

Series L-25

Page 3-02



Series BP-01 and BP-02

Page 3-15



Series L-28

Page 3-04



Series PKX-09 and PKX-10

Page 3-18



Series P-05

Page 3-06



Series P-07

Page 3-09



Series P-12

Page 3-12



# Series L-25

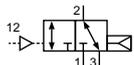
## Technical details

<b>Connection</b>	M5
<b>Nominal size</b>	3,2 mm
<b>Temperature range</b>	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
<b>Medium</b>	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
<b>Materials</b>	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas (chap. 12)

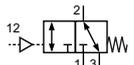


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

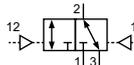
### 3/2-way-valves



L-25-310  
3/2-way, single pilot, air spring return

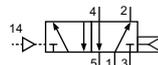


L-25-311  
3/2-way, single pilot, mechanical spring return

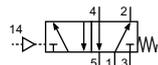


L-25-320  
3/2-way, double pilot

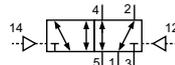
### 5/2-way-valves



L-25-510  
5/2-way, single pilot, air spring return



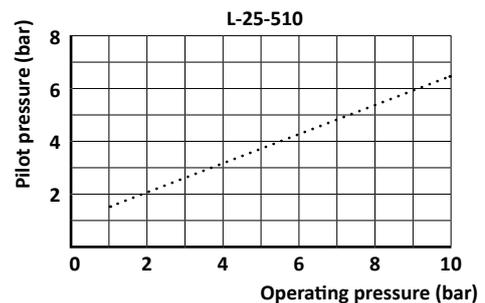
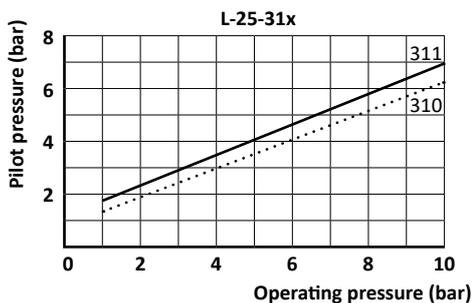
L-25-511  
5/2-way, single pilot, mechanical spring return

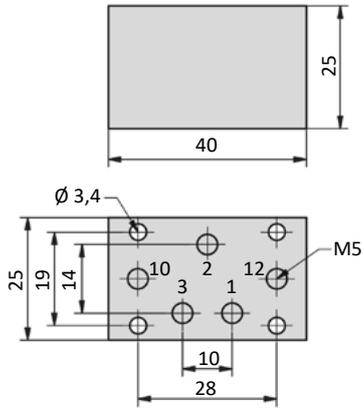
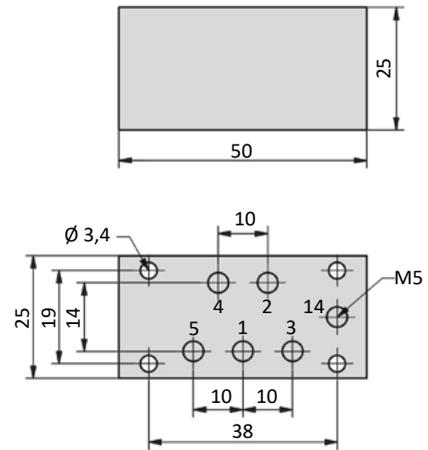
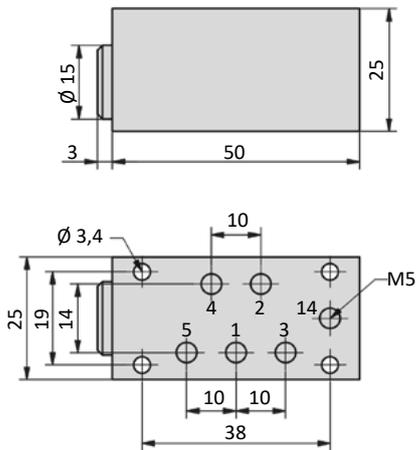
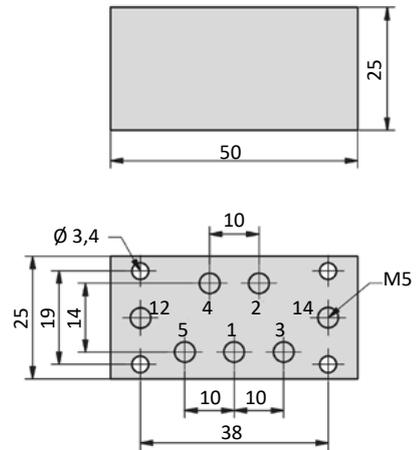


L-25-520  
5/2-way, double pilot

## Technical data

Model-no.:	L-25-310	L-25-311	L-25-320	L-25-510	L-25-511	L-25-520
<b>Operating pressure (bar)</b>	2 ... 10	1 ... 10	0 ... 10	0 ... 10	2 ... 10	0 ... 10
<b>Pilot pressure (bar)</b>	see diagram	see diagram	2 ... 10	see diagram	3 ... 10	2 ... 10
<b>Flow rate (Nl/min)</b>	160	160	160	160	160	160
<b>Weight (kg)</b>	0.065	0.065	0.068	0.084	0.084	0.085



**Dimensions**
**L-25-3xx**

**L-25-510**

**L-25-511**

**L-25-520**


- 1 = pressure inlet
- 2,4 = outlets
- 3,5 = exhausts
- 10,12,14 = pilot ports

# Series L-28



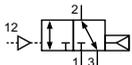
## Technical details

<b>Connection</b>	G1/8
<b>Nominal size</b>	6 mm
<b>Temperature range</b>	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
<b>Medium</b>	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
<b>Materials</b>	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas or versions in accordance with 2014/34/EU (ATEX) available. (chap. 12)

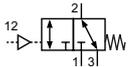


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

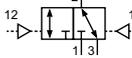
### 3/2-way-valves



**L-28-310**  
3/2-way, single pilot, air spring return

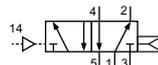


**L-28-311**  
3/2-way, single pilot, mechanical spring return

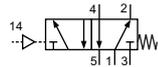


**L-28-320**  
3/2-way, double pilot

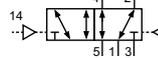
### 5/2-way-valves



**L-28-510**  
5/2-way, single pilot, air spring return



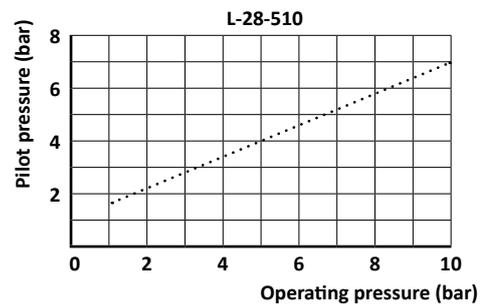
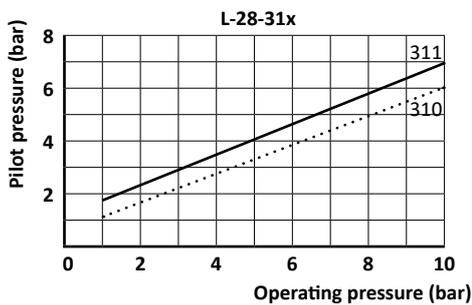
**L-28-511**  
5/2-way, single pilot, mechanical spring return



**L-28-520**  
5/2-way, double pilot

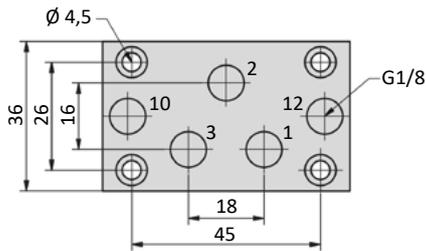
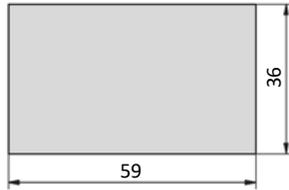
## Technical data

Model-no.:	L-28-310	L-28-311	L-28-320	L-28-510	L-28-511	L-28-520
<b>Operating pressure (bar)</b>	2 ... 10	1 ... 10	0 ... 10	0 ... 10	2 ... 10	0 ... 10
<b>Pilot pressure (bar)</b>	see diagram	see diagram	2 ... 10	see diagram	3 ... 10	2 ... 10
<b>Flow rate (NI/min)</b>	600	600	600	600	600	600
<b>Weight (kg)</b>	0.192	0.192	0.195	0.254	0.254	0.250

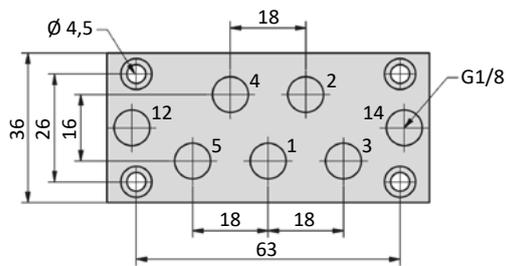


## Dimensions

## L-28-3xx



## L-28-5xx



- 1 = pressure inlet
- 2,4 = outlets
- 3,5 = exhausts
- 10,12,14 = pilot ports

# Series P-05



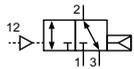
## Technical details

<b>Connection</b>	G1/8
<b>Nominal size</b>	6 mm
<b>Temperature range</b>	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
<b>Medium</b>	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
<b>Materials</b>	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas or versions in accordance with 2014/34/EU (ATEX) available. (chap. 12)

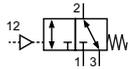


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

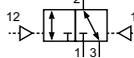
### 3/2-way-valves



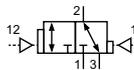
**P-05-310**  
3/2-way, single pilot, air spring return



**P-05-311**  
3/2-way, single pilot, mechanical spring return

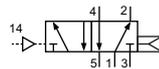


**P-05-320**  
3/2-way, double pilot

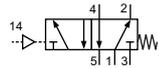


**P-05-322**  
3/2-way, double pilot, one side dominant

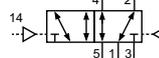
### 5/2- and 5/3-way-valves



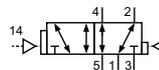
**P-05-510**  
5/2-way, single pilot, air spring return



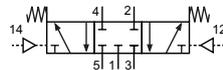
**P-05-511**  
5/2-way, single pilot, mechanical spring return



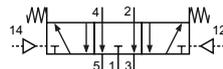
**P-05-520**  
5/2-way, double pilot



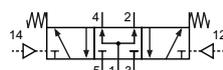
**P-05-522**  
5/2-way, double pilot, one side dominant



**P-05-530**  
5/3-way, center position closed



**P-05-533**  
5/3-way, center position exhausted

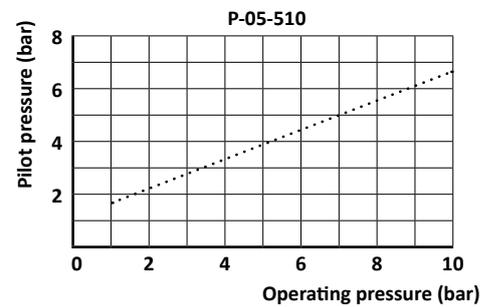
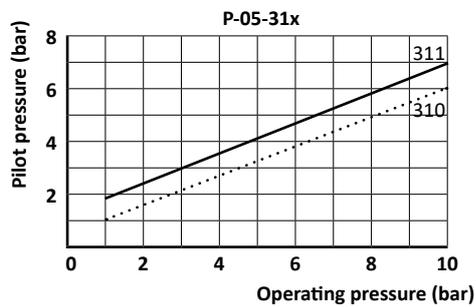


**P-05-534**  
5/3-way, center position pressurized

**Technical data**

Model-no.:	P-05-310	P-05-311	P-05-320	P-05-322
Operating pressure (bar)	2 ... 10	1 ... 10	0 ... 10	0 ... 10
Pilot pressure (bar)	see diagram	see diagram	2 ... 10	2 ... 10
Flow rate (NI/min)	750	750	750	750
Weight (kg)	0.156	0.158	0.195	0.2

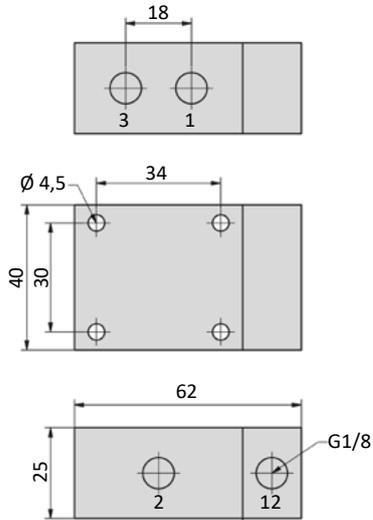
Model-no.:	P-05-510	P-05-511	P-05-520	P-05-522	P-05-530	P-05-533	P-05-534
Operating pressure (bar)	2 ... 10	0 ... 10	0 ... 10	0 ... 10	0 ... 8	0 ... 8	0 ... 8
Pilot pressure (bar)	see diagram	3 ... 10	2 ... 10	2 ... 10	3 ... 8	3 ... 8	3 ... 8
Flow rate (NI/min)	750	750	750	750	650	650	650
Weight (kg)	0.200	0.205	0.245	0.245	0.245	0.245	0.245



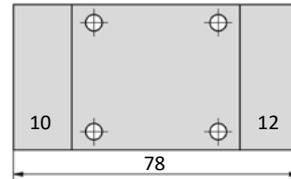
## Series P-05

### Dimensions

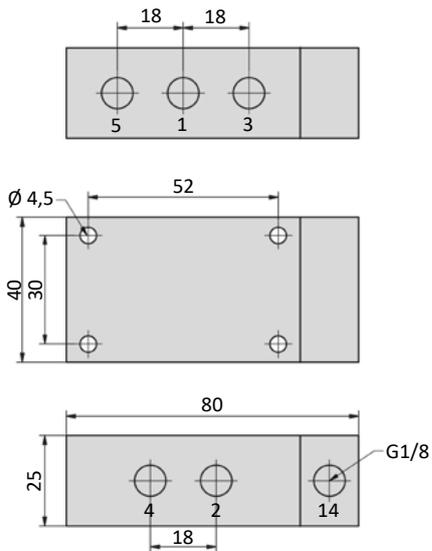
#### P-05-31x



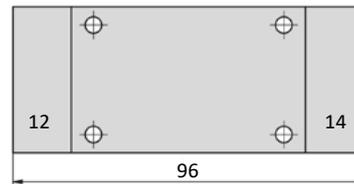
#### P-05-32x



#### P-05-51x



#### P-05-52x, P-05-53x



- 1 = pressure inlet
  - 2,4 = outlets
  - 3,5 = exhausts
  - 10,12,14 = pilot ports
- Pilot ports can be repositioned by 180°.

### Accessories



Manifolds: page 4-16

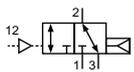
## Technical details

<b>Connection</b>	G1/4
<b>Nominal size</b>	9 mm
<b>Temperature range</b>	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
<b>Medium</b>	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
<b>Materials</b>	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas or versions in accordance with 2014/34/EU (ATEX) available. (chap. 12)

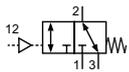


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

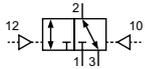
## 3/2-way-valves



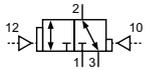
P-07-310  
3/2-way, single pilot, air spring return



P-07-311  
3/2-way, single pilot, mechanical spring return

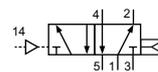


P-07-320  
3/2-way, double pilot

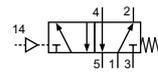


P-07-322  
3/2-way, double pilot, one side dominant

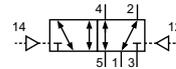
## 5/2- and 5/3-way-valves



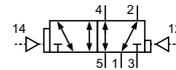
P-07-510  
5/2-way, single pilot, air spring return



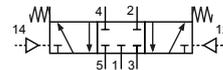
P-07-511  
5/2-way, single pilot, mechanical spring return



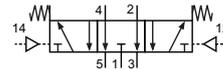
P-07-520  
5/2-way, double pilot



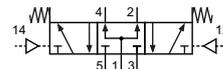
P-07-522  
5/2-way, double pilot, one side dominant



P-07-530  
5/3-way, center position closed



P-07-533  
5/3-way, center position exhausted



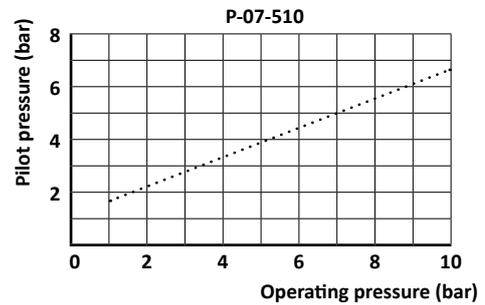
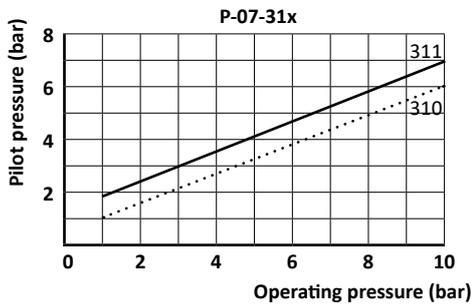
P-07-534  
5/3-way, center position pressurized

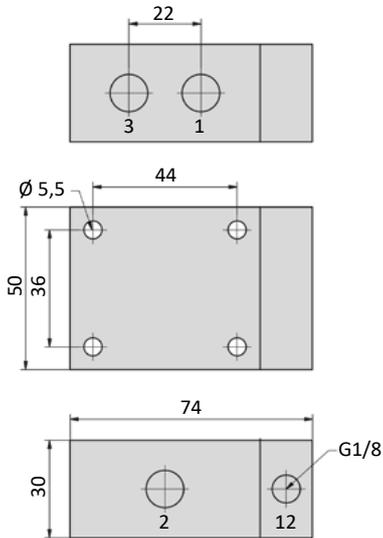
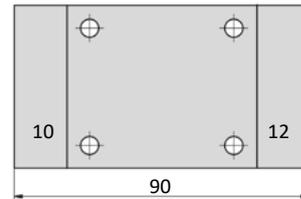
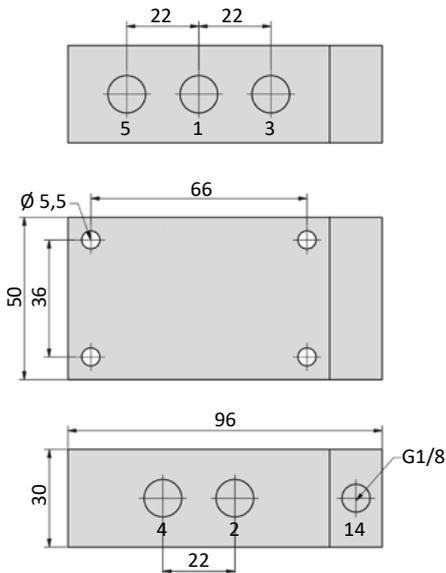
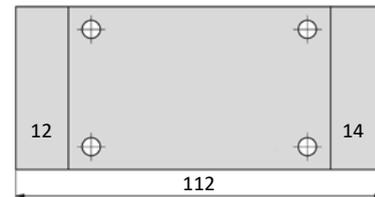
## Series P-07

### Technical data

Model-no.:	P-07-310	P-07-311	P-07-320	P-07-322
Operating pressure (bar)	1,5 ... 10	1 ... 10	0 ... 10	0 ... 10
Pilot pressure (bar)	see diagram	see diagram	1,5 ... 10	1,5 ... 10
Flow rate (NI/min)	1580	1580	1580	1580
Weight (kg)	0.278	0.281	0.350	0.350

Model-no.:	P-07-510	P-07-511	P-07-520	P-07-522	P-07-530	P-07-533	P-07-534
Operating pressure (bar)	1,5 ... 10	0 ... 10	0 ... 10	0 ... 10	0 ... 8	0 ... 8	0 ... 8
Pilot pressure (bar)	see diagram	3 ... 10	1,5 ... 10	1,5 ... 10	3 ... 8	3 ... 8	3 ... 8
Flow rate (NI/min)	1580	1580	1580	1580	1300	1300	1300
Weight (kg)	0.355	0.360	0.420	0.420	0.420	0.420	0.420



**Dimensions**
**P-07-31x**

**P-07-32x**

**P-07-51x**

**P-07-52x, P-07-53x**


- 1 = pressure inlet
  - 2,4 = outlets
  - 3,5 = exhausts
  - 10,12,14 = pilot ports
- Pilot ports can be repositioned by 180°.

**Accessories**


Manifolds: page 4-22

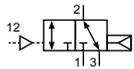
Technical details

<b>Connection</b>	G1/2
<b>Nominal size</b>	14 mm
<b>Temperature range</b>	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
<b>Medium</b>	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
<b>Materials</b>	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas or versions in accordance with 2014/34/EU (ATEX) available. (chap. 12)

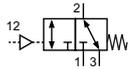


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

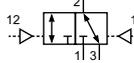
3/2-way-valves



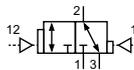
P-12-310  
3/2-way, single pilot, air spring return



P-12-311  
3/2-way, single pilot, mechanical spring return

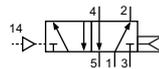


P-12-320  
3/2-way, double pilot

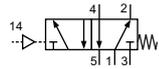


P-12-322  
3/2-way, double pilot, one side dominant

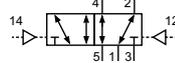
5/2- and 5/3-way-valves



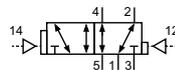
P-12-510  
5/2-way, single pilot, air spring return



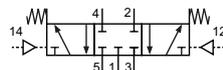
P-12-511  
5/2-way, single pilot, mechanical spring return



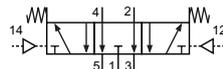
P-12-520  
5/2-way, double pilot



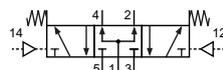
P-12-522  
5/2-way, double pilot, one side dominant



P-12-530  
5/3-way, center position closed



P-12-533  
5/3-way, center position exhausted

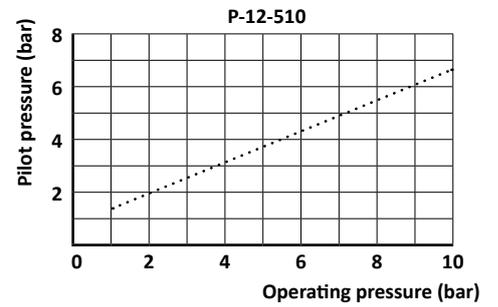
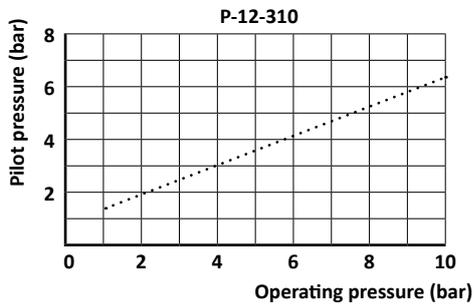


P-12-534  
5/3-way, center position pressurized

**Technical data**

Model-no.:	P-12-310	P-12-311	P-12-320	P-12-322
Operating pressure (bar)	1 ... 10	0 ... 10	0 ... 10	0 ... 10
Pilot pressure (bar)	see diagram	2 ... 10	1 ... 10	1 ... 10
Flow rate (NI/min)	3300	3300	3300	3300
Weight (kg)	0.820	0.830	0.855	0.855

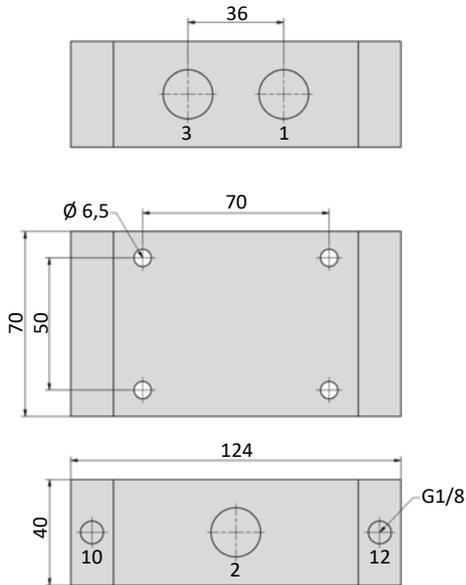
Model-no.:	P-12-510	P-12-511	P-12-520	P-12-522	P-12-530	P-12-533	P-12-534
Operating pressure (bar)	1 ... 10	0 ... 10	0 ... 10	0 ... 10	0 ... 10	0 ... 10	0 ... 10
Pilot pressure (bar)	n. Diagramm	2 ... 10	1 ... 10	1 ... 10	3 ... 10	3 ... 10	3 ... 10
Flow rate (NI/min)	3300	3300	3300	3300	3300	3300	3300
Weight (kg)	1.065	1.065	1.080	1.080	1.080	1.080	1.080



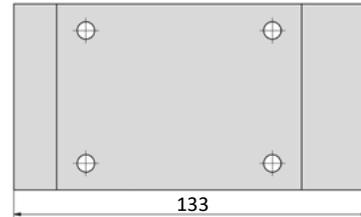
## Series P-12

### Dimensions

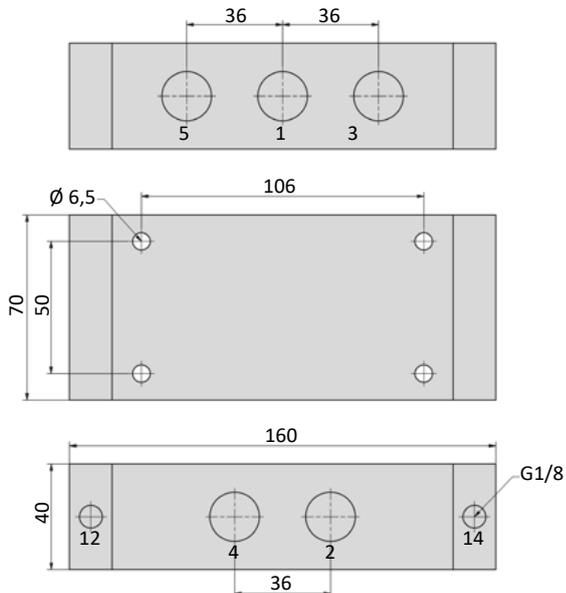
#### P-12-31x, P-12-320



#### P-12-322



#### P-12-51x, P-12-520, P-12-53x



#### P-12-522



- 1 = pressure inlet
  - 2,4 = outlets
  - 3,5 = exhausts
  - 10,12,14 = pilot ports
- Pilot ports can be repositioned by 180°.

**Technical details**

<b>Connection</b>	BP-01: G1/8 BP-02: G1/4
<b>Nominal size</b>	BP-01: 5 mm BP-02: 7 mm
<b>Temperature range</b>	BP-01: -10°C ... +70°C BP-02: -30°C ... +70°C
<b>Medium</b>	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
<b>Materials</b>	Body: Al (anodized), plastic, seals: NBR, PU, inner parts: Al, brass, plastic



Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

**3/2- and 5/2-way-valves**

	BP-01-310 BP-02-310 3/2-way, single pilot, air spring return, NC
	BP-01-312 BP-02-312 3/2-way, single pilot, air spring return, NO
	BP-01-510 BP-02-510 5/2-way, single pilot, air spring return
	BP-01-511 BP-02-511 5/2-way, single pilot, mechanical spring return
	BP-01-520 BP-02-520 5/2-way, double pilot

**5/3-way-valves**

	BP-01-530 BP-02-530 5/3-way, center position closed
	BP-01-533 BP-02-533 5/3-way, center position exhausted
	BP-01-534 BP-02-534 5/3-way, center position pressurized

**Technical data**

Model-no.:	BP-01-310	BP-01-312	BP-02-310	BP-02-312
<b>Operating pressure (bar)</b>	2 ... 8	2 ... 8	2 ... 8	2 ... 8
<b>Pilot pressure (bar)</b>	2 ... 8	2 ... 8	2 ... 8	2 ... 8
<b>Flow rate (NI/min)</b>	660	600	1090	920
<b>Weight (kg)</b>	0.065	0.066	0.125	0.125

Model-no.:	BP-01-510	BP-01-511	BP-01-520	BP-01-530	BP-01-533	BP-01-534
<b>Operating pressure (bar)</b>	2 ... 8	-0.95 ... 8	-0.95 ... 8	-0.95 ... 8	-0.95 ... 8	-0.95 ... 8
<b>Pilot pressure (bar)</b>	2 ... 8	3 ... 8	2 ... 8	3 ... 8	3 ... 8	3 ... 8
<b>Flow rate (NI/min)</b>	780	800	790	690	670	1030
<b>Weight (kg)</b>	0.090	0.092	0.102	0.100	0.100	0.100

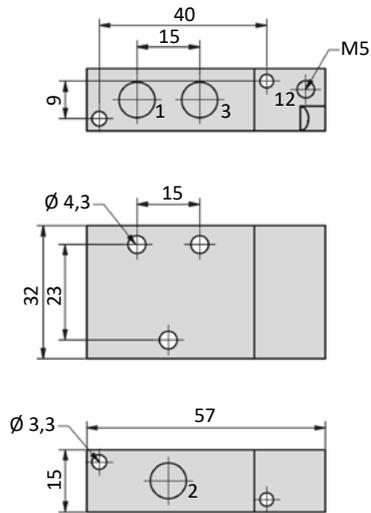
  

Model-no.:	BP-02-510	BP-02-511	BP-02-520	BP-02-530	BP-02-533	BP-02-534
<b>Operating pressure (bar)</b>	2 ... 8	-0.95 ... 8	-0.95 ... 8	-0.95 ... 8	-0.95 ... 8	-0.95 ... 8
<b>Pilot pressure (bar)</b>	2 ... 8	3 ... 8	2 ... 8	3 ... 8	3 ... 8	3 ... 8
<b>Flow rate (NI/min)</b>	1700	1600	1540	1300	1470	1660
<b>Weight (kg)</b>	0.185	0.185	0.210	0.202	0.202	0.202

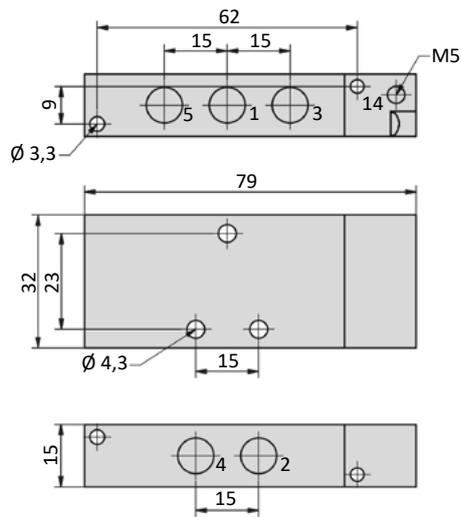
## Series BP-01 and BP-02

### Dimensions

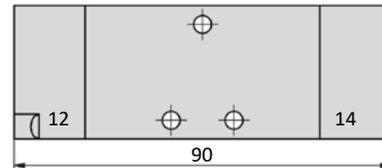
#### BP-01-31x



#### BP-01-51x



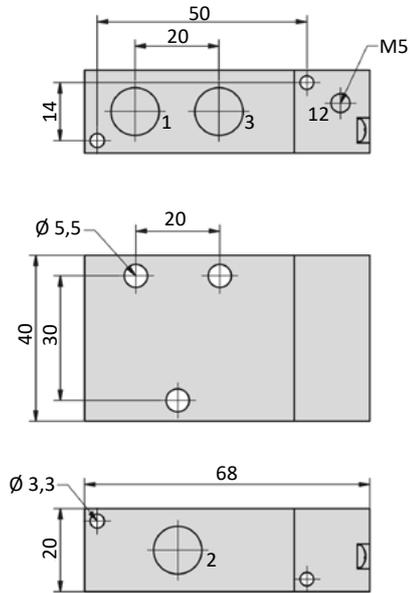
#### BP-01-520, BP-01-53x



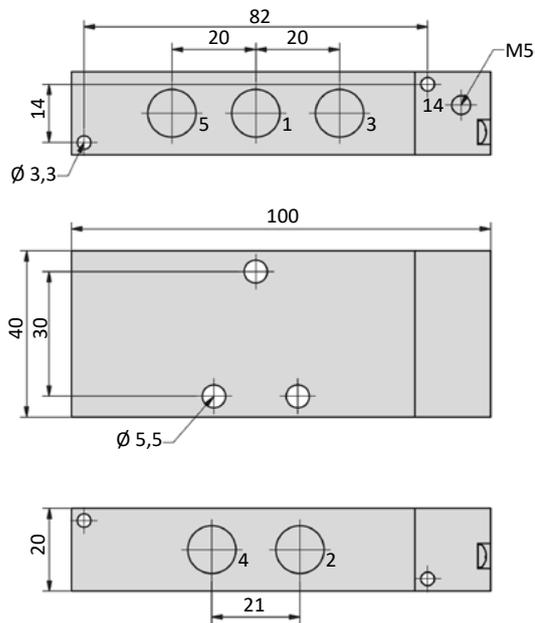
- 1 = pressure inlet
- 2,4 = outlets
- 3,5 = exhausts
- 10,12 = pilot ports

Dimensions

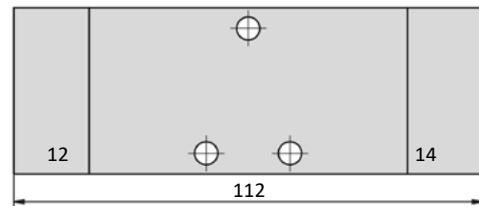
BP-02-31x



BP-02-51x



BP-02-520, BP-02-53x



- 1 = pressure inlet
- 2,4 = outlets
- 3,5 = exhausts
- 12,14 = pilot ports

## Series PKX-09 and PKX-10



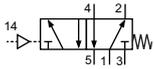
### Technical details

<b>Connection</b>	PKX-09: G1/8 PKX-10: G1/4
<b>Nominal size</b>	PKX-09: 6 mm PKX-10: 9 mm
<b>Temperature range</b>	-30°C ... +80°C
<b>Medium</b>	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
<b>Materials</b>	Body: stainless steel 1.4571, seals: FKM and PU, inner parts: stainless steel 1.4305
<b>Protection</b>	IP 65 according to EN 60529
	Valves in accordance with 2014/34/EU (ATEX) available (chap. 12)

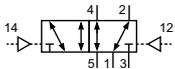


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

### 5/2-way-valves

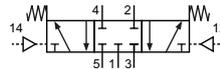


PKX-09-511  
PKX-10-511  
5/2-way, single pilot, mechanical spring return



PKX-09-520  
PKX-10-520  
5/2-way, double pilot

### 5/3-way-Ventil



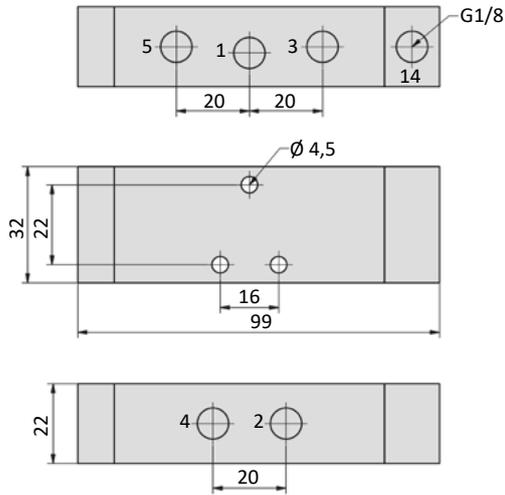
PKX-10-530  
5/3-way, center position closed

### Technical data

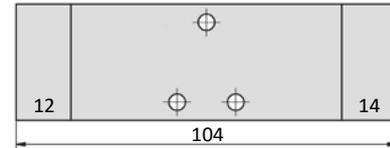
Model-no.:	PKX-09-511	PKX-09-520	PKX-10-511	PKX-10-520	PKX-10-530
<b>Operating pressure (bar)</b>	3 ... 8	3 ... 8	3 ... 8	3 ... 8	3 ... 8
<b>Pilot pressure (bar)</b>	3 ... 8	3 ... 8	3 ... 8	3 ... 8	3 ... 8
<b>Flow rate (NI/min)</b>	1080	1110	1980	1920	1770
<b>Weight (kg)</b>	0.450	0.460	1.120	1.170	1.160

**Dimensions**

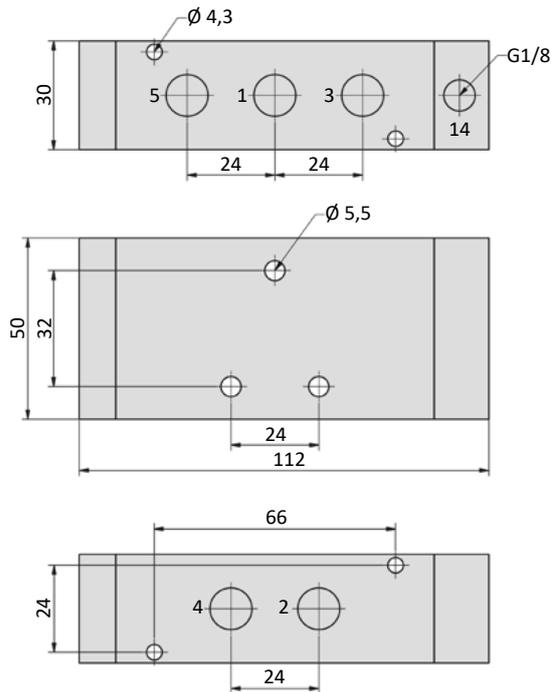
**PKX-09-511**



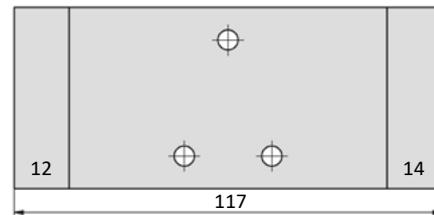
**PKX-09-520**



**PKX-10-511**



**PKX-10-520, PKX-10-530**



- 1 = pressure inlet
  - 2,4 = outlets
  - 3,5 = exhausts
  - 12,14 = pilot ports
- Pilot ports can be repositioned by 180°.

