

## MH32F, MH42F: Flanged control valves, PN 6

### How energy efficiency is improved

Flow from both sides and the linear characteristic make energy-efficient working possible.

### Areas of application

Continuous control of flow temperature in heating systems, in which a specific loss through leakage is desirable.

### Features

- Nominal pressure 6 bar
- MH32F: Three-way valves with nominal diameters DN20 to DN150
- MH42F: Four-way valves with nominal diameters DN32 to DN50
- Suitable drives include motor drives of the AR30 W, ASM 105, 115 and ASM 124 types
- Manual adjustment with lever

### Technical description

- Cast iron body
- Spindle made of brass up to DN25 and stainless steel from DN32
- Brass gate valve
- Guaranteed leakproof at spindle thanks to stuffing box with double O-ring

Type	Nominal width DN	$k_{VS}$ -value m <sup>3</sup> /h	Max. leakage rate % of $k_{VS}$	Weight kg
<b>Three-way valve; Cover of zinc, shaft of brass</b>				
MH32F 20 F200	20	12	1	2,7
MH32F 25 F200	25	18	1	3,5
<b>Three-way valve; Cover of grey cast iron, shaft of stainless steel</b>				
MH32F 32 F200	32	28	1	4,6
MH32F 40 F200	40	44	1	5,6
MH32F 50 F200	50	66	1	7,9
MH32F 65 F200	65	100	1	9,2
MH32F 80 F200	80	150	1	14,2
MH32F 100 F200	100	225	1	19,0
MH32F 125 F200	125	310	1	25,8
MH32F 150 F200	150	420	1	35,5
<b>Four-way valve; Cover of grey cast iron, shaft of stainless steel</b>				
MH42F 32 F200	32	28	1,5	5,7
MH42F 40 F200	40	44	1,5	7,1
MH42F 50 F200	50	66	1,5	8,3

Nominal pressure	PN 6	Permissible operating temp.	2...110 °C
Max. perm. operating pressure	6 bar	Dimension drawings	<a href="#">5M106</a>
Control characteristic	linear	Combinations with	AR30 MV 505472
Angle of shoe rotation	90°	ASM124	MV 505477
		ASM105/115	MV 505840

### Accessories

**0360392** . . . Counter flange, smooth, PN 6, incl. asbestos-free gasket.

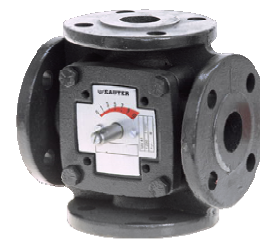
Specify when ordering: DN 20 = /020, DN 25 = /025

DN 20 25 32 40 50 65 80 100 125 150

**0361775 000** Assembly kit for drive AR30

**0361977 001** Assembly kit for drive ASM 124

**0361977 002** Assembly kit for drive ASM 105, 115



TD4240

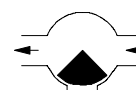


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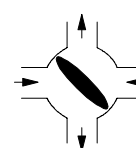
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Tree-way valve

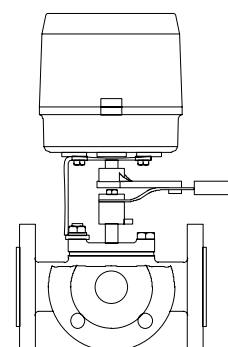


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Four-way valve



B01374



B01375a

## Combination with electric motor drive AR30 and actuator ASM:

Drive	Input Running time	AR30	AR30	ASM	ASM	ASM	ASM	ASM	ASM	ASM
		W23 <sup>1)</sup>	W23S <sup>1)</sup>	105 <sup>2)</sup>	105 <sup>2)</sup>	105S <sup>2)</sup>	115 <sup>2)</sup>	115S <sup>2)</sup>	124 <sup>3) 4)</sup>	124S <sup>3) 4)</sup>
		3-Pt. 120s	0...10 V 120s	2/3-Pt. 30s	2/3-Pt. 120s	0...10 V 35/60/ 120s	2/3-Pt. 120s	0...10 V 60/120s	2/3-Pt. 120s	0...10 V 60/120s
<b>Three-way valve:</b>	$\Delta p_{max}$									
MH32F 20 F200	1,0									
MH32F 25 F200	1,0									
MH32F 32 F200	1,0									
MH32F 40 F200	1,0									
MH32F 50 F200	0,5			-	-	-				
MH32F 65 F200	0,5			-	-	-				
MH32F 80 F200	0,5			-	-	-				
MH32F 100 F200	0,5			-	-	-	-	-		
MH32F 125 F200	0,5			-	-	-	-	-		
MH32F 150 F200	0,5			-	-	-	-	-		
<b>Four-way valve:</b>										
MH42F 32 F200	1,0			-	-	-	-	-		
MH42F 40 F200	1,0			-	-	-	-	-		
MH42F 50 F200	0,5			-	-	-	-	-		

- 1) Assembly kit 0361775 000 required; included in the combination
- 2) Assembly kit 0361977 002 required; included in the combination
- 3) Assembly kit 0361977 001 required; included in the combination
- 4) In this combination, it is not possible to fit auxiliary contacts or a potentiometer

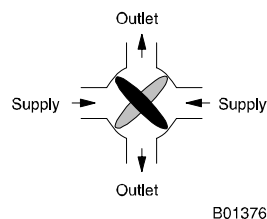
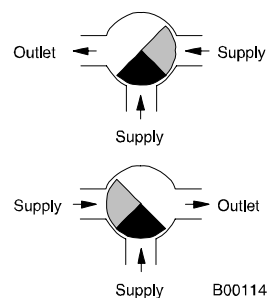
Complete type designation: Valve and drive with corresponding F-version and assembly parts  
 Valve: F-version, technical data and accessories, see table of types above  
 Drive: F-version, technical data and accessories, see Section 51  
 Example: MH32F 40 F200/AR30 W23 F001/0361775 000

### Operation

Turning the spindle will continuously open the warm-water port and equally close the cold-water port (heater return flow). This increases the temperature of the mixed water (in the heater flow) at an approximately constant flow rate.

When the warm-water port is closed, a bypass to the boiler return is opened simultaneously in four-way versions in order to enable thermal circulation.

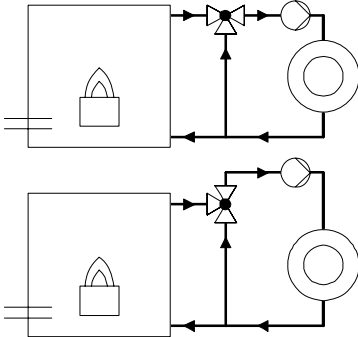
For automatic operation, a reversible drive with a rotating angle of 90° can be used. After the coupling has been released, the shoe can be adjusted manually.



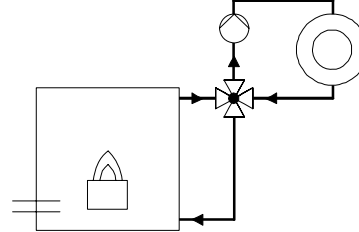
**Additional technical data**

Body dark grey as per RAL 7021. Flanges as per VSM 18643 (DIN 2501). Threaded bore holes for console and motor drive mounting. Steel lever with plastic handle for manual adjustment. Scale marked on both sides for the following installation options: boiler flow direction from the left, boiler flow direction from the right.

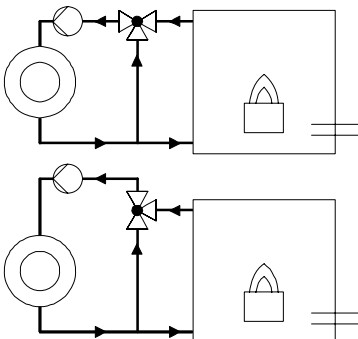
Boiler flow direction from the left



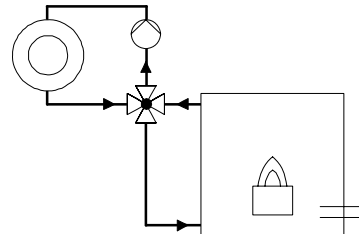
Boiler flow direction from the left



Boiler flow direction from the right



Boiler flow direction from the right

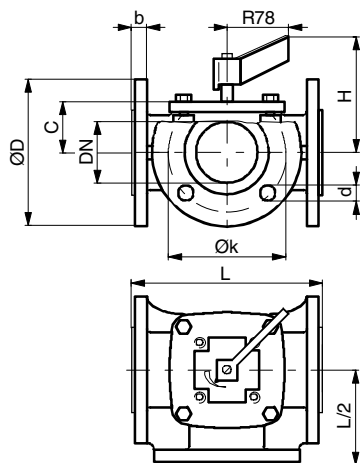


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**Dimension drawings 5M106**

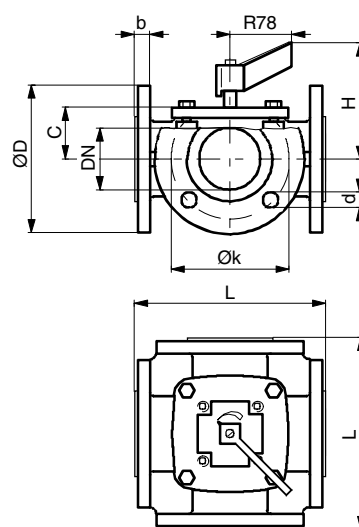
MH32F



DN	H	C	L	D	k	b	d
20	76	37	140	90	65	14	11,5 (4x)
25	76	37	150	100	75	14	11,5 (4x)
32	98	40	160	120	90	16	15 (4x)
40	98	40	175	130	100	16	15 (4x)
50	112	51	195	140	110	16	15 (4x)
65	116	55	200	160	130	16	15 (4x)
80	123	62	240	190	150	16	15 (4x)
100	133	72	265	210	170	18	18 (4x)
125	142	81	300	240	200	20	18 (8x)
150	149	88	350	265	225	20	18 (8x)

M360972b

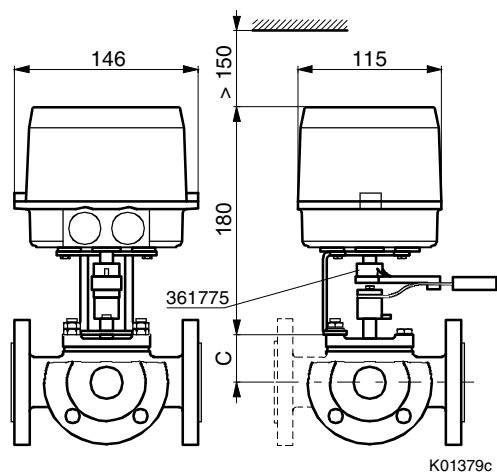
MH42F



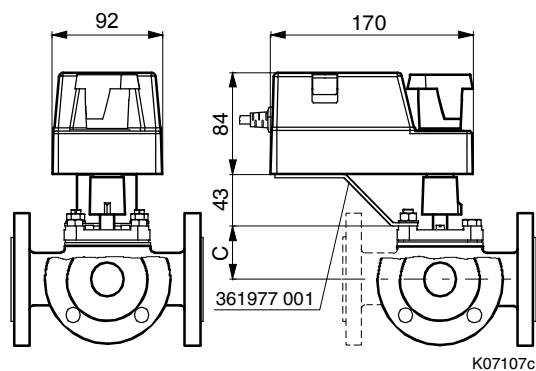
DN	H	C	L	D	k	b	d
32	98	40	160	120	90	16	15 (4x)
40	98	40	175	130	100	16	15 (4x)
50	112	51	195	140	110	16	15 (4x)

M360974b

MH32F and MH42F with AR30 drive



MH32F and MH42F with ASM 124 drive



MH32F with ASM 105, 115 drive  
DN20 to DN80

