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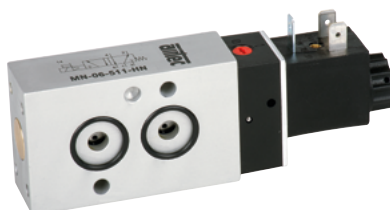
Series KN-05, KN-55

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Series PI-01, PI-02, PI-03

ISO 5599/1, Size 1 to 3

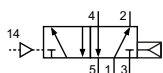
Technical details

Connection	ISO 5599/1
Nominal size	Size 1: 9 mm Size 2: 13 mm Size 3: 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, stainless steel and brass
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)

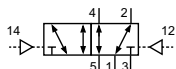


Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port.

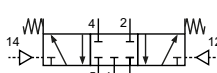
5/2-way valves



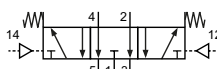
PI-01-511
PI-02-511
PI-03-511
5/2-way, single pilot, mechanical
spring return



PI-01-520
PI-02-520
PI-03-520
5/2-way, double pilot



PI-01-530
PI-02-530
PI-03-530
5/3-way, center position closed

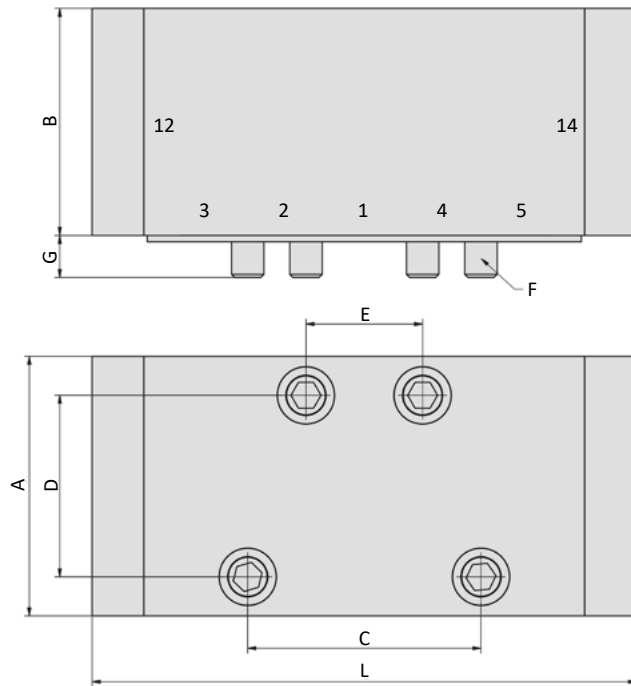


PI-01-533
PI-02-533
PI-03-533
5/3-way, center position exhausted

Technical data

Model-no.:	PI-01-511	PI-01-520	PI-01-530	PI-01-533
Operating pressure (bar)	0...10 bar	0...10 bar	0...10 bar	0...10 bar
Pilot pressure (bar)	2.5 ... 10 bar	2 ... 10 bar	3 ... 10 bar	3 ... 10 bar
Flow rate (NI/min)	1700	1700	1700	1700
Weight (kg)	0.32	0.32	0.32	0.32
Model-no.:	PI-02-511	PI-02-520	PI-02-530	PI-02-533
Operating pressure (bar)	0...10 bar	0...10 bar	0...10 bar	0...10 bar
Pilot pressure (bar)	2 ... 10 bar	2 ... 10 bar	3 ... 10 bar	3 ... 10 bar
Flow rate (NI/min)	2020	2020	2020	2020
Weight (kg)	0.54	0.56	0.54	0.54
Model-no.:	PI-03-511	PI-03-520	PI-03-530	PI-03-533
Operating pressure (bar)	0...10 bar	0...10 bar	0...10 bar	0...10 bar
Pilot pressure (bar)	2 ... 10 bar	2 ... 10 bar	3 ... 10 bar	3 ... 10 bar
Flow rate (NI/min)	4150	4150	4150	4150
Weight (kg)	0.96	1.00	0.96	0.96

Dimensions



Model-no.:	A	B	C	D	E	F	G
PI-01-5xx	40	35	36	28	18	M5	8
PI-02-5xx	50	40	48	38	24	M6	8
PI-03-5xx	65	45	64	48	32	M8	13

Accessories



Manifolds and accessories: www.airtec.de

Series PN-05

NAMUR

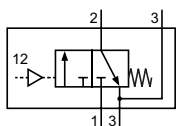
Technical details

Connection	G1/4, Namur
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), zinc coated steel, plastic, seals: NBR, inner parts: Al, steel and plastic
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)



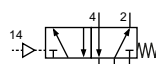
Pneumatically operated spool valve. The valve switches upon pressurization of the pilot port. The location pin, screws and seals are included.

3/2-way valve

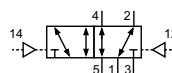


PN-05-311
3/2-way, single pilot, mechanical spring return

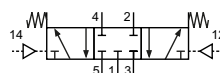
5/2- and 5/3-way valves



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



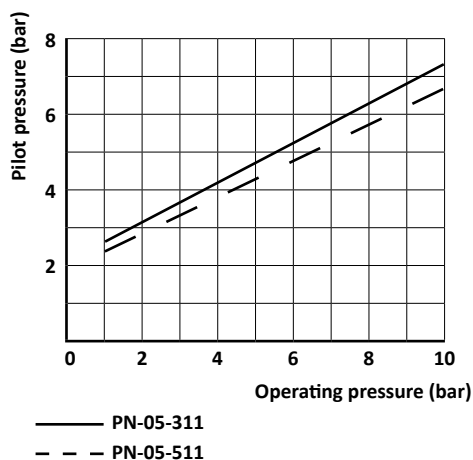
PN-05-520
5/2-way, double pilot



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

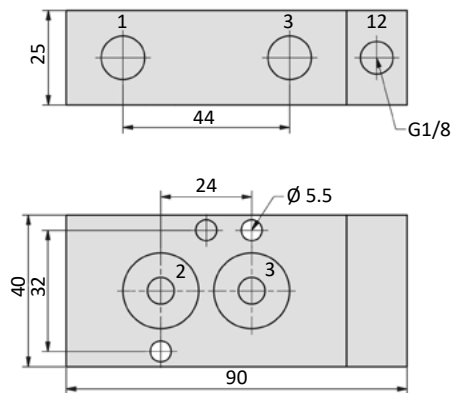
Technical data

Model-no.:	PN-05-311	PN-05-511	PN-05-520	PN-05-530
Operating pressure (bar)	0...10 bar	0...10 bar	0...10 bar	0...10 bar
Pilot pressure (bar)	see diagram	see diagram	2...10 bar	3...10 bar
Flow rate (l/min)	800	800	900	680
Weight (kg)	0.22	0.22	0.26	0.28

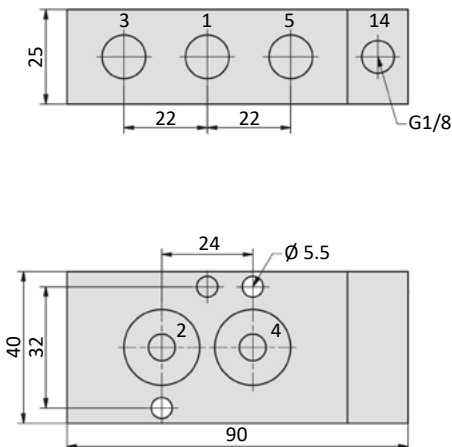


Dimensions

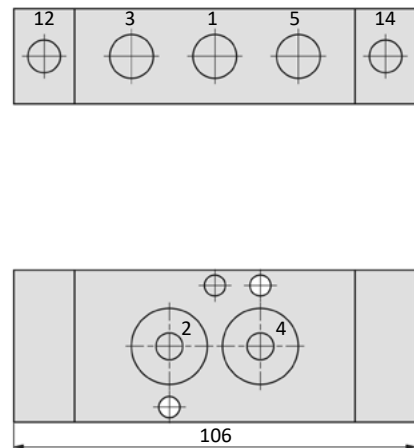
PN-05-311



PN-05-511



PN-05-520, P-05-530



1 = pressure inlet

2,4 = outlets

3,5 = exhausts

12,14 = pilot ports

Pilot ports can be repositioned by 180°.

Series MI-01, MI-02, MI-03

ISO 5599/1, Size 1 to 3

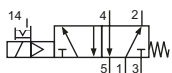
Technical details

Connection	ISO 5599/1
Nominal size	Size 1: 9 mm Size 2: 13 mm Size 3: 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, stainless steel and brass
Protection	IP 65 according to EN 60529
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)

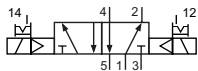


Electrically operated pool valve. The manual override is detent and is operated by screwdriver.

5/2-way valves

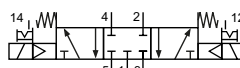


MI-01-511-HN-xxx
MI-02-511-HN-xxx
MI-03-511-HN-xxx
5/2-way, single solenoid, mechanical spring return

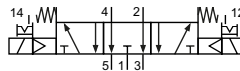


MI-01-520-HN-xxx
MI-02-520-HN-xxx
MI-03-520-HN-xxx
5/2-way, double solenoid

5/3-way valves



MI-01-530-HN-xxx
MI-02-530-HN-xxx
MI-03-530-HN-xxx
5/3-way, center position closed



MI-01-533-HN-xxx
MI-02-533-HN-xxx
MI-03-533-HN-xxx
5/3-way, center position exhausted

Please complete: xxx = electrical option

Electrical options

Nominal voltage	Power consumption	Specifics	Plug connection*1	-xxx
12 V DC	4.2 W		Form B industrial norm	-411
12 V DC	2.2 W	max. 8 bar	Form B industrial norm	-431
24 V DC	4.2 W		Form B industrial norm	-412
24 V DC	4.2 W		M 12	-O12
24 V DC	2.2 W	max. 8 bar	Form B industrial norm	-432
24 V DC	2.5 W	max. 8 bar	M 12	-O32
24 V AC	7/4 VA		Form B industrial norm	-422
115 V AC	7/4 VA		Form B industrial norm	-426
230 V AC	7/4 VA		Form B industrial norm	-427

*1 Plug socket not included, suitable plug sockets see page 4-40.

Series MI-01, MI-02, MI-03

ISO 5599/1, Size 1 to 3

Technical data

Model-no.:	MI-01-511	MI-01-520	MI-01-530	MI-01-533
Operating pressure* (bar)	2.5...10	2...10	3...10	3...10
Pilot pressure* (bar)	2.5...10	2...10	3...10	3...10
Flow rate (NI/min)	1700	1700	1610	1610
Response time (ms) at 6 bar	on: 15 off: 27	on: 13 off: 13	on: 17 off: 19	on: 17 off: 19
Weight (kg)	0.480	0.645	0.620	0.620

Model-no.:	MI-02-511	MI-02-520	MI-02-530	MI-02-533
Operating pressure* (bar)	2...10	2...10	3...10	3...10
Pilot pressure* (bar)	2...10	2...10	3...10	3...10
Flow rate (NI/min)	2020	2020	2020	2020
Response time (ms) at 6 bar	on: 29 off: 57	on: 17 off: 17	on: 20 off: 27	on: 20 off: 27
Weight (kg)	0.708	0.850	0.847	0.847

Model-no.:	MI-03-511	MI-03-520	MI-03-530	MI-03-533
Operating pressure* (bar)	2...10	2...10	3...10	3...10
Pilot pressure* (bar)	2...10	2...10	3...10	3...10
Flow rate (NI/min)	4150	4150	4150	4150
Response time (ms) at 6 bar	on: 32 off: 57	on: 20 off: 20	on: 22 off: 55	on: 22 off: 55
Weight (kg)	1.115	1.287	1.277	1.277

* max. 8 bar at 2.2 W and 2.5 W

5

Accessories



Plug sockets: page 4-40



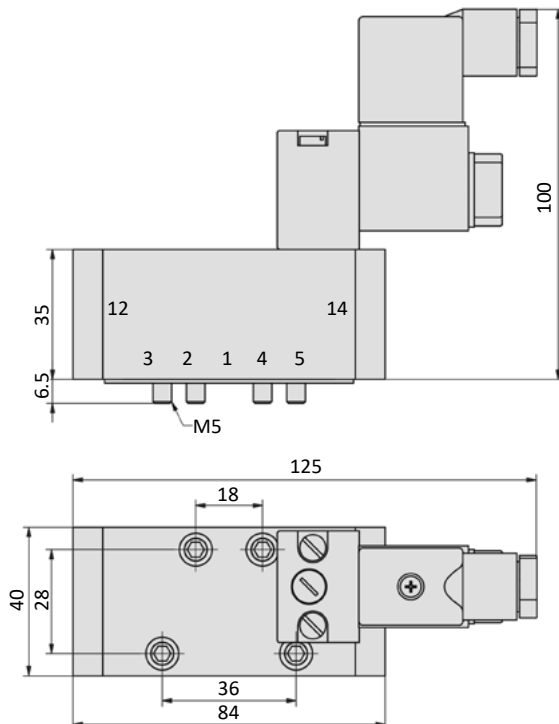
Manifolds and Accessories: www.airtec.de

Series MI-01, MI-02, MI-03

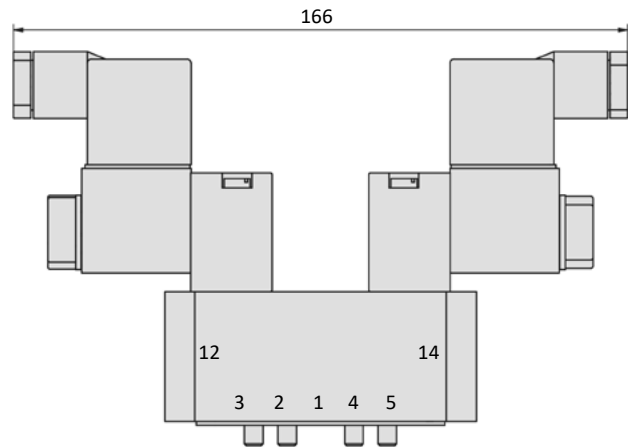
ISO 5599/1, Size 1 to 3

Dimensions

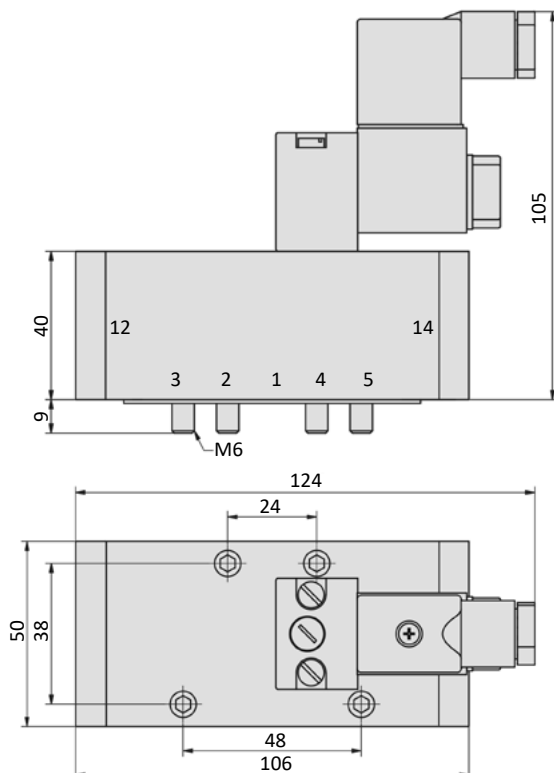
MI-01-511-HN



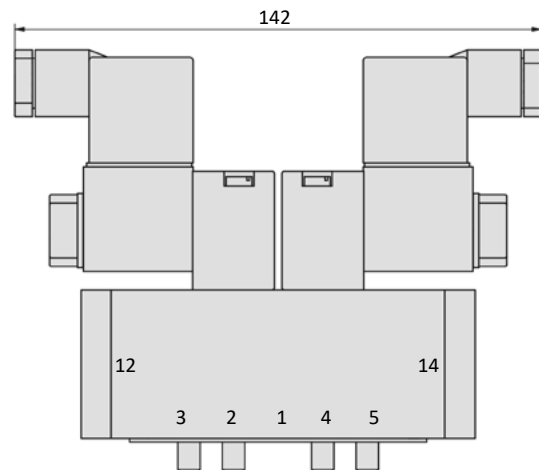
MI-01-520-HN, MI-01-53x-HN



MI-02-511-HN



MI-02-520-HN, MI-02-53x-HN

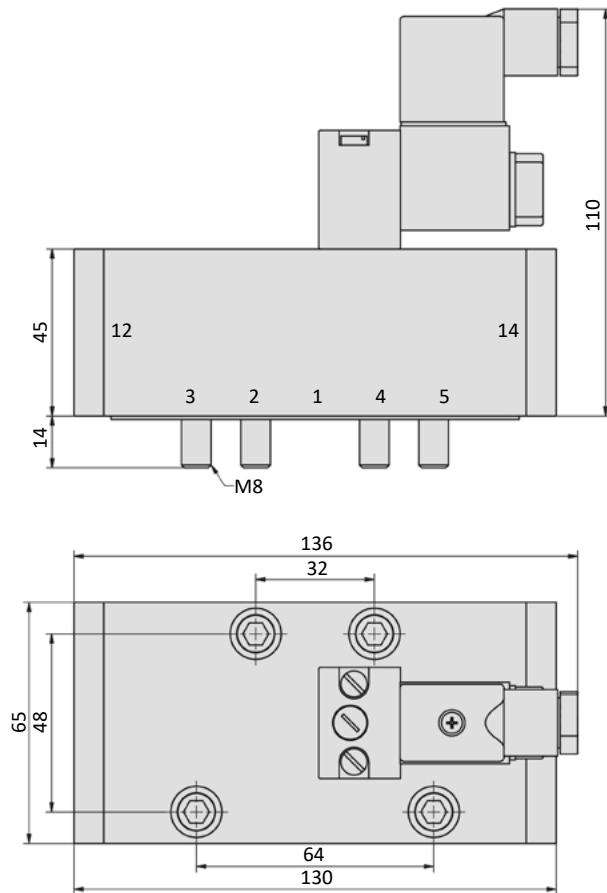


Series MI-01, MI-02, MI-03

ISO 5599/1, Size 1 to 3

Dimensions

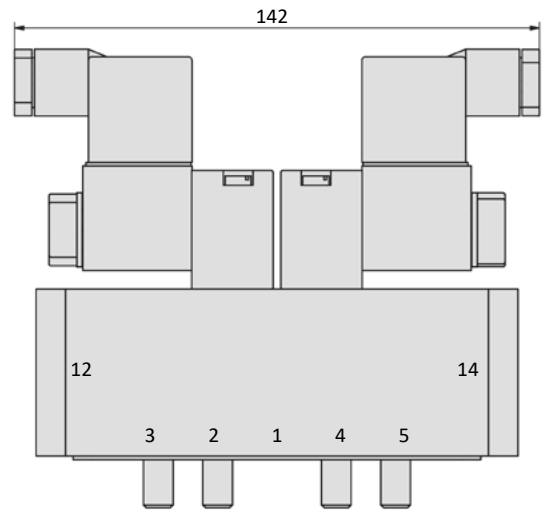
MI-03-511-HN



- 1 = pressure inlet
- 2,4 = outlets
- 3,5 = exhausts

Plug socket (not included in scope of delivery) can be repositioned by 180°.
Solenoid coil can be repositioned by 2 x 90°.

MI-03-520-HN, MI-03-53x-HN



Series KN-05, KN-55

NAMUR

Technical details

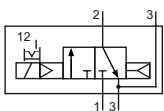
Connection	G1/4, Namur
Nominal size	6 mm
Temperature range	-10°C ... +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), plastic, seals: NBR, inner parts: Al, steel and plastic
Protection	IP 65 according to EN 60529
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)



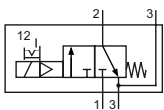
Electrically operated spool valve. The manual override is detent and is operated by screwdriver.

The model KN-55 has a coil with enhanced humidity resistance and an additional gasket at the coil. The location pin, screws and seals are included.

3/2-way valves

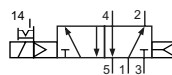


KN-05-310-HN-xxx
KN-55-310-HN-xxx
3/2-way, single solenoid, air spring return, NC

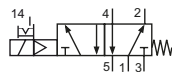


KN-05-311-HN-xxx
KN-55-311-HN-xxx
3/2-way, single solenoid, mechanical spring return, NC

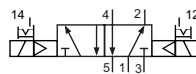
5/2- and 5/3-way valves



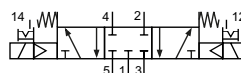
KN-05-510-HN-xxx
KN-55-510-HN-xxx
5/2-way, single solenoid, air spring return



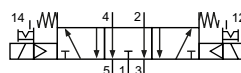
KN-05-511-HN-xxx
KN-55-511-HN-xxx
5/2-way, single solenoid, mechanical spring return



KN-05-520-HN-xxx
KN-55-520-HN-xxx
5/2-way, double solenoid



KN-05-530-HN-xxx
KN-55-530-HN-xxx
5/3-way, center position closed



KN-05-533-HN-xxx
KN-55-533-HN-xxx
5/3-way, center position exhausted

Please complete: xxx = electrical option

Electrical options

Nominal voltage	Power consumption	Specifics	Plug connection*1	-xxx	
				KN-05	KN-55
12 V DC	4.2 W		Form B industrial norm	-441	-741
12 V DC	2.2 W	max. 8 bar	Form B industrial norm	-461	-761
24 V DC	4.2 W		Form B industrial norm	-442	-742
24 V DC	4.2 W		M 12	-O42	-
24 V DC	2.2 W	max. 8 bar	Form B industrial norm	-462	-762
24 V DC	2.5 W	max. 8 bar	M 12	-O62	-
24 V AC	7/4 VA		Form B industrial norm	-452	-752
115 V AC	7/4 VA		Form B industrial norm	-456	-756
230 V AC	7/4 VA		Form B industrial norm	-457	-757

*1 Plug socket not included, suitable plug sockets see page 4-40.

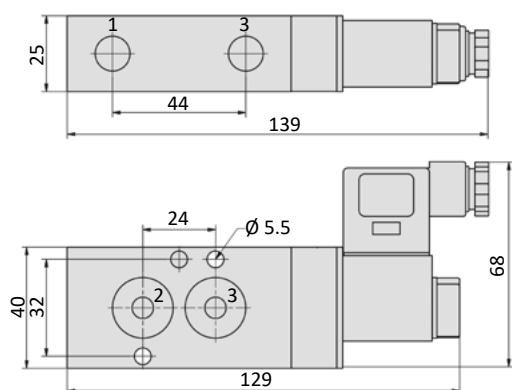
Technical data

Model-no.:	KN-05-310 KN-55-310	KN-05-311 KN-55-311	KN-05-510 KN-55-510	KN-05-511 KN-55-511	KN-05-520 KN-55-520	KN-05-530 KN-55-530	KN-05-533 KN-55-533
Operating pressure* (bar)	3...10	3...10	3...10	3...10	2...10	3...10	3...10
Pilot pressure* (bar)	3...10	3...10	3...10	3...10	2...10	3...10	3...10
Flow rate (NI/min)	780	780	900	800	900	680	680
Response time (ms) at 6 bar	on: 16 off: 18	on: 13 off: 16	on: 16 off: 17	on: 16 off: 18	on: 14 off: 14	on: 14 off: 16	on: 14 off: 16
Weight (kg)	0.320	0.320	0.320	0.320	0.440	0.440	0.440

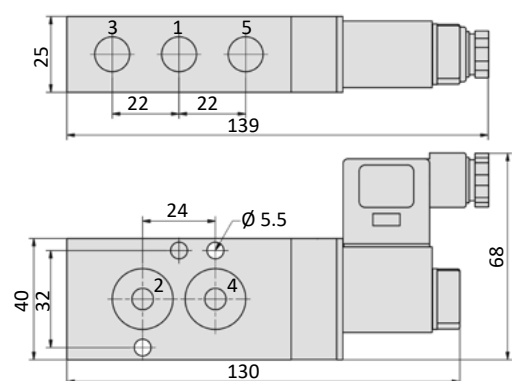
* max. 8 bar at 2.2 W and 2.5 W

Dimensions

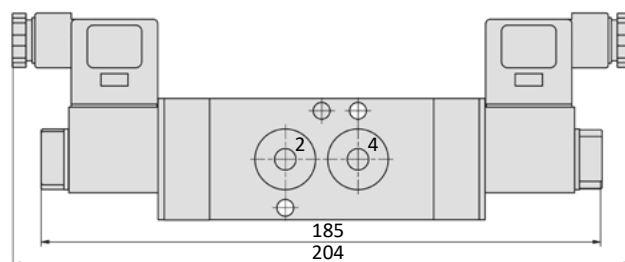
KN-05-31x-HN, KN-55-31x-HN



KN-05-51x-HN, KN-55-51x-HN



KN-05-520-HN, KN-55-520-HN, KN-05-53x-HN, KN-55-53x-HN



1 = pressure inlet
2,4 = outlets
3,5 = exhausts

Plug socket (not included in scope of delivery) can be repositioned by 180°.
Solenoid coil can be repositioned by 4 x 90°.

Accessories



Plug sockets: page 4-40

Series MN-06

NAMUR

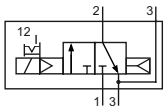
Technical details

Connection	G1/4, Namur
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), plastic, seals: NBR and POM, inner parts: Al, stainless steel and brass
Protection	IP 65 according to EN 60529
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)

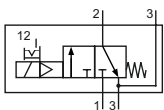


Electrically operated spool valve. The manual override is detent and is operated by screwdriver. The location pin, screws and seals are included.

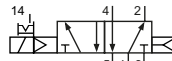
3/2-way valves



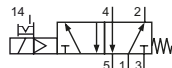
MN-06-310-HN-xxx
3/2-way, single solenoid, air spring return, NC



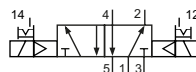
MN-06-311-HN-xxx
3/2-way, single solenoid, mechanical spring return, NC



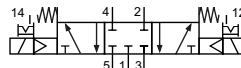
MN-06-510-HN-xxx
5/2-way, single solenoid, air spring return



MN-06-511-HN-xxx
5/2-way, single solenoid, mechanical spring return



MN-06-520-HN-xxx
5/2-way, double solenoid



MN-06-530-HN-xxx
5/3-way, center position closed

Please complete: xxx = electrical option

Electrical options

Nominal voltage	Power consumption	Specifics	Plug connection*1	-xxx
12 V DC	4.2 W		Form B industrial norm	-441
12 V DC	2.2 W	max. 8 bar	Form B industrial norm	-461
24 V DC	4.2 W		Form B industrial norm	-442
24 V DC	4.2 W		M 12	-042
24 V DC	2.2 W	max. 8 bar	Form B industrial norm	-462
24 V DC	2.5 W	max. 8 bar	M 12	-062
24 V AC	7/4 VA		Form B industrial norm	-452
115 V AC	7/4 VA		Form B industrial norm	-456
230 V AC	7/4 VA		Form B industrial norm	-457

*1 Plug socket not included, suitable plug sockets see page 4-40.

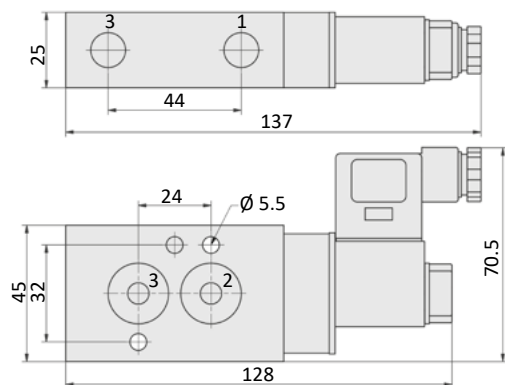
Technical data

Model-no.:	MN-06-310	MN-06-311	MN-06-510	MN-06-511	MN-06-520	MN-06-530
Operating pressure* (bar)	2...10	3...10	2...10	3...10	2...10	3...10
Pilot pressure* (bar)	2...10	3...10	2...10	3...10	2...10	3...10
Flow rate (NI/min)	750	750	750	750	750	650
Response time (ms) at 6 bar	on: 13 off: 16	on: 13 off: 16	on: 13 off: 16	on: 13 off: 16	on: 12 off: 12	on: 13 off: 15
Weight (kg)	0.320	0.320	0.320	0.320	0.460	0.460

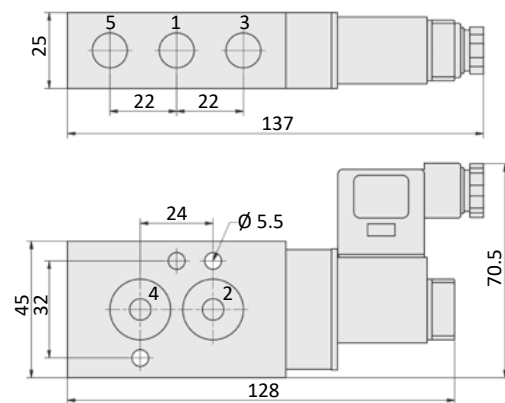
* max. 8 bar at 2.2 W and 2.5 W

Dimensions

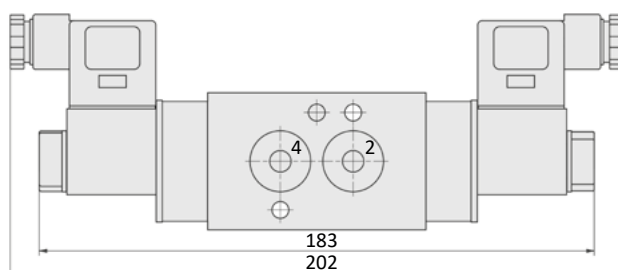
MN-06-31x-HN



MN-06-51x-HN



MN-06-520-HN, MN-06-530-HN



1 = pressure inlet
2,4 = outlets
3,5 = exhausts

Plug socket (not included in scope of delivery) can be repositioned by 180°.
Solenoid coil can be repositioned by 4 x 90°.

Accessories



Plug sockets: page 4-40

Series MN-22

NAMUR

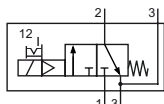
Technical details

Connection	G1/2, Namur
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), plastic, seals: NBR and POM, inner parts: Al, stainless steel and brass
Protection	IP 65 according to EN 60529



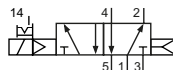
Electrically operated spool valve. The manual override is detent and is operated by screwdriver. The location pin, screws and seals are included.

3/2- way valves

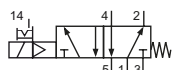


MN-22-311-HN-xxx
3/2-way, single solenoid, mechanical spring return, NC

5/2- way valves



MN-22-510-HN-xxx
5/2-way, single solenoid, air spring return



MN-22-511-HN-xxx
5/2-way, single solenoid, mechanical spring return

Please complete: xxx = electrical option

Electrical options

Nominal voltage	Power consumption	Specifics	Plug connection*1	-xxx
12 V DC	4.2 W		Form B industrial norm	-411
12 V DC	2.2 W	max. 8 bar	Form B industrial norm	-431
24 V DC	4.2 W		Form B industrial norm	-412
24 V DC	4.2 W		M 12	-O12
24 V DC	2.2 W	max. 8 bar	Form B industrial norm	-432
24 V DC	2.5 W	max. 8 bar	M 12	-O32
24 V AC	7/4 VA		Form B industrial norm	-422
115 V AC	7/4 VA		Form B industrial norm	-426
230 V AC	7/4 VA		Form B industrial norm	-427

*1 Plug socket not included, suitable plug sockets see page 4-40.

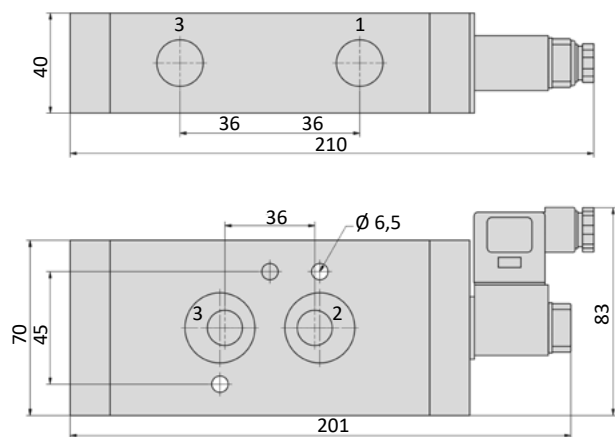
Technical data

Model-no.:	MN-22-311	MN-22-510	MN-22-511
Operating pressure* (bar)	3...10	1...10	3...10
Pilot pressure* (bar)	3...10	1...10	3...10
Flow rate (NI/min)	3300	3300	3300
Response time (ms) at 6 bar	on: 20 off: 80	on: 30 off: 59	on: 20 off: 80
Weight (kg)	1.10	1.10	1.10

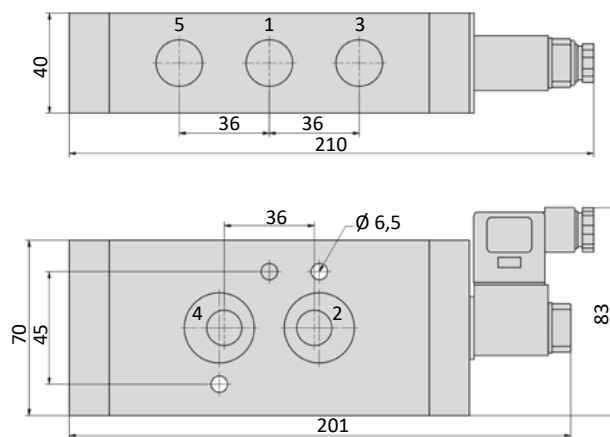
* max. 8 bar at 2.2 W and 2.5 W

Dimensions

MN-22-311-HN



MN-22-51x-HN



1 = pressure inlet
2,4 = outlets
3,5 = exhausts

Plug socket (not included in scope of delivery) can be repositioned by 180°.
Solenoid coil can be repositioned by 4 x 90°.

Accessories



Plug sockets: page 4-40

Flow control valves

NAMUR

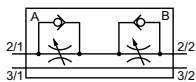
Technical details

Connection	Namur
Nominal size	5 mm
Flow rate	KN-063: 210 NI/min, KN-065: 290 NI/min
Weight	0.170 kg
Temperature range	-25°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 inner parts: brass
	Valves in accordance with 2014/34/EU (ATEX) available. (Chapter 13)

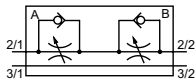


Flow control valves for speed regulation of pneumatically operated actuators. Mounting between NAMUR valve and actuator. Adjustable with screwdriver or manually. The location pin, screws and seals are included.

3/2-way

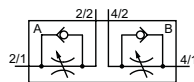


KN-063-DRS
for 3/2-way valves,
adjustable with screwdriver

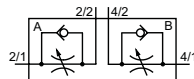


KN-063-DRH
for 3/2-way valves,
manually adjustable

5/2- and 5/3-way



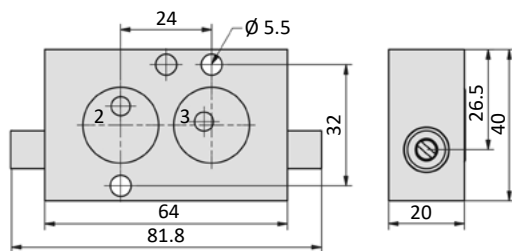
KN-065-DRS
for 5/2-way- and 5/3-way valves,
adjustable with screwdriver



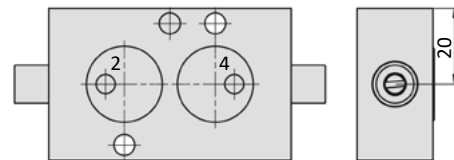
KN-065-DRH
for 5/2-way- and 5/3-way valves,
manually adjustable

Dimensions

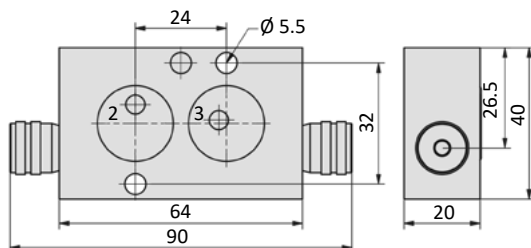
KN-063-DRS



KN-065-DRS



KN-063-DRH



KN-065-DRH

