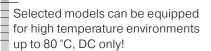


Solenoid Valves



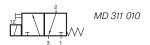
Selected models are available with high flow and low power consumption. For detailed information refer to chapter 2.5.5.

Selected models are available in stainless steel. For detailed information refer to chapter 2.13.



Selected models are available for explosion hazardous environment. For detailed information refer to chapter 2.15.

MD 311 010





Direct acting 3/2-way solenoid, valve normally closed (n.c.), equipped with mechanical spring return.

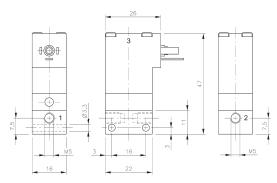
By closing port 3 valve can be converted into a 2/2-way valve.

Available with solenoid operators: 24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm.

For details about solenoid system, please refer to page 2.14.1.

Valves are generally equipped with manual override to push.

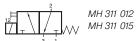
Valves can be used for technical vacuum too.

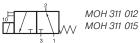


MD 311 010

Type	Funktion	Port size	Air flow	Operating press.	Power consumption	Weight
MD 311 010	n.c.	M5	30 l/min	-0,9 - 10 bar	1,8 W =	0,05 kg

MH 311 012/MOH 311 012/MH 211 012 MH 311 015/MOH 311 015/MH 211 015









Direct acting 3/2-way and 2/2-way solenoid valve equipped with mechanical spring return.

Type MH 311 _ _ _

Normally closed, port 1 and 2 in the valve, port 3 at the top of the solenoid with manual override.

Type MOH 311 _ _ _

Normally open, port 2 and 3 in the valve, port 1 at the top of the solenoid with manual override.

Type MH 211 _ _ _

2/2-way valve n.c. with manual override.

By closing port 3 3/2-way valves can be converted into 2/2-way version.

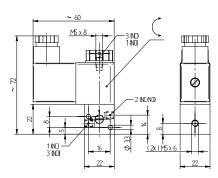
Please note: Drawings are for MH 311 _ _ -valves. For MOH-valves ports 1 and 3 are swapped, for MH 211 port 3 is not existing. MOH 311 and MH 211-valves are equipped with a flat plastic nut.

Available with solenoid operators:

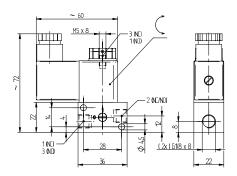
230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves can be used for technical vacuum too.

Versions with a normally open operator system (port 1 in the body) available on request.



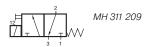
MH 311 012/MOH 311 012/MH 211 012



MH 311 015/MOH 311 015/MH 211 015

Туре	Ways	Function		Port siz	e	Air flow	Operating	Power-	Weight	
			1	2	3		pressure	consumption		
MH 311 012	3/2	n.c.	M5	M5	M5	40 I/min	-0,9 - 10 bar	$3W = /5VA \sim$	0,12 kg	€≥;
MH 311 015	3/2	n.c.	G 1/8"	G 1/8"	M5	50 I/min	-0,9 - 10 bar	$3W = /5VA \sim$	0,14 kg	€x ** •••
MOH 311 012	3/2	n.o.	M5	M5	M5	40 I/min	-0,9 - 10 bar	$3W = /5VA \sim$	0,12 kg	
MOH 311 015	3/2	n.o.	M5	G 1/8"	G 1/8"	50 I/min	-0,9 - 10 bar	$3W = /5VA \sim$	0,14 kg	
MH 211 012	2/2	n.c.	M5	M5		40 I/min	-0,9 - 10 bar	$3W = /5VA \sim$	0,12 kg	
MH 211 015	2/2	n.c.	G 1/8"	G 1/8"		50 I/min	-0,9 - 10 bar	$3W = /5VA \sim$	0,14 kg	

MH 311 209





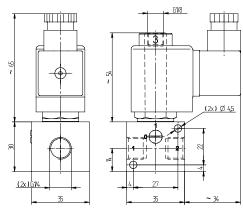
Normally closed direct acting 3/2-way solenoid valve equipped with mechanical spring return.

Orifice size: 2 mm, max. pressure 10 bar.

Available with solenoid operators: 230V/50Hz, 24V/50Hz, 24V=. Others on request.

Valves are generally equipped with manual override.

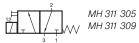
Suitable solenoid coils type MA 30 S13 _ and connectors Form A (30 mm) type ST 30 can be found on page 2.14.5.



MH 311 209

Туре		Port si	ze	Air flow	Operating press.	Power cons.	Weight
	1	2	3				
MH 311 209	G 1/4"	G 1/4"	G 1/8"	120 I/min	0 - 10 bar	10 W = /13/11 VA ~	0,31 kg

MH 311 305/MH 311 309/MOH 311 305 MOH 311 309/MH 211 305/MH 211 309









Direct acting 3/2-way and 2/2-way solenoid valve equipped with mechanical spring return.

Orifice size: 3 mm, max. pressure: 7 bar.

Type MH 311 _ _ _

Normally closed, port 1 and 2 in the valve, port 3 at the top of the solenoid

Type MOH 311 ___

Normally open, port 2 and 3 in the valve, port 1 at the top of the solenoid

Type MH 211 _ _ _

2/2-way valve n.c.

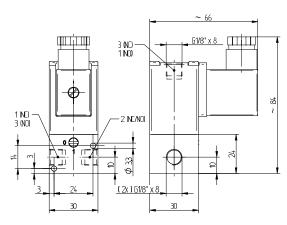
Please note:

Drawings are for MH 311 _ _ _-valves. For MOH-valves ports 1 and 3 are swapped, for MH 211 port 3 is not existing.

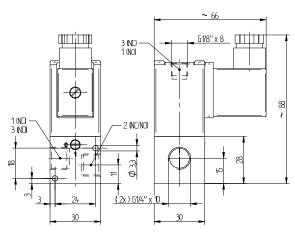
Available with solenoid operators: 230V/50Hz, 24V/50Hz, 24V=.

Valves are generally equipped with manual override.

Connector Industry B (22 mm). Flying leads on request.



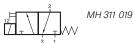
MH 311 305/MOH 311 305/MH 211 305



MH 311 309/MOH 311 309/MH 211 309

Туре	Ways	Function	Р	ort size		Air flow	Operating	Power	Weight
			1	2	3		pressure	consumption	
MH 311 305	3/2	n.c.	G 1/8"	G 1/8"	G 1/8"	200 l/min	0 - 7 bar	$7,5 W = /8,5 VA \sim$	0,17 kg
MH 311 309	3/2	n.c.	G 1/4"	G 1/4"	G 1/8"	200 l/min	0 - 7 bar	$7,5 W = /8,5 VA \sim$	0,18 kg
MOH 311 305	3/2	n.o.	G 1/8"	G 1/8"	G 1/8"	200 l/min	0 - 7 bar	$7,5 W = /8,5 VA \sim$	0,17 kg
MOH 311 309	3/2	n.o.	G 1/4"	G 1/4"	G 1/8"	200 l/min	0 - 7 bar	$7,5 W = /8,5 VA \sim$	0,18 kg
MH 211 305	2/2	n.c.	G 1/8"	G 1/8"		200 l/min	0 - 7 bar	$7,5 W = /8,5 VA \sim$	0,17 kg
MH 211 309	2/2	n.c.	G 1/4"	G 1/4"		200 l/min	0 - 7 bar	$7,5 W = /8,5 VA \sim$	0,18 kg

MH 311 019 6/MH 311 019 1/8





Direct acting 3/2-way solenoid valve equipped with spring return. Orifice size 1.3 mm.

Normally closed, port 1 swivel either 1/8" or 6 mm pif, port 2 as banjo screw, exhaust through operator system with manual override.

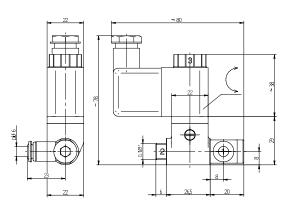
Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Available accessory:

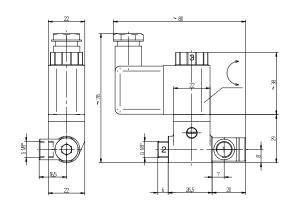
KV SET 02

Reducer fitting for banjo-screw to change from 1/8" to 1/4", with captive seal.

Version with a normally open operator system (port 1 in the body) available on request.



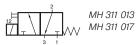
MH 311 019 6



MH 311 019 1/8

Туре	Funct.	Р	ort		Air flow	Operating	Power	Weight
		1	2 banjo	3		pressure	consumtion	
MH 311 019 6	n.c.	Swivel 6 mm pif	G 1/8"	M5	50 I/min	-0,9 - 10 bar	3 W= / 5 VA	0,16 kg
MH 311 019 1/8	n.c.	Swivel G 1/8"	G 1/8"	hole	50 I/min	-0,9 - 10 bar	3 W = / 5 VA	0,16 kg

MH 311 013/MH 311 017





Direct acting 3/2-way solenoid valve equipped with mechanical spring return, normally closed.

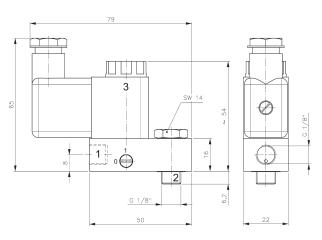
Port 2 is a banjo that can be screwed directly into the actuator that is to be controlled.

On request:

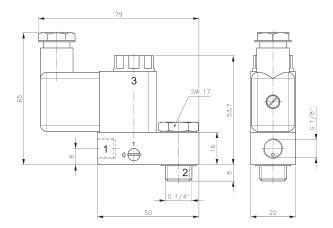
- Products with port 1 in NPT
- Products normally open
- 2/2-way version

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=,24V=, 12V=.

Valves are generally equipped with manual override.



MH 311 013



MH 311 017

MH 311 013 and MH 311 017 are designed for piloting angle seat valves or small spring-return actuators.

When assembling this type of valve to a spring-return actuator, please take into consideration that there is no exhaust air recirculation ("purge").

Instead of the standard banjo-screw, the valve can also be equipped with a flow-regulating banjo-screw.

Three different versions are available on request: Banjo-screw to regulate the opening speed, the closing speed as well as the opening and closing speed (not independent).

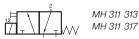




Version with integrated flowregulator available on request.

Туре	Function		Port		Air flow	Operating	Power	Weight	
		1	2 banjo	3		pressure	consumption		
MH 311 013	n.c.	G 1/8"	G 1/8"	M5	50 l/min	0 - 10 bar	$3 W = / 5 VA \sim$	0,14 kg	*
MH 311 017	n.c.	G 1/8"	G 1/4"	M5	50 I/min	0 - 10 bar	$3 W = / 5 VA \sim$	0,16 kg	*

MH 311 313/MH 311 317





Direct acting 3/2-way solenoid valve equipped with mechanical spring return, normally closed.

Orifice size: 3 mm, max. pressure: 7 bar.

Port 2 is a banjo that can be screwed directly into the actuator that is to be controlled.

On request:

- Products with port 1 in NPT
- Products normally open
- 2/2-way version

Available with solenoid operators: 230V/50Hz, 24V/50Hz, 24V=.

Valves are generally equipped with manual override.

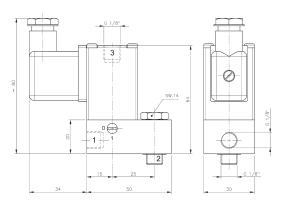
Connector Industry B (22 mm). Flying leads on request.

MH 311 313 and MH 311 317 are designed for piloting angle seat valves or small spring-return actuators.

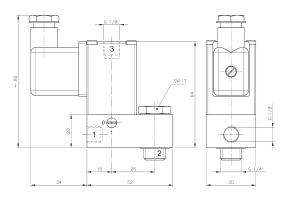
When assembling this type of valve to a spring-return actuator, please take into consideration that there is no exhaust air recirculation ("purge").

Instead of the standard banjo-screw, the valve can also be equipped with a flow-regulating banjo-screw.

Three different versions are available on request: Banjo-screw to regulate the opening speed, the closing speed as well as the opening and closing speed (not independent).



MH 311 313

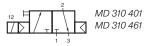


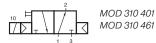
MH 311 317



Туре	Function		Port		Air flow	Operating	Power	Weight
		1	2 banjo	3		pressure	consumption	
MH 311 313	n.c.	G 1/8"	G 1/8"	G 1/8"	150 l/min	0 - 7 bar	$7,5 W = /8,5 VA \sim$	0,21 kg
MH 311 317	n.c.	G 1/8"	G 1/4"	G 1/8"	150 I/min	0 - 7 bar	$7,5 W = /8,5 VA \sim$	0,22 kg

MD 310 401/MD 310 461 MOD 310 401/MOD 310 461





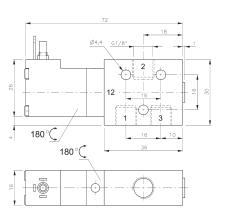


3/2-way solenoid valve normally closed (MD) or normally open (MOD) actuated by permanent signal and equipped with air spring return.

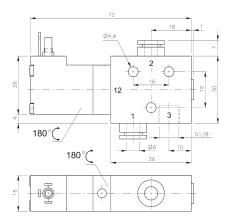
Available with solenoid operators:

24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm. For details about solenoid system, please refer to page 2.14.1.

Valves are generally equipped with manual override to push.



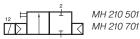
MD 310 401/MOD 310 401



MD 310 461/MOD 310 461

Туре	Function	Port size	Air flow	Operating	Power	Weight
		1 and 2		pressure	consumption	
MD 310 401	n.c.	G 1/8"	450 I/min	3 - 10 bar	1,8 W =	0,09 kg
MD 310 461	n.c.	pif 6 mm	450 I/min	3 - 10 bar	1,8 W =	0,10 kg
MOD 310 401	n.o.	G 1/8"	450 I/min	3 - 10 bar	1,8 W =	0,09 kg
MOD 310 461	n.o.	pif 6 mm	450 I/min	3 - 10 bar	1,8 W =	0,10 kg

MH 210 501/MH 210 701



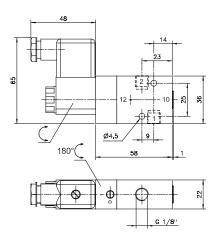


2/2-way solenoid valve, normally closed, actuated by permanent signal and equipped with air spring return.

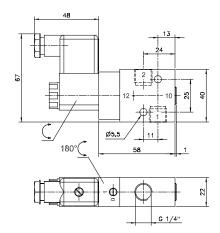
Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves are generally equipped with manual override.

Normally open version (MOH) on request.



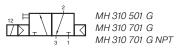
MH 210 501

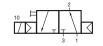


MH 210 701

Туре	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 210 501	G 1/8"	650 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,20 kg	€ x >
MH 210 701	G 1/4"	1250 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,21 kg	€x>

MH 310 501 G/MH 310 701 G MOH 310 501 G/MOH 310 701 G





MOH 310 501 G MOH 310 701 G MOH 310 701 G NPT





 $3/2\mbox{-way}$ solenoid valve normally closed (MH) or normally open (MOH) actuated by permanent signal and equipped with air spring return.

The G-Series valves offer the flexibility of in-line fitment as well as the option of being assembled on to a manifold as shown. Manifolds are displayed on page 2.7.1.3.

Normally open and normally closed products can be mixed on one plate.

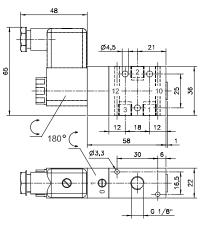
Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves are generally equipped with manual override. If requested without manual override please order M 310 $___/$ MO 310 $___.$

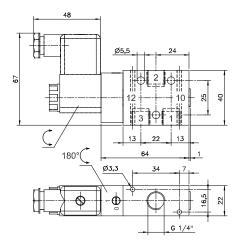
Please note:

Do not close port 3 to convert into a 2-way valve.

Bistable double solenoid versions type "MH 320" available on request.



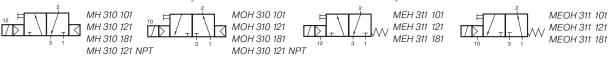
MH 310 501 G/MOH 310 501 G



MH 310 701 G/MOH 310 701 G MH 310 701 G NPT/ MOH 310 701 G NPT

Туре	Function	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 310 501 G	n.c.	G 1/8"	650 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,20 kg	⟨£x⟩
MH 310 701 G	n.c.	G 1/4"	1250 I/min	2 - 10 bar	$3W = /5VA \sim$	0,21 kg	€x}MK
MOH 310 501 G	n.o.	G 1/8"	650 I/min	2 - 10 bar	$3W = /5VA \sim$	0,20 kg	⟨£x⟩
MOH 310 701 G	n.o.	G 1/4"	1250 I/min	2 - 10 bar	$3W = /5VA \sim$	0,21 kg	€x}MK
MH 310 701 G NPT	n.c.	1/4" NPT	1250 I/min	2 - 10 bar	$3W = /5VA \sim$	0,21 kg	⟨€x⟩
MOH 310 701 G NPT	n.o.	1/4" NPT	1250 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,21 kg	⟨£x⟩

MH 310 101/MH 310 121/MH 310 181 MOH 310 101/MOH 310 121/MOH 310 181





3/2-way solenoid valve normally closed (MH) or normally open (MOH) actuated by permanent signal and equipped with air spring return.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves are generally equipped with manual override. If requested without manual override please order M 310 _ _ _ / MO 310 _ _ _ .

Valves are also available with external pilot feed. Type: MEH 311 $_$ (n.c.) or MEOH 311 $_$ (n.o.). Port 12: G 1/8".

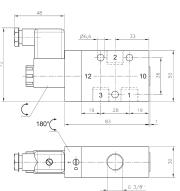
Minimum actuation pressure: 3 bar. Operating pressure: 0 - 10 bar. Version for vacuum on request.

Please note:

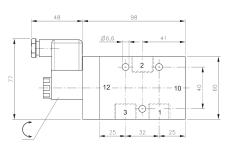
Do not close port 3 to convert into a 2-way valve.

Valve type M(O)H 310 101 G for manifolds displayed on page 2.7.2.4.

Bistable double solenoid versions type "MH 320" available on request.

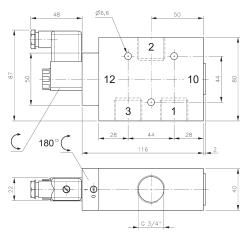


MH 310 101/MOH 310 101





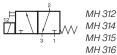
MH 310 121/MOH 310 121 MH 310 121 NPT/MOH 310 121 NPT



MH 310 181/MOH 310 181

Туре	Function	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 310 101	n.c.	G 3/8"	2250 I/min	1,5 - 10 bar	$3 W = / 5 VA \sim$	0,41 kg	⟨£x⟩
MH 310 121	n.c.	G 1/2"	3000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,53 kg	(ξx) ∎ 15
MH 310 181	n.c.	G 3/4"	6000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,88 kg	
MOH 310 101	n.o.	G 3/8"	2250 I/min	1,5 - 10 bar	$3 W = / 5 VA \sim$	0,41 kg	⟨€x⟩
MOH 310 121	n.o.	G 1/2"	3000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,53 kg	⟨€x⟩ 🛔
MOH 310 181	n.o.	G 3/4"	6000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,88 kg	
MH 310 121 NPT	n.c.	1/2" NPT	3000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,53 kg	⟨£x⟩ 👬
MOH 310 121 NPT	n.o.	1/2" NPT	3000 I/min	1 - 10 bar	3 W = / 5 VA ~	0,53 kg	(ξx) ₃16

MH 312/MH 314/MH 315/MH 316





System consisting of direct actuated 3/2 way solenoid valves actuated by permanent signal and a manifold plate for common pressure supply (1). Exhaust through the operator tube.

Normally closed with manual override to turn. Exhaust at the top of the operator tube, ported M5. Common exhaust line to be assembled on the top using banjo joints is available on request.

Available with solenoid operators 230V/50 Hz, 110V/50 Hz, 24V/50 Hz, 48V=, 24V=. 12V=.

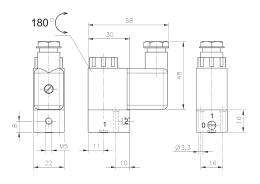
Different types of valves can be mixed on one plate.

Manifolds are displayed on page 2.7.1.1.

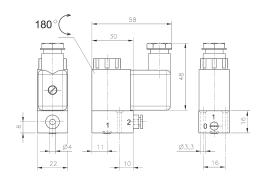
Blanking plates are also available: Type no. BP 3.

Mounting screws and seals are included.

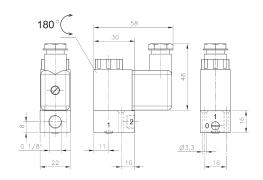
Valves can be used for technical vacuum too.



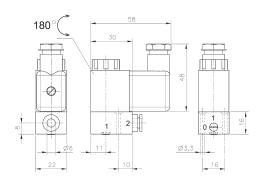
MH 312



MH 314



MH 315



MH 316

Туре	Function	Port 2	Air flow	Operating press.	Power consumption	Weight	
MH 312	n.c.	M5	40 l/min	-0,9 - 10 bar	$3 W = / 5 VA \sim$	0,13 kg	⟨£x⟩
MH 314	n.c.	pif 4 mm	40 l/min	-0,9 - 10 bar	$3W = /5VA \sim$	0,13 kg	
MH 315	n.c.	G 1/8"	50 I/min	-0,9 - 10 bar	$3 W = / 5 VA \sim$	0,13 kg	⟨£x⟩
MH 316	n.c.	pif 6 mm	50 I/min	-0,9 - 10 bar	$3 W = / 5 VA \sim$	0,13 kg	

MH 339/MH 239/R 33 R/R 33 L





Modular system consisting of direct acting 3/2-way or 2/2-way solenoid valves normally closed, actuated by permanent signal and endplates for common pressure supply (1). Port 2 is in the valve, G 1/4", exhaust through the operator tube, thread G 1/8". By opening 2 hexagonsocket screws at the bodies the system can be taken apart at any point and valves can be added or taken away.

Valves:

Type MH 339: 3/2-way – drawings show 3/2-way valves

Type MH 229: 2/2-way – 2/2-way without port 3

Orifice size: 3 mm, max. pressure: 7 bar.

Available with solenoid operators: 230V/50Hz, 24V/50Hz, 24V= Connector Industry B (22 mm). Flying leads on request.

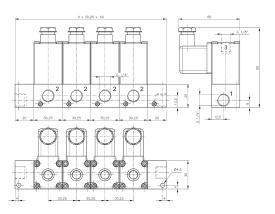
Valves are generally equipped with manual override.

The system consits of:

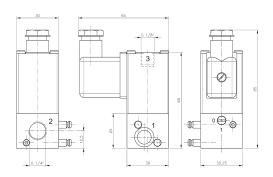
End-plate right type R 33 R End-plate left type R 33 L Individual valve 3/2-way type MH 339 Individual valve 2/2-way type MH 229

The end-plates can be equipped with DIN-rail mounting clips. For details, please refer to page 2.9.7.

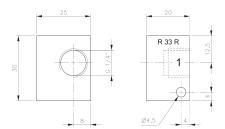
Products are to be ordered individually but system can be delivered fully assembled.



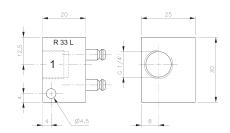
Modular system MH 339/MH 239



Individual valve MH 339/MH 239



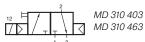
End-plate right R 33 R

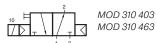


End-plate left R 33 L

Туре	Ways	Function		Port siz	е	Air flow	Operating	Power	Weight
			1	2	3		pressure	consumption	
MH 339	3/2	n.c.		G 1/4"	G 1/8"	200 I/min	0 - 7 bar	7,5 W = $/8,5$ VA \sim	0,18 kg
MH 239	2/2	n.c.		G 1/4"		200 I/min	0 - 7 bar	$7,5 W = /8,5 VA \sim$	0,18 kg
R 33 R		end-plate right	G 1/4"						0,04 kg
R 33 L		end-plate left	G 1/4"						0,04 kg

MD 310 403/MD 310 463 MOD 310 403/MOD 310 463







3/2-way solenoid valve normally closed (MD) or normally open (MOD) for assembling on a manifold plate. Port 2 in the valve.

Available with solenoid operators: 24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm.

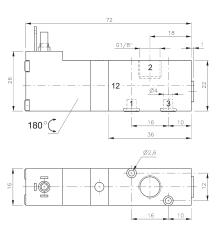
For details about solenoid system, please refer to page 2.14.1.

Valves are generally equipped with manual override to push.

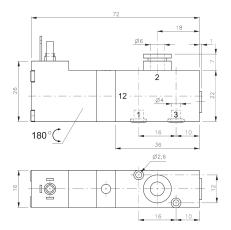
Manifolds are displayed on page 2.7.1.2.

Valves normally open and normally closed can be mixed on one manifold plate!

Blanking plates are also available type BP 3 403.



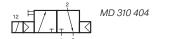
MD 310 403/MOD 310 403

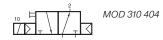


MD 310 463/MOD 310 463

Туре	Function	Port size	Air flow	Operating press.	Power consumption	Weight
MD 310 403	n.c.	G 1/8"	450 l/min	3 - 10 bar	1,8 W =	0,09 kg
MD 310 463	n.c.	pif 6 mm	450 I/min	3 - 10 bar	1,8 W =	0,09 kg
MOD 310 403	n.o.	G 1/8"	450 l/min	3 - 10 bar	1,8 W =	0,09 kg
MOD 310 463	n.o.	pif 6 mm	450 l/min	3 - 10 bar	1,8 W =	0,09 kg

MD 310 404/MOD 310 404







 $3/2\mbox{-way}$ solenoid valve normally closed (MD) or normally open (MOD) for assembling on a manifold plate. All the ports are in the plate.

Available with solenoid operators:

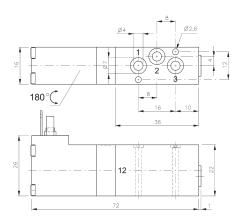
24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm. For details about solenoid system, please refer to page 2.14.1.

Valves are generally equipped with manual override to push.

Manifolds are displayed on page 2.7.1.2.

Valves normally open and normally closed can be mixed on one manifold plate!

Blanking plates are also available type BP 3 404.



MD 310 404/MOD 310 404

Туре	Function	Air flow	Operating press.	Power consumption	Weight
MD 310 404	n.c.	450 l/min	3 - 10 bar	1,8 W =	0,09 kg
MOD 310 404	n.o.	450 I/min	3 - 10 bar	1,8 W =	0,09 kg

MH 331 701 G/MH 331 121 G







G-Series 501 G/701 G





3/3-way solenoid valve with spring return to middle position, actuated by permanent signal. Valve is to be used when a single acting cylinder or any other single acting actuator such as a lifting bag or car-suspension needs to be held in an intermediate position.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

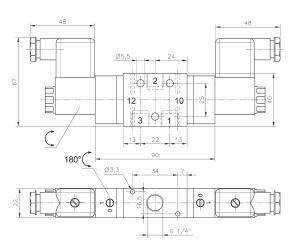
The G-Series valves offer the flexibility of in-line fitment as well as the option of being assembled on to a manifold as shown. Plates are displayed on page 2.7.1.3.

Valves G 1/2" have to be assembled onto the plate by fixing screws from the bottom through the plate into the valve.

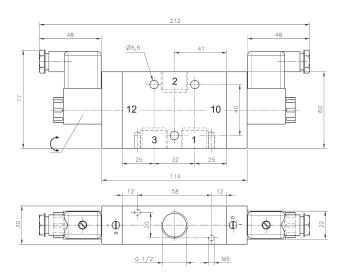
Valves are generally equipped with manual override to turn.

Please note:

Valves will be discontinued.



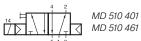
MH 331 701 G



MH 331 121 G

Туре	Port size	Air flow	Operating press.	Power consumption	Weight
MH 331 701 G	G 1/4"	1250 I/min	3 - 10 bar	$3 W = / 5 VA \sim$	0,32 kg
MH 331 121 G	G 1/2"	3000 I/min	3 - 10 bar	$3 W = / 5 VA \sim$	0,72 kg

MD 510 401/MD 510 461



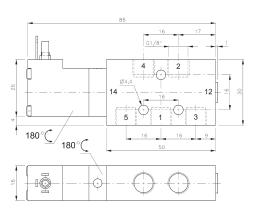


5/2-way solenoid valve actuated by permanent signal and equipped with air spring return.

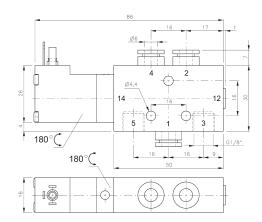
Available with solenoid operators:

24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm. For details about solenoid system, please refer to page 2.14.1.

Valves are generally equipped with manual override to push.



MD 510 401

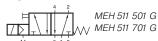


MD 510 461

Туре	Ports 1, 2, 4	Air flow	Operating press.	Power consumption	Weight
MD 510 401	G 1/8"	450 l/min	3 - 10 bar	1,8 W =	0,10 kg
MD 510 461	pif 6 mm	450 I/min	3 - 10 bar	1,8 W =	0,12 kg

MH 510 501 G/MH 510 701 G









5/2-way solenoid valve actuated by permanent signal and equipped with air spring return.

The G-Series valves offer the flexibility of in-line fitment as well as the option of being assembled on to a manifold as shown. Manifolds for valves type 501 G are displayed on page 2.7.2.2, manifolds for valves type 701 G are displayed on page 2.7.2.3.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves are generally equipped with manual override. If requested without manual override please order M 510 _ _ _.

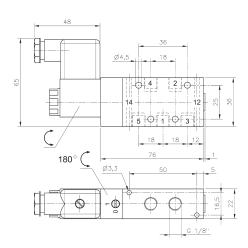
Valves are also available with external pilot feed.

Type: MEH 511 $__$ G.

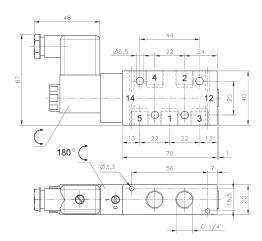
Port 14: M5.

Minimum actuation pressure: 3 bar. Operating pressure: 0 - 10 bar.

Version for vacuum on request.



MH 510 501 G



MH 510 701 G/MH 510 701 G NPT

Туре	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 510 501 G	G 1/8"	650 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,23 kg	€x>
MH 510 701 G	G 1/4"	1250 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,25 kg	€x\\X
MH 510 701 G NPT	1/4" NPT	1250 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,25 kg	€ x >

MH 510 101/MH 510 121/MH 510 181





5/2-way solenoid valve actuated by permanent signal and equipped with air spring return.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves are generally equipped with manual override.

If requested without manual override please order M 510 _ _ _.

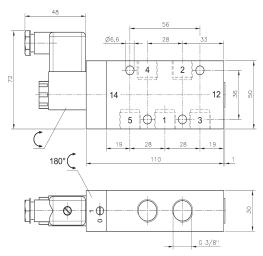
Valves are also available with external pilot feed.

Type: MEH 511 _ _ _.
Port 14: G 1/8".

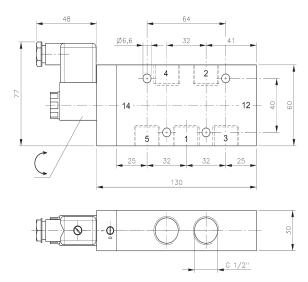
Minimum actuation pressure: 3 bar. Operating pressure: 0 - 10 bar.

Version for vacuum on request.

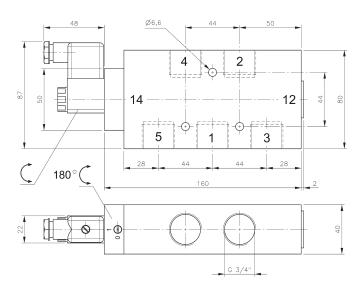
Valve type MH 510 101 G for manifolds displayed on page 2.7.2.4 and valve type MH 510 121 G for manifolds displayed on page 2.7.2.5.



MH 510 101



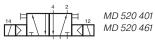
MH 510 121/MH 510 121 NPT



MH 510 181

Туре	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 510 101	G 3/8"	2250 I/min	1,5 - 10 bar	$3 W = / 5 VA \sim$	0,50 kg	€x
MH 510 121	G 1/2"	3000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,67 kg	€x
MH 510 181	G 3/4"	6000 l/min	1 - 10 bar	$3 W = / 5 VA \sim$	1,29 kg	
MH 510 121 NPT	1/2" NPT	3000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,67 kg	Œχ

MD 520 401/MD 520 461



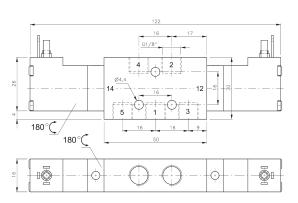


5/2-way double solenoid valve actuated by impulse. Position is kept until an electrical signal is applied to the opposite side even when not attached to electrical source.

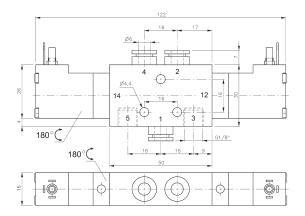
Available with solenoid operators:

24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm. For details about solenoid system, please refer to page 2.14.1.

Valves are generally equipped with manual override to push.



MD 520 401



MD 520 461

Туре	Ports 1, 2, 4	Air flow	Operating press.	Power consumption	Weight
MD 520 401	G 1/8"	450 l/min	3 - 10 bar	1,8 W =	0,15 kg
MD 520 461	pif 6 mm	450 l/min	3 - 10 bar	1,8 W =	0,16 kg

MH 520 501 G/MH 520 701 G



MH 520 501 G MH 520 701 G



MEH 520 501 G MEH 520 701 G



5/2-way double solenoid valve actuated by impulse. Position is kept until an electrical signal is applied to the opposite side even when not attached to electrical source.

The G-Series valves offer the flexibility of in-line fitment as well as the option of being assembled on to a manifold as shown. Manifolds for valves type 501 G are displayed on page 2.7.2.2, manifolds for valves type 701 G are displayed on page 2.7.2.3.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

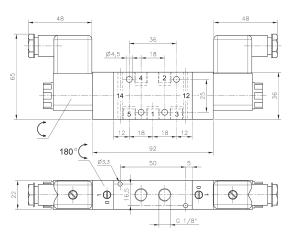
Valves are generally equipped with manual override. If requested without manual override please order M 520 _ _ _.

Valves are also available with external pilot feed.

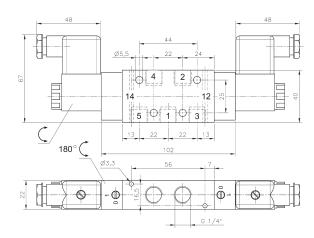
Type: MEH 520 _ _ _ G. Ports 12 and 14: M5.

Minimum actuation pressure: 2,5 bar. Operating pressure: 0 - 10 bar.

Version for vacuum on request.



MH 520 501 G



MH 520 701 G/MH 520 701 G NPT

Туре	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 520 501 G	G 1/8"	650 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,33 kg	€ x
MH 520 701 G	G 1/4"	1250 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,35 kg	€X¥K
MH 520 701 G NPT	1/4" NPT	1250 l/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,35 kg	€ x >

MH 520 101/MH 520 121/MH 520 181



MH 520 101 MH 520 121 MH 520 181 MH 520 121 NPT



MEH 520 101 MEH 520 121 MEH 520 181



5/2-way double solenoid valve actuated by impulse. Position is kept until an electrical signal is applied to the opposite side even when not attached to electrical source.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves are generally equipped with manual override. If requested without manual override please order M 520 _ _

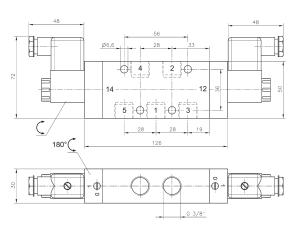
Valves are also available with external pilot feed.

Type: MEH 520 _ _ .
Ports 12 and 14: G 1/8".

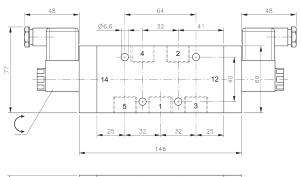
Minimum actuation pressure: 2,5 bar. Operating pressure: 0 - 10 bar.

Version for vacuum on request.

Valve type MH 520 101 G for manifolds displayed on page 2.7.2.4 and valve type MH 520 121 G for manifolds displayed on page 2.7.2.5.

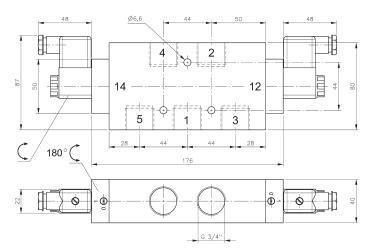


MH 520 101





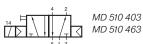
MH 520 121/MH 520 121 NPT



MH 520 181

Туре	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 520 101	G 3/8"	2250 I/min	1,5 - 10 bar	$3 W = / 5 VA \sim$	0,66 kg	⟨Ex⟩
MH 520 121	G 1/2"	3000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,84 kg	(ξx) 316
MH 520 181	G 3/4"	6000 l/min	1 - 10 bar	$3 W = / 5 VA \sim$	1,45 kg	
MH 520 121 NPT	1/2" NPT	3000 l/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,84 kg	(ξχ) 3 16

MD 510 403/MD 510 463





5/2-way solenoid valve actuated by permanent signal and equipped with air spring return. Ports 2 and 4 are in the valve, ports 1, 3 and 5 in the manifold plate.

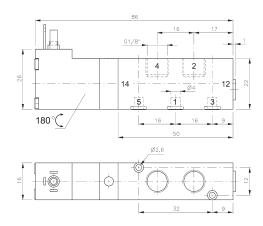
Available with solenoid operators:

24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm. For details about solenoid system, please refer to page 2.14.1.

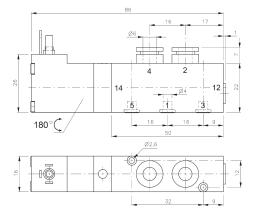
Valves are generally equipped with manual override to push.

Manifolds are displayed on page 2.7.2.1.

Blanking plates are also available type BP 5 403.



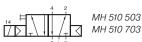
MD 510 403



MD 510 463

Туре	Ports 1, 2, 4	Air flow	Operating press.	Power consumption	Weight
MD 510 403	G 1/8"	450 l/min	3 - 10 bar	1,8 W =	0,10 kg
MD 510 463	pif 6 mm	450 l/min	3 - 10 bar	1,8 W =	0,12 kg

MH 510 503/MH 510 703





5/2-way solenoid valve actuated by permanent signal and equipped with air spring return. Ports 2 and 4 are in the valve, ports 1, 3 and 5 in the manifold plate.

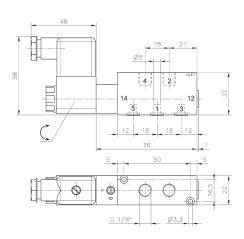
Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves are generally equipped with manual override.

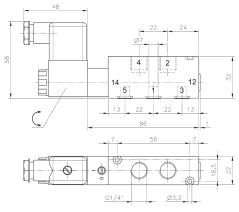
If requested without manual override please order M 510 _ _ _.

Manifolds for valves type 503 are displayed on page 2.7.2.2, manifolds for valves type 703 are displayed on page 2.7.2.3.

Blanking plates are also available type BP 5 503 or BP 5 703.



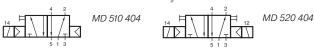
MH 510 503



MH 510 703

Туре	Ports 2, 4	Air flow	Operating press.	Power consumption	Weight	
MH 510 503	G 1/8"	650 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,22 kg	MK
MH 510 703	G 1/4"	1250 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,23 kg	MK

MD 510 404/MD 520 404/MD 53_ 404











5-way solenoid valves with all the ports in the plate.

Type 510 Air spring return

Type 520 Double solenoid actuated by impulse

Type 531 centre closed
Type 532 centre exhausted
Type 533 centre pressurised

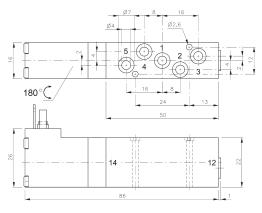
Available with solenoid operators:

24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm.

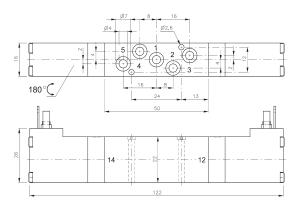
For details about solenoid system, please refer to page 2.14.1.

Valves are generally equipped with manual override to push.

Manifolds are displayed on page 2.7.2.6. Blanking plates are also available type or BP 5 404.



MD 510 404

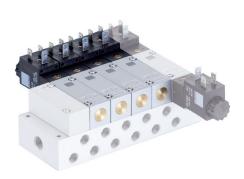


MD 520 404/MD 53_404

Туре	Function	Port size	Air low	Operating press.	Power consumption	Weight
MD 510 404	Spring return	Ø 4 mm	450 I/min	3 - 10 bar	1,8 W =	0,10 kg
MD 520 404	Bistable	Ø 4 mm	450 l/min	3 - 10 bar	1,8 W =	0,14 kg
MD 53_404	5/3-way	Ø 4 mm	450 I/min	3 - 10 bar	1,8 W =	0,14 kg

MH 510 304/MH 510 504/MH 510 704





5/2-way solenoid valve actuated by permanent signal and equipped with air spring return. All the ports are in the plate.

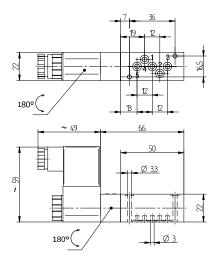
Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves are generally equipped with manual override.

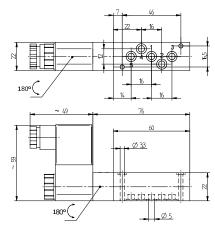
If requested without manual override please order M 510 _ _ _.

Manifolds for valves type 304 and 504 are displayed on page 2.7.2.7. Manifolds for valves type 704 are displayed on page 2.7.2.8 and 2.7.2.9.

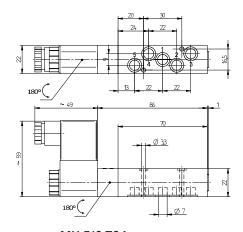
Blanking plates are also available type BP $5\,304$, BP $5\,504$ or BP $5\,704$.



MH 510 304



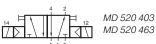
MH 510 504



MH 510 704

Туре	Port size	Air flow	Operating press.	Power cons.	Weight	
MH 510 304	Ø 3 mm	220 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,18 kg	
MH 510 504	Ø 5 mm	650 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,19 kg	€x¥K
MH 510 704	Ø 7 mm	1250 l/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,20 kg	€X¥KK

MD 520 403/MD 520 463





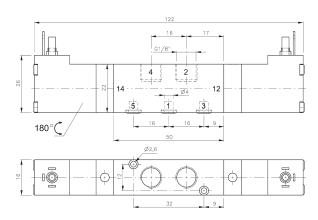
5/2-way double solenoid valve actuated by impulse. Position is kept until an electrical signal is applied to the opposite side even when not attached to electrical source. Ports 2 and 4 are in the valve, ports 1, 3 and 5 in the manifold plate.

Available with solenoid operators: 24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm. For details about solenoid system, please refer to page 2.14.1.

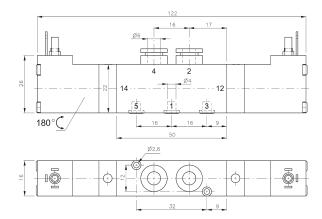
Valves are generally equipped with manual override to push.

Manifolds are displayed on page 2.7.2.1.

Blanking plates are also available type BP 5 403.



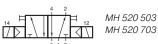
MD 520 403



MD 520 463

Туре	Ports 1, 2, 4	Air flow	Operating press.	Power consumption	Weight
MD 520 403	G 1/8"	450 I/min	3 - 10 bar	1,8 W =	0,14 kg
MD 520 463	pif 6 mm	450 l/min	3 - 10 bar	1,8 W =	0,15 kg

MH 520 503/MH 520 703





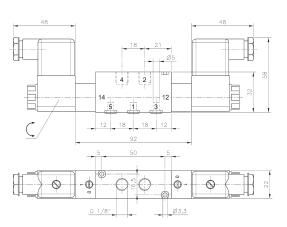
5/2-way double solenoid valve actuated by impulse. Position is kept until an electrical signal is applied to the opposite side even when not attached to electrical source. Ports 2 and 4 are in the valve, ports 1, 3 and 5 in the manifold plate.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

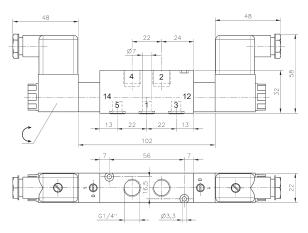
Valves are generally equipped with manual override. If requested without manual override please order M 520 _ _ _.

Manifolds for valves type 503 are displayed on page 2.7.2.2, manifolds for valves type 703 are displayed on page 2.7.2.3.

Blanking plates are also available type BP 5 503 or BP 5 703.



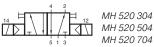
MH 520 503

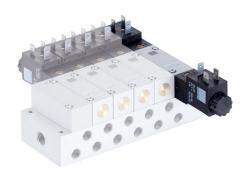


MH 520 703

Туре	Ports 2, 4	Air flow	Operating press.	Power consumption	Weight	
MH 520 503	G 1/8"	650 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,31 kg	MK
MH 520 703	G 1/4"	1250 I/min	2 - 10 bar	$3W = /5VA \sim$	0,33 kg	MK

MH 520 304/MH 520 504/MH 520 704





5/2-way double solenoid valve actuated by impulse. Position is kept until an electrical signal is applied to the opposite side even when not attached to electrical source. All the ports are in the plate.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

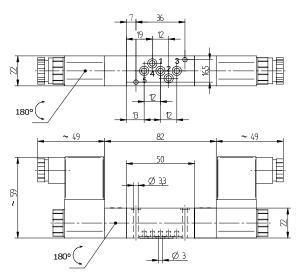
Valves are generally equipped with manual override.

If requested without manual override please order M 520 _ _ _.

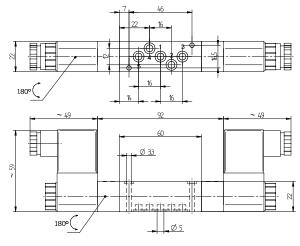
Manifolds for valves type 304 and 504 are displayed on page 2.7.2.7.

Manifolds for valves type 704 are displayed on page 2.7.2.8 and 2.7.2.9.

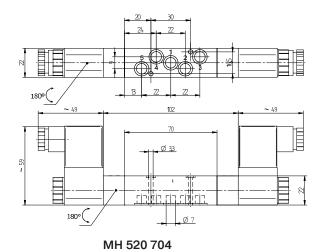
Blanking plates are also available type BP 5 304, BP 5 504 or BP 5 704.



MH 520 304

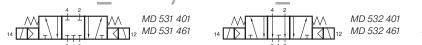


MH 520 504



Туре	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 520 304	Ø 3 mm	220 I/min	2 - 10 bar	$3W = /5VA \sim$	0,25 kg	
MH 520 504	Ø 5 mm	650 I/min	2 - 10 bar	$3W = /5VA \sim$	0,27 kg	€x};kK
MH 520 704	Ø 7 mm	1250 I/min	2 - 10 bar	$3W = /5VA \sim$	0,29 kg	€X¥XK

MD 53_401/MD 53_461





5/3-way solenoid valve with spring return to middle position, actuated by permanent signal.

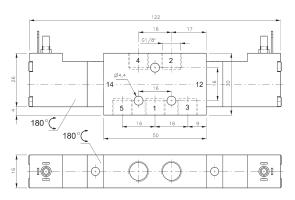
Type 531 centre closed
Type 532 centre exhausted
Type 533 centre pressurised

When ordering please complete the type number by 1, 2 or 3 according to the type required.

Available with solenoid operators:

24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm. For details about solenoid system, please refer to page 2.14.1.

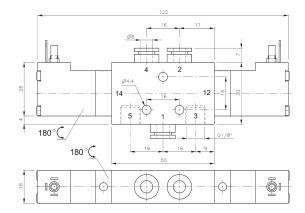
Valves are generally equipped with manual override to push.



MD 533 401

MD 533 461

MD 53_401



MD 53_461

Туре	Ports 1, 2, 4	Air flow	Operating press.	Power consumption	Weight
MD 53_401	G 1/8"	450 I/min	3 - 10 bar	1,8 W =	0,15 kg
MD 53_461	pif 6 mm	450 I/min	3 - 10 bar	1,8 W =	0,16 kg

MH 53_ 501 G/MH 53_ 701 G





5/3-way solenoid valve with spring return to middle position, actuated by permanent signal.

Type 531 centre closed
Type 532 centre exhausted
Type 533 centre pressurised

When ordering please complete the type number by 1, 2 or 3 according to the type required.

The G-Series valves offer the flexibility of in-line fitment as well as the option of being assembled on to a manifold as shown. Manifolds for valves type 501 G are displayed on page 2.7.2.2, manifolds for valves type 701 G are displayed on page 2.7.2.3.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

Valves are generally equipped with manual override. If requested without manual override please order M 53_{-} G.

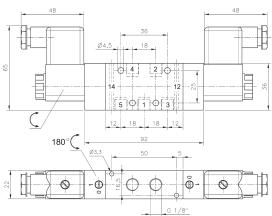
Valves are also available with external pilot feed.

Type: MEH 53 _ _ _ G (please add 1 digit for type and 3 digits for size).

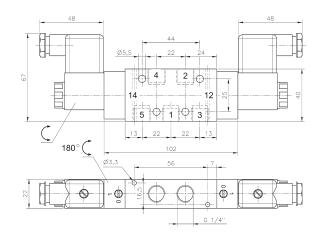
Ports 12 and 14: M5.

Minimum actuation pressure: 3 bar. Operating pressure: 0-10 bar.

Version for vacuum on request.



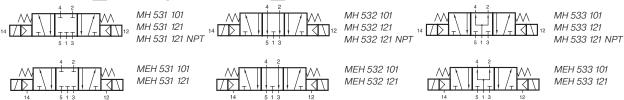
MH 53_ 501 G



MH 53_701 G/MH 53_701 G NPT

Туре	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 53_ 501 G	G 1/8"	650 I/min	3 - 10 bar	$3 W = / 5 VA \sim$	0,33 kg	⟨£x⟩
MH 53_ 701 G	G 1/4"	1250 I/min	3 - 10 bar	$3W = /5VA \sim$	0,35 kg	€x}; MK • 15
MH 53_ 701 G NPT	1/4" NPT	1250 I/min	3 - 10 bar	$3 W = / 5 VA \sim$	0,35 kg	€ x

MH 53_ 101/MH 53_ 121





5/3-way solenoid valve with spring return to middle position, actuated by permanent signal.

Type 531 centre closed
Type 532 centre exhausted
Type 533 centre pressurised

When ordering please complete the type number by 1, 2 or 3 according to the type required.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V =, 12V=.

Valves are generally equipped with manual override. If requested without manual override please order M 53

Valves are also available with external pilot feed.

Type: MEH 53 _ _ _ (please add 1 digit for type and 3 digits for size).

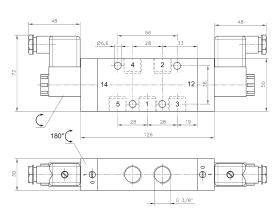
Ports 12 and 14: G 1/8".

Minimum actuation pressure: 3 bar. Operating pressure: 0-10 bar.

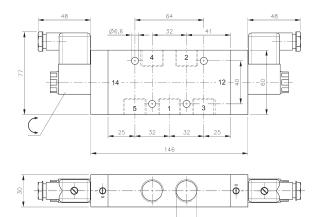
Version for vacuum on request.

Valve type MH 53_101 G for manifolds displayed on page 2.7.2.4 and valve type MH 53_121 G for manifolds displayed on page 2.7.2.5.

G 3/4" versions available on request.



MH 53_101



MH 53_121/MH 53_ 121 NPT

(ξ_x) 👬

Туре	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 53_ 101	G 3/8"	2250 I/min	1,5 - 10 bar	$3 W = / 5 VA \sim$	0,66 kg	<
MH 53_ 121	G 1/2"	3000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,84 kg	(
MH 53_ 121 NPT	1/2" NPT	3000 l/min	1 - 10 bar	$3 W = / 5 VA \sim$	0,84 kg	(

MD 53_403/MD 53_463









5/3-way solenoid valve with spring return to middle position, actuated by permanent signal. Ports 2 and 4 are in the valve, ports 1, 3 and 5 in the manifold plate.

Type 531 centre closed
Type 532 centre exhausted
Type 533 centre pressurised

When ordering please complete the type number by 1, 2 or 3 according to the type required.

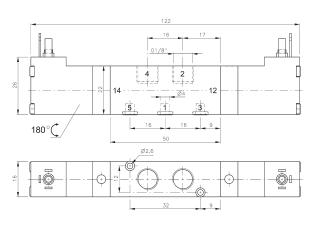
Available with solenoid operators:

24V=, 12V=, 6V= either for connector form C ISO 15217 or with flying leads, standard cable length 500 mm. For details about solenoid system, please refer to page 2.14.1.

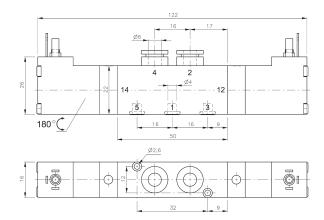
Valves are generally equipped with manual override to push.

Manifolds are described on page 2.7.2.1.

Blanking plates are also available type BP 5 403.



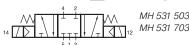
MD 53_403



MD 53_463

Туре	Ports 1, 2, 4	Air flow	Operating press.	Power consumption	Weight
MD 53_ 403	G 1/8"	450 l/min	3 - 10 bar	1,8 W =	0,14 kg
MD 53_463	pif 6 mm	450 l/min	3 - 10 bar	1,8 W =	0,15 kg

MH 53_ 503/MH 53_ 703



MH 532 503 MH 532 703 MH 533 503 MH 533 703



5/3-way solenoid valve with spring return to middle position, actuated by permanent signal. Ports 2 and 4 are in the valve, ports 1, 3 and 5 in the manifold plate.

Type 531 centre closed
Type 532 centre exhausted
Type 533 centre pressurised

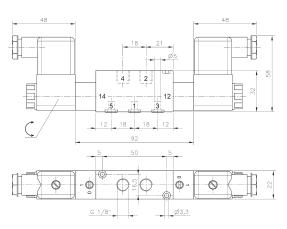
When ordering please complete the type number by 1, 2 or 3 according to the type required.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

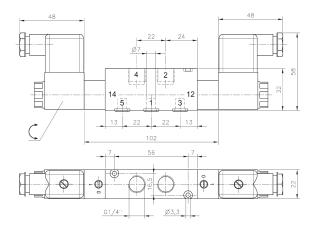
Valves are generally equipped with manual override. If requested without manual override please order M 53____ (please add 1 digit for type and 3 for size).

Manifolds for valves type 503 are displayed on page 2.7.2.2, manifolds for valves type 703 are displayed on page 2.7.2.3.

Blanking plates are also available type BP $5\,503$ or BP $5\,703$.



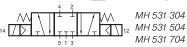
MH 53_503



MH 53_703

Туре	Ports 2, 4	Air flow	Operating press.	Power consumption	Weight	
MH 53_ 503	G 1/8"	650 I/min	3 - 10 bar	$3 W = / 5 VA \sim$	0,31 kg	MK
MH 53_ 703	G 1/4"	1250 I/min	3 - 10 bar	$3 W = / 5 VA \sim$	0,33 kg	MK

MH 53_ 304/MH 53_ 504/MH 53_ 704









5/3-way solenoid valve with spring return to middle position, actuated by permanent signal. All the ports are in the plate.

Type 531 centre closed
Type 532 centre exhausted
Type 533 centre pressurised

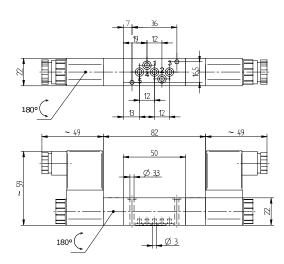
When ordering please complete the type number by 1, 2 or 3 according to the type required.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=.

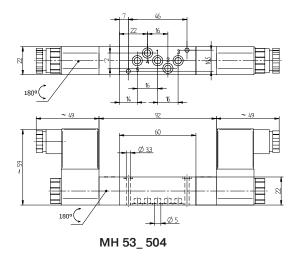
Valves are generally equipped with manual override. If requested without manual override please order M 53____ (please add 1 digit for type and 3 for size).

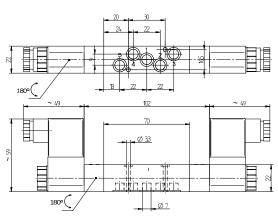
Manifolds for valves type 304 and 504 are displayed on page 2.7.2.7. Manifolds for valves type 704 are displayed on page 2.7.2.8 and 2.7.2.9.

Blanking plates are also available: Type no. BP 5 304, BP 5 504 or BP 5 704. Mounting screws and seals are included.



MH 53_304



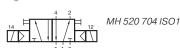


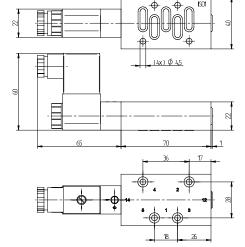
MH 53 704

Туре	Port size	Air flow	Operating press.	Power consumption	Weight	
MH 53_304	Ø 3 mm	220 I/min	3 - 10 bar	$3 W = / 5 VA \sim$	0,25 kg	
MH 53_ 504	Ø 5 mm	650 I/min	3 - 10 bar	3 W = / 5 VA ~	0,27 kg	€X¥XK
MH 53 704	Ø 7 mm	1250 I/min	3 - 10 bar	$3 W = / 5 VA \sim$	0,29 kg	€x;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

MH 510 704 ISO1/MH 520 704 ISO1 RP 5 704 ISO1







MH 510 704 ISO1



5-way solenoid valve and sub-base according to ISO 5599-1 size ISO 1.

Type 510 5/2-way single solenoid, with air spring return
Type 520 5/2-way double solenoid, actuated by impulse

5/3-way centre closed available on request.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 48V/50Hz, 24V/50 Hz, 24V=, 12V=.

Valves are generally equipped with manual override.

Mounting screws and seals are included.

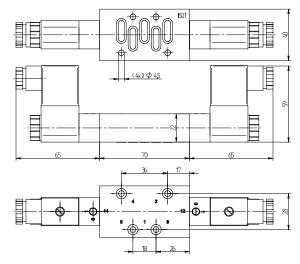
RP 5 704 ISO1

Single sub-base with 5 x G 1/4" threads.

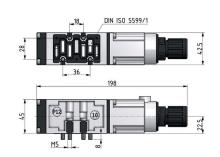
ISO.1 P12

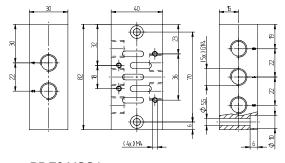
Flange-mounted pressure regulator which can be put between the sub-base and valve.

Adjustable pressure range: 0,5 - 10 bar



MH 520 704 ISO1





RP 704 ISO1

Туре	Port size	Air flow	Operating press.	Power consumption	Weight
MH 510 704 ISO 1	Ø7mm	1250 l/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,28 kg
MH 520 704 ISO1	Ø 7 mm	1250 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,39 kg
RP 5 704 ISO1	G 1/4"	1250 I/min		$3 W = / 5 VA \sim$	0,23 kg

MH 510 184 ISO4/MH 520 184 ISO4







5-way solenoid valve according to ISO 5599-1 size ISO 4.

Type 510 5/2-way single solenoid, with air spring return
Type 520 5/2-way double solenoid, actuated by impulse

5/3-way centre closed available on request.

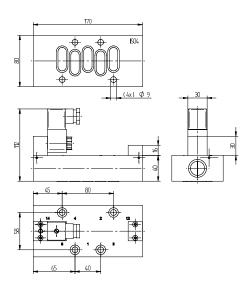
Valves can be used with industryform B coils (22 mm) type MA 22 displayed on page 2.14.2 as well as Form A coils (30 mm) type MA 30 S9 displayed on page 2.14.4.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 48V/50Hz, 24V/50 Hz, 24V=, 12V=.

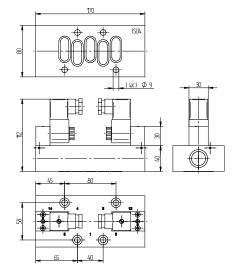
Valves are generally equipped with manual override.

Mounting screws and seals are included.

Manifolds are displayed on the next page.



MH 510 184 ISO4



MH 520 184 ISO4

Туре	Port size	Air flow	Operating press.	Power consumption		Weight
				With MA 22 coils	With MA 30 S9 coils	
MH 510 184 ISO4	Ø 18 mm	6000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	$2W = /3VA \sim$	1,55 kg
MH 520 184 ISO4	Ø 18 mm	6000 I/min	1 - 10 bar	$3 W = / 5 VA \sim$	$2 W = / 3 VA \sim$	1,70 kg

RB 5__ 184 K1 ISO4/RB 5__ 184 K2 ISO4



Modular manifold system according to ISO 5599-1 size ISO 4 with all ports on the bottom.

Plates are designed for assemblage in control cabinets.

Common connection to port 1 (pressure), 3 (exhaust) and 5 (exhaust). The ports 2 and 4 of the individual valves are also located in the manifold plate. The system can be build up and taken apart by just opening two hexagon socket screws. Additional stations can be added at any position and any time.

The following valves can be assembled to the system RB 5 $\,$ 184 K $\,$ ISO4:

5/2 single solenoid MH 510 184 ISO4 page 2.5.4.1.2 5/2 double solenoid MH 520 184 ISO4 page 2.5.4.1.2

3/2-way functions by closing either port 2 or 4.

The system consists of:

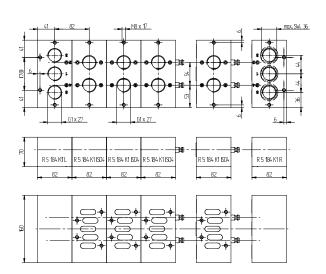
End-plate right type R 5 184 K1 R End-plate left type R 5 184 K1 L

Individual position type R 5 184 K1 ISO4 with G 1" ports type R 5 184 K2 ISO4 with G 3/4" ports

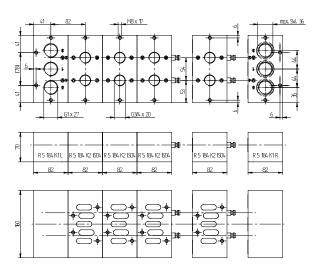
Please note:

End-plates are not offering an individual valve-position.

The plates can also be ordered assembled by the manufacturer. In this case order RB 5_ 184 K_ISO4. Please add two digits for the number of positions required and one digit for the thread size.



RB 5__ 184 K1 ISO4



RB 5__ 184 K2 ISO4

Туре	Function	Port size	Weight
R 5 184 K1 R	End-plate right		1,80 kg
R 5 184 K1 L	End-plate left		1,80 kg
R 5 184 K1 ISO4	Individual position	G 1"	1,80 kg
R 5 184 K2 ISO4	Individual position	G 3/4"	1,80 kg

MH 510 714 B/MH 510 714 BT MH 520 714 B/ MH 520 714 BT









5-way solenoid valve with standardized interface which is widely used in packaging machines for bulk materials such as cement.

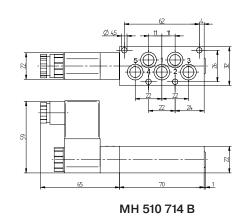
Type 510 5/2-way single solenoid, with air spring return
Type 520 5/2-way double solenoid, actuated by impulse

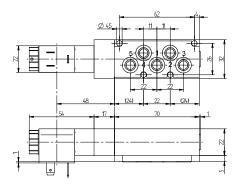
Type B For manifold assembly

Type BT For valve terminal assembly, including intermediate plate type ZP 714 BT

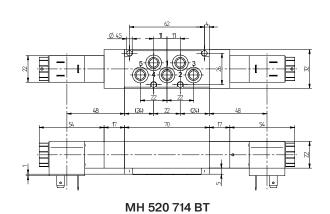
Available with solenoid operators: 230V/50Hz, 110V/50Hz, 48V/50Hz, 24V/50 Hz, 24V=, 12V=.

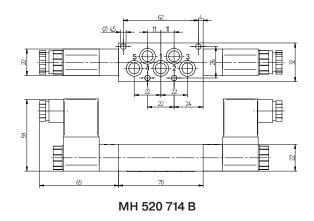
Valves are generally equipped with manual override.





MH 510 714 BT





Туре	Usage	Port size	Air flow	Operating press.	Power cons.	Weight
MH 510 714 B	Manifold	Ø7mm	1250 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,20 kg
MH 520 714 B	Manifold	Ø7mm	1250 l/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,29 kg
MH 510 714 BT	Valve Terminal	Ø7mm	1250 I/min	2 - 10 bar	$3 W = / 5 VA \sim$	0,30 kg
MH 520 714 BT	Valve Terminal	Ø7mm	1250 l/min	2 - 10 bar	3 W = / 5 VA ~	0,44 kg

MH 510 704 J/MH 520 704 J



MH 510 704 J



MH 520 704 J



5-way solenoid valve with standardized interface which is widely used in packaging machines for bulk materials such as cement.

Type 510 5/2-way single solenoid, with air spring return Type 520 5/2-way double solenoid, actuated by impulse

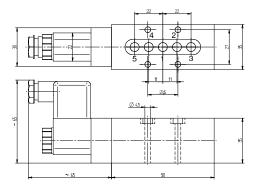
Available with solenoid operators: 230V/50Hz, 110V/50Hz, 48V/50Hz, 24V/50 Hz, 24V=, 12V=.

Valves are generally equipped with manual override.

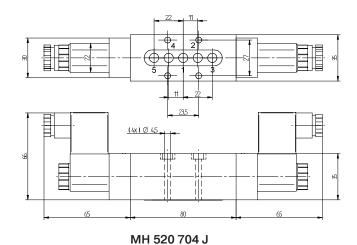
Mounting screws and seals are included.

Pneumatically actuated versions available on request.

Valves can be put onto the single base-plate type R 520 704 J which is displayed on the following page.



MH 510 704 J



Туре	Function	Port size	Air flow	Operating press.	Power cons.	Weight
MH 510 704 J	5/2-way single solenoid	Ø7mm	1250 I/min	1,5 - 10 bar	$3 W = / 5 VA \sim$	0,55 kg
MH 520 704 J	5/2-way double solenoid	Ø7mm	1250 I/min	1,5 - 10 bar	$3 W = / 5 VA \sim$	0,68 kg

SIMPG-5/1/R 520 704 J





SIMPG-5/1

5/2-way bistable valve with detent in both positions. Electric signal at 14 actuates the valve, the spool locks. If the electric signal is taken away, the valve stays in this position.

A pneumatic signal has to be applied to port 12 to change the position again.

Pilot port 14 is not an external pilot feed but an additional signal can be taken, when solenoid is actuated.

Valves can be used with industryform B coils (22 mm) type MA 22 displayed on page 2.14.2 as well as Form A coils (30 mm) type MA 30 S9 displayed on page 2.14.4.

Available with solenoid operators: 230V/50Hz, 110V/50Hz, 48V/50Hz, 24V/50 Hz, 24V=, 12V=.

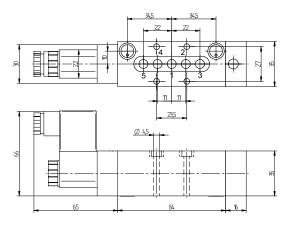
Valve is generally equipped with manual override.

Mounting screws and seals are included.

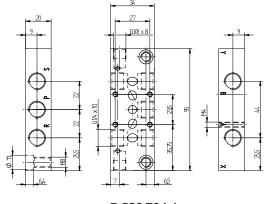
Pneumatically actuated versions available on request.

R 520 704 J

Single base-plate for valves type MH $5_704\,\mathrm{J}$ and SIMPG-5/1.



SIMPG-5/1



R 520 704 J

Туре	Port size	Air flow	Operating press.	Power consumption	Weight
SIMPG-5/1	Ø 7 mm	1250 l/min	2 - 10 bar	$3W = /5VA \sim$	0,34 kg
R 520 704 J	G 1/4"	1250 I/min			0,20 kg

MK-Series

MK

The MK- series is a combination of the 1.8 Watt solenoid-system MD 401 (detailed information on page 2.14.1) and the G 1/4" valves of the 700-series with a flow of 1.250 NL/min. The following valves are available:



description on

			description on
MK 310 701 G	3/2-way single solenoid, n.c.	dual use	page 2.5.1.1.10
MOK 310 701 G	3/2-way single solenoid, n.o.	dual use	page 2.5.1.1.10
MK 510 701 G	5/2-way single solenoid	dual use	page 2.5.2.1.2
MK 520 701 G	5/2-way double solenoid	dual use	page 2.5.2.1.5
MK 531 701 G	5/3-way centre closed	dual use	page 2.5.3.1.2
MK 532 701 G	5/3-way centre exhausted	dual use	page 2.5.3.1.2
MK 533 701 G	5/3-way centre pressurised	dual use	page 2.5.3.1.2
MK 510 703	5/2-way single solenoid	manifold	page 2.5.2.2.2
MK 520 703	5/2-way double solenoid	manifold	page 2.5.2.2.6
MK 531 703	5/3-way centre closed	manifold	page 2.5.3.2.2
MK 532 703	5/3-way centre exhausted	manifold	page 2.5.3.2.2
MK 533 703	5/3-way centre pressurised	manifold	page 2.5.3.2.2
MK 510 704	5/2-way single solenoid	manifold	page 2.5.2.2.4
MK 520 704	5/2-way double solenoid	manifold	page 2.5.2.2.7
MK 531 704	5/3-way centre closed	manifold	page 2.5.3.2.3
MK 532 704	5/3-way centre exhausted	manifold	page 2.5.3.2.3
MK 533 704	5/3-way centre pressurised	manifold	page 2.5.3.2.3

as well as valves with NAMUR-interface, please refer to chapter 2.10.



Advantages • High flow

- Compact design
- Low power consumption



The valves are also used for the 22 mm terminals, described in chapter 2.8.

