

Table of contents

Series L-25

Page 3-02



Series BP-01 and BP-02

Page 3-12



Series L-28

Page 3-04



Series P-05

Page 3-06



Series P-07

Page 3-08



Series P-12

Page 3-10



Series L-25

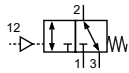
Technical details

Connection	M5
Nominal size	3.2 mm
Temperature range	-10°C ... +70°C
Medium	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.
Materials	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)

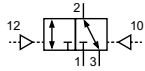


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

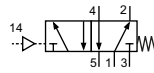
3/2-way valves



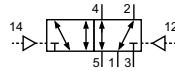
L-25-311
3/2-way, single pilot, mechanical spring return



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



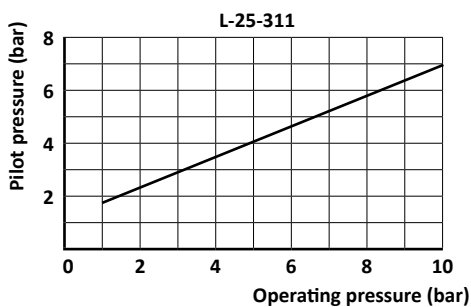
L-25-511
5/2-way, single pilot, mechanical spring return



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

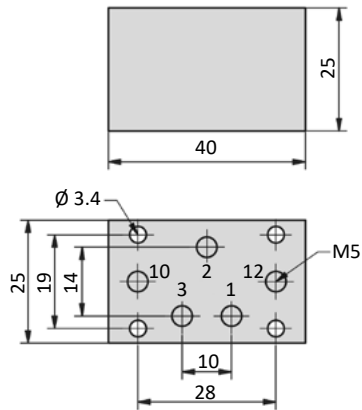
Technical data

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

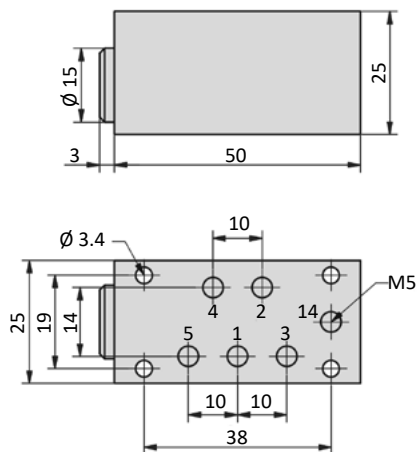


Dimensions

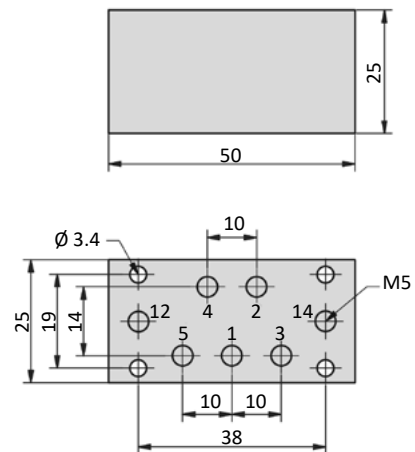
L-25-3xx



L-25-511



L-25-520



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

Series L-28

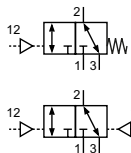
Technical details

Connection	G1/8
Nominal size	6 mm
Temperature range	-10°C ... +70°C
Medium	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.
Materials	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)



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

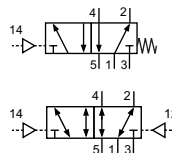
3/2-way valves



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

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

5/2-way valves

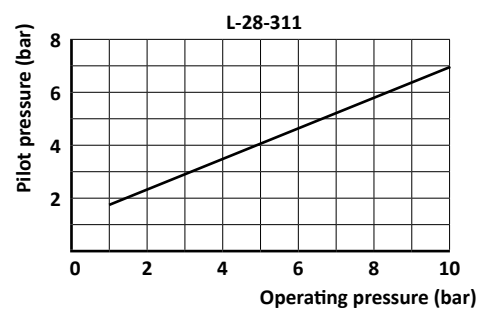


L-28-511
5/2-way, single pilot, mechanical spring return

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

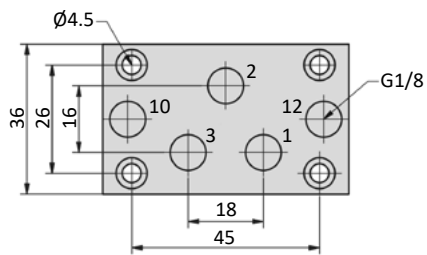
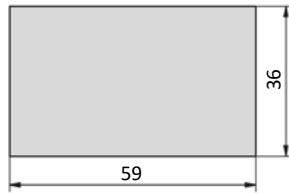
Technical data

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

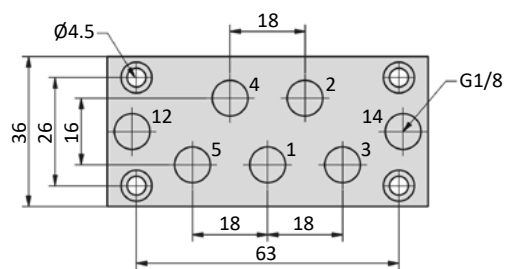


Dimensions

L-28-3xx



L-28-5xx



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

Series P-05

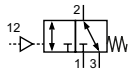
Technical details

Connection	G1/8
Nominal size	6 mm
Temperature range	-10°C ... +70°C
Medium	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.
Materials	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)

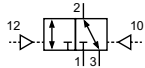


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

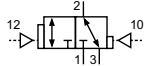
3/2-way valves



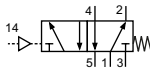
P-05-311
3/2-way, single pilot, mechanical spring return



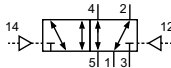
P-05-320
3/2-way, double pilot



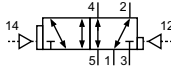
P-05-322
3/2-way, double pilot, one side dominant



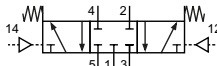
P-05-511
5/2-way, single pilot, mechanical spring return



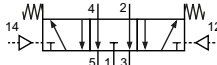
P-05-520
5/2-way, double pilot



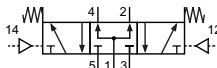
P-05-522
5/2-way, double pilot, one side dominant



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



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

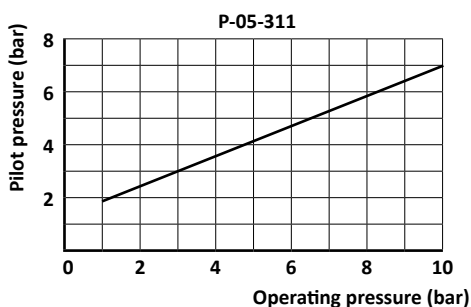


P-05-534
5/3-way, center position pressurized

Technical data

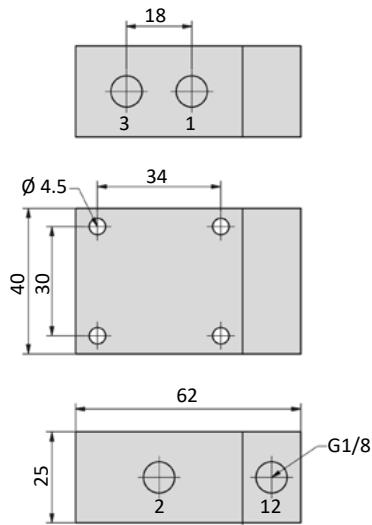
Model-no.:	P-05-311	P-05-320	P-05-322
Operating pressure (bar)	1 ... 10	0 ... 10	0 ... 10
Pilot pressure (bar)	see diagram	2 ... 10	2 ... 10
Flow rate (NI/min)	750	750	750
Weight (kg)	0.158	0.195	0.2

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

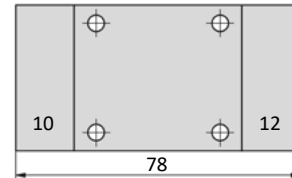


Dimensions

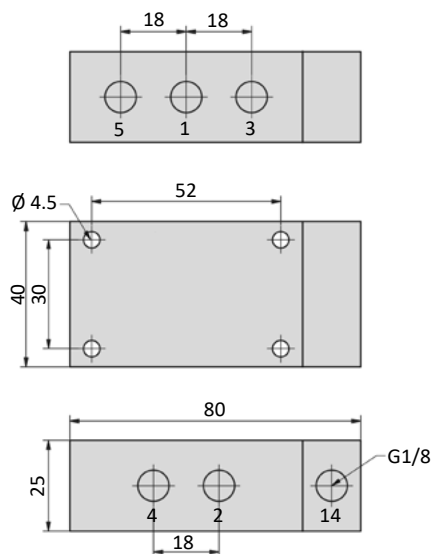
P-05-311



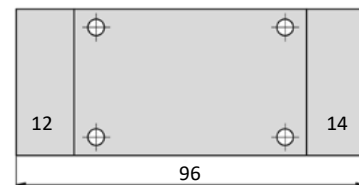
P-05-32x



P-05-511



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



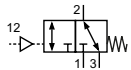
Technical details

Connection	G1/4
Nominal size	9 mm
Temperature range	-10°C ... +70°C
Medium	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.
Materials	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)

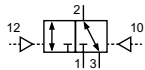


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

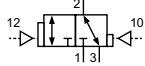
3/2-way valves



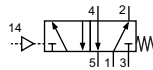
P-07-311
3/2-way, single pilot, mechanical spring return



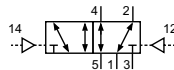
P-07-320
3/2-way, double pilot



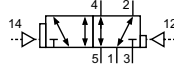
P-07-322
3/2-way, double pilot, one side dominant



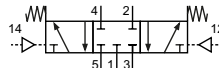
P-07-511
5/2-way, single pilot, mechanical spring return



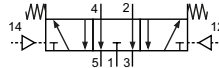
P-07-520
5/2-way, double pilot



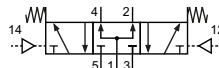
P-07-522
5/2-way, double pilot, one side dominant



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



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

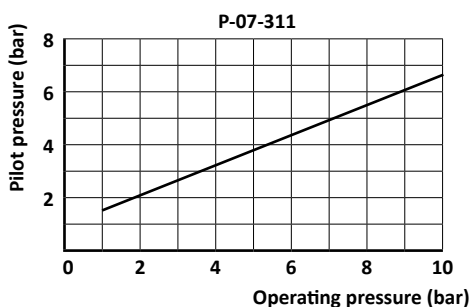


P-07-534
5/3-way, center position pressurized

Technical data

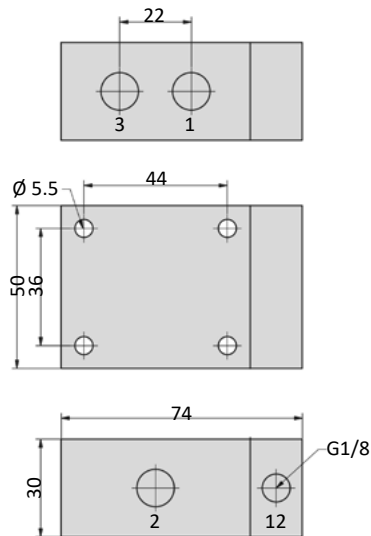
Model-no.:	P-07-311	P-07-320	P-07-322
Operating pressure (bar)	1 ... 10	0 ... 10	0 ... 10
Pilot pressure (bar)	see diagram	1.5 ... 10	1.5 ... 10
Flow rate (NI/min)	1580	1580	1580
Weight (kg)	0.281	0.350	0.350

Model-no.:	P-07-511	P-07-520	P-07-522	P-07-530	P-07-533	P-07-534
Operating pressure (bar)	0 ... 10	0 ... 10	0 ... 10	0 ... 8	0 ... 8	0 ... 8
Pilot pressure (bar)	3 ... 10	1.5 ... 10	1.5 ... 10	3 ... 8	3 ... 8	3 ... 8
Flow rate (NI/min)	1580	1580	1580	1300	1300	1300
Weight (kg)	0.360	0.420	0.420	0.420	0.420	0.420

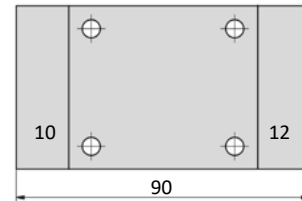


Dimensions

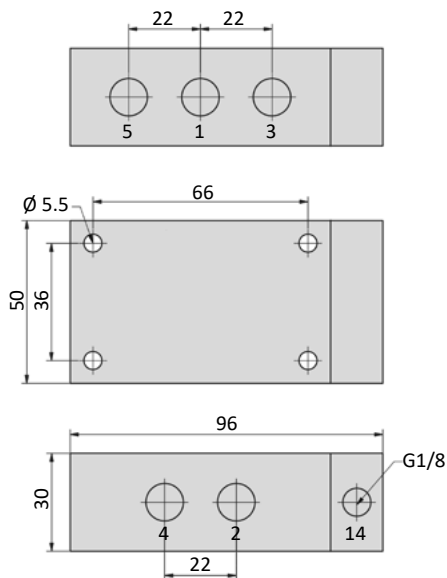
P-07-311



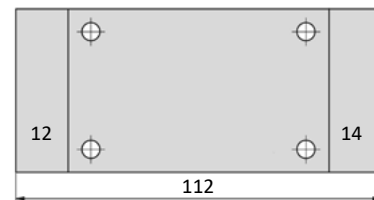
P-07-32x



P-07-511



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



Series P-12

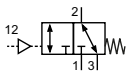
Technical details

Connection	G1/2
Nominal size	14 mm
Temperature range	-10°C ... +70°C
Medium	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.
Materials	Body: Al (anodized), seals: NBR and POM, inner parts: Al, brass, stainless steel
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)

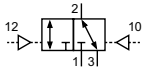


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

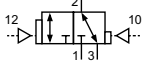
3/2-way valves



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

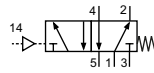


P-12-320
3/2-way, double pilot

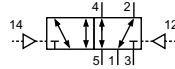


P-12-322
3/2-way, double pilot, one side dominant

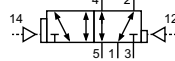
5/2- and 5/3-way valves



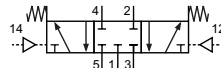
P-12-511
5/2-way, single pilot, mechanical spring return



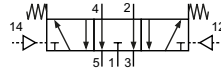
P-12-520
5/2-way, double pilot



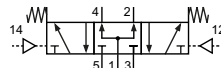
P-12-522
5/2-way, double pilot, one side dominant



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

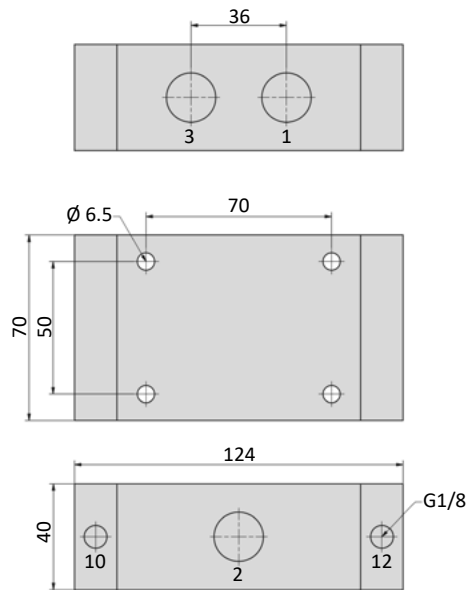
Technical data

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

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

Dimensions

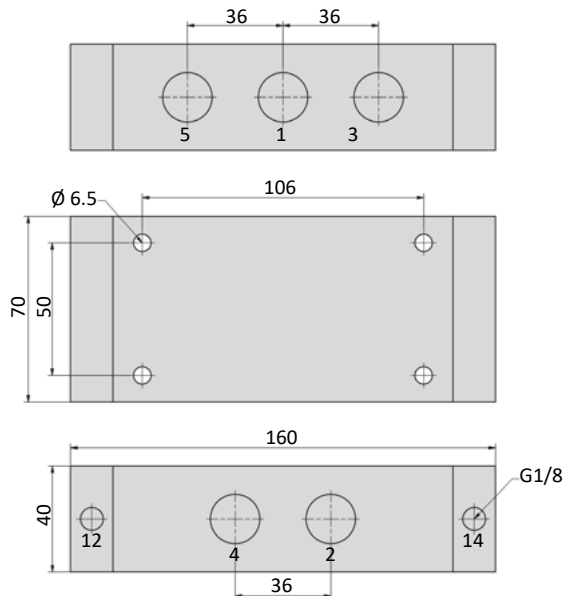
P-12-311, P-12-320



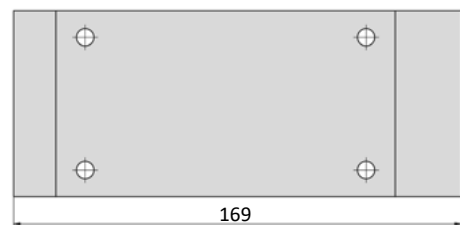
P-12-322



P-12-511, 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°.

Series BP-01 and BP-02



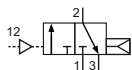
Technical details

Connection	BP-01: G1/8 BP-02: G1/4
Nominal size	BP-01: 5 mm BP-02: 7 mm
Temperature range	-10°C ... +70°C
Medium	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.
Materials	Body: Al (anodized), plastic, seals: NBR, PU, inner parts: Al, brass, plastic

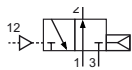


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

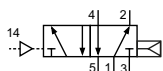
3/2- and 5/2-way valves



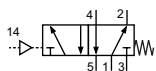
BP-01-310
BP-02-310
3/2-way, single pilot, air spring return, NC



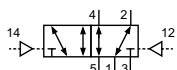
BP-01-312
BP-02-312
3/2-way, single pilot, air spring return, NO



BP-01-510
BP-02-510
5/2-way, single pilot, air spring return

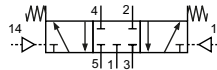


BP-01-511
BP-02-511
5/2-way, single pilot, mechanical spring return

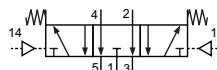


BP-01-520
BP-02-520
5/2-way, double pilot

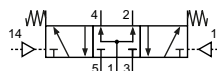
5/3-way valves



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

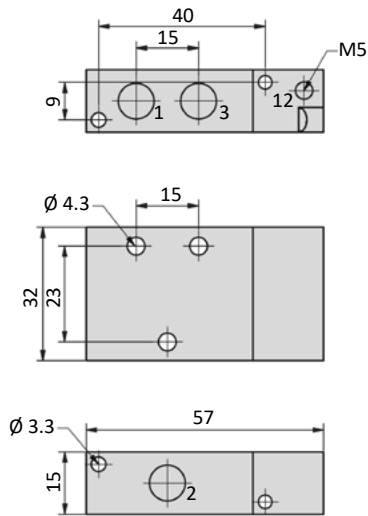
Model-no.:	BP-01-310	BP-01-320	BP-02-310	BP-02-312
Operating pressure (bar)	2 ... 8	2 ... 8	2 ... 8	2 ... 8
Pilot pressure (bar)	2 ... 8	2 ... 8	2 ... 8	2 ... 8
Flow rate (NI/min)	660	600	1090	920
Weight (kg)	0.065	0.066	0.125	0.125

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

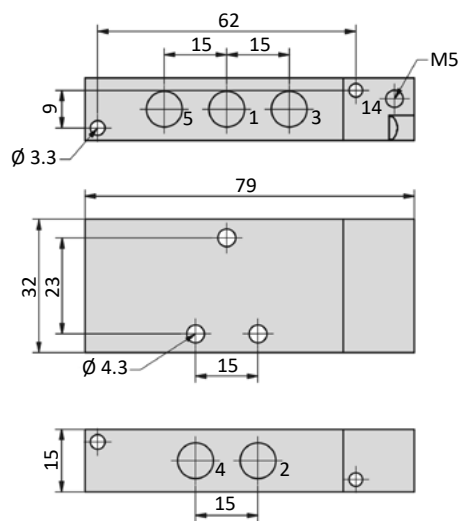
Model-no.:	BP-02-510	BP-02-511	BP-02-520	BP-02-530	BP-02-533	BP-02-534
Operating pressure (bar)	2 ... 8	-0.95 ... 8	-0.95 ... 8	-0.95 ... 8	-0.95 ... 8	-0.95 ... 8
Pilot pressure (bar)	2 ... 8	3 ... 8	2 ... 8	3 ... 8	3 ... 8	3 ... 8
Flow rate (NI/min)	1700	1600	1540	1300	1470	1660
Weight (kg)	0.185	0.185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

Dimensions

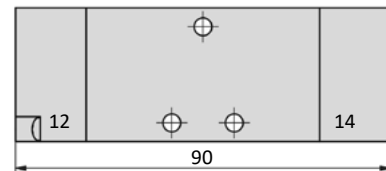
BP-01-31x



BP-01-51x



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

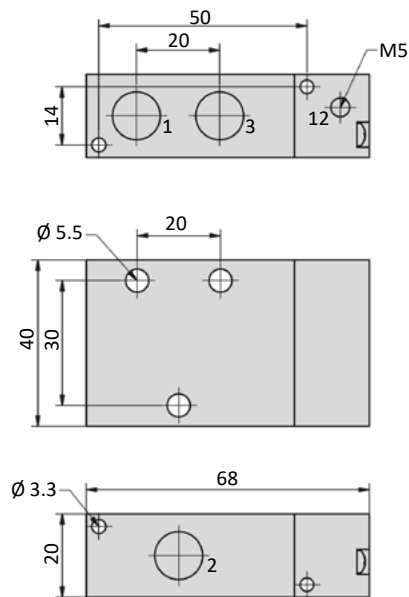


- 1 = pressure inlet
- 2,4 = outlets
- 3,5 = exhausts
- 12,14 = pilot ports

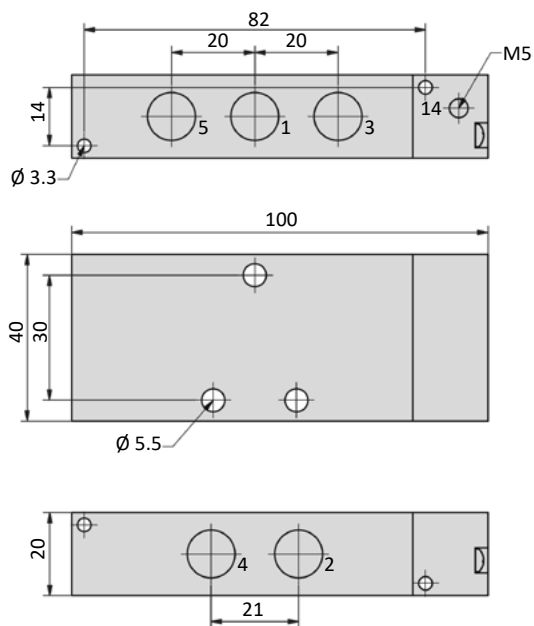
Series BP-01 and BP-02

Dimensions

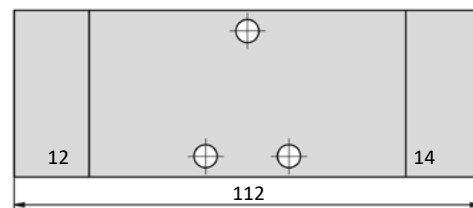
BP-02-31x



BP-02-51x



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



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