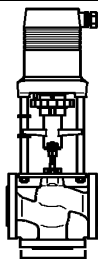


Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

Merkmale

- Einsetzbar in Heizungs-, Lüftungs- und Klimaanlage zur Regelung des Heiß- und Kaltwasserdurchflusses von 0...+150°C. Ab 130°C Antriebsposition nur waagrecht zulässig.
- Mit Spindelheizung geeignet für Wasser mit Frostschutz bis -10°C
- Ventile in den Endlagen dichtschießend
- Microcontroller gesteuerter Hubantrieb
- Automatischer Selbstabgleich bei Inbetriebnahme

Technische Daten Ventil

Baureihe	BR206GF	BR216GF	BR306GF	BR316GF
Form	Durchgang		Dreiwege	
Nennweite	DN 15 – DN 100	DN 15 – DN 200	DN 15 – DN 100	DN 15 – DN 200
Druckstufe	PN 6	PN 16	PN 6	PN 16
Kennlinie	A→AB gl%		A→AB gl% B→AB linear	
Hub	mm	14 (DN 15 – DN 50) 20 (DN 65) 30 (DN 65 – DN 100) 50 (DN 125 – DN 150) 60 (DN 200)		
Stellverhältnis	DN 15: 50:1 DN 20 – 200: 100:1			

Funktion: BR206/216GF als Durchgangsventil
BR306/316GF als Misch- oder Umschaltventil

Anschlussart: Flansche nach EN 1092-2 Typ 21

Baulänge: EN 558-1 Grundreihe 1

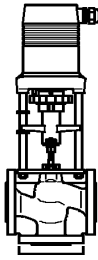
Leckrate: DN 15 – DN 150 EN 1349 – Sitzleckage VI G 1 (dichtschießend)
DN 200 EN 1349 – Sitz-Leckage IV L 1 (≤ 0,01% vom kvs-Wert)

Gehäuse: Grauguss EN-JL1040
Kegel: Messing CW614N
Spindel: CrMo-Stahl 1.4122
Abdichtung: O-Ringe EPDM

Ventilvariante und Zubehör

- Kegel aus CrNi-Stahl 1.4305
- Mit Spindelheizung geeignet für Wasser mit Frostschutz bis -10°C
24 VAC, 50/60 Hz
DN 15 – DN 100 Leistungsaufnahme: P_{max.} ≈ 30 VA P_N ≈ 30 VA
DN 125 – DN 200 Leistungsaufnahme: P_{max.} ≈ 250 VA P_N ≈ 45 VA
- Epoxydharz-Sonderlackierung als Korrosionsschutz bei Schwitzwasserbildung, max. 80°C
- Einsetzbar für Medien auf Mineralölbasis mit Abdichtung aus FKM
- Technisch silikonfreie Ausführung

Flanschanschluss
PN 6 / PN 16
Grauguss

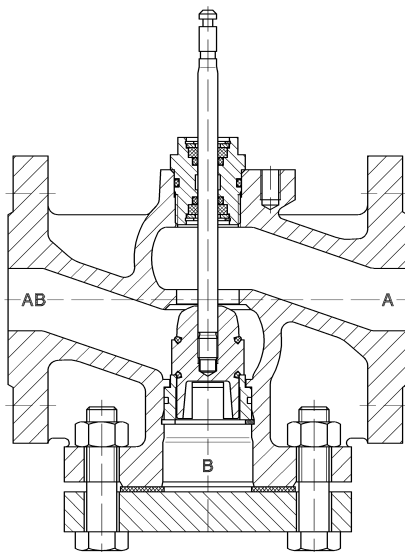


mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

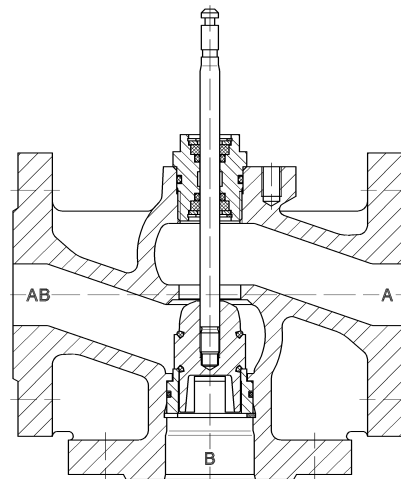
BR206GF BR306GF
BR216GF BR316GF

Schnittzeichnung

DN 15 – DN 65 (Hub 20)

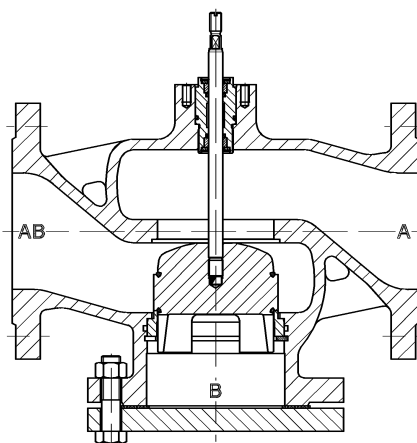


BR206GF / BR216GF

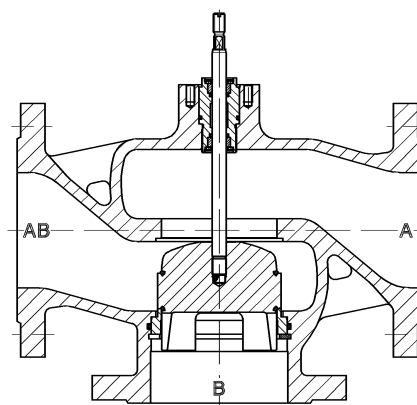


BR306GF / BR316GF

DN 65 (Hub 30) – DN 100

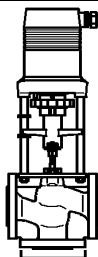


BR206GF / BR216GF



BR306GF / BR316GF

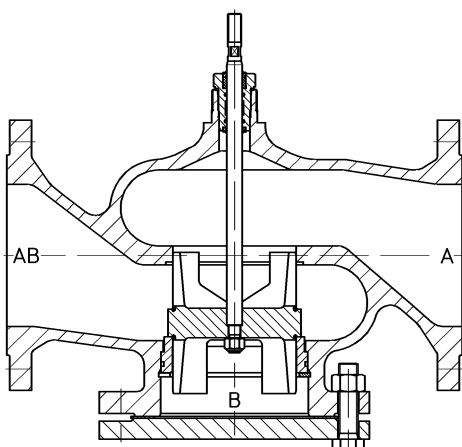
Flanschanschluss
PN 6 / PN 16
Grauguss



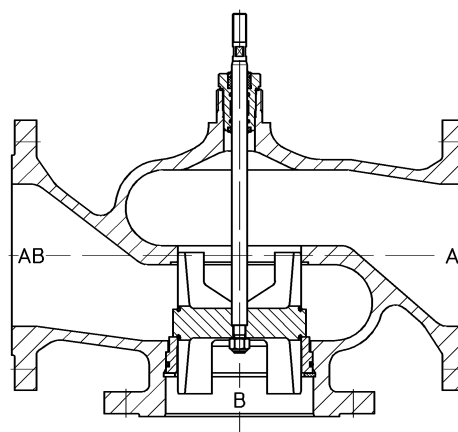
mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

DN 125 – DN 200



BR216GF



BR316GF

Technische Daten Antrieb MC55

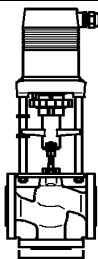
Typ		MC55/24		MC55/230		MC55Y	
Stellzeit ¹⁾	s/mm	9 · 5*		9 · 5*		9 · 5*	
Stellkraft	kN	0,6		0,6		0,6	
Hub	mm	max. 14	max. 20	max. 14	max. 20	max. 14	max. 20
Spannung	VAC	24 ±10%		230 +6% -10%		24 ±10%	
Spannung ²⁾	VDC	24 ±10%				24 ±10%	
Frequenz	Hz	50/60 ±5%		50/60 ±5%		50/60 ±5%	
Leistungsaufnahme	VA	3,5		7		3,5	
Eingangssignal ³⁾		3-Punkt		3-Punkt		0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm	
Ausgangssignal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm		0...10 VDC max. 8 mA min. 1200 Ohm		0...10 VDC max. 8 mA min. 1200 Ohm	
Hysterese	V	0,3		0,3		0,3	

¹⁾ Stellzeit frei wählbar, Voreinstellung ist mit * gekennzeichnet, vor Ort einstellbar

²⁾ nur gleichgerichtete Wechselspannung

³⁾ stetige Signale invertierbar

Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF
BR216GF

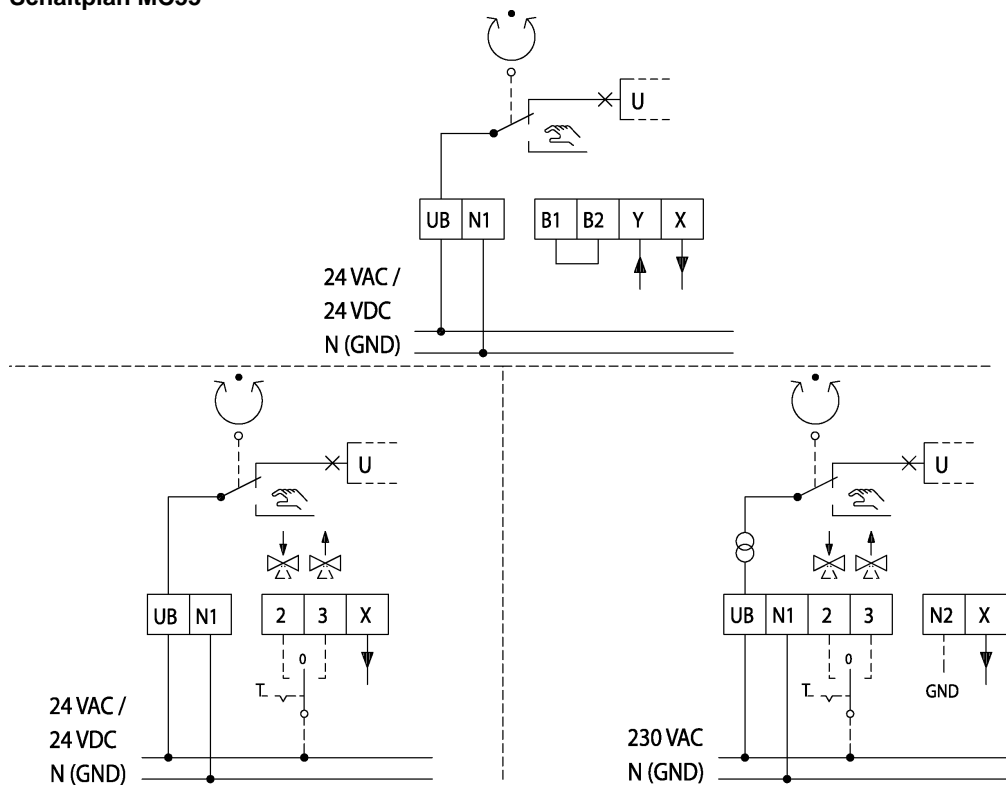
BR306GF
BR316GF

Schutzart:	IP 54 im Automatikbetrieb IP 30 bei Handbetätigung	
Auflösung:	elektrisch	0,04 VDC
	mechanisch	0,06 mm
Elektrischer Anschluss:	Antrieb mit Klemmleiste	
Betriebsart:	S3-50% ED c/h 1200	EN 60034-1
Endlagenabschaltung:	lastabhängig	
Umgebungstemperatur:	0...+60°C	
Gewicht:	1,5 kg	

Antriebsvariante und Zubehör

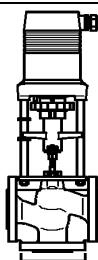
- Sonderspannung: 115 VAC
- Adapter mit Aufnahme für Fremdfabrikate

Schaltplan MC55



B1/B2 Anschlussmöglichkeit eines Binärsignals (z.B. Frostschutz)

Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

Technische Daten Antrieb MC100 – MC1000

Typ		MC100/24	MC100/230
Stellzeit ¹⁾	s/mm	12 · 9* · 4 · 1,9	12 · 9* · 4 · 1,9
Stellkraft	kN	1,0	1,0
Hub	mm	max. 20	max. 20
Spannung	VAC	24 ±10%	230 +6% -10%
Spannung ²⁾	VDC	24 ±10%	-
Frequenz	Hz	50/60 ±5%	50/60 ±5%
Leistungsaufnahme	VA	6	12
Eingangssignal ³⁾		3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm	3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm
Ausgangssignal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Hysterese ⁴⁾	V	0,15 · 0,5	0,15 · 0,5

Typ		MC160/24	MC160/24	MC160/230	MC160/230
Stellzeit ¹⁾	s/mm	6 · 4*		6 · 4*	
Stellkraft	kN	1,6		1,6	
Hub	mm	max. 30	max. 14 / 20	max. 30	max. 14 / 20
Spannung	VAC	24 ±10%		230 +6% -10%	
Spannung ²⁾	VDC	24 ±10%		-	
Frequenz	Hz	50/60 ±5%		50/60 ±5%	
Leistungsaufnahme	VA	6		12	
Eingangssignal ³⁾		3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm		3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm	
Ausgangssignal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm		0...10 VDC max. 8 mA min. 1200 Ohm	
Hysterese ⁴⁾	V	0,05 · 0,15 · 0,3 · 0,5		0,05 · 0,15 · 0,3 · 0,5	

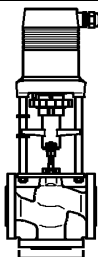
¹⁾ Stellzeit frei wählbar, Voreinstellung ist mit * gekennzeichnet, vor Ort einstellbar

²⁾ nur gleichgerichtete Wechselspannung

³⁾ stetige Signale invertierbar

⁴⁾ vor Ort einstellbar

Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF
BR216GF

BR306GF
BR316GF

Typ		MC220/24	MC220/230
Stellzeit ¹⁾	s/mm	3	3
Stellkraft	kN	2,2	2,2
Hub	mm	max. 30	max. 30
Spannung	VAC	24 ±10%	230 ±10%
Spannung ²⁾	VDC	24 ±10%	-
Frequenz	Hz	50/60 ±5%	50/60 ±5%
Leistungsaufnahme	VA	6	12
Eingangssignal ³⁾		3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm	3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm
Ausgangssignal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Hysterese ⁴⁾	V	0,05 · 0,15 · 0,3 · 0,5	0,05 · 0,15 · 0,3 · 0,5

Typ		MC400/24	MC400/230
Stellzeit	s/mm	0,6 · 0,4*	0,6 · 0,4*
Stellkraft	kN	4,0	4,0
Hub	mm	max. 60	max. 60
Spannung	VAC	24 ±10%	230 +6% -10%
Frequenz	Hz	50/60 ±5%	50/60 ±5%
Leistungsaufnahme	VA	max. 50	max. 63
Eingangssignal ³⁾		3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm	3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm
Ausgangssignal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Hysterese ⁴⁾	V	0,05 · 0,15 · 0,3 · 0,5	0,05 · 0,15 · 0,3 · 0,5

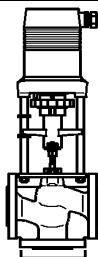
¹⁾ Stellzeit frei wählbar, Voreinstellung ist mit * gekennzeichnet, vor Ort einstellbar

²⁾ nur gleichgerichtete Wechselspannung

³⁾ stetige Signale invertierbar

⁴⁾ vor Ort einstellbar

Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

Typ		MC500/24	MC500/230
Stellzeit ¹⁾	s/mm	5 · 3,5*	5 · 3,5*
Stellkraft	kN	5,0	5,0
Hub	mm	max. 60	max. 60
Spannung	VAC	24 ±10%	230 +6% -10%
Spannung ²⁾	VDC	24 ±10%	-
Frequenz	Hz	50/60 ±5%	50/60 ±5%
Leistungsaufnahme	VA	max. 18	max. 25
Eingangssignal ³⁾		3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm	3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm
Ausgangssignal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Hysterese ⁴⁾	V	0,05 · 0,15 · 0,3 · 0,5	0,05 · 0,15 · 0,3 · 0,5

Typ		MC1000/24	MC1000/230
Stellzeit	s/mm	1	1
Stellkraft	kN	10	10
Hub	mm	max. 60	max. 60
Spannung	VAC	24 ±10%	230 +6% -10%
Frequenz	Hz	50/60 ±5%	50/60 ±5%
Leistungsaufnahme	VA	max. 50	max. 63
Eingangssignal ³⁾		3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm	3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0,51 kOhm
Ausgangssignal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Hysterese ⁴⁾	V	0,05 · 0,15 · 0,3 · 0,5	0,05 · 0,15 · 0,3 · 0,5

Schutzart: IP 54

Auflösung:

MC55	elektrisch	0,04 VDC
MC100	mechanisch	0,095 mm
MC160 / MC220	mechanisch	0,05 mm
MC500	mechanisch	0,04 mm
MC400	mechanisch	0,12 mm
MC1000	mechanisch	0,05 mm

Betriebsart:

MC55	S3-50% ED c/h 1200	EN 60034-1
MC100 – MC500	S3-50% ED c/h 1200	EN 60034-1
MC400 / MC1000	S3-30% ED c/h 1200	EN 60034-1

Endlagenabschaltung: lastabhängig

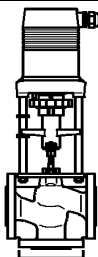
¹⁾ Stellzeit frei wählbar, Voreinstellung ist mit * gekennzeichnet, vor Ort einstellbar

²⁾ nur gleichgerichtete Wechselspannung

³⁾ stetige Signale invertierbar

⁴⁾ vor Ort einstellbar

Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

Umgebungstemperatur:	MC55	0...+60°C
	MC100 / MC160 / MC220	0...+60°C
	MC400 / MC500 / MC1000	-10...+60°C

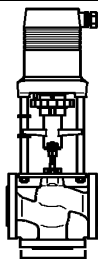
Gewicht:	MC55	1,5 kg
	MC100	2,5 kg
	MC160 und MC220	3,2 kg
	MC500/24	7,0 kg
	MC500/230	8,2 kg
	MC400	9,5 kg
	MC1000	11,0 kg

Antriebsvariante und Zubehör

- Sonderspannung: 115 VAC
- Wegschaltereinheit ¹⁾: 2 Schalter (WE1/WE2), potentialfrei, stufenlos einstellbar
 Nennlast: 8 A / 250 VAC
 8 A / 30 VDC
 Schaltspannung: max. 400 VAC
 max. 125 VDC
- Schutzart: IP 65
- Platine für Ausgangssignal X=0(4)...20 mA ¹⁾
- Adapter mit Aufnahme für Fremdfabrikate

¹⁾ MC100/MC160/MC220: Wegschaltereinheit und Ausgangssignal 0(4)...20 mA nicht kombinierbar

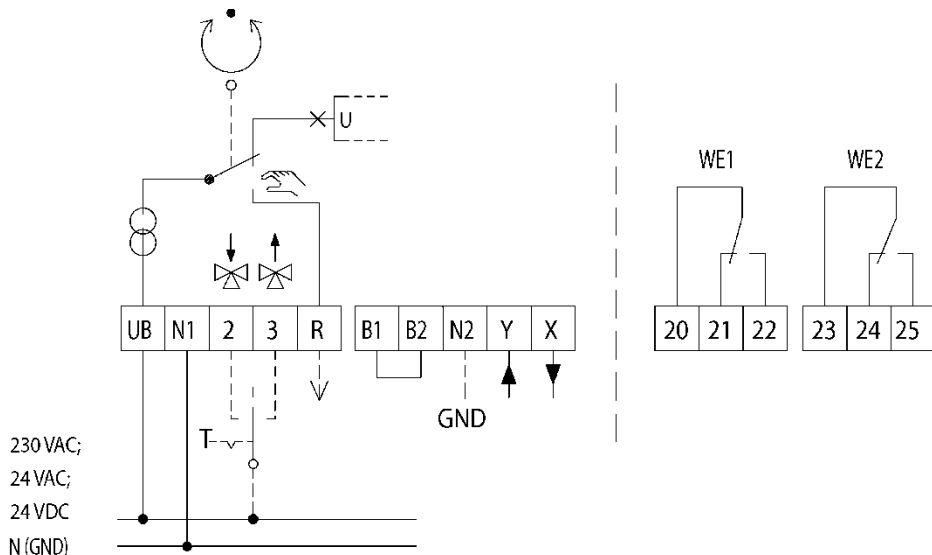
Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

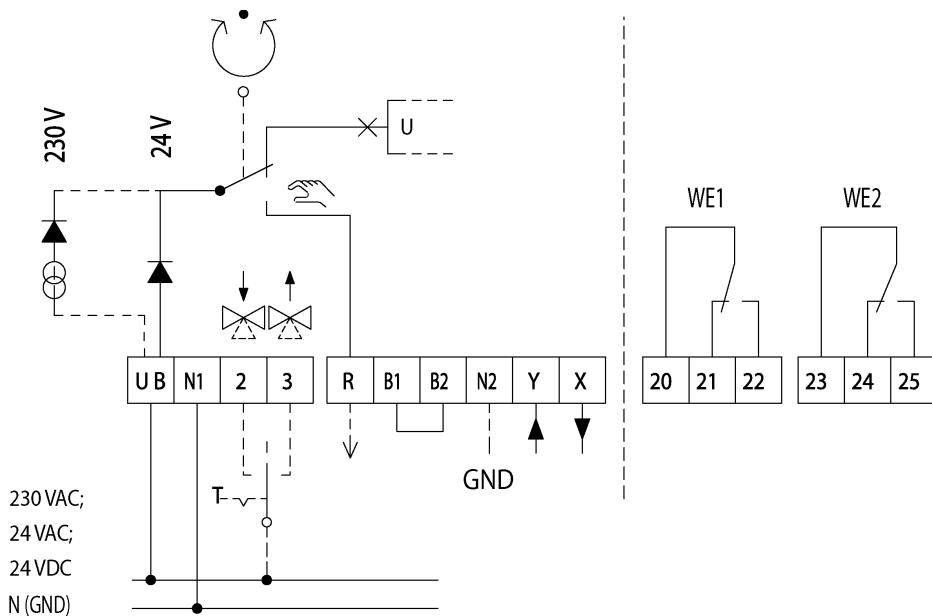
BR206GF BR306GF
BR216GF BR316GF

Schaltplan MC100 / MC160 / MC220



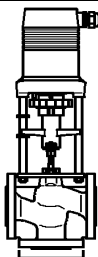
B1/B2 Anschlussmöglichkeit eines Binärsignals (z.B. Frostschutz)

Schaltplan MC400 / MC500 / MC1000



B1/B2 Anschlussmöglichkeit eines Binärsignals (z.B. Frostschutz)

Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

Technische Daten Ventil mit Stellantrieb

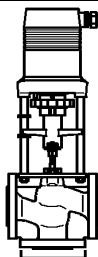
PN 6

DN		15	20	25	32	40	50	65	65	80	100	
kvs-Wert	m ³ /h	4	6,3	10	16	25	40	63	63	100	160	
		2,5	5	8	12,5	20	31,5	50	50	80	125	
		1,6										
		1,25										
	0,63											
Hub	mm	14						20	30			
MC55/24 MC55/230 MC55Y	Stellzeit ¹⁾	125										
		70*										
	Schließdruck	kPa	600	600	600	450	250	150				
MC100/24 MC100/230	Stellzeit ¹⁾	170						240				
		125*						180*				
		55						80				
		30						40				
	Schließdruck	kPa	600	600	600	600	550	350				
MC160/24 MC160/230	Stellzeit ¹⁾					95		120				
						55*		80*				
	Schließdruck	kPa					600	600	350			
MC160/24 MC160/230	Stellzeit ¹⁾							120	180			
								80*	120*			
	Schließdruck	kPa							350	230	140	
MC220/24 MC220/230	Stellzeit ¹⁾							90				
								500	300	200		
MC400/24 MC400/230	Stellzeit ¹⁾							15	20			
								10*	15*			
	Schließdruck	kPa							600	600	400	
MC500/24 MC500/230	Stellzeit ¹⁾							150	150			
								105*	105*			
	Schließdruck	kPa							600	600	500	

100 kPa = 1 bar = 10 mWS

¹⁾ Stellzeit frei wählbar, Voreinstellung ist mit * gekennzeichnet

Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

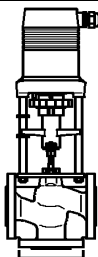
PN 16

DN		15	20	25	32	40	50	65	65	80	100	125	150	200 BR216 GF	200 BR316GF			
kvs-Wert	m³/h	4	6,3	10	16	25	40	63	63	100	160	250	315	500				
		2,5	5	8	12,5	20	31,5	50	50	80	125							
Hub		14						20	30			50		60				
MC55/24 MC55/230 MC55Y	Stellzeit ¹⁾	125						180										
	Schließdruck	70*						100*										
MC100/24 MC100/230	Stellzeit ¹⁾	170						240										
		125*						180*										
		55						80										
	30						40											
MC160/24 MC160/230	Schließdruck	1600	1600	1500	900	550	350	150										
	Stellzeit ¹⁾	95						120										
MC160/24 MC160/230	Schließdruck	1500						950	600	350								
	Stellzeit ¹⁾							120		180								
MC220/24 MC220/230	Schließdruck							80*		120*								
	Stellzeit ¹⁾							90										
MC400/24 MC400/230	Schließdruck							500	300	200								
	Stellzeit ¹⁾							15	20	30	40							
MC500/24 MC500/230	Schließdruck							10*	15*	20*	30*							
	Stellzeit ¹⁾							950	650	400	300	200	300					
MC1000/24 MC1000/230	Schließdruck							150	150	250	300		300					
	Stellzeit ¹⁾							105*	105*	175*	210*							
MC1000/24 MC1000/230	Schließdruck							1250	850	500	370	270	600	110				
	Stellzeit													50	60			
Schließdruck														800	550	1200	240	

100 kPa = 1 bar = 10 mWS

¹⁾ Stellzeit frei wählbar, Voreinstellung ist mit * gekennzeichnet

Flanschanschluss
PN 6 / PN 16
Grauguss

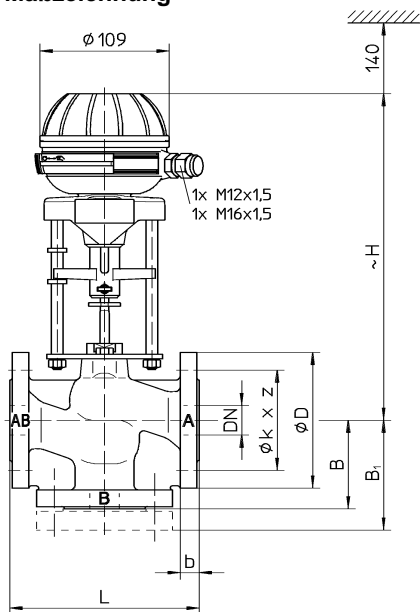


mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

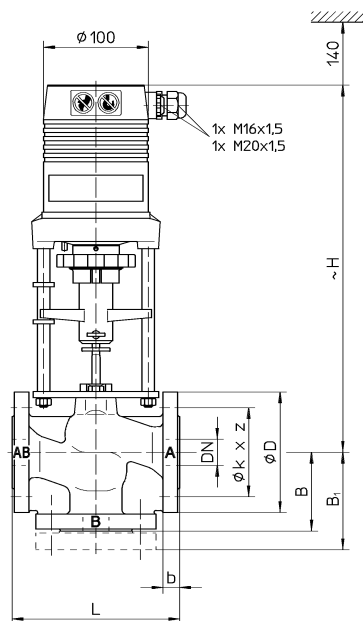
BR206GF
BR216GF

BR306GF
BR316GF

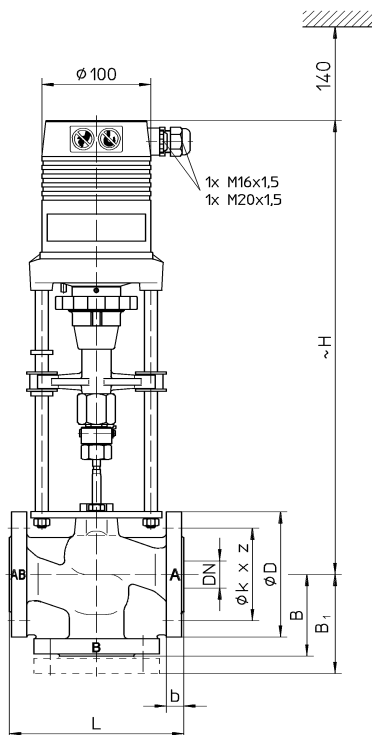
Maßzeichnung



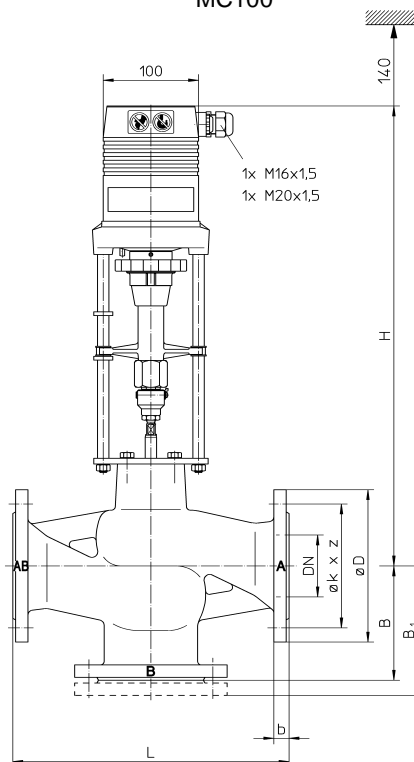
DN 15 – DN 50
MC55



DN 15 – DN 65 (Hub 20)
MC100

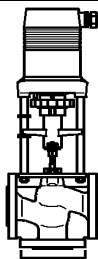


DN 32 – DN 65 (Hub 14 / 20)
MC160



DN 65 (Hub 30) – DN 100
MC160 / MC220

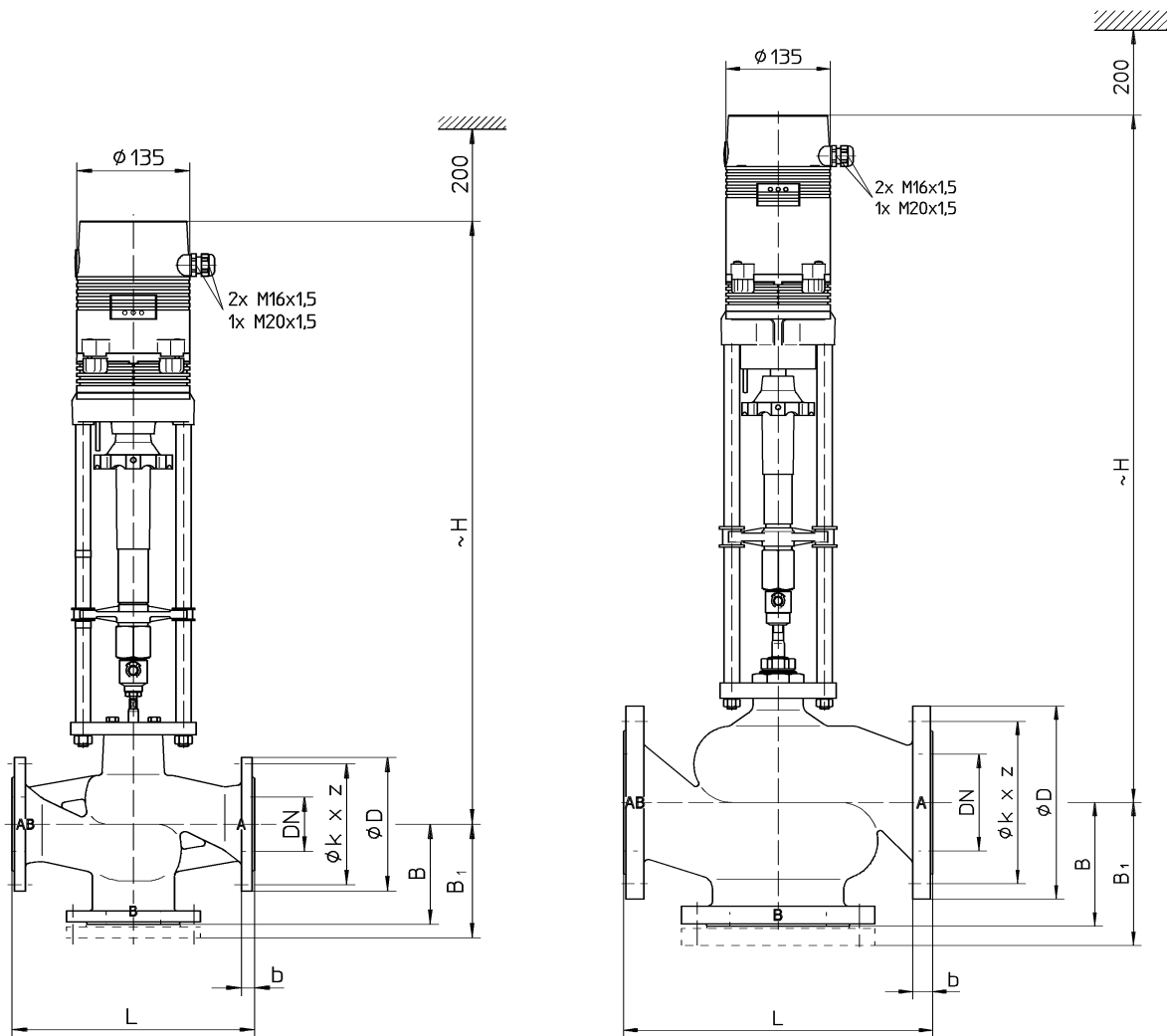
Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF
BR216GF

BR306GF
BR316GF



DN 65 (Hub 30) – DN 100

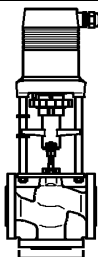
DN 125 – DN 200

MC400 / MC500 / MC1000

Einbauhinweis:

Da Verunreinigungen im Rohrsystem sehr leicht den Ventilsitz beschädigen können, ist der Einbau eines Schmutzfängers zu empfehlen.

Flanschanschluss
PN 6 / PN 16
Grauguss



mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF
BR216GF

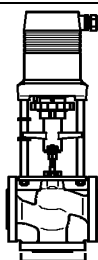
BR306GF
BR316GF

Abmessungen

PN 6

DN		15	20	25	32	40	50	65	80	100	
L	mm	130	150	160	180	200	230	290	310	350	
B	mm	65	70	75	95	100	100	120	130	150	
B ₁	mm	86	93	98	119	124	124	144	158	178	
∅ D	mm	80	90	100	120	130	140	160	190	210	
∅ k	mm	55	65	75	90	100	110	130	150	170	
z	mm	4x ∅11			4x ∅14			4x ∅18			
b	mm	12	14	14	16	16	16	16	18	18	
H	MC55	24 VAC/230 VAC	mm	267	272	277	277	282	282		
	MC100	24 VAC	mm	343	348	353	353	358	358	408	
		230 VAC	mm	368	373	378	378	383	383	433	
	MC160	24 VAC	mm					448	448	486	
		230 VAC	mm					473	473	511	
	MC160	24 VAC	mm						486	496	506
		230 VAC	mm						511	521	531
	MC220	24 VAC	mm						486	496	506
		230 VAC	mm						511	521	531
	MC400	24 VAC/230 VAC	mm						695	705	715
	MC500	24 VAC/230 VAC	mm						645	655	665
	m	MC55	BR206GF	kg	4,3	5,4	6,3	8,6	10,3	12,0	
BR306GF			kg	3,7	4,5	5,2	7,1	8,5	9,9		
MC100		BR206GF	kg	5,3	6,4	7,3	9,6	11,3	13,0	20,4	
		BR306GF	kg	4,7	5,5	6,2	8,1	9,5	10,9	17,2	
MC160		BR206GF	kg					12,0	13,7	21,1	
		BR306GF	kg					10,2	11,6	17,9	
MC160		BR206GF	kg						21,1	29,5	40,3
		BR306GF	kg						17,9	25,2	34,2
MC220		BR206GF	kg						21,1	29,5	40,3
		BR306GF	kg						17,9	25,2	34,2
MC500 24 VAC		BR206GF	kg						24,9	33,3	44,1
		BR306GF	kg						21,7	29,0	38,0
MC500 230 VAC	BR206GF	kg						26,1	34,5	45,3	
	BR306GF	kg						22,9	30,2	39,2	
MC400	BR206GF	kg						27,4	35,8	46,6	
	BR306GF	kg						24,2	31,5	40,5	

Flanschanschluss
PN 6 / PN 16
Grauguss



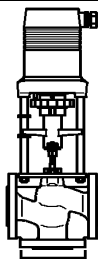
mit elektrischen Antrieben
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

PN 16

DN		15	20	25	32	40	50	65	80	100	125	150	200	
L	mm	130	150	160	180	200	230	290	310	350	400	480	600	
B	mm	65	70	75	95	100	100	120	130	150	160	170	215	
B ₁	mm	89	96	101	123	128	130	150	162	182	194	207	254	
∅ D	mm	95	105	115	140	150	165	185	200	220	250	285	340	
∅ k	mm	65	75	85	100	110	125	145	160	180	210	240	295	
z	mm	4x ∅14			4x ∅18				8x ∅18			8x ∅22	12x ∅22	
b	mm	14	16	16	18	18	20	20	22	24	26	26	24	
H	MC55	24 VAC/230 VAC	mm	267	272	277	277	282	282					
		24 VAC	mm	343	348	353	353	358	358	408				
	MC100	230 VAC	mm	368	373	378	378	383	383	433				
		24 VAC	mm				443	448	448	486				
	MC160	230 VAC	mm				468	473	473	511				
		24 VAC	mm							486	496	506		
	MC160	230 VAC	mm							511	521	531		
		24 VAC	mm							486	496	506		
	MC220	230 VAC	mm							511	521	531		
		24 VAC/230 VAC	mm							695	705	715	855	855
MC500	24 VAC/230 VAC	mm							645	655	665	805	805	825
MC1000	24 VAC/230 VAC	mm										895	895	920
m	MC55	BR216GF	kg	5,6	6,8	8,1	11,5	13,3	16,8					
		BR316GF	kg	4,6	5,5	6,5	9,1	10,6	13,1					
MC100	BR216GF	kg	6,6	7,8	9,1	12,5	14,3	17,8	27,3					
	BR316GF	kg	5,6	6,5	7,5	10,1	11,6	14,1	22,5					
MC160	BR216GF	kg				13,2	15,0	18,5	28,0					
	BR316GF	kg				10,8	12,3	14,8	23,2					
MC160	BR216GF	kg							28,0	33,0	46,1			
	BR316GF	kg							23,2	27,2	39,2			
MC220	BR216GF	kg							28,0	33,0	46,1			
	BR316GF	kg							23,2	27,2	39,2			
MC500 24 VAC	BR216GF	kg							31,8	36,8	49,9	69,0	97,0	163
	BR316GF	kg							27,0	31,0	43,0	59,0	84,0	143
MC500 230 VAC	BR216GF	kg							33,0	38,0	51,1	70,2	98,2	164
	BR316GF	kg							28,2	32,2	44,2	60,2	85,2	144
MC400	BR216GF	kg							34,3	39,3	52,4	71,5	99,5	183
	BR316GF	kg							29,5	33,5	45,5	61,5	86,5	
MC1000	BR216GF	kg										73	101	184
	BR316GF	kg										63	88	165

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

Features

- Suitable for the control of hot and chilled water (0...+150°C) in HEVAC systems control of heating plants. Above 130°C valves should only be mounted in the horizontal position.
- With stem heater suitable for water with antifreeze compounds down to -10°C
- Tight shut-off in the closed position
- Microprocessor controlled
- Automatic self-calibration on start up

Technical data valve

Series	BR206GF	BR216GF	BR306GF	BR316GF
Form	Two-way		Three-way	
Diameter nominal	DN 15 – DN 100	DN 15 – DN 200	DN 15 – DN 100	DN 15 – DN 200
Pressure rating	PN 6	PN 16	PN 6	PN 16
Characteristic	A→AB equal %		A→AB B→AB	equal % linear
Stroke	mm	14 (DN 15 – DN 50) 20 (DN 65) 30 (DN 65 – DN 100) 50 (DN 125 – DN 150) 60 (DN 200)		
Rangeability	DN 15: 50:1 DN 20 – 200: 100:1			

Function: BR206/216GF as two-way valve
BR306/316GF as mixing or on-off valve

Connection type: Flanges acc. EN 1092-2 type 21

Face to face dimension: Acc. EN 558-1 basic series 1

Leakage rate: DN 15 – DN 150 EN 1349 – seat-leakage VI G 1 (tight sealing)
DN 200 EN 1349 – seat-leakage IV L 1 ($\leq 0,01\%$ of kvs-value)

Body: Cast iron EN-JL1040
Plug: Brass CW614N
Stem: CrMo-steel 1.4122
Stem sealing: O-rings EPDM

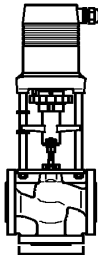
Valve variant and accessories

- Plug made of CrNi-steel 1.4305
- With stem heater suitable for water with antifreeze compounds down to -10°C
24 VAC, 50/60 Hz

DN 15 – DN 100	Power consumption:	$P_{max.} \approx 30 \text{ VA}$	$P_N \approx 30 \text{ VA}$
DN 125 – DN 200	Power consumption:	$P_{max.} \approx 250 \text{ VA}$	$P_N \approx 45 \text{ VA}$

- Epoxy resin special varnish as a corrosion resistant in case of condensed water, max. 80°C
- Usable for media based on mineral oil basis (stem sealing made of FKM)
- Technical silicon free version

Flanged connection
PN 6 / PN 16
Cast iron

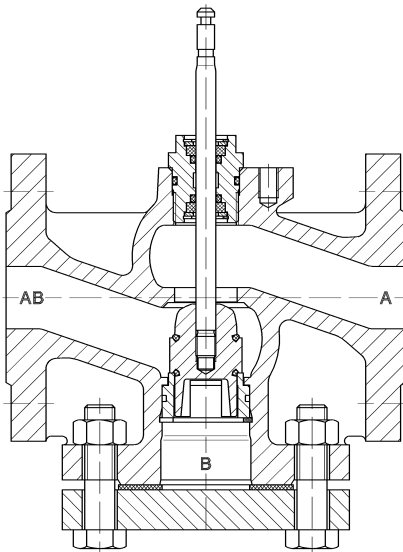


with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

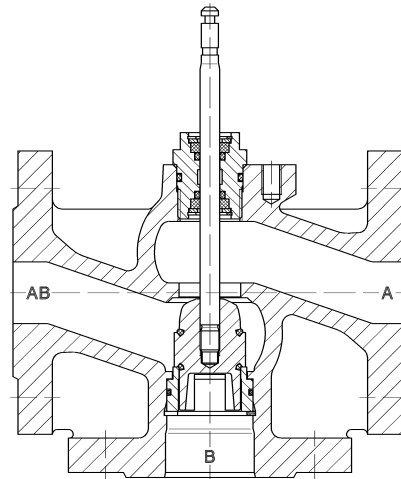
BR206GF BR306GF
BR216GF BR316GF

Drawing

DN 15 – DN 65 (stroke 20)

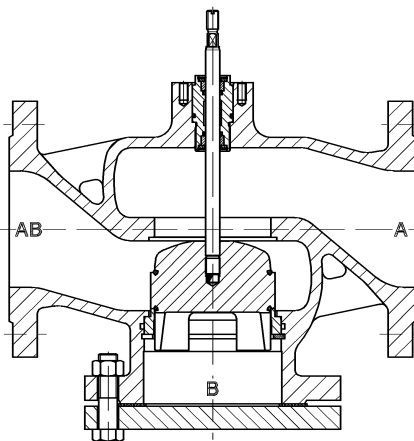


BR206GF / BR216GF

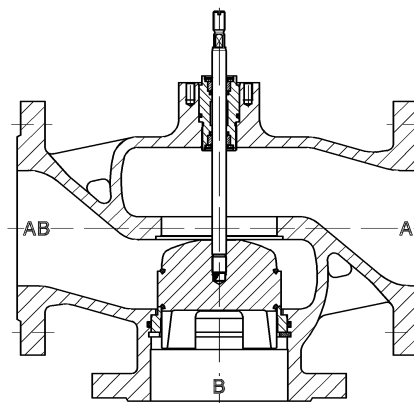


BR306GF / BR316GF

DN 65 (Stroke 30) – DN 100

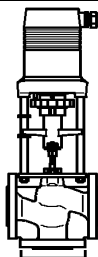


BR206GF / BR216GF



BR306GF / BR316GF

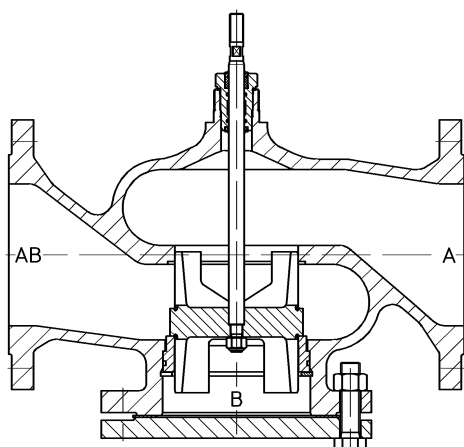
Flanged connection
PN 6 / PN 16
Cast iron



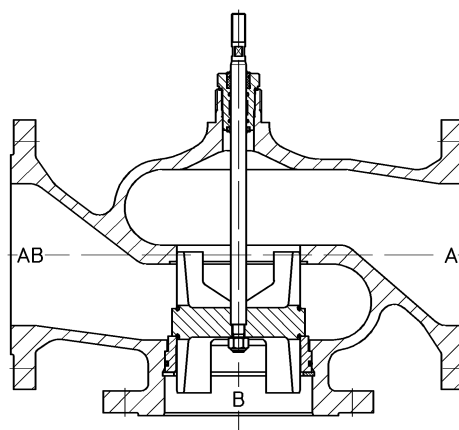
with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF BR306GF
BR216GF BR316GF

DN 125 – DN 200



BR216GF



BR316GF

Technical data actuator MC55

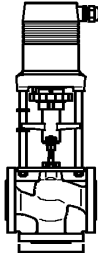
Type		MC55/24		MC55/230		MC55Y	
Actuating time ¹⁾	s/mm	9 · 5*		9 · 5*		9 · 5*	
Actuating thrust	kN	0.6		0.6		0.6	
Stroke	mm	max. 14	max. 20	max. 14	max. 20	max. 14	max. 20
Power supply	VAC	24 ±10%		230 ±10%		24 ±10%	
Power supply ²⁾	VDC	24 ±10%				24 ±10%	
Frequency	Hz	50/60 ±5%		50/60 ±5%		50/60 ±5%	
Power consumption	VA	3.5		7		3.5	
Input signal ³⁾		3-point		3-point		0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm	
Output signal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm		0...10 VDC max. 8 mA min. 1200 Ohm		0...10 VDC max. 8 mA min. 1200 Ohm	
Hysteresis	V	0.3		0.3		0.3	

¹⁾ Actuating time freely adjustable, presetting is marked with *

²⁾ only rectified alternating voltage

³⁾ Invertible input and output signal

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF
BR216GF

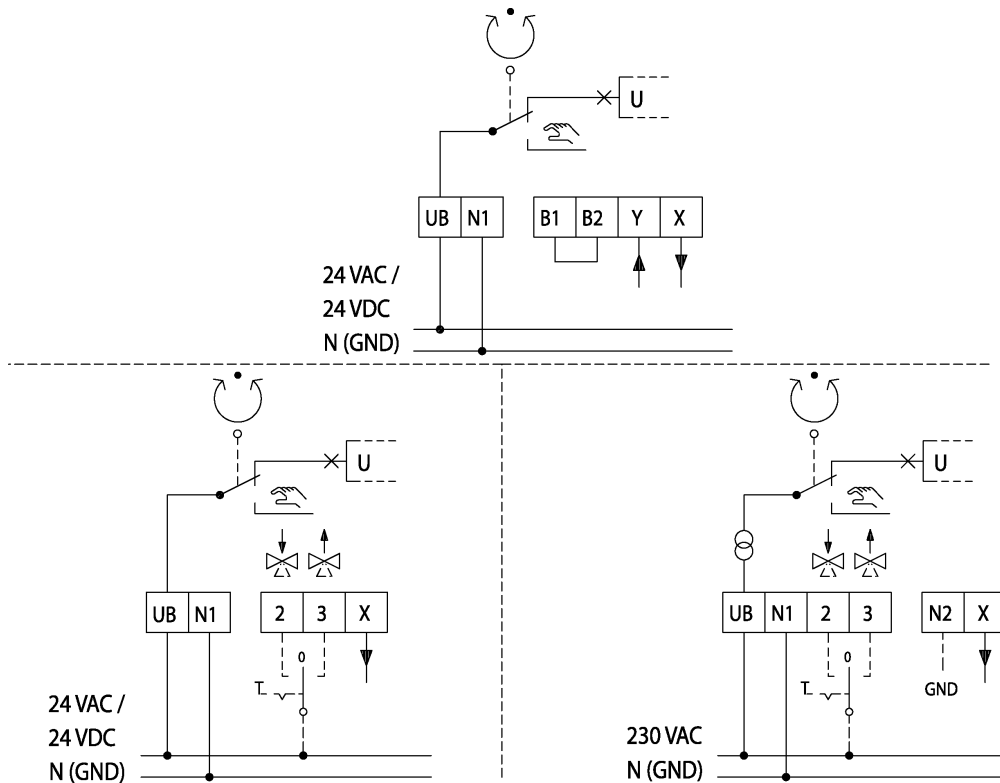
BR306GF
BR316GF

Enclosure protection:	IP 54 in automatic operation IP 30 in manual operation	
Resolution:	electric mechanical	0.04 VDC 0.06 mm
Mains connection:	Actuator with terminal	
Operating mode:	S3-50% ED c/h 1200	EN 60034-1
End position switch-off:	load-dependent	
Ambient temperature:	0...+60°C	
Weight:	1.5 kg	

Actuator variant and accessories

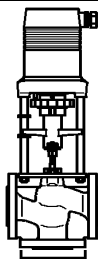
- Voltage: 115 VAC
- Adapter with coupling for external products

Circuit diagram MC55



B1/B2 Connection of a binary signal (e.g. frost safety)

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF BR306GF
BR216GF BR316GF

Technical data actuator MC100 – MC1000

Type		MC100/24	MC100/230
Actuating time ¹⁾	s/mm	12 · 9* · 4 · 1.9	12 · 9* · 4 · 1.9
Actuating thrust	kN	1.0	1.0
Stroke	mm	max. 20	max. 20
Power supply	VAC	24 ±10%	230 ±10%
Power supply ²⁾	VDC	24 ±10%	-
Frequency	Hz	50/60 ±5%	50/60 ±5%
Power consumption	VA	6	12
Input signal ³⁾		3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm	3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm
Output signal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Hysteresis ⁴⁾	V	0.15 · 0.5	0.15 · 0.5

Type		MC160/24	MC160/24	MC160/230	MC160/230
Actuating time ¹⁾	s/mm	6 · 4*		6 · 4*	
Actuating thrust	kN	1.6		1.6	
Stroke	mm	max. 30	max. 14 / 20	max. 30	max. 14 / 20
Power supply	VAC	24 ±10%		230 ±10%	
Power supply ²⁾	VDC	24 ±10%		-	
Frequency	Hz	50/60 ±5%		50/60 ±5%	
Power consumption	VA	6		12	
Input signal ³⁾		3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm		3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm	
Output signal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm		0...10 VDC max. 8 mA min. 1200 Ohm	
Hysteresis ⁴⁾	V	0.05 · 0.15 · 0.3 · 0.5		0.05 · 0.15 · 0.3 · 0.5	

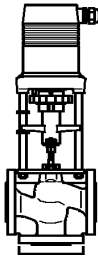
¹⁾ Actuating time freely adjustable, presetting is marked with *

²⁾ only rectified alternating voltage

³⁾ Invertible input and output signal

⁴⁾ Freely adjustable

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF
BR216GF

BR306GF
BR316GF

Type		MC220/24	MC220/230
Actuating time ¹⁾	s/mm	3	3
Actuating thrust	kN	2,2	2,2
Stroke	mm	max. 30	max. 30
Power supply	VAC	24 ±10%	230 ±10%
Power supply ²⁾	VDC	24 ±10%	-
Frequency	Hz	50/60 ±5%	50/60 ±5%
Power consumption	VA	max. 18	max. 25
Input signal ³⁾		3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm	3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm
Output signal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Hysteresis ⁴⁾	V	0.05 · 0.15 · 0.3 · 0.5	0.05 · 0.15 · 0.3 · 0.5

Type		MC400/24	MC400/230
Actuating time ¹⁾	s/mm	0.6 · 0.4*	0.6 · 0.4*
Actuating thrust	kN	4.0	4.0
Stroke	mm	max. 60	max. 60
Power supply	VAC	24 ±10%	230 ±10%
Power supply ²⁾	VDC	50/60 ±5%	50/60 ±5%
Frequency	Hz	max. 50	max. 63
Power consumption	VA	3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm	3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm
Input signal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Output signal ³⁾		0.05 · 0.15 · 0.3 · 0.5	0.05 · 0.15 · 0.3 · 0.5

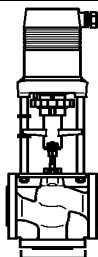
¹⁾ Actuating time freely adjustable, presetting is marked with *

²⁾ only rectified alternating voltage

³⁾ Invertible input and output signal

⁴⁾ Freely adjustable

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF BR306GF
BR216GF BR316GF

Type		MC500/24	MC500/230
Actuating time ¹⁾	s/mm	5 · 2.5*	5 · 2.5*
Actuating thrust	kN	5.0	5.0
Stroke	mm	max. 60	max. 60
Power supply	VAC	24 ±10%	230 ±10%
Power supply ²⁾	VDC	24 ±10%	-
Frequency	Hz	50/60 ±5%	50/60 ±5%
Power consumption	VA	max. 18	max. 25
Input signal ³⁾		3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm	3-point 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm
Output signal ³⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Hysteresis ⁴⁾	V	0.05 · 0.15 · 0.3 · 0.5	0.05 · 0.15 · 0.3 · 0.5

Type		MC1000/24	MC1000/230
Actuating time	s/mm	1	1
Actuating thrust	kN	10	10
Stroke	mm	max. 60	max. 60
Power supply	VAC	24 ±10%	230 ±10%
Frequency	Hz	50/60 ±5%	50/60 ±5%
Power consumption	VA	max. 50	max. 63
Input signal ¹⁾		3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm	3-Punkt 0(2)...10 VDC 77 kOhm 0(4)...20 mA 0.51 kOhm
Output signal ¹⁾		0...10 VDC max. 8 mA min. 1200 Ohm	0...10 VDC max. 8 mA min. 1200 Ohm
Hysteresis ²⁾	V	0.05 · 0.15 · 0.3 · 0.5	0.05 · 0.15 · 0.3 · 0.5

Enclosure protection: IP 54

Resolution:

MC55	electric	0.04 VDC
MC100	mechanical	0.095 mm
MC160 / MC220	mechanical	0.05 mm
MC500	mechanical	0.04 mm
MC400	mechanical	0.12 mm
MC1000	mechanical	0.05 mm

Operating mode:

MC100 – MC500	S3-50% ED c/h 1200	EN 60034-1
MC400 / MC1000	S3-30% ED c/h 1200	EN 60034-1

End position switch-off: load-dependent

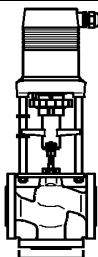
¹⁾ Stellzeit frei wählbar, Voreinstellung ist mit * gekennzeichnet, vor Ort einstellbar

²⁾ nur gleichgerichtete Wechselspannung

³⁾ stetige Signale invertierbar

⁴⁾ vor Ort einstellbar

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

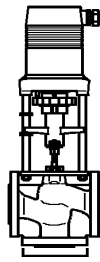
Ambient temperature:	MC55	0...+60°C
	MC100 / MC160 / MC220	0...+60°C
	MC400 / MC500 / MC1000	-10...+60°C
Weight:	MC55	1.5 kg
	MC100	2.5 kg
	MC160 and MC220	3.2 kg
	MC500/24	7.0 kg
	MC500/230	8.2 kg
	MC400	9.5 kg
	MC1000	11.0 kg

Actuator variant and accessories

- Voltage: 115 VAC
- Position switch unit ¹⁾: 2 switches (WE1/WE2), potential free, infinitely adjustable
 - Rated load: 8 A / 250 VAC
 - 8 A / 30 VDC
 - Turn-on voltage: max. 400 VAC
 - max. 125 VDC
- Enclosure protection: IP 65
- Board for output signal X=0(4)...20 mA ¹⁾
- Adapter with coupling for external products

¹⁾ MC100/MC160/MC220: Position switch unit and output signal 0(4)...20 mA not in combination

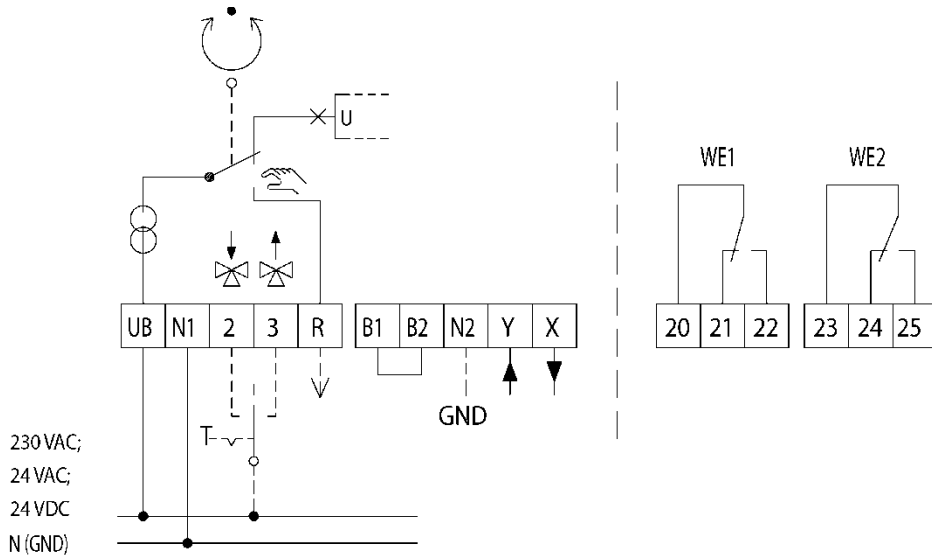
Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

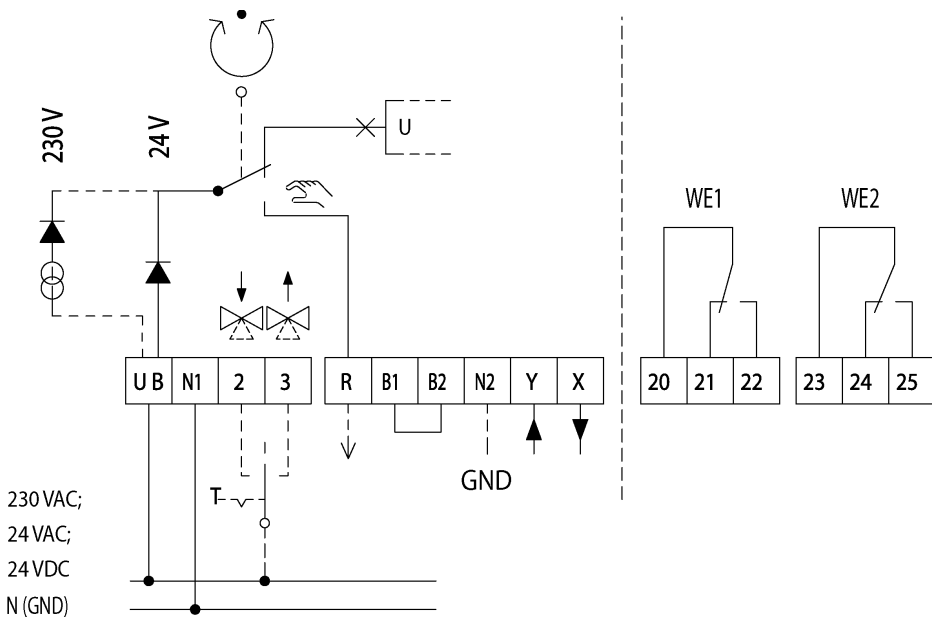
BR206GF BR306GF
BR216GF BR316GF

Circuit diagram MC100 / MC160 / MC220



B1/B2 Connection of a binary signal (e.g. frost safety)

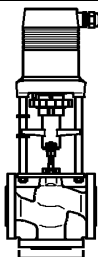
Circuit diagram MC400 / MC500 / MC1000



B1/B2 Connection of a binary signal (e.g. frost safety)

21/09/2021 Data subject to change without notice

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

Technical data valve with actuator

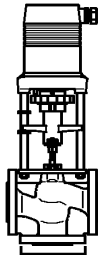
PN 6

DN		15	20	25	32	40	50	65	65	80	100	
kvs-value	m ³ /h	4	6.3	10	16	25	40	63	63	100	160	
		2.5	5	8	12.5	20	31.5	50	50	80	125	
		1.6										
		1.25										
	0.63											
Stroke	mm	14						20	30			
MC55/24 MC55/230 MC55Y	Actuating time ¹⁾	125						180				
		70*						100*				
	Closing pressure	600	600	600	450	250	150	100				
MC100/24 MC100/230	Actuating time ¹⁾	170						240				
		125*						180*				
		55						80				
		30						40				
	Closing pressure	600	600	600	600	550	350	150				
MC160/24 MC160/230	Actuating time ¹⁾					95		120				
						55*		80*				
	Closing pressure					600	600	350				
MC160/24 MC160/230	Actuating time ¹⁾							120	180			
								80*	120*			
	Closing pressure							350	230	140		
MC220/24 MC220/230	Actuating time ¹⁾							90				
	Closing pressure							500	300	500		
MC400/24 MC400/230	Actuating time ¹⁾							15	20			
								10*	15*			
	Closing pressure							600	600	400		
MC500/24 MC500/230	Actuating time ¹⁾							100	150			
								50*	75*			
	Closing pressure							600	600	500		

100 kPa = 1 bar = 10 mWS

¹⁾ Actuating time freely adjustable, presetting is marked with *

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

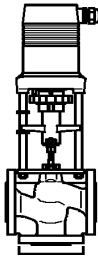
PN 16

DN		15	20	25	32	40	50	65	65	80	100	125	150	200 BR216 GF	200 BR316GF	
kvs-value	m³/h	4	6,3	10	16	25	40	63	63	100	160	250	315	500		
		2,5	5	8	12,5	20	31,5	50	50	80	125					
Stoke	mm	14						20	30			50	60			
MC55/24 MC55/230 MC55Y	Actuating time ¹⁾	125						180								
	Closing pressure	1500	1250	750	450	250	150	100								
MC100/24 MC100/230	Actuating time ¹⁾	170						240								
		125*						180*								
		55						80								
	Closing pressure	1600	1600	1500	900	550	350	150								
MC160/24 MC160/230	Actuating time ¹⁾	95						120								
		55*						80*								
MC160/24 MC160/230	Closing pressure	1500						950	600	350						
								120	180							
MC160/24 MC160/230	Actuating time ¹⁾							80*	120*							
								350	230	140						
MC220/24 MC220/230	Actuating time ¹⁾							90								
								500	300	200						
MC400/24 MC400/230	Actuating time ¹⁾							15	20	30	40					
								10*	15*	20*	30*					
MC400/24 MC400/230	Closing pressure							950	650	400	300	200	300			
								100	150	250	300					
MC500/24 MC500/230	Actuating time ¹⁾							50*	75*	125*	150*					
								1250	850	500	370	270	600	110		
MC1000/24 MC1000/230	Actuating time ¹⁾							50			60					
											800	550	1200	240		

100 kPa = 1 bar = 10 mWS

¹⁾ Actuating time freely adjustable, presetting is marked with *

Flanged connection
PN 6 / PN 16
Cast iron

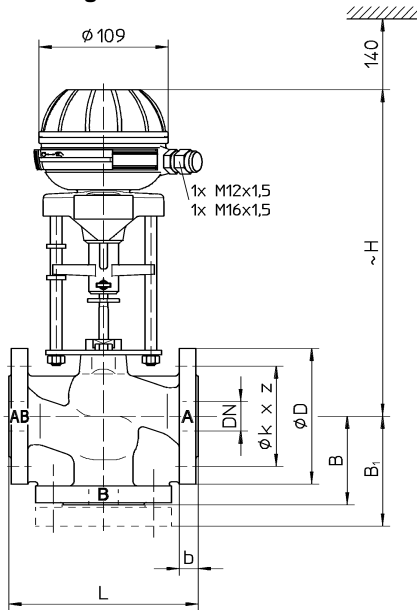


with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

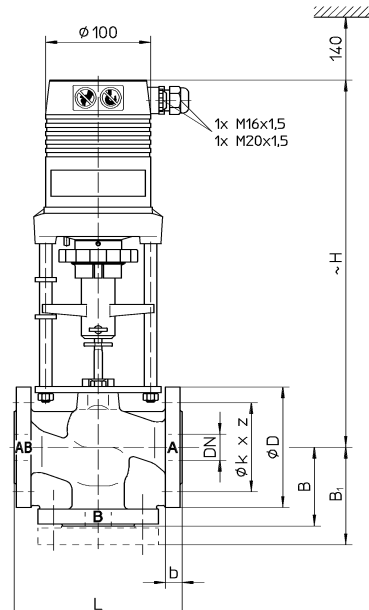
BR206GF
BR216GF

BR306GF
BR316GF

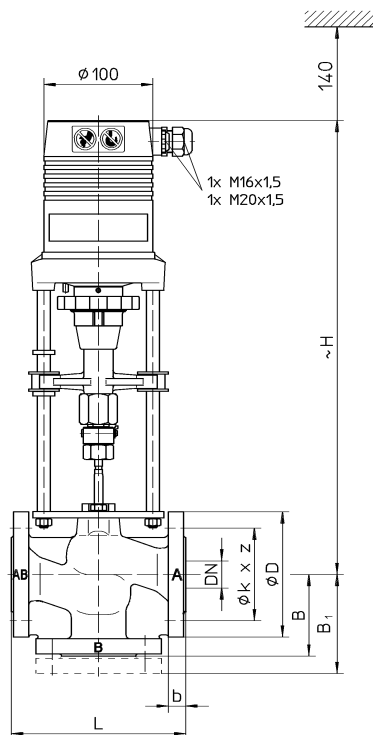
Drawing



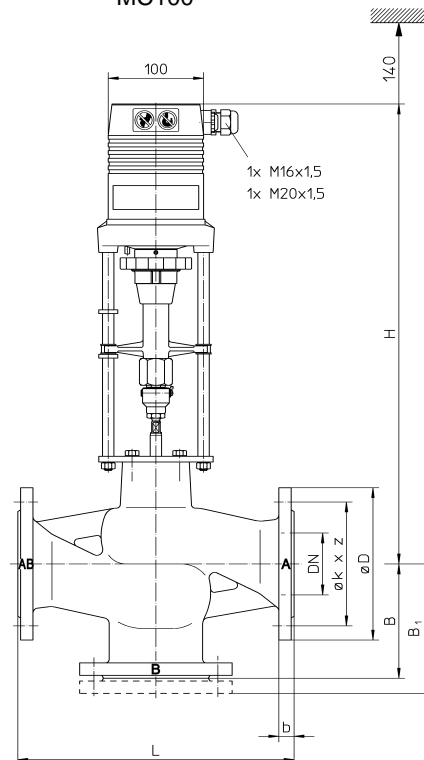
DN 15 – DN 50
MC55



DN 15 – DN 65 (stroke 20)
MC100

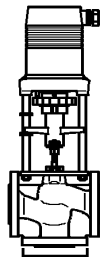


DN 32 – DN 65 (stroke 20)
MC160



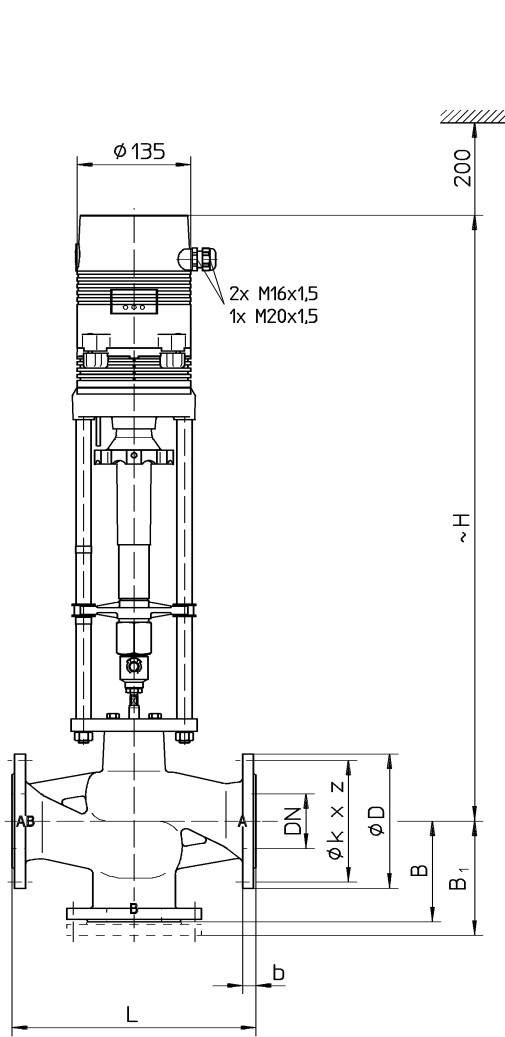
DN 65 (stroke 30) – DN 100
MC160 / MC220

Flanged connection
PN 6 / PN 16
Cast iron

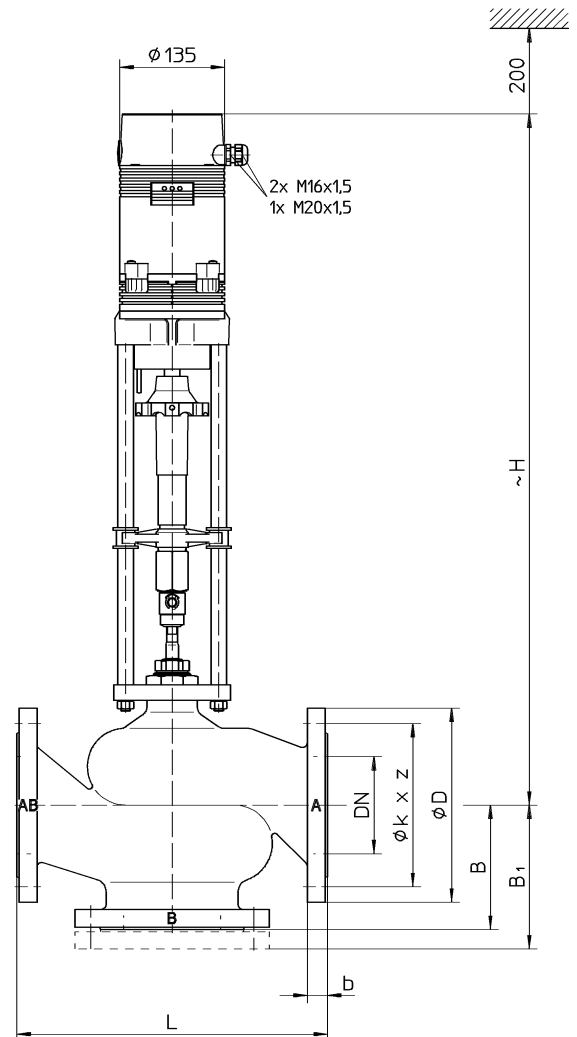


with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF BR306GF
BR216GF BR316GF



DN 65 (stroke 30) – DN 100



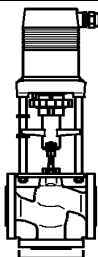
DN 125 – DN 200

MC400 / MC500 / MC1000

Installation instruction:

Valve trim could be damaged by dirt in the pipe system. Therefore we recommend the installation of strainers.

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

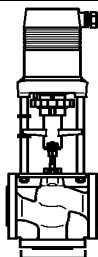
BR206GF **BR306GF**
BR216GF **BR316GF**

Dimension

PN 6

DN		15	20	25	32	40	50	65	80	100	
L	mm	130	150	160	180	200	230	290	310	350	
B	mm	65	70	75	95	100	100	120	130	150	
B ₁	mm	86	93	98	119	124	124	144	158	178	
∅ D	mm	80	90	100	120	130	140	160	190	210	
∅ k	mm	55	65	75	90	100	110	130	150	170	
z	mm	4x ∅11			4x ∅14			4x ∅18			
b	mm	12	14	14	16	16	16	16	18	18	
H	MC55	24 VAC/230 VAC	mm	267	272	277	277	282	282		
	MC100	24 VAC	mm	343	348	353	353	358	358	408	
		230 VAC	mm	368	373	378	378	383	383	433	
	MC160	24 VAC	mm					448	448	486	
		230 VAC	mm					473	473	511	
	MC160	24 VAC	mm						486	496	506
		230 VAC	mm						511	521	531
	MC220	24 VAC	mm						486	496	506
		230 VAC	mm						511	521	531
	MC400	24 VAC/230 VAC	mm						695	705	715
	MC500	24 VAC/230 VAC	mm						645	655	665
	m	MC55	BR206GF	kg	4.3	5.4	6.3	8.6	10.3	12.0	
BR306GF			kg	3.7	4.5	5.2	7.1	8.5	9.9		
MC100		BR206GF	kg	5.3	6.4	7.3	9.6	11.3	13.0	20.4	
		BR306GF	kg	4.7	5.5	6.2	8.1	9.5	10.9	17.2	
MC160		BR206GF	kg					12.0	13.7	21.1	
		BR306GF	kg					10.2	11.6	17.9	
MC160		BR206GF	kg						21.1	29.5	40.3
		BR306GF	kg						17.9	25.2	34.2
MC220		BR206GF	kg						21,1	29,5	40,3
		BR306GF	kg						17,9	25,2	34,2
MC500 24 VAC		BR206GF	kg						24.9	33.3	44.1
		BR306GF	kg						21.7	29.0	38.0
MC500 230 VAC	BR206GF	kg						26.1	34.5	45.3	
	BR306GF	kg						22.9	30.2	39.2	
MC400	BR206GF	kg						27.4	35.8	46.6	
	BR306GF	kg						24.2	31.5	40.5	

Flanged connection
PN 6 / PN 16
Cast iron



with electric actuators
MC55/24 • MC55/230 • MC55Y
MC100/24 • MC100/230
MC160/24 • MC160/230
MC220/24 • MC220/230
MC400/24 • MC400/230
MC500/24 • MC500/230
MC1000/24 • MC1000/230

BR206GF **BR306GF**
BR216GF **BR316GF**

PN 16

DN		15	20	25	32	40	50	65	80	100	125	150	200		
L	mm	130	150	160	180	200	230	290	310	350	400	480	600		
B	mm	65	70	75	95	100	100	120	130	150	160	170	215		
B ₁	mm	89	96	101	123	128	130	150	162	182	194	207	254		
∅ D	mm	95	105	115	140	150	165	185	200	220	250	285	340		
∅ k	mm	65	75	85	100	110	125	145	160	180	210	240	295		
z	mm	4x ∅14			4x ∅18				8x ∅18			8x ∅22	12x ∅22		
b	mm	14	16	16	18	18	20	20	22	24	26	26	24		
H	MC55	24 VAC/230 VAC	mm	267	272	277	277	282	282						
		24 VAC	mm	343	348	353	353	358	358	408					
	MC100	230 VAC	mm	368	373	378	378	383	383	433					
		24 VAC	mm				443	448	448	486					
	MC160	230 VAC	mm				468	473	473	511					
		24 VAC	mm							486	496	506			
	MC160	230 VAC	mm							511	521	531			
		24 VAC								486	496	506			
	MC220	230 VAC	mm							511	521	531			
		24 VAC/230 VAC	mm							695	705	715	855	855	875
	MC500	24 VAC/230 VAC	mm							645	655	665	805	805	825
	MC1000	24 VAC/230 VAC	mm										895	895	920
m	MC55	BR216GF	kg	5.6	6.8	8.1	11.5	13.3	16.8						
		BR316GF	kg	4.6	5.5	6.5	9.1	10.6	13.1						
MC100	BR216GF	kg	6.6	7.8	9.1	12.5	14.3	17.8	27.3						
	BR316GF	kg	5.6	6.5	7.5	10.1	11.6	14.1	22.5						
MC160	BR216GF	kg				13.2	15.0	18.5	28.0						
	BR316GF	kg				10.8	12.3	14.8	23.2						
MC160	BR216GF	kg							28.0	33.0	46.1				
	BR316GF	kg							23.2	27.2	39.2				
MC220	BR216GF	kg							28,0	33,0	46,1				
	BR316GF	kg							23,2	27,2	39,2				
MC500 24 VAC	BR216GF	kg							31.8	36.8	49.9	69.0	97.0	163	
	BR316GF	kg							27.0	31.0	43.0	59.0	84.0	143	
MC500 230 VAC	BR216GF	kg							33.0	38.0	51.1	70.2	98.2	164	
	BR316GF	kg							28.2	32.2	44.2	60.2	85.2	144	
MC400	BR216GF	kg							34.3	39.3	52.4	71.5	99.5	183	
	BR316GF	kg							29.5	33.5	45.5	61.5	86.5		
MC1000	BR216GF	kg										73	101	184	
	BR316GF	kg										63	88	165	

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