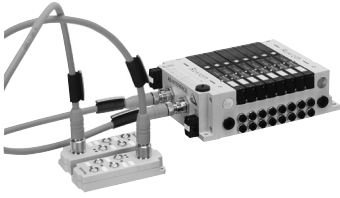
1) Dimensions for 5/3-way valve only

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

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; Integrated field bus



00120535

Certificates	CE declaration of conformity
Version	field bus
Blocking principle	Double base plate principle
Working pressure min./max.	-0.95 bar / 10 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	+0 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529:, with plug	IP 65
Number of valve positions	8
Number of solenoid coils	8
Supported field bus protocols:	AS-i
Operational voltage electronics	AS-i compatible
Power supply connection	AS-i black flat cable
Communication port	AS-i yellow flat cable

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 air pressure 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 for individual components.

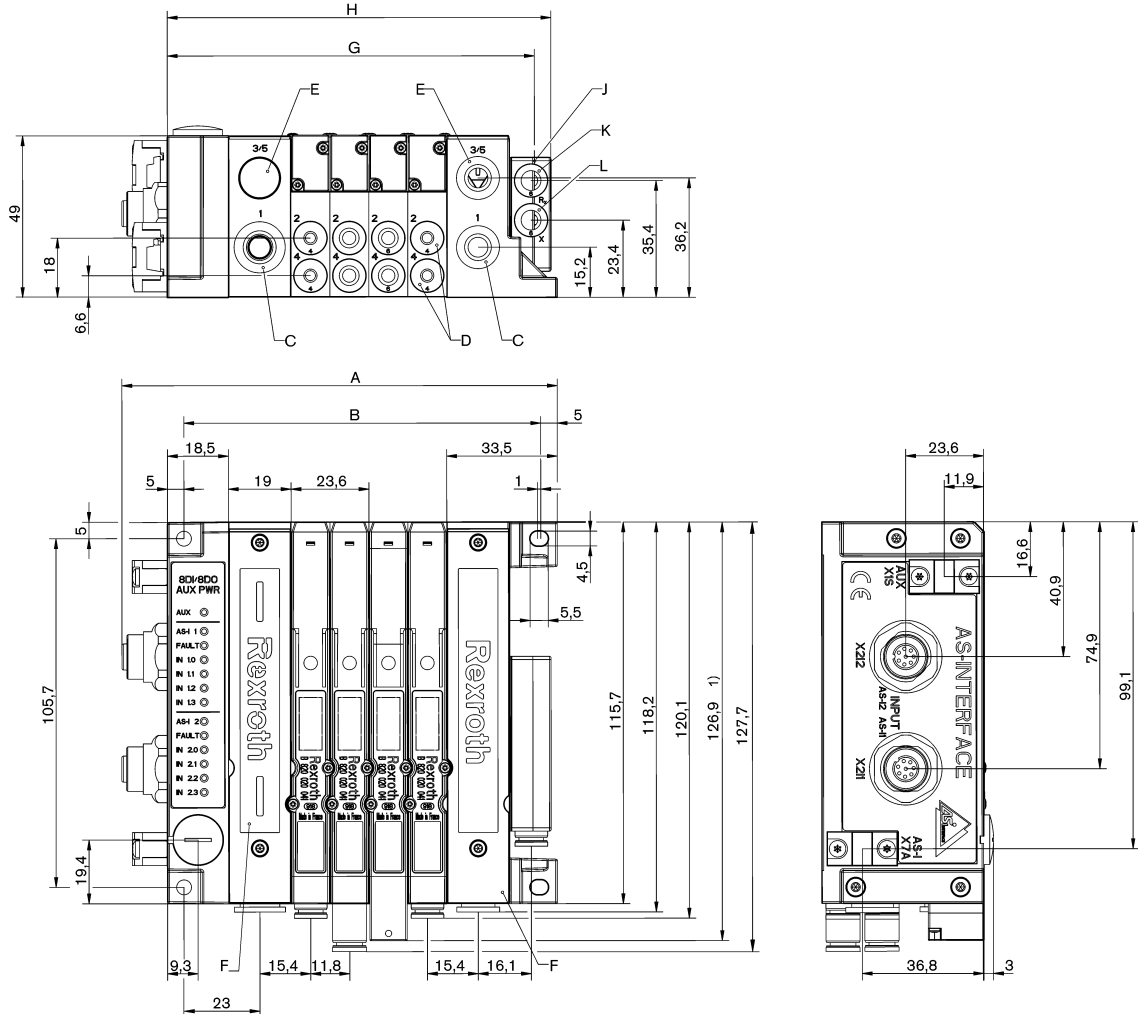
Configurable product

This product is configurable. Please use our configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04
 Qn max. = 350 l/min; Integrated field bus

Dimensions, 8DI/8DO-AUX



00120485

- A = 84.8 + number of subbases x 11.8
 - B = 61 + number of subbases x 11.8
 - C = connection port 1: 8 mm (5/16") or push-in fitting 3/8"
 - D = connection ports 2 and 4: 4 mm, 6 mm, push-in fitting 1/8" or 1/4"
 - E = connection port 3/5: 8 mm (5/16"), push-in fitting 3/8" or plugged (integrated silencer)
 - F = option: integrated silencer or collected exhaust
 - G = 64.1 + number of subbases x 11.8 (internal air supply and integrated silencer)
 - H = 69.1 + number of subbases x 11.8 (external air supply and/or collected exhaust)
 - J = option: external pilot air supply, plugged with internal pilot air supply
 - K = connection port Rx (collected pilot exhaust): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"
 - L = connection port X (external pilot air supply): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"
 - 1) dimensions for 5/3-way valve only
- NOTE: dimensions for input module (R402001810), see accessories.
 An example configuration is illustrated. The delivered product may thus deviate from the illustration.

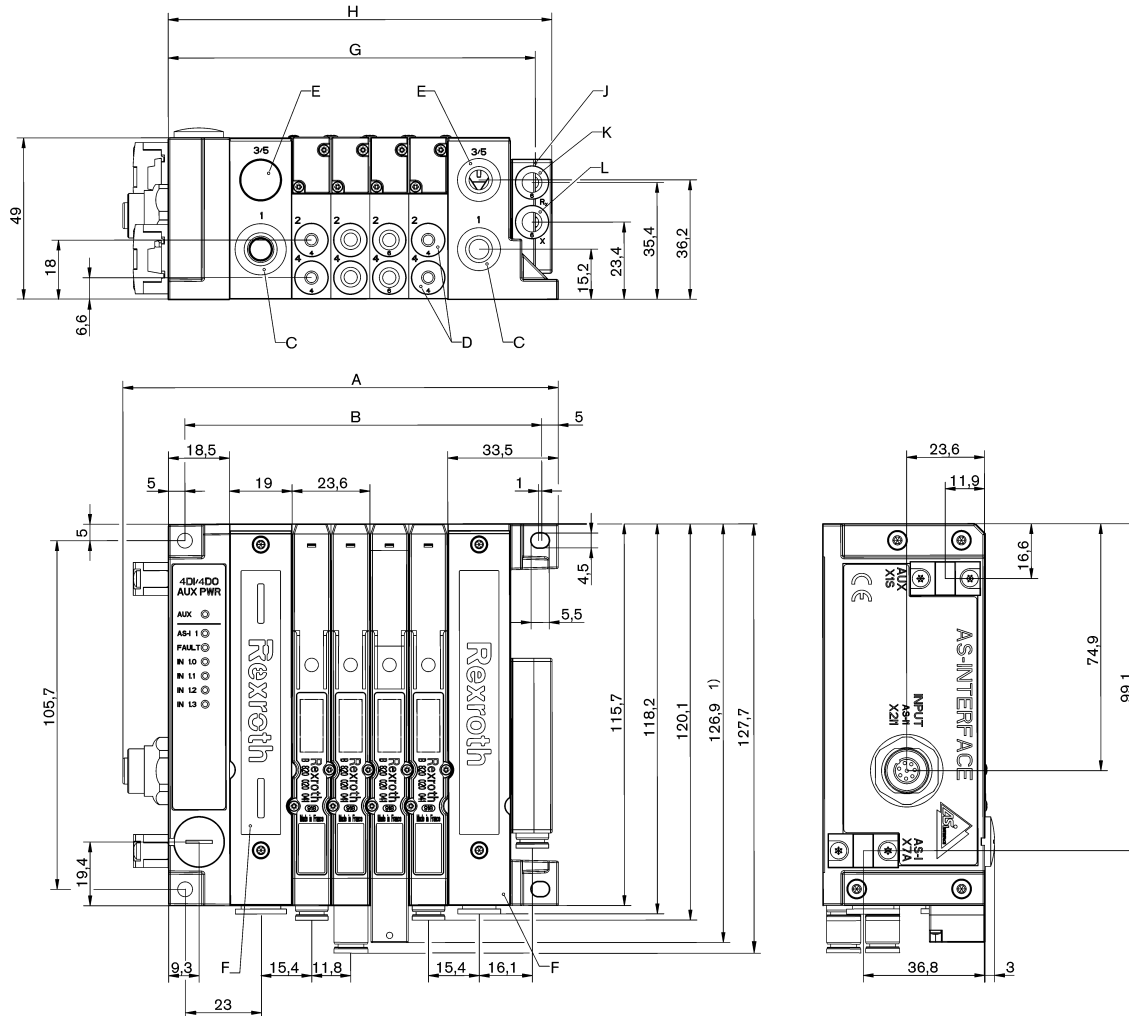
★ Core products - preferably for new constructions, worldwide service
 ● Service products - existing standard program, worldwide service
 Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; Integrated field bus

Dimensions, 4DI/4DO-AUX



A = 84.8 + number of subbases x 11.8

B = 61 + number of subbases x 11.8

C = connection port 1: 8 mm (5/16") or push-in fitting 3/8"

D = connection ports 2 and 4: 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

E = connection port 3/5: 8 mm (5/16"), push-in fitting 3/8" or plugged (integrated silencer)

F = option: integrated silencer or collected exhaust

G = 64.1 + number of subbases x 11.8 (internal air supply and integrated silencer)

H = 69.1 + number of subbases x 11.8 (external air supply and/or collected exhaust)

J = option: external pilot air supply, plugged with internal pilot air supply

K = connection port Rx (collected pilot exhaust): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

L = connection port X (external pilot air supply): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

1) dimensions for 5/3-way valve only

NOTE: dimensions for input module (R402001810), see accessories.

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

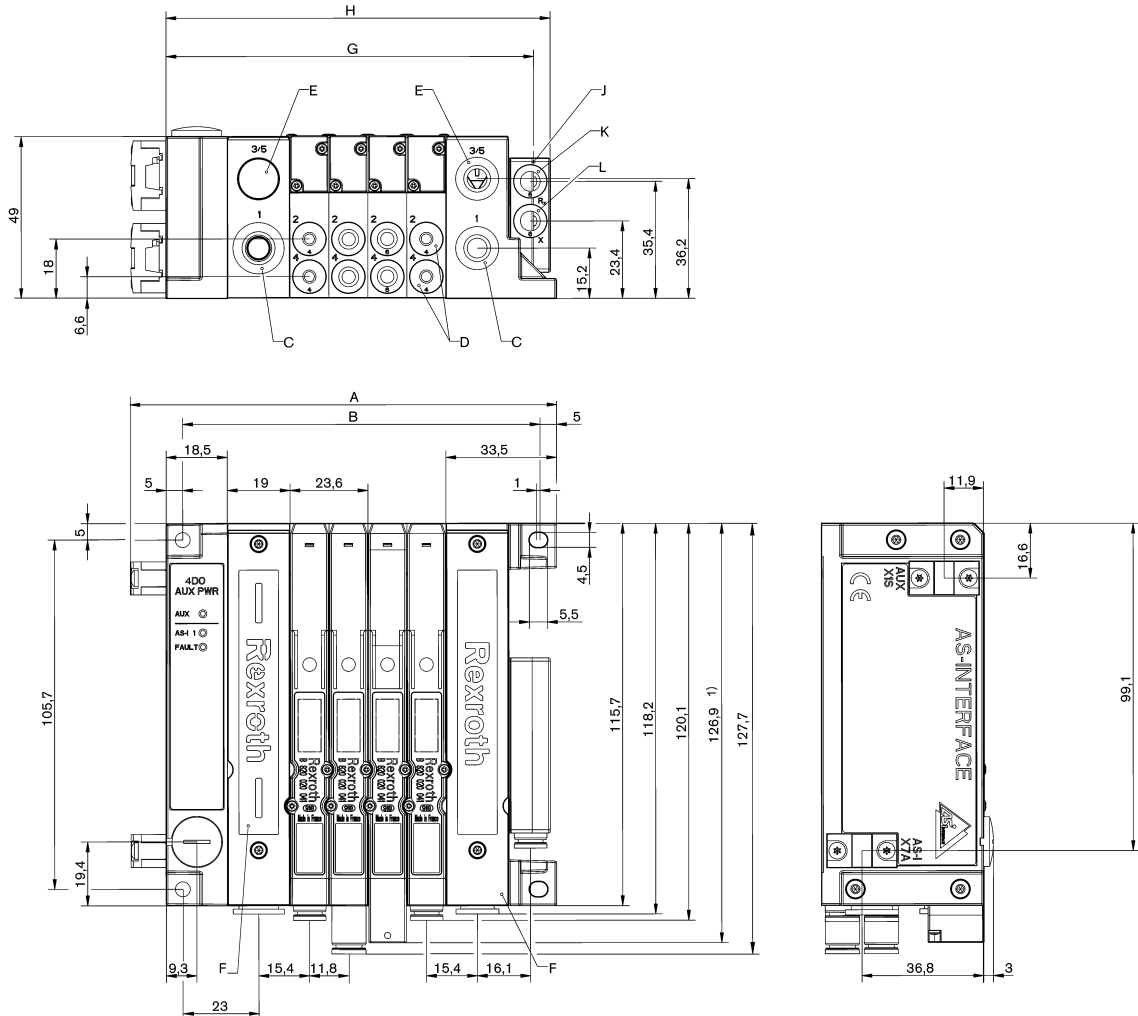
00120522

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; Integrated field bus

Dimensions, 4DO-AUX



00120523

A = 81.5 + number of subbases x 11.8

B = 61 + number of subbases x 11.8

C = connection port 1: 8 mm (5/16") or push-in fitting 3/8"

D = connection ports 2 and 4: 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

E = connection port 3/5: 8 mm (5/16"), push-in fitting 3/8" or plugged (integrated silencer)

F = option: integrated silencer or collected exhaust

G = 64.1 + number of subbases x 11.8 (internal air supply and integrated silencer)

H = 69.1 + number of subbases x 11.8 (external air supply and/or collected exhaust)

J = option: external pilot air supply, plugged with internal pilot air supply

K = connection port Rx (collected exhaust): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

L = connection port X (external pilot air supply): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

1) Dimensions for 5/3-way valve only

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

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; direct field bus connection; Integrated field bus



PLP04_501

Certificates	CE declaration of conformity
Version	field bus
Blocking principle	Double base plate principle
Working pressure min./max.	-0.95 bar / 10 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	+0 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529; with plug	IP 65
Number of valve positions	16
Number of solenoid coils	32
Supported field bus protocols:	Profibus DP CANopen DeviceNet
Operational voltage electronics	24 V DC
Electronics voltage tolerance	-10% / +10%

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 air pressure 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 for individual components.

Configurable product



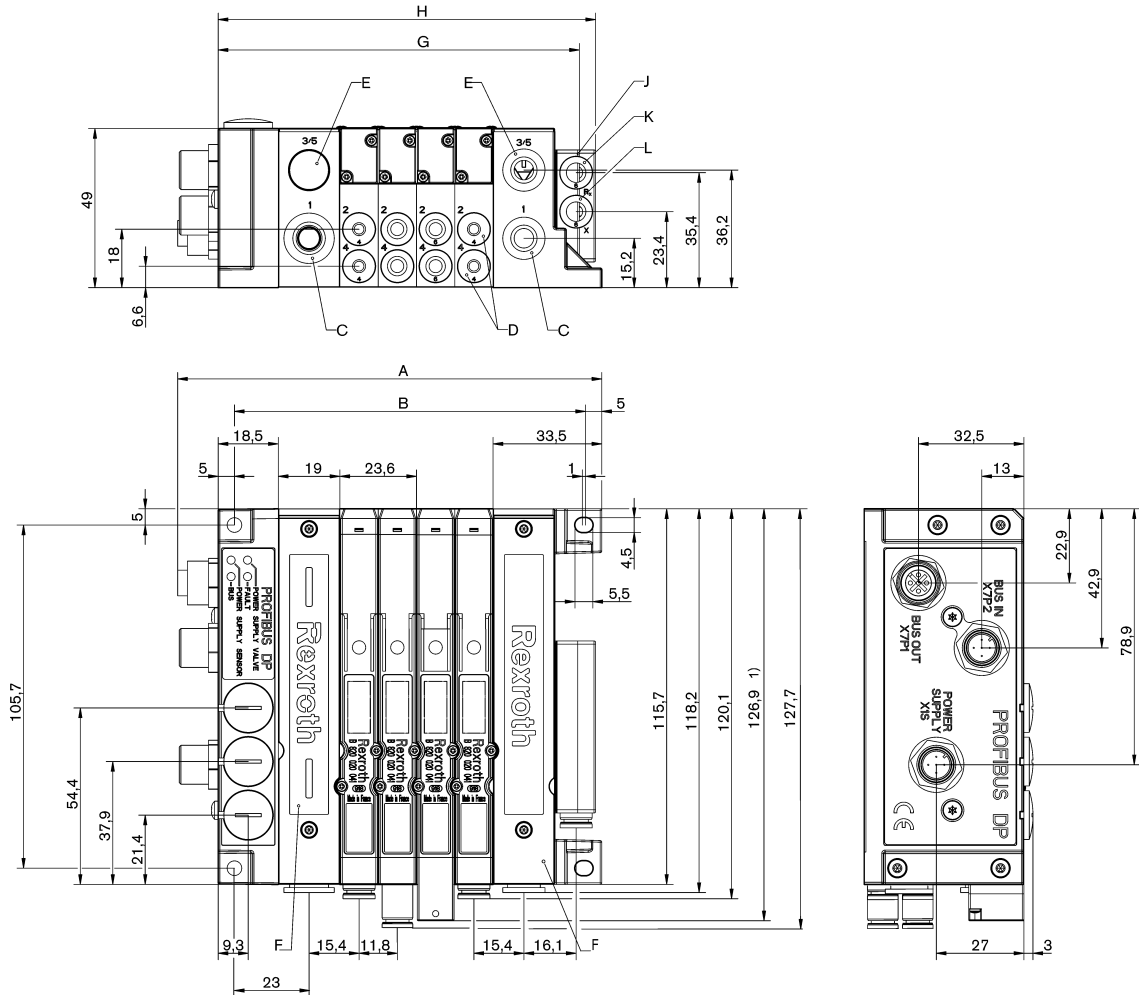
This product is configurable. Please use our configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; direct field bus connection; Integrated field bus

Dimensions, Profibus DP



00120491

- A = 83.5 + number of subbases x 11.8
- B = 61 + number of subbases x 11.8
- C = connection port 1: 8 mm (5/16") or push-in fitting 3/8"
- D = connection ports 2 and 4: 4 mm, 6 mm, push-in fitting 1/8" or 1/4"
- E = connection port 3/5: 8 mm (5/16"), push-in fitting 3/8" or plugged (integrated silencer)
- F = option: integrated silencer or collected exhaust
- G = 64.1 + number of subbases x 11.8 (internal air supply and integrated silencer)
- H = 69.1 + number of subbases x 11.8 (external air supply and/or collected exhaust)
- J = option: external pilot air supply, plugged with internal pilot air supply
- K = connection port Rx (collected exhaust): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"
- L = connection port X (external pilot air supply): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"
- 1) Dimensions for 5/3-way valve only

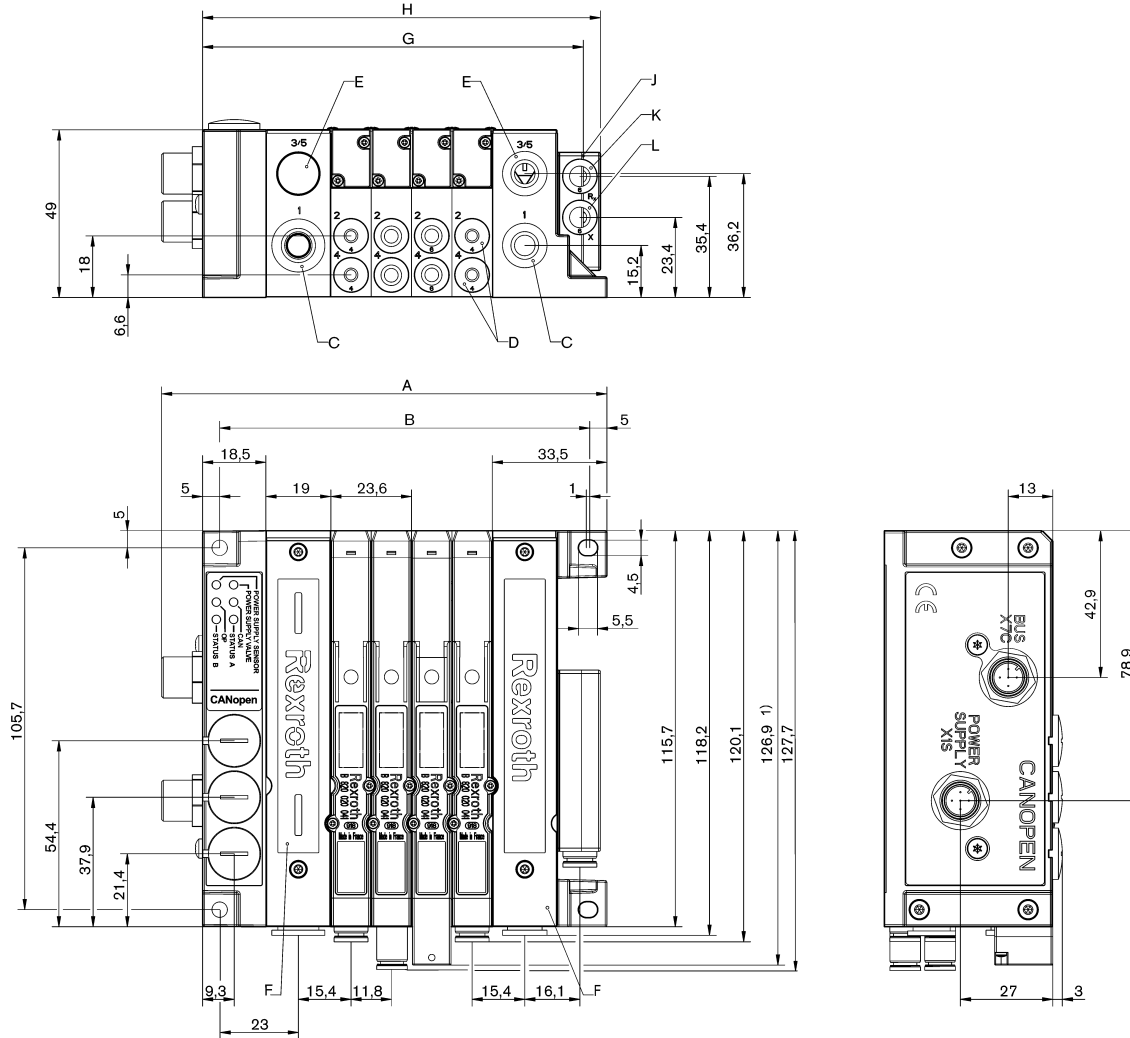
An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; direct field bus connection; Integrated field bus

Dimensions, CANopen



00120527

A = 83 + number of subbases x 11.8

B = 61 + number of subbases x 11.8

C = connection port 1: 8 mm (5/16") or push-in fitting 3/8"

D = connection ports 2 and 4: 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

E = connection port 3/5: 8 mm (5/16"), push-in fitting 3/8" or plugged (integrated silencer)

F = option: integrated silencer or collected exhaust

G = 64.1 + number of subbases x 11.8 (internal air supply and integrated silencer)

H = 69.1 + number of subbases x 11.8 (external air supply and/or collected exhaust)

J = option: external pilot air supply, plugged with internal pilot air supply

K = connection port Rx (collected exhaust): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

L = connection port X (external pilot air supply): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

1) Dimensions for 5/3-way valve only

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

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

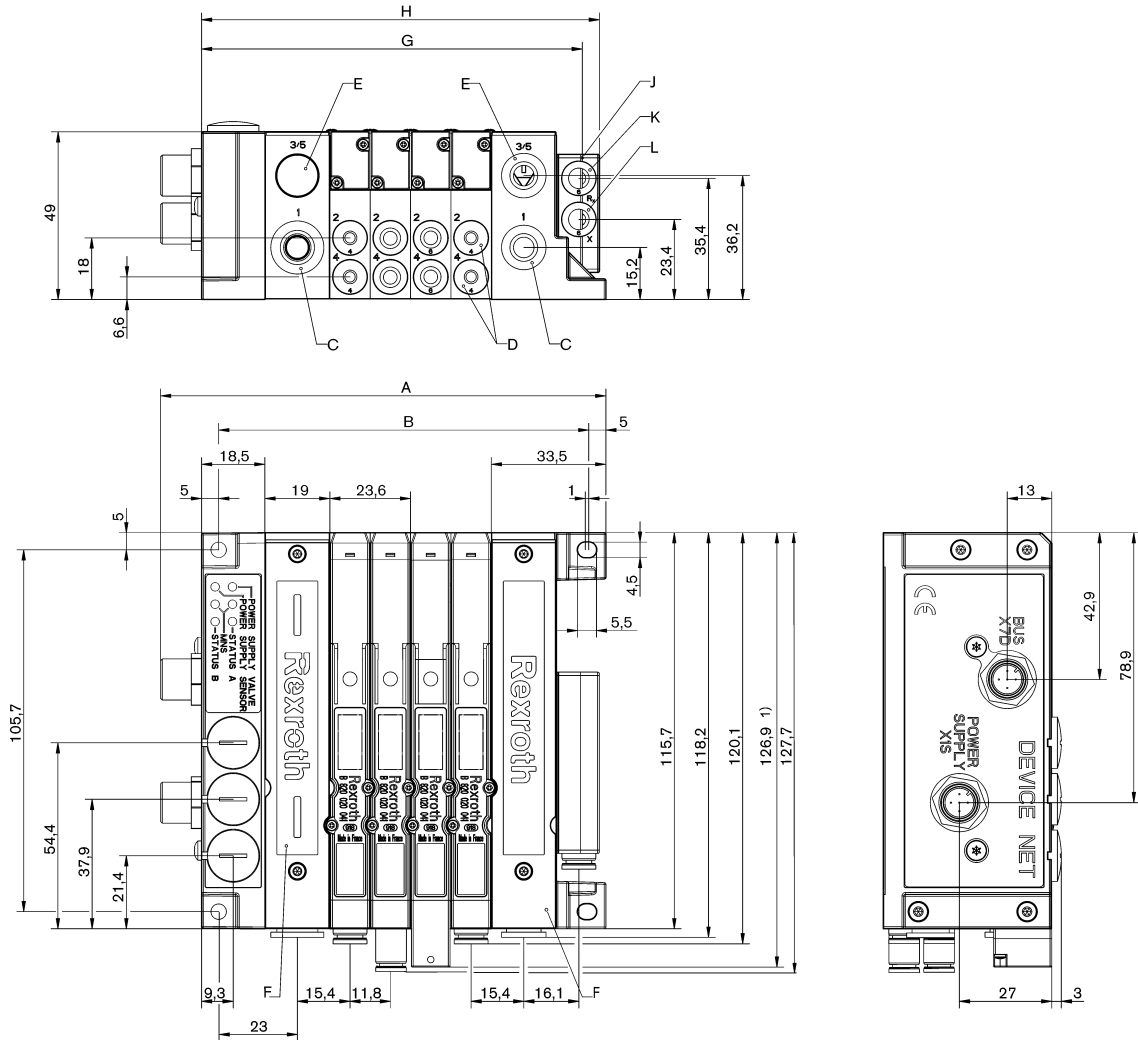
Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; direct field bus connection; Integrated field bus

Dimensions, DeviceNet



00120490

A = 83 + number of subbases x 11.8

B = 61 + number of subbases x 11.8

C = connection port 1: 8 mm (5/16") or push-in fitting 3/8"

D = connection ports 2 and 4: 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

E = connection port 3/5: 8 mm (5/16"), push-in fitting 3/8" or plugged (integrated silencer)

F = option: integrated silencer or collected exhaust

G = 64.1 + number of subbases x 11.8 (internal air supply and integrated silencer)

H = 69.1 + number of subbases x 11.8 (external air supply and/or collected exhaust)

J = option: external pilot air supply, plugged with internal pilot air supply

K = connection port Rx (collected exhaust): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

L = connection port X (external pilot air supply): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"

1) Dimensions for 5/3-way valve only

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

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; field bus connection with diagnosis; ATEX optional



PLP04_502

Certificates	CE declaration of conformity
Version	field bus
Blocking principle	Double base plate principle
Working pressure min./max.	-0.95 bar / 10 bar
Control pressure min./max.	3 bar / 8 bar
Ambient temperature min./max.	+0 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529:, with plug	IP 65
Number of valve positions	16
Number of solenoid coils	32
Operational voltage electronics	24 V DC
Electronics voltage tolerance	-10% / +10%

Note: "ATEX" option can be selected in the configurator or contact your nearest Bosch Rexroth sales center.

ATEX valve terminal systems may only be combined with ATEX valves.

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 air pressure 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 for individual components.

Configurable product



This product is configurable. Please use our configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

★ Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

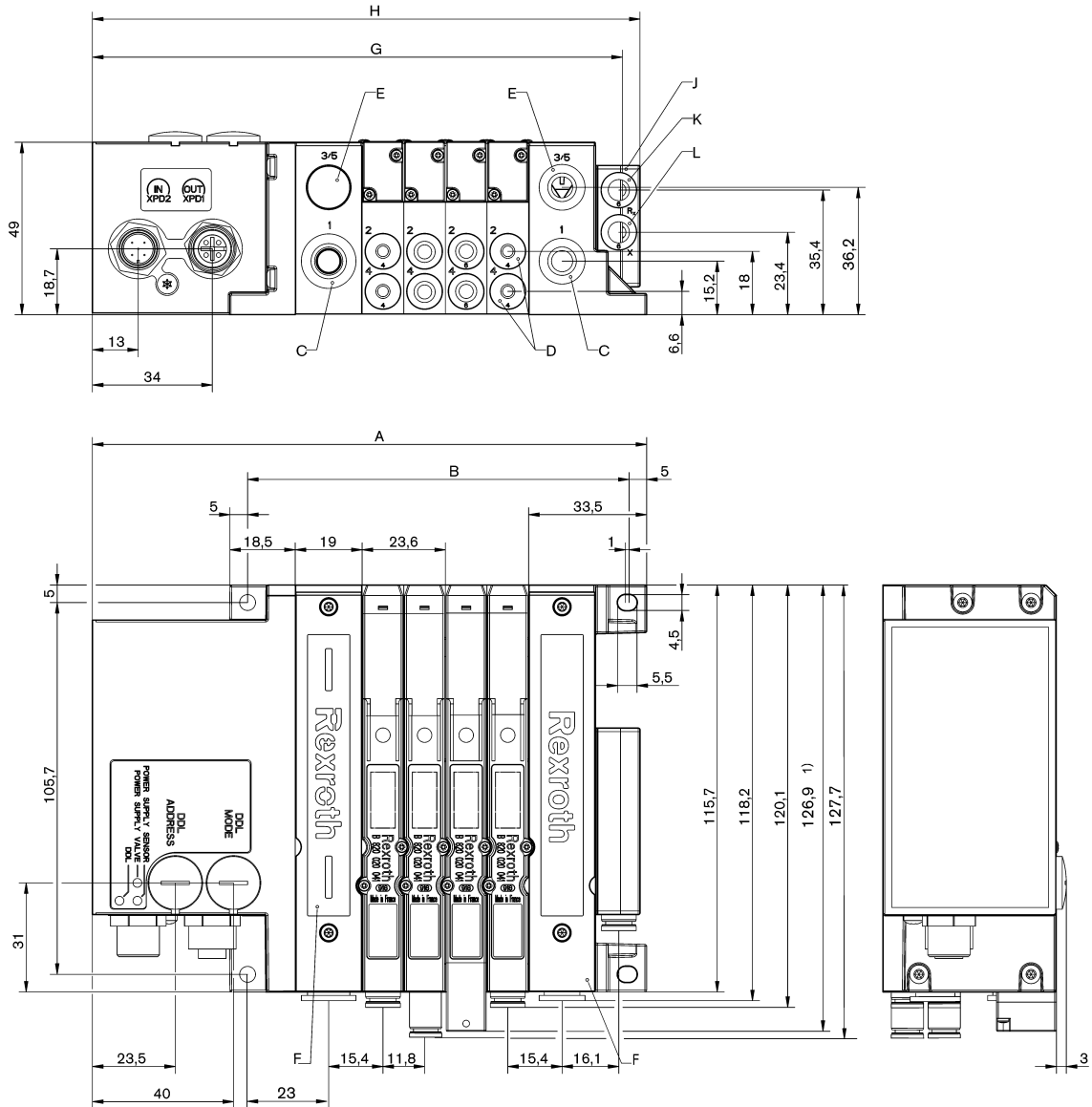
Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; field bus connection with diagnosis; ATEX optional

Dimensions, no digital inputs



00120489

- A = 110 + number of subbases x 11.8
- B = 61 + number of subbases x 11.8
- C = connection port 1: 8 mm (5/16") or push-in fitting 3/8"
- D = connection ports 2 and 4: 4 mm, 6 mm, push-in fitting 1/8" or 1/4"
- E = connection port 3/5: 8 mm (5/16"), push-in fitting 3/8" or plugged (integrated silencer)
- F = option: integrated silencer or collected exhaust
- G = 103.1 + number of subbases x 11.8 (internal air supply and integrated silencer)
- H = 108.1 + number of subbases x 11.8 (external air supply and/or collected exhaust)
- J = option: external pilot air supply, plugged with internal pilot air supply
- K = connection port Rx (collected exhaust): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"
- L = connection port X (external pilot air supply): 4 mm, 6 mm, push-in fitting 1/8" or 1/4"
- 1) Dimensions for 5/3-way valve only

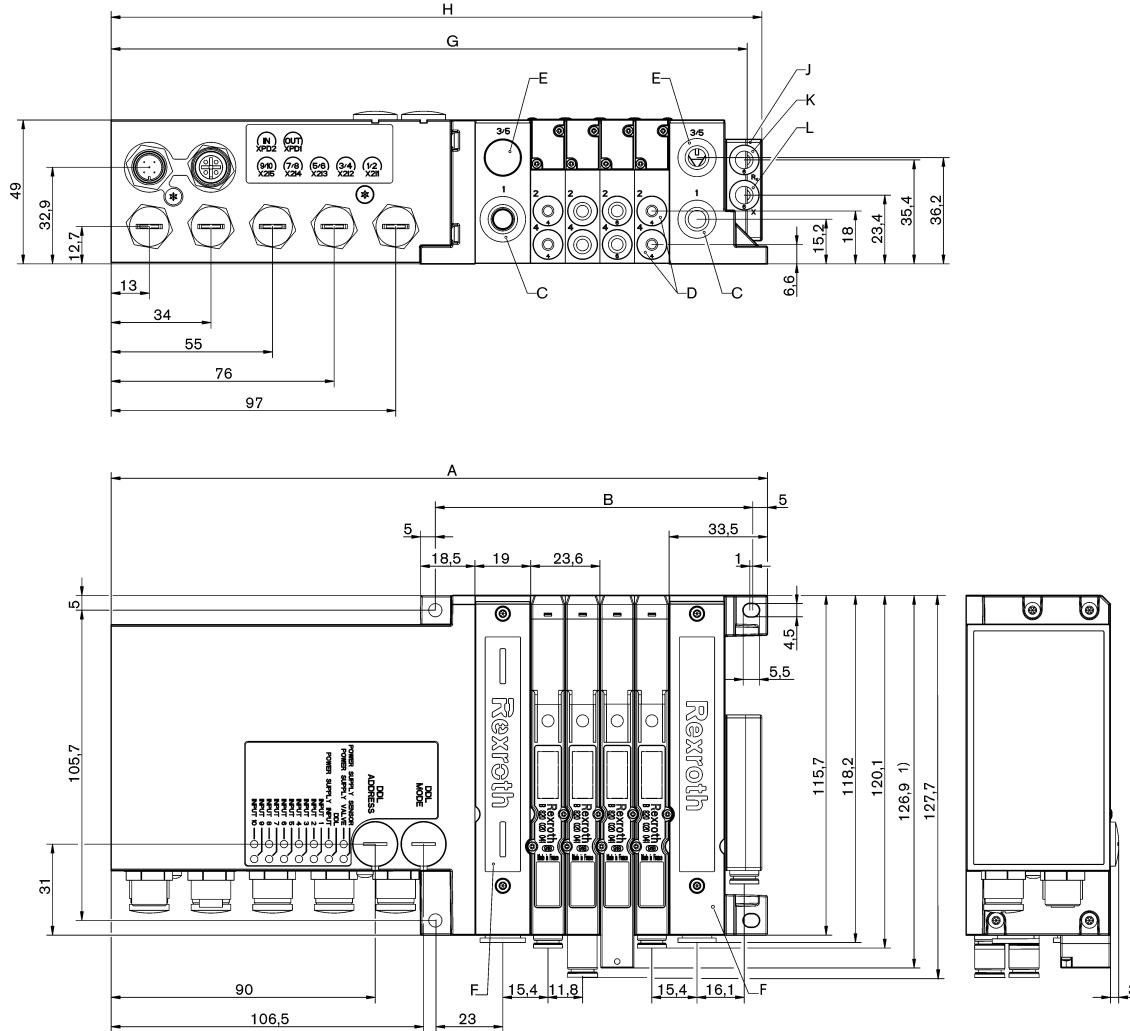
An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Valve terminal systems → Valve terminal systems

★ Valve terminal system, Series LP04

Qn max. = 350 l/min; field bus connection with diagnosis; ATEX optional

Dimensions, with 10 digital inputs



00120488

A = 176.5 + number of subbases x 11.8

B = 61 + number of subbases x 11.8

C = connection port 1: 8 mm (5/16") or 3/8"

D = connection ports 2 and 4: 4 mm, 6 mm, 1/8" or 1/4"

E = connection port 3/5: 8 mm (5/16"), 3/8" or plugged (integrated silencer)

F = option: integrated silencer or collected exhaust

G = 169.6 + number of subbases x 11.8 (internal air supply and integrated silencer)

H = 174.6 + number of subbases x 11.8 (external air supply and/or collected exhaust)

J = option: external pilot air supply, plugged with internal pilot air supply

K = connection port Rx (collected exhaust): 4 mm, 6 mm, 1/8" or 1/4"

L = connection port X (external pilot air supply): 4 mm, 6 mm, 1/8" or 1/4"

1) Dimensions for 5/3-way valve only

2) Dimensions for 1/4" fittings only

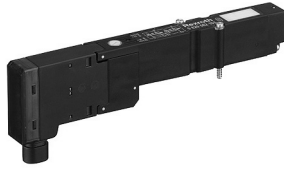
3) Dimensions for 3/8" fittings only

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

Valve terminal systems → Valve terminal systems

★ 2x3/2-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: with detent



00116345

Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	20 ms
Switch-off time	20 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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

Technical Remarks

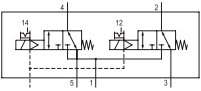

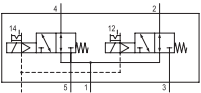

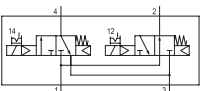

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

Valve terminal systems → Valve terminal systems

★ 2x3/2-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: with detent

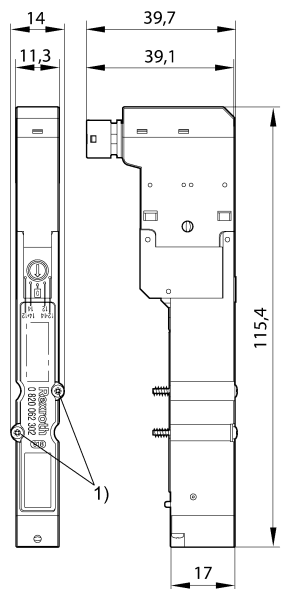
		MO	Operating voltage	Flow rate value	Control pressure min./max.	Weight	Part No.
			DC	Qn			
				[l/min]	[bar]	[kg]	
	NC/NC		24 V	400	2.5 / 8	0.048	0820062101
	NO/NO		24 V	400	2.5 / 8	0.048	0820062201
	NC/NO		24 V	400	2.5 / 8	0.048	0820062301

MO = Manual override

With collective pilot air exhaust

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

Dimensions



00115993

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

★ Core products - preferably for new constructions, worldwide service

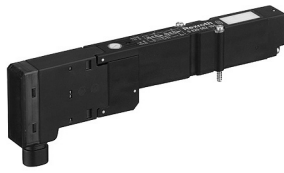
● Service products - existing standard program, worldwide service

Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ 2x3/2-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: without detent



00116345

Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	20 ms
Switch-off time	20 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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

Technical Remarks

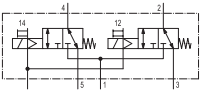

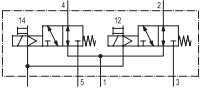

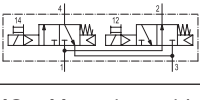

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

Valve terminal systems → Valve terminal systems

★ 2x3/2-way valve, Series HF04 and LP04

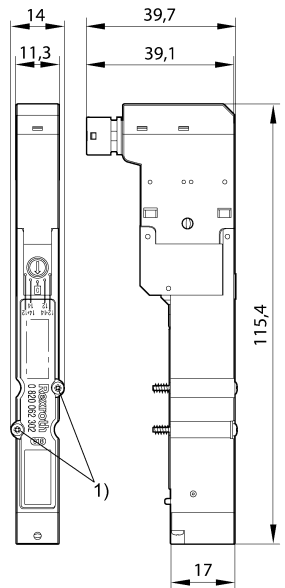
Qn = 400 l/min; plate connection; manual override: without detent

		MO	Operating voltage	Flow rate value	Control pressure min./max.	Weight	Part No.
			DC	Qn			
				[l/min]	[bar]	[kg]	
	NC/NC		24 V	400	2.5 / 8	0.048	0820062102
	NO/NO		24 V	400	2.5 / 8	0.048	0820062202
	NC/NO		24 V	400	2.5 / 8	0.048	0820062302

MO = Manual override

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

Dimensions

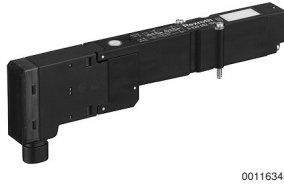


00115993

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 5/2-way valve, Series HF04 and LP04
 Qn = 400 l/min; plate connection; manual override: with detent



00116345

Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

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 air pressure must remain constant during the life cycle.
■	Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Part No.
		DC	Qn					
			[l/min]	[bar]	[ms]	[ms]	[kg]	
		24 V	400	3 / 8	20	20	0.048	0820062051
		24 V	400	2.5 / 8	25	25	0.048	0820062001

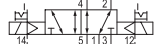

MO = Manual override
 Nominal flow Qn at 6 bar and Δp = 1 bar

★ Core products - preferably for new constructions, worldwide service
 ● Service products - existing standard program, worldwide service
 Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ 5/2-way valve, Series HF04 and LP04

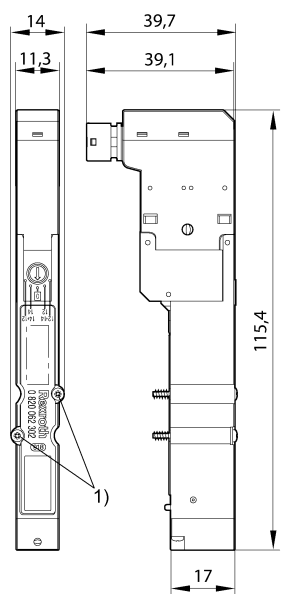
Qn = 400 l/min; plate connection; manual override: with detent

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Part No.
		DC	Qn					
			[l/min]	[bar]	[ms]	[ms]	[kg]	
		24 V	400	2.5 / 8	10	10	0.048	0820062501

MO = Manual override

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

Dimensions

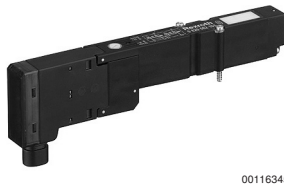


00115993

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 5/2-way valve, Series HF04 and LP04
 Qn = 400 l/min; plate connection; manual override: without detent



00116345

Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
24 V	-10% / +10%	0.35 W

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Part No.
		DC	Qn					
			[l/min]	[bar]	[ms]	[ms]	[kg]	
		24 V	400	3 / 8	20	20	0.048	0820062052

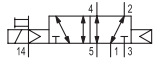



MO = Manual override
 Nominal flow Qn at 6 bar and Δp = 1 bar

★ Core products - preferably for new constructions, worldwide service
 ● Service products - existing standard program, worldwide service
 Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ 5/2-way valve, Series HF04 and LP04

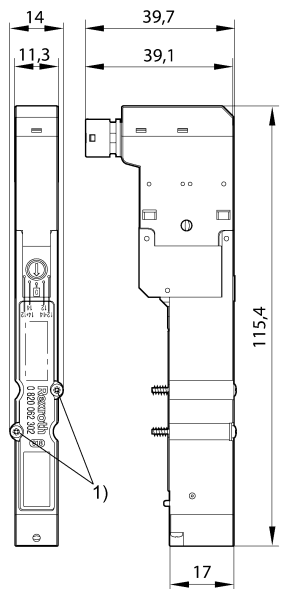
Qn = 400 l/min; plate connection; manual override: without detent

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Part No.
		DC	Qn	[bar]	[ms]	[ms]	[kg]	
			[l/min]					
		24 V	400	2.5 / 8	25	25	0.048	0820062002
		24 V	400	2.5 / 8	10	10	0.048	0820062502

MO = Manual override

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

Dimensions



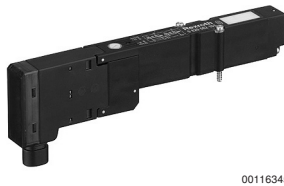
00115993

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 5/3-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: with detent



00116345

Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	25 ms
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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Weight	Part No.
		DC	Qn			
			[l/min]	[bar]	[kg]	
		24 V	400	2.5 / 8	0.048	0820062601

MO = Manual override
Nominal flow Qn at 6 bar and Δp = 1 bar

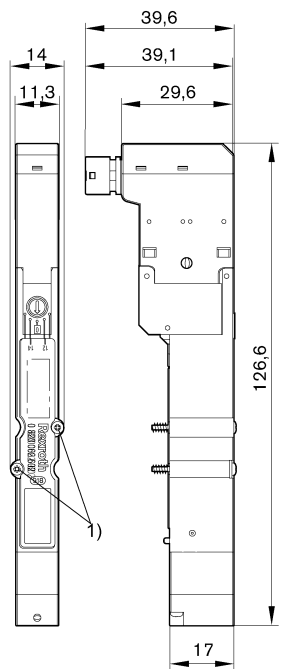
★ Core products - preferably for new constructions, worldwide service
● Service products - existing standard program, worldwide service
Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

* 5/3-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: with detent

Dimensions



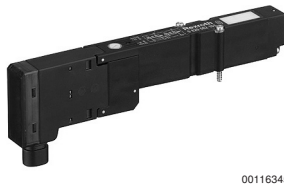
00115992

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 5/3-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: without detent



00116345

Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	25 ms
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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Weight	Part No.
		DC	Qn			
			[l/min]	[bar]	[kg]	
		24 V	400	2.5 / 8	0.048	0820062602

MO = Manual override
Nominal flow Qn at 6 bar and Δp = 1 bar

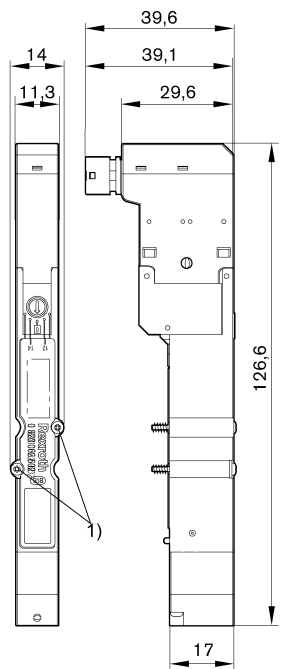
★ Core products - preferably for new constructions, worldwide service
● Service products - existing standard program, worldwide service
Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

* 5/3-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: without detent

Dimensions



00115992

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 2x3/2-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: with detent; ATEX certified



00116345

ATEX	II 3G3D
Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Protection class according to EN 60529: with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	20 ms
Switch-off time	20 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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

Technical Remarks

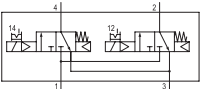

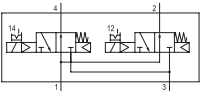

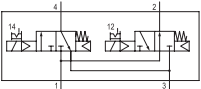

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

Valve terminal systems → Valve terminal systems

★ 2x3/2-way valve, Series HF04 and LP04

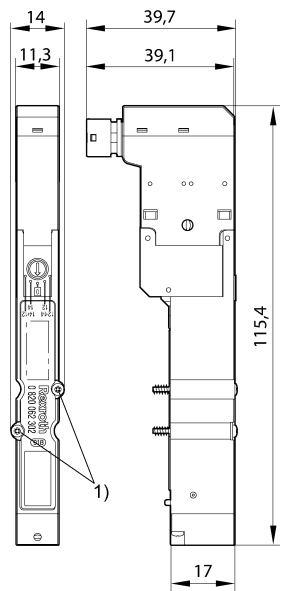
Qn = 400 l/min; plate connection; manual override: with detent; ATEX certified

		MO	Operating voltage	Flow rate value	Control pressure min./max.	Weight	Part No.
			DC	Qn			
				[l/min]	[bar]	[kg]	
	NC/NC		24 V	400	2.5 / 8	0.048	R422000415
	NO/NO		24 V	400	2.5 / 8	0.048	R422000416
	NC/NO		24 V	400	2.5 / 8	0.048	R422000417

MO = Manual override

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

Dimensions



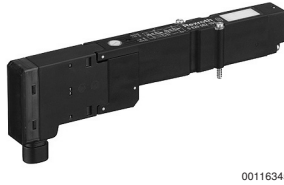
00115993

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 2x3/2-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: without detent; ATEX certified



00116345

ATEX	3G3D
Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Protection class according to EN 60529: with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	20 ms
Switch-off time	20 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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

Technical Remarks

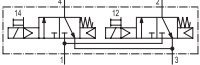

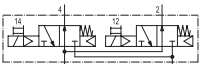

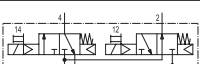

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

Valve terminal systems → Valve terminal systems

★ 2x3/2-way valve, Series HF04 and LP04

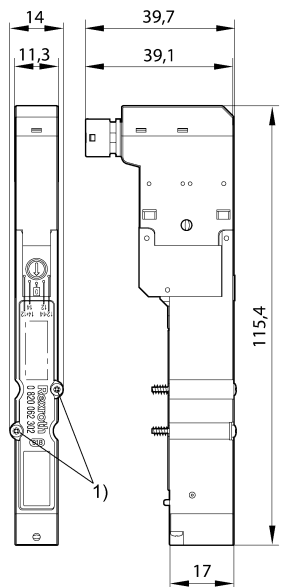
Qn = 400 l/min; plate connection; manual override: without detent; ATEX certified

		MO	Operating voltage	Flow rate value	Control pressure min./max.	Weight	Part No.
			DC	Qn			
				[l/min]	[bar]	[kg]	
	NC/NC		24 V	400	2.5 / 8	0.048	R422000422
	NO/NO		24 V	400	2.5 / 8	0.048	R422000423
	NC/NO		24 V	400	2.5 / 8	0.048	R422000424

MO = Manual override

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

Dimensions



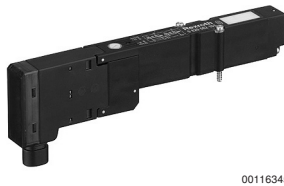
00115993

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 5/2-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: with detent; ATEX certified



00116345

ATEX	II 3G3D
Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Protection class according to EN 60529: with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Part No.
		DC	Qn					
			[l/min]	[bar]	[ms]	[ms]	[kg]	
		24 V	400	2.5 / 8	25	25	0.048	R422000411

MO = Manual override

Nominal flow Qn at 6 bar and Δp = 1 bar

★ Core products - preferably for new constructions, worldwide service
 ● Service products - existing standard program, worldwide service
 Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ 5/2-way valve, Series HF04 and LP04

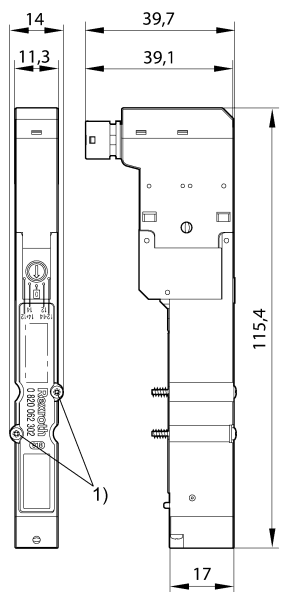
Qn = 400 l/min; plate connection; manual override: with detent; ATEX certified

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Part No.
		DC	Qn	[bar]	[ms]	[ms]	[kg]	
			[l/min]					
		24 V	400	3 / 8	25	20	0.048	R422000412
		24 V	400	2.5 / 8	10	10	0.048	R422000413

MO = Manual override

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

Dimensions



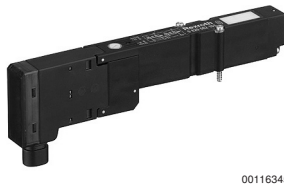
00115993

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 5/2-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: without detent; ATEX certified



ATEX	II 3G3D
Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Protection class according to EN 60529: with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Part No.
		DC	Qn					
			[l/min]	[bar]	[ms]	[ms]	[kg]	
		24 V	400	2.5 / 8	25	25	0.048	R422000418

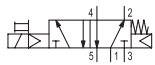

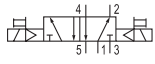

MO = Manual override
Nominal flow Qn at 6 bar and Δp = 1 bar

★ Core products - preferably for new constructions, worldwide service
● Service products - existing standard program, worldwide service
Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ 5/2-way valve, Series HF04 and LP04

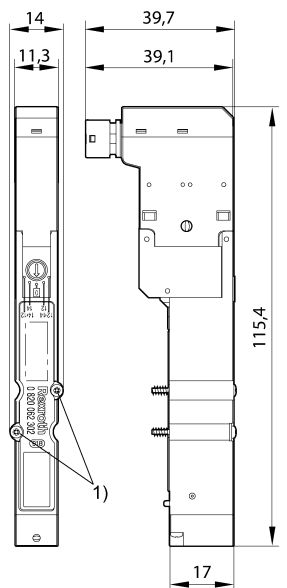
Qn = 400 l/min; plate connection; manual override: without detent; ATEX certified

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Part No.
		DC	Qn					
			[l/min]	[bar]	[ms]	[ms]	[kg]	
		24 V	400	3 / 8	20	20	0.048	R422000419
		24 V	400	2.5 / 8	10	10	0.048	R422000420

MO = Manual override

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

Dimensions



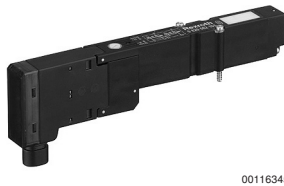
00115993

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 5/3-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: with detent; ATEX certified



ATEX	II 3G3D
Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Protection class according to EN 60529: with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	25 ms
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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

Technical Remarks
<ul style="list-style-type: none"> ■ 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 air pressure must remain constant during the life cycle. ■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Weight	Part No.
		DC	Qn			
			[l/min]	[bar]	[kg]	
		24 V	400	2.5 / 8	0.048	R422000414

MO = Manual override
Nominal flow Qn at 6 bar and Δp = 1 bar

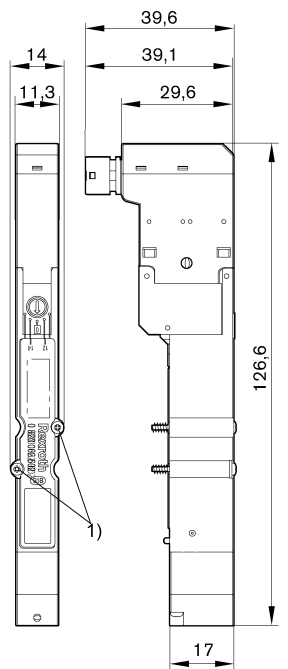
★ Core products - preferably for new constructions, worldwide service
● Service products - existing standard program, worldwide service
Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ 5/3-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: with detent; ATEX certified

Dimensions



00115992

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ 5/3-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: without detent; ATEX certified



ATEX	II 3G3D
Version	Spool valve, zero overlap
Pilot	external
Sealing principle	soft sealing
Blocking principle	Double base plate principle
Working pressure min./max.	-0.9 bar / 8 bar
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Protection class according to EN 60529: with electrical connector/plug	IP 65
Protective circuit	Z-diodes short circuit protected
Status display LED	Yellow
Duty cycle	100 %
Switch-on time	25 ms
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-Z0
mounting screw tightening torque	0.25 Nm
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber; Polyurethane

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 air pressure must remain constant during the life cycle.
■	Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	0.35

	MO	Operating voltage	Flow rate value	Control pressure min./max.	Weight	Part No.
		DC	Qn			
			[l/min]	[bar]	[kg]	
		24 V	400	2.5 / 8	0.048	R422000421

MO = Manual override
Nominal flow Qn at 6 bar and Δp = 1 bar

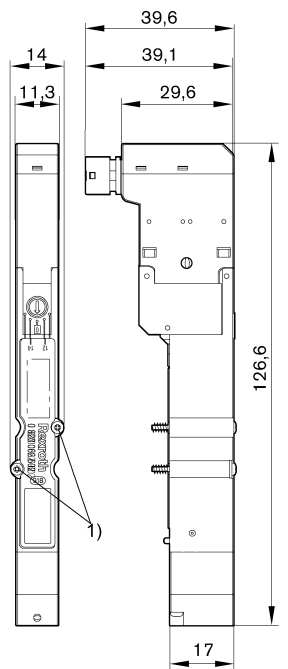
★ Core products - preferably for new constructions, worldwide service
● Service products - existing standard program, worldwide service
Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

* 5/3-way valve, Series HF04 and LP04

Qn = 400 l/min; plate connection; manual override: without detent; ATEX certified

Dimensions



00115992

1) Mounting screw: X-slot DIN EN ISO 4757-Z0
tightening torque for mounting screw [Nm]: 0.25

Valve terminal systems → Valve terminal systems

★ Series LP04
Accessories

★ Multiple plug D-Sub (25-pin)
Socket, D-Sub, 25-pin; with cable



Ambient temperature min./max.
Protection class according to EN 60529
Operating voltage DC max.
Cable exit

-5 °C / +50 °C
IP 65
24 V
straight 180°

Materials:
Housing
Cable sheath

Polyamide
Polyvinyl chloride

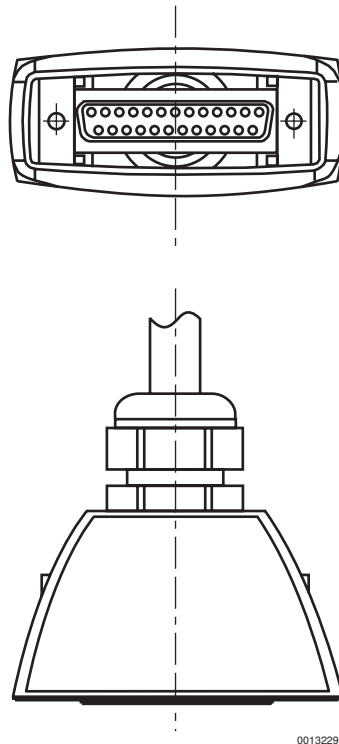
Technical Remarks

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

Cable length	Weight	Note	Part No.
[m]	[kg]		
3	0.462	-	0493859807
10	1.59	- 1)	0493845705 8946203902

1) suitable for dynamic laying

Dimensions



Valve terminal systems → Valve terminal systems

★ Series LP04

Accessories

★ Multiple plug D-Sub (25-pin)

Socket, D-Sub, 25-pin; with cable



00128872

Ambient temperature min./max.	-5 °C / +50 °C
Protection class according to EN 60529	IP 20
Operating voltage DC max.	24 V
Cable exit	angled 90°

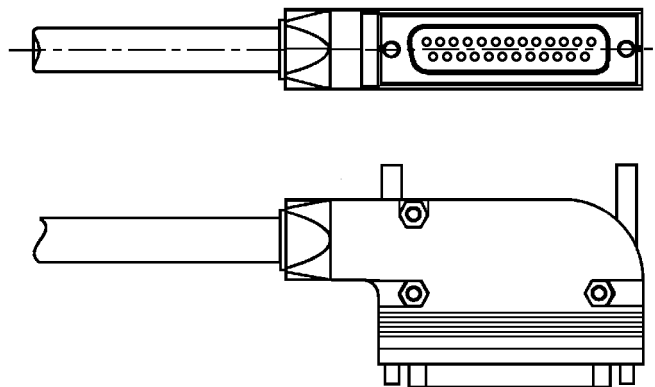
Materials:	
Housing	metal
Cable sheath	Polyvinyl chloride

Technical Remarks

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

Cable length	Weight	Part No.
[m]	[kg]	
3	0.487	R402000782
10	1.411	R402000783

Dimensions



00132298

Valve terminal systems → Valve terminal systems

★ Series LP04
Accessories

★ Pressure regulator subplate, Series HF04 and LP04



Version	Poppet valve
Ambient temperature min./max.	-5 °C / +50 °C
Medium temperature min./max.	+0 °C / +50 °C
Medium	Compressed air
Particle size max.	5 μm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Materials:	
Housing	Polyamide
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks
<ul style="list-style-type: none"> ■ Protection class when mounted: IP65 ■ Please note that HF04 and LP04 series valve terminal systems can only be retrofitted without modifications from 05/2008. Older valve terminal systems do not have the required mounting holes in the subbases.

	Compressed air connection		Working pressure min./max.	Adjustment range min./max.	Weight	Note	Part No.
	Input	Output	[bar]	[bar]	[kg]		
	Special base plate	Special base plate	0.5 / 10	0.5 / 8	0.1	Fig. 1	R412000999
							0.5 / 4
	-	-	-	-	-	1)2)	R412009413

- 1) Pressure gauge 0-1 MPa
- 2) Push-in fitting Ø 4 mm

Valve terminal systems → Valve terminal systems

★ Series LP04
Accessories

Fig. 1

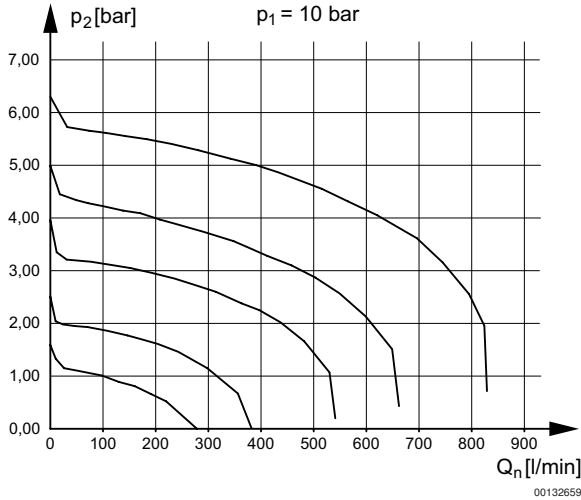
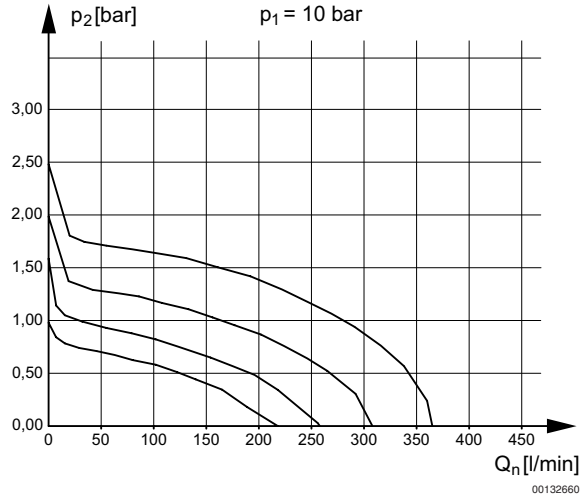


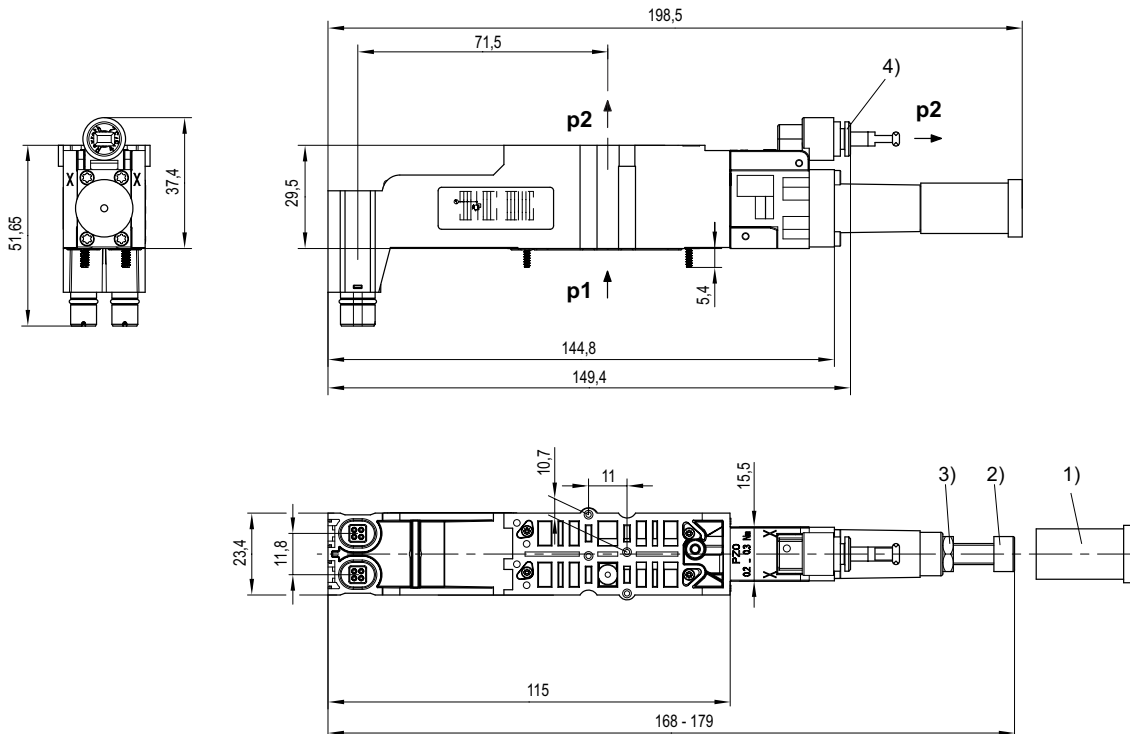
Fig. 2



p1 = working pressure; p2 = secondary pressure; qn = nominal flow

p1 = working pressure; p2 = secondary pressure; qn = nominal flow

Dimensions



1) Locking cap; 2) Regulating screw; 3) Counter nut; 4) Push-in fitting;
p1 = working pressure; p2 = secondary pressure

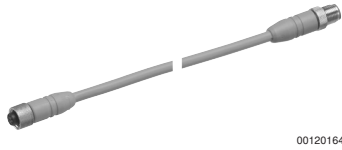
00132658

Valve terminal systems → Valve terminal systems

★ Series LP04
Accessories

★ VDS data cable

Socket, M12x1, 8-pin, A-coded; Plug, M12x1, 8-pin, A-coded



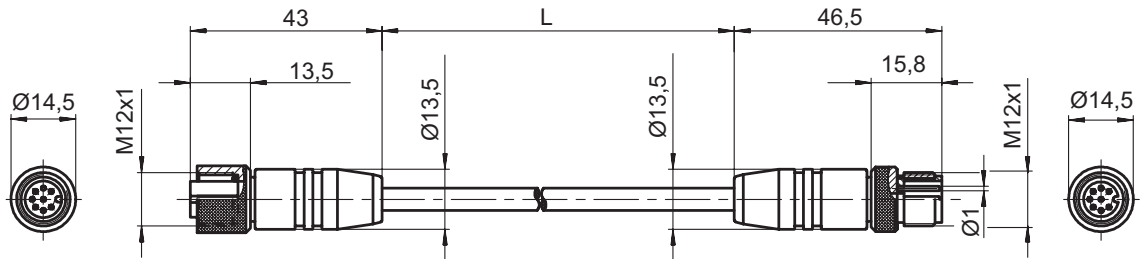
00120164

Ambient temperature min./max. -25°C / +80°C
 Protection class according to EN 60529 IP 67
 Cable exit straight 180°

Materials:
 Housing Polyurethane
 Seals Fluorocautchouc

Number of plug options		Operating voltage		Max. current	Housing color	Cable length	Part No.
[for port 1]	[for port 2]	[V DC]	[V AC]	[A]		[m]	
1 position	1 position	36	30	1.5	Orange	0.5	8946202802
						1	8946202812
						2	8946202822
						5	8946202832
						10	8946202842

Dimensions



00132297

L = length

★ Core products - preferably for new constructions, worldwide service
 ● Service products - existing standard program, worldwide service
 Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

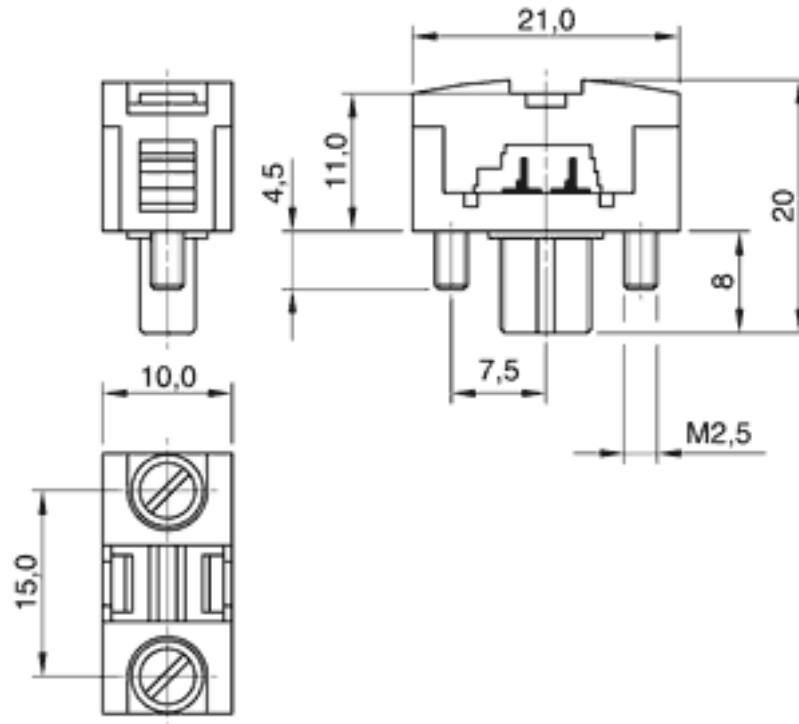
* Series LP04

Accessories

* Cable socket



00120235



00112042

Part No.	Type	Weight [kg]									
1824484064	AS-i cable socket incl. label	0.005									

* Accessories, for Series LP04

Part No.	Type	Material	Weight [kg]	Delivery quantity [pcs]	Note		
R402000485	Intermediate plate for 2 valves for extension from 4 to 6 valve positions, without electronic board	Polyamide	0.053	-	1)		

1) Intermediate plates must always be ordered with screws R402000484 and optionally with a push-in connector $\varnothing 4$, $\varnothing 6$, G1/8, or G1/4. Extensions are only possible in pairs, i.e. by 2 valves per configured valve terminal system. If the maximum of 16 valves has already been configured, no further extension is possible.

Further accessories:

For electrical connectors, contact bridges, plugs and cables, see the Chapter "Valve terminal systems/electrical connectors and accessories."

For connectors, silencers, etc., see the Chapter "Assembly material."

For bus connections, see the Chapter "Control systems".

* Core products - preferably for new constructions, worldwide service

● Service products - existing standard program, worldwide service

Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

★ Series LP04
Accessories

Part No.	Type	Material	Weight [kg]	Delivery quantity [pcs]	Note		
2660201090	Intermediate plate for 2 valves for version "D-Sub connector, 25-pin, top or side, for single solenoid valves"	Polyamide	0.061	-	1)		
2660200090	Intermediate plate for 2 valves for version "D-Sub connector, 25-pin, top or side, for double solenoid valves"	Polyamide	0.062	-	1)		
2660203090	Intermediate plate for 2 valves for extension to BDC link structure	Polyamide	0.064	-	1)		
R402000484	Screws for extension using intermediate plates	-	0.009	-	-		
R402000489	Push-in connector, G 1/4	-	0.018	2	-		
0493872818	Push-in connector, Ø 4 mm	-	0.013	2	-		
0493872907	Push-in connector, Ø 6 mm	-	0.009	2	-		
0493873004	Push-in connector, G 1/8	-	0.1	2	-		
2660200080	Single subbase, without electronic board, only as a spare part	-	-	-	-		
R402000488	Silencers	-	0.016	-	-		
R402000789	Coupling kit for DIN rail mounting	-	-	-	-		
R402002106	Module for internal pilot and integrated silencer	Polyamide	0.1	-	-		
R402002107	Module for internal pilot and for restricted pilot exhaust air, port Rx: Ø 4	Polyamide	0.1	-	-		
R402002108	Module for internal pilot and for restricted pilot exhaust air, port Rx: Ø 6	Polyamide	0.1	-	-		
R402002109	Module for internal pilot and for restricted pilot exhaust air, port Rx: G 1/8	Polyamide	0.1	-	-		
R402002110	Module for internal pilot and for restricted pilot exhaust air, port Rx: G 1/4	Polyamide	0.1	-	-		
R402002111	Module for external pilot and integrated silencer, port X: Ø 4	Polyamide	0.1	-	-		
R402002112	Module for external pilot and integrated silencer, port X: Ø 6	Polyamide	0.1	-	-		
R402002113	Module for external pilot and integrated silencer, port X: G 1/8	Polyamide	0.1	-	-		
R402002114	Module for external pilot and integrated silencer, port X: G 1/4	Polyamide	0.1	-	-		
R402002115	Module for internal pilot and integrated silencer, connection ports X and Rx: Ø 4	Polyamide	0.1	-	-		
R402002116	Module for internal pilot and integrated silencer, ports X and Rx: Ø 6	Polyamide	0.1	-	-		
R402002117	Module for internal pilot and integrated silencer, ports X and Rx: G 1/8	Polyamide	0.1	-	-		
R402002118	Module for internal pilot and integrated silencer, ports X and Rx: G 1/4	Polyamide	0.1	-	-		
1825700104	Blanking plate, incl. sealing kit, 2x mounting screws	-	0.082	-	-		

1) Intermediate plates must always be ordered with screws R402000484 and optionally with a push-in connector Ø4, Ø6, G1/8, or G1/4. Extensions are only possible in pairs, i.e. by 2 valves per configured valve terminal system. If the maximum of 16 valves has already been configured, no further extension is possible.

Further accessories:

For electrical connectors, contact bridges, plugs and cables, see the Chapter "Valve terminal systems/electrical connectors and accessories."

For connectors, silencers, etc., see the Chapter "Assembly material."

For bus connections, see the Chapter "Control systems".

★ Core products - preferably for new constructions, worldwide service
● Service products - existing standard program, worldwide service
Pneumatics catalog, online pdf, as of 2008-11-25, © Bosch Rexroth AG

Valve terminal systems → Valve terminal systems

*** Series LP04**
Accessories

Part No.	Type	Material	Weight [kg]	Delivery quantity [pcs]	Note		
1821039039	Supply plate, incl. sealing kit, 2x mounting screws	-	0.089	-	-		

1) Intermediate plates must always be ordered with screws R402000484 and optionally with a push-in connector Ø4, Ø6, G1/8, or G1/4. Extensions are only possible in pairs, i.e. by 2 valves per configured valve terminal system.

If the maximum of 16 valves has already been configured, no further extension is possible.

Further accessories:

For electrical connectors, contact bridges, plugs and cables, see the Chapter "Valve terminal systems/electrical connectors and accessories."

For connectors, silencers, etc., see the Chapter "Assembly material."

For bus connections, see the Chapter "Control systems".

Bosch Rexroth AG
Pneumatics
Ulmer Straße 4
D - 30880 Laatzen
Phone +49 511 2136-0
Fax +49 511 2136-2 69
sales-pneumatics@boschrexroth.de
www.boschrexroth.com/pneumatics

Your contact:

Canada

Bosch Rexroth Canada Corp.
3426 Mainway Drive
Burlington, Ontario L7M 1A8
Tel. +1 905 335-5511
Fax +1 905 335-4184

Australia

Bosch Rexroth Pty. Ltd.
3 Valediction Road
Kings Park NSW 2148
Sydney
Tel. +61 2 9831-7788
Fax +61 2 9831-5553

U.S.A.

Bosch Rexroth Corp.
1953 Mercer Road
Lexington, KY 40511-1021
Kentucky
Tel. +1 859 254-8031
Fax +1 859 254-4188

Great Britain

Bosch Rexroth Ltd.
Broadway Lane
South Cerney
Cirencester, GL7 5UH
Gloucestershire
Tel. +44 1285 86-3000
Fax +44 1285 86-3003

further contacts:
www.boschrexroth.com/addresses

The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

© This document, as well as the data, specifications and other informations set forth in it, are the exclusive property of Bosch Rexroth AG. Without their consent it may not be reproduced or given to third parties.

Subject to modifications.
Printed in Germany.
Order no.
26-11-2008