

# Type numbering system on the basis of MNH 510 701 24DC

## MNH

Block 1

### Actuation

M	Solenoid valve	Without manual override
MMD	Solenoid valve with momentary manual override	10 mm
MD	Solenoid valve with momentary manual override	normally 16 mm
MOD	Solenoid valve with momentary manual override	normally 16 mm 2- and 3-way n.o.
MH	Solenoid valve with bistable manual override	normally 22 mm plus manual override
MOH	Solenoid valve with bistable manual override	normally 22 mm plus 2- and 3-way n.o.
MEH	Solenoid valve with bistable manual override	With external pilot feed
MNH	Solenoid valve with bistable manual override	NAMUR-interface
MNOH	Solenoid valve with bistable manual override	NAMUR-interface 2- and 3-way n.o.
MK	Solenoid valve with momentary manual override	Low power
MNK	Solenoid valve with momentary manual override	Low power NAMUR-interface
P	Pneumatically actuated valve	
HV	Lever actuated valve with spring return	
HVR	Lever actuated valve indexed	
BV/BG	Stem actuated valve	
BZ	Stem actuated valve, actuation by pulling the stem	
BR	Roller lever valve	
BL	Roller lever valve with idle return	
BA	Valve for panel mounting	
BH	Push-pull button valve for panel mounting	
BHP	Push-pull button valve with pneumatic reset	
VA	OR-gate	
ES	AND-gate	
SE	Quick-exhaust valve	
DR	Flow regulator, uni-directional	
D	Flow regulator, bi-directional	
DRN	Flow regulator with NAMUR-interface	
UB	Air-recirculation block with NAMUR-interface	
SENR	Quick-Exhaust block with NAMUR-interface	
BHN	Block and block / block and bleed valves with NAMUR-interface	
ZVP	Plates for cylinder-valve combinations	
ZPN	Various accessory plates	

## 510

Block 2

### Function

<b>First number:</b>	2 = 2-way, 3 = 3-way or 5 = 5-way valve
<b>Second number:</b>	1 = actuation by permanent signal, 2 = actuated by impulse 3 = 3-way valves    53_ = 5/3-way valves 33_ = 3/3-way valves
<b>Third number:</b>	For 5/3-way and 3/3-way valves: 1 = middle position closed 2 = middle position exhausted 3 = middle position pressurized
	Other valves: 0 = pneumatical spring 1 = mechanical spring (MH-, MNH- and PN-valves have a combined spring)
210	2/2-way Pneumatic spring return
310	3/2-way Pneumatic spring return
311	3/2-way Combined / mechanical spring return (depends on type)
320	3/2-way Double solenoid
510	5/2-way Pneumatic spring return
511	5/2-way Combined / mechanical spring return (depends on type)
520	5/2-way Double solenoid
531	5/3-way Centre closed
532	5/3-way Centre exhausted
533	5/3-way Centre pressurized

The Hafner valve type numbering system consists of at least 3 blocks.  
 Block 4 to be used for voltage indication or special suffixes.  
*Please note: This overview is not intended to be exhaustive.*

# 701

Block 3

# 24DC

Block 4

## Size & Position of Ports

### In-line valves:

	Orifice size	Ports	Position of Ports
201	2 mm	M5	Standard
202	2 mm	M5	On one side
243	2 mm	Pif 4 mm	Side of valve
301	3 mm	G 1/8"	Standard
302	3 mm	M5	On one side
341	3 mm	Pif 4 mm	Standard
401	4 mm	G 1/8"	Standard
461	4 mm	Pif 6 mm	Standard
442	4 mm	Pif 4 mm	On one side
462	4 mm	Pif 6 mm	On one side
501	5 mm	G 1/8"	Standard
502	5 mm	G 1/8"	On one side
701	7 mm	G 1/4"	Standard
711	7 mm	G 1/4"	Ports swapped (NAMUR valves only)
801	8 mm	G 1/4"	Standard
101	10 mm	G 3/8"	Standard
121	12 mm	G 1/2"	Standard
181	18 mm	G 3/4"	Standard

### Direct acting valves:

	Orifice size	Ports	Position of Ports
010	1 mm	M5	Standard
012	1,2 mm	M5	Standard
015	1,2 mm	G 1/8"	Standard
205	2 mm	G 1/8"	Standard
209	2 mm	G 1/4"	Standard
305	3 mm	G 1/8"	Standard
309	3 mm	G 1/4"	Standard
014	1,2 mm	G 1/8"	Banjo-screw (port 2)
019	1,2 mm	G 1/8" – pif 6 mm	Banjo-screw (port 2)
013	1,2 mm	G 1/8"	Banjo-screw (port 2)
017	1,2 mm	G 1/8" – G 1/4"	Banjo-screw (port 2)
313	3 mm	G 1/8"	Banjo-screw (port 2)
317	3 mm	G 1/8" – G 1/4"	Banjo-screw (port 2)

### Valves for manifold assembly:

	Orifice size	Ports	Position of Ports
105	1,2 mm	G 1/4" – G 1/8"	Modular system, direct acting
239	3 mm	G 1/4"	Modular system, direct acting
339	3 mm	G 1/4"	Modular system, direct acting
304	3 mm	Flange for manifold	All on one side
503	5 mm	G 1/8"	
		Flange for manifold	1,3,5 on one side as flange
504	5 mm	Flange for manifold	All on one side
703	7 mm	G 1/8"	
		Flange for manifold	1,3,5 on one side as flange
704	7 mm	Flange for manifold	All on one side
104	10 mm	Flange for manifold	All on one side

## Suffixes

Block 4 is to be used to indicate the voltage at solenoid valves or to give further information on special executions.  
 Block 4 can consist of several suffixes.

Voltages	6VDC, 12VDC, 24VDC, 48DC, 24AC, 110AC, 230AC
O.S.	without coil
NPT	NPT threads
TT	Low temperature
HT	High temperature
VES	Full stainless steel
KES	Stainless steel with PA pilot-head
G	Valves can be used in-line and also on manifold plates
Ex	ATEX-approved non-electrical valve
Ex ia	ATEX-approved for Ex ia coils
Ex m	ATEX-approved for Ex m coils
Ex nA	ATEX-approved for Ex nA coils
Ex e mb	ATEX-approved for Ex e mb coils
Ex dm	ATEX-approved for Ex dm coils
Ex d	ATEX-approved for Ex d coils
EDS	Brass-free to the outside
BMF	Entirely brass-free

**Please note: Valves type "G" (e.g. 701 G) can be used as an in-line valve as well as for manifold assembly.**

