



BASIC FEATURES

The **ZV** zone valve is designed for controlling the heat output of water-type heat exchangers. It is used especially for controlling standalone water-type air heaters, heaters inbuilt into the ventilation units, heaters in air curtains, and so on.



GRUNDEIGENSCHAFTEN

Das Zonenventil **ZV** ist zur Regelung der Wärmeleistung des Wasserwärmetauschers bestimmt. Wird besonders für die Regelung separater in den Belüftungsgeräten und Luftschleirnen eingebauten Wasserwärmetauscher verwendet.



PRIMARY PARAMETERS



WICHTIGSTE PARAMETER

Type Typ	voltage [V] Spannung [V]	Control signal Steuersignal	k_{vs} [m³/h] k_{vs} [m³/St]	connection size Anschluss Abmessung
 2-way valve with 230V - O/C actuator 2-Wege-O / C-Ventil mit 230V-Stellantrieb				
ZV2-230-08,0-20	230V AC	O/C	8	DN20
ZV2-230-21,0-20	230V AC	O/C	21	DN20
 3-way valve with 230V - O/C actuator 3-Wege-O / C-Ventil mit 230V-Stellantrieb				
ZV3-230-04,0-20	230V AC	O/C	4	DN20
ZV3-230-21,0-20	230V AC	O/C	21	DN20
 2-way valve with 24V - 0-10V actuator 2-Wege-Ventil mit 230V - 0-10V Stellantrieb				
ZV2-024-08,0-20	24V DC	0-10V DC	8	DN20
ZV2-024-06,3-25	24V DC	0-10V DC	6,3	DN25
ZV2-024-10,0-25	24V DC	0-10V DC	10	DN25
ZV2-024-16,0-25	24V DC	0-10V DC	16	DN25
 3-way valve with 24V - 0-10V actuator 3-Wege-Ventil mit 230V - 0-10V Stellantrieb				
ZV3-024-04,0-20	24V DC	0-10V DC	4	DN20
ZV3-024-06,3-20	24V DC	0-10V DC	6,3	DN20
ZV3-024-06,3-25	24V DC	0-10V DC	6,3	DN25
ZV3-024-10,0-25	24V DC	0-10V DC	10	DN25
ZV3-024-16,0-32	24V DC	0-10V DC	16	DN32



ZV2-230-08,0-20

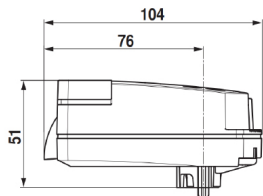
2-way O/C valve with 230V actuator, Kvs 8, DN20.



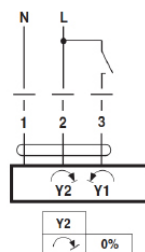
ZV2-230-08,0-20

2-Wege-O / C-Ventil mit 230-V-Stellantrieb, Kvs 8, DN20.

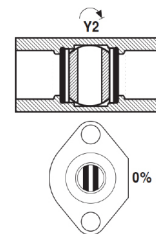
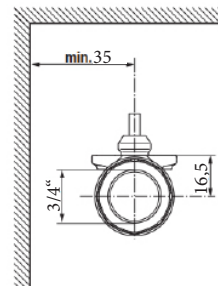
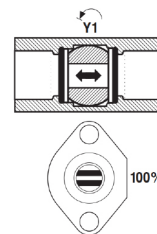
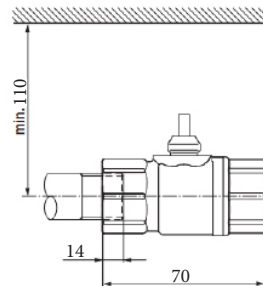
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV2-230-08,0-20	DN 20	8	230V / 50-60Hz	1,5 W	75 s / 90°	IP40



AC 230 V, open-close



Cable colours:
1 = blue
2 = brown
3 = white



ZV3-230-04,0-20

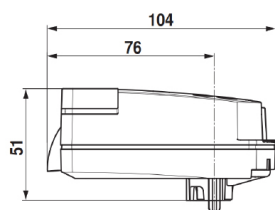
3-way O/C valve with 230V actuator, Kvs 4, DN20.



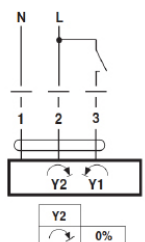
ZV3-230-04,0-20

3-Wege-O / C-Ventil mit 230-V-Stellantrieb, Kvs 4, DN20.

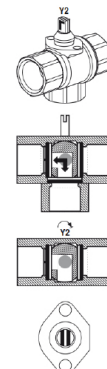
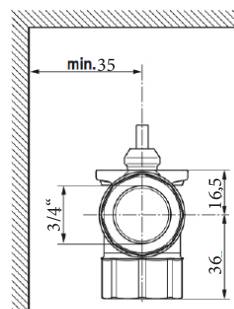
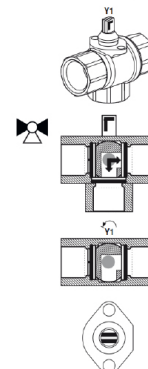
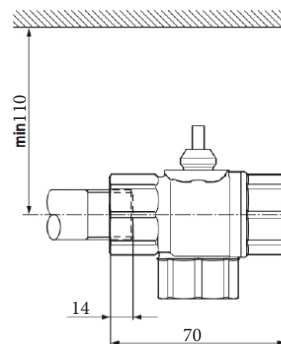
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV3-230-04,0-20	DN 20	4	230V / 50-60Hz	1,5 W	75 s / 90°	IP40



AC 230 V, open-close



Cable colours:
1 = blue
2 = brown
3 = white





ZV2-230-21,0-20

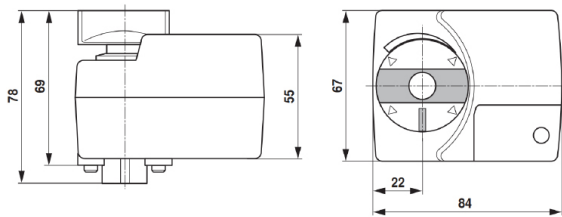
2-way O/C valve with 230V actuator, Kvs 21, DN20.



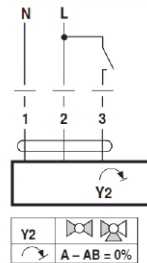
ZV2-230-21,0-20

2-Wege-O / C-Ventil mit 230-V-Stellantrieb, Kvs 21, DN20.

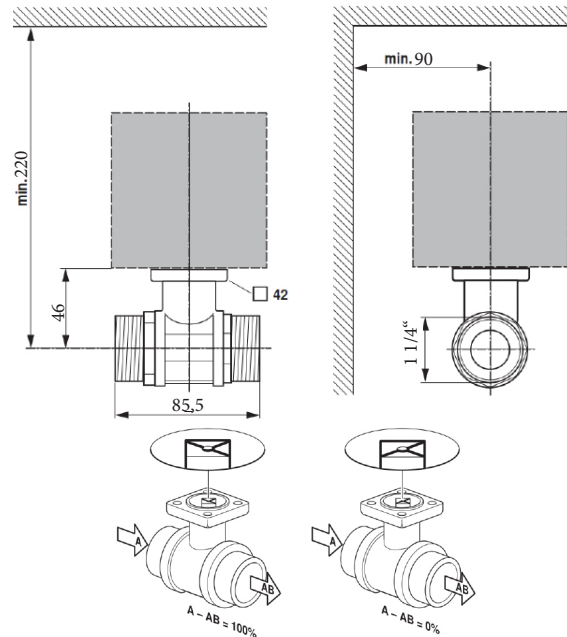
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV2-230-21,0-20	DN 20	21	230V / 50Hz	1W	35 s / 90°	IP40



AC 230 V, open-clo



Cable colours:
1 = blue
2 = brown
3 = white



ZV3-230-21,0-20

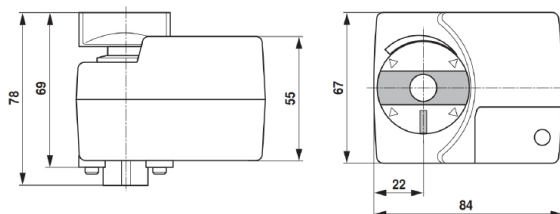
3-way O/C valve with 230V actuator, Kvs 21, DN20.



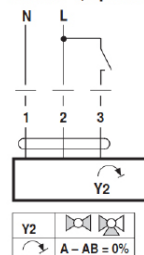
ZV3-230-21,0-20

3-Wege-O / C-Ventil mit 230-V-Stellantrieb, Kvs 21, DN20.

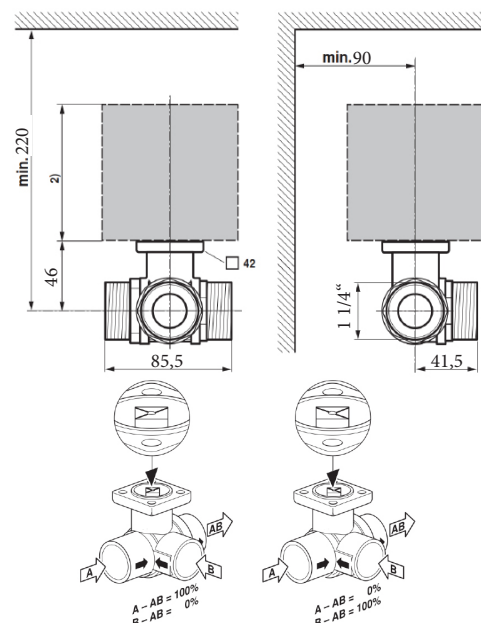
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV3-230-21,0-20	DN 20	21	230V / 50Hz	1W	35 s / 90°	IP40



AC 230 V, open-clo



Cable colours:
1 = blue
2 = brown
3 = white





ZV2-024-08,0-20

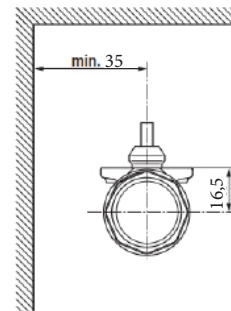
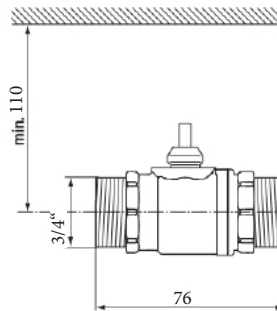
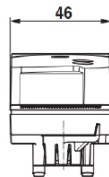
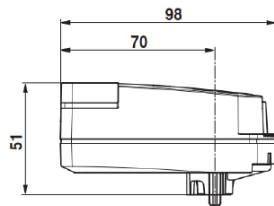
2-way valve with 24DCV actuator, 0-10V DC control signal, Kvs 8, DN20.



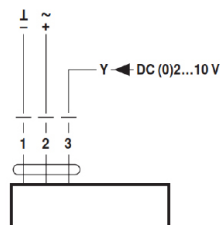
ZV2-024-08,0-20

2-Wege-Ventil mit 24DCV-Stellglied, 0-10V DC-Steuersignal, Kvs 8, DN20.

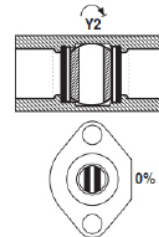
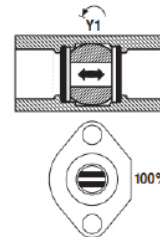
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV2-024-08,0-20	DN 20	8	24DC / 50-60Hz	0,3W	75 s / 90°	IP40



AC/DC 24 V, modulating



Cable colours:
1 = black
2 = red
3 = white



ZV3-024-04,0-20

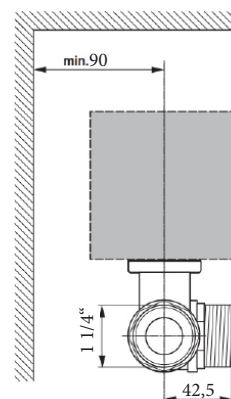
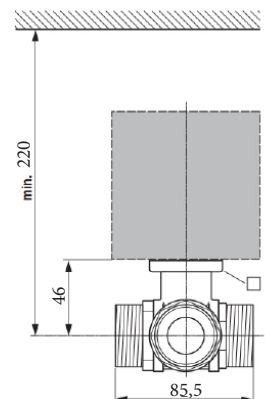
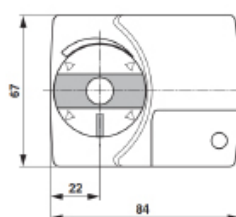
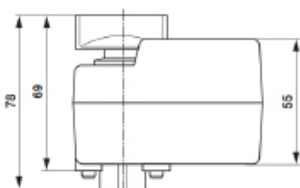
3-way valve with 24DCV actuator, 0-10V DC control signal, Kvs 4, DN20.



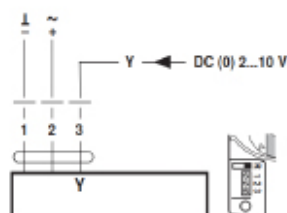
ZV3-024-04,0-20

3-Wege-Ventil mit 24DCV-Stellglied, 0-10V DC-Steuersignal, Kvs 4, DN20.

Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV3-024-04,0-20	DN 20	4	24DC / 50-60Hz	0,5W	90 s / 90°	IP40

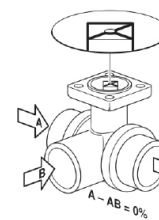
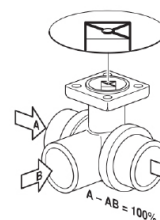


AC/DC 24 V, modulating



Cable colours:
1 = black
2 = red
3 = white

Direction of rotation R (standard)
when switch set to right position



ZV2-024-06,3-25

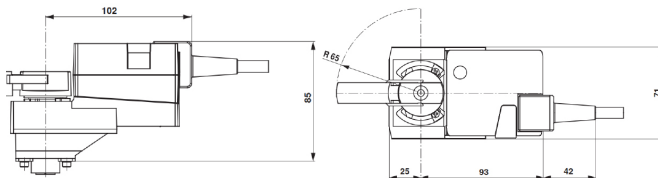
2-way valve with 24DCV actuator, 0-10V DC control signal, Kvs 6,3, DN25.



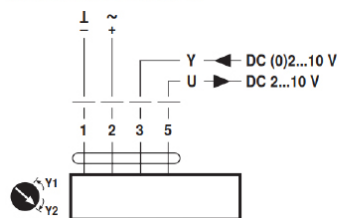
ZV2-024-06,3-25

2-Wege-Ventil mit 24DCV-Stellglied, 0-10V DC-Steuersignal, Kvs 6,3, DN25.

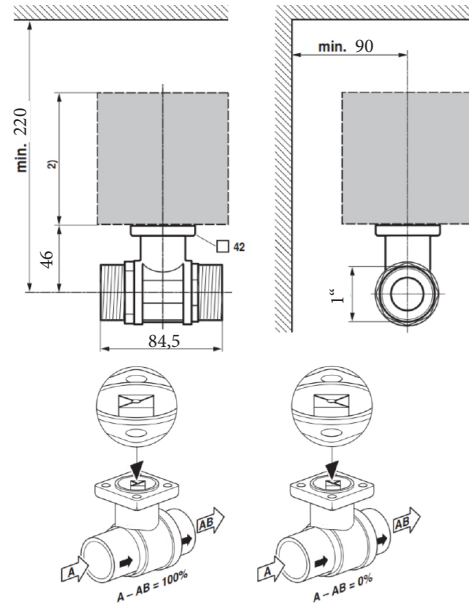
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV2-024-06,3-25	DN 25	6,3	24DC / 50-60Hz	1,5W	90 s / 90°	IP54



AC/DC 24 V, modulating



Cable colours:
1 = black
2 = red
3 = white
5 = orange



ZV3-024-06,3-20

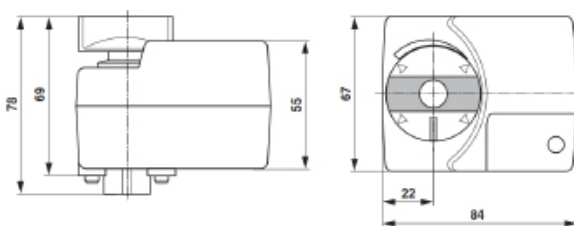
3-way valve with 24DCV actuator, 0-10V DC control signal, Kvs 6,3 DN20.



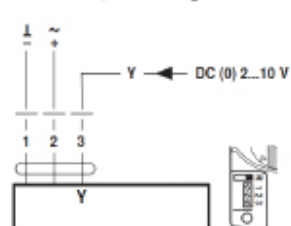
ZV3-024-06,3-20

3-Wege-Ventil mit 24DCV-Stellglied, 0-10V DC-Steuersignal, Kvs 6,3 DN20.

Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV3-024-06,3-20	DN 20	6,3	24DC / 50-60Hz	0,5W	90 s / 90°	IP40

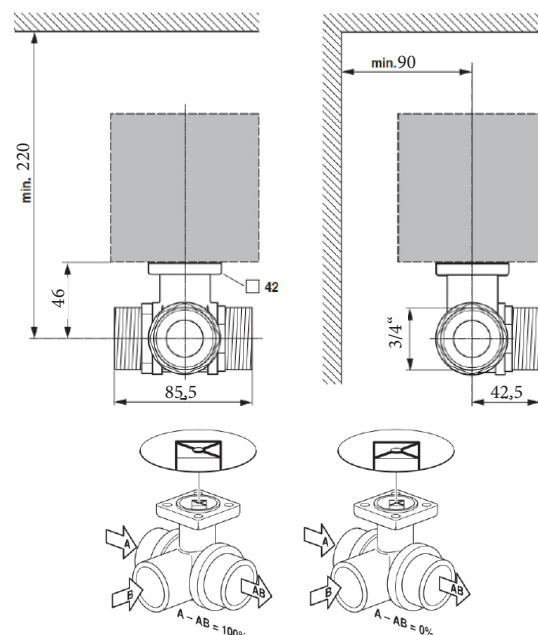


AC/DC 24 V, modulating



Cable colours:
1 = black
2 = red
3 = white

Direction of rotation R (standard)
when switch set to right position





ZV3-024-06,3-25

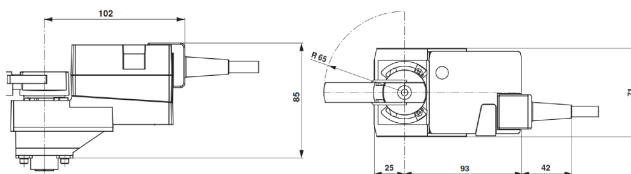
3-way valve with 24DCV actuator, 0-10V DC control signal, Kvs 6,3 DN25.



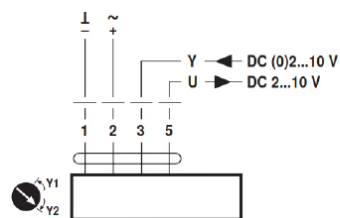
ZV3-024-06,3-25

3-Wege-Ventil mit 24DCV-Stellglied, 0-10V DC-Steuersignal, Kvs 6,3 DN25.

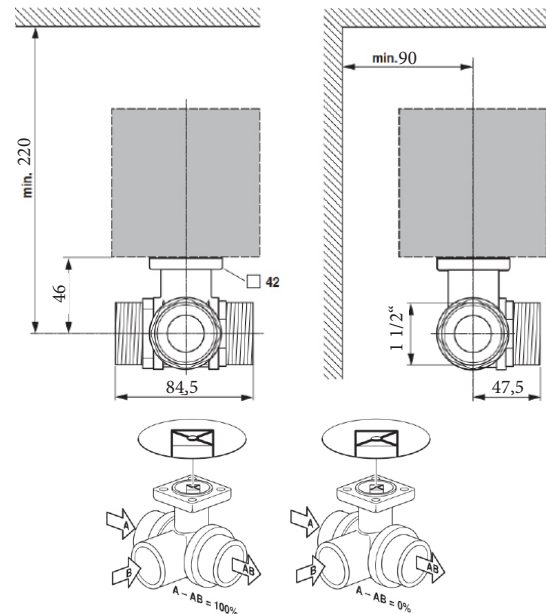
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV3-024-06,3-25	DN 25	6,3	24DC / 50-60Hz	0,5W	90 s / 90°	IP54



AC/DC 24 V, modulating



Cable colours:
1 = black
2 = red
3 = white
5 = orange



ZV2-024-10,0-25

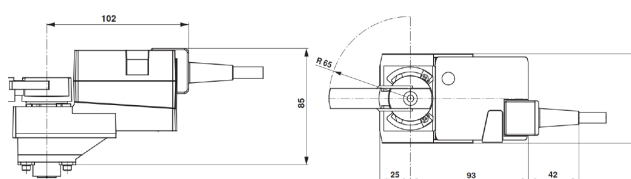
2-way valve with 24DCV actuator, 0-10V DC control signal, Kvs 10,0, DN25.



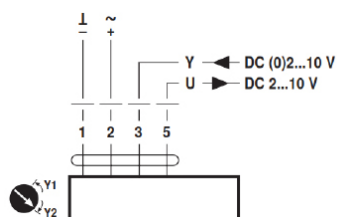
ZV2-024-10,0-25

2-Wege-Ventil mit 24DCV-Stellglied, 0-10V DC-Steuersignal, Kvs 10,0, DN25.

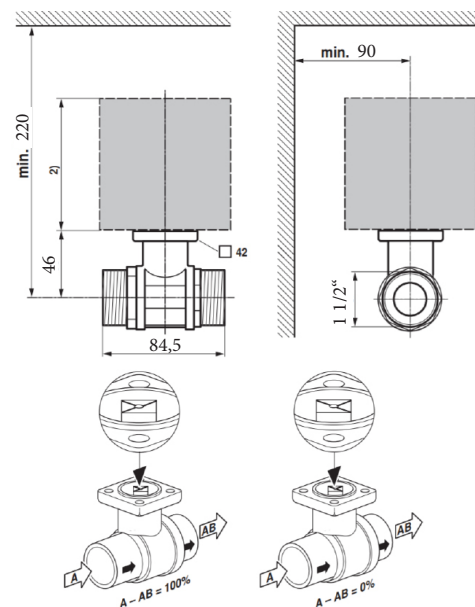
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV2-024-10,0-25	DN 25	10	24DC / 50-60Hz	1,5W	90 s / 90°	IP54



AC/DC 24 V, modulating



Cable colours:
1 = black
2 = red
3 = white
5 = orange





ZV3-024-10,0-25

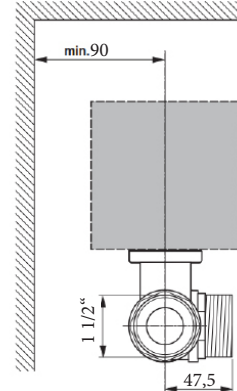
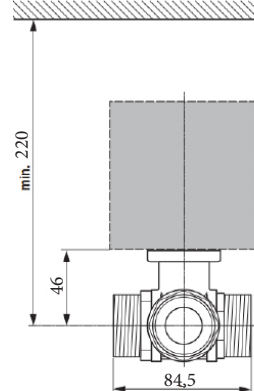
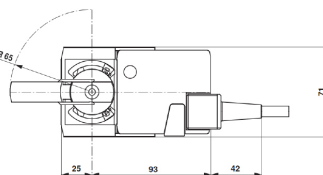
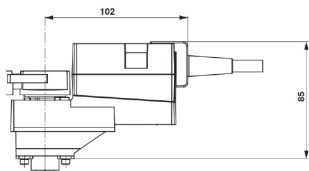
3-way valve with 24DCV actuator, 0-10V DC control signal, Kvs 10,0 DN25.



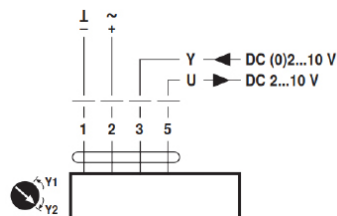
ZV3-024-10,0-25

3-Wege-Ventil mit 24DCV-Stellglied, 0-10V DC-Steuersignal, Kvs 10,0 DN25.

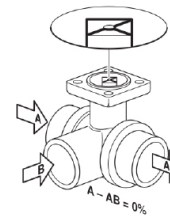
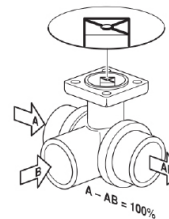
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV3-024-10,0-25	DN 25	10	24DC / 50-60Hz	0,5W	90 s / 90°	IP54



AC/DC 24 V, modulating



Cable colours:
1 = black
2 = red
3 = white
5 = orange



ZV2-024-16,0-25

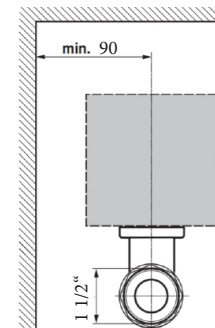
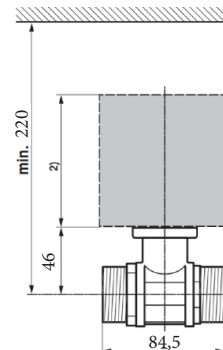
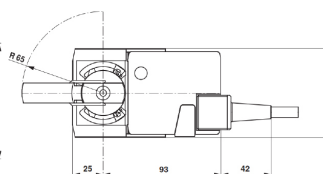
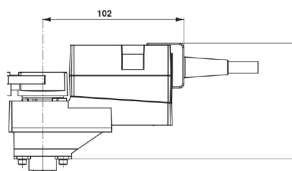
2-way valve with 24DCV actuator, 0-10V DC control signal, Kvs 16,0, DN25.



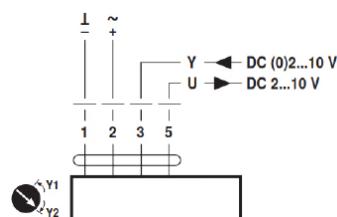
ZV2-024-16,0-25

2-Wege-Ventil mit 24DCV-Stellglied, 0-10V DC-Steuersignal, Kvs 16,0, DN25.

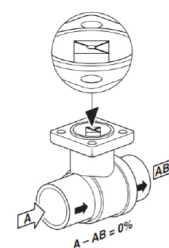
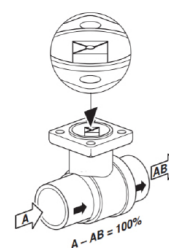
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV2-024-16,0-25	DN 25	10	24DC / 50-60Hz	1,5W	90 s / 90°	IP54



AC/DC 24 V, modulating



Cable colours:
1 = black
2 = red
3 = white
5 = orange





ZV3-024-16,0-32

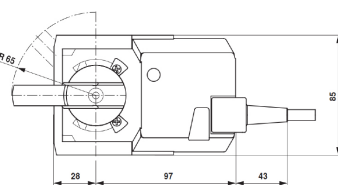
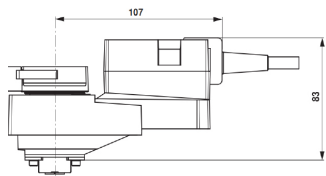
3-way valve with 24DCV actuator, 0-10V DC control signal, Kvs 106,0 DN32.



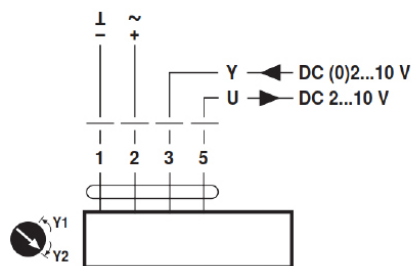
ZV3-024-16,0-32

3-Wege-Ventil mit 24DCV-Stellglied, 0-10V DC-Steuersignal, Kvs 106,0 DN32.

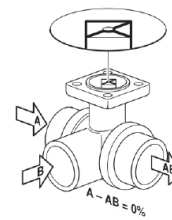
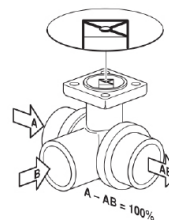
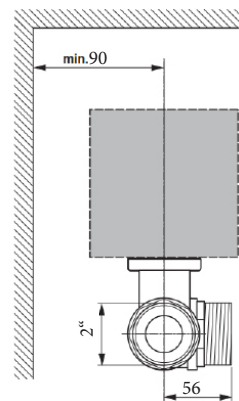
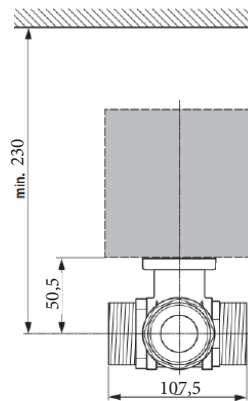
Type Typ	connection size Anschluss Abmessung	k_{vs} [m³/h] k_{vs} [m³/St]	voltage [V/Hz] Spannung [V/Hz]	power consumption Leistung	displacement time Umstellungszeit	Protection class Schutzklasse
ZV3-024-16,0-32	DN 32	16	24DC / 50-60Hz	2,5W	90 s / 90°	IP54



AC/DC 24 V, modulating



Cable colours:
1 = black
2 = red
3 = white
5 = orange



KEY TO CODING

ZV2-230-08,0-20

20 - DN20
25 - DN25
32 - DN32

04,0 - K_{vs} 4,0
06,3 - K_{vs} 6,3
08,0 - K_{vs} 8,0
10,0 - K_{vs} 10,0
16,0 - K_{vs} 16,0

230 - 230V AC (O/C control)
024 - 24V DC (0-10V DC control)

ZV2 - 2-way zone valve
ZV3 - 3-way zone valve



CODIERSCHLÜSSEL

ZV2-230-08,0-20

20 - DN20
25 - DN25
32 - DN32

04,0 - K_{vs} 4,0
06,3 - K_{vs} 6,3
08,0 - K_{vs} 8,0
10,0 - K_{vs} 10,0
16,0 - K_{vs} 16,0

230 - 230V AC (O/C control)
024 - 24V DC (0-10V DC control)

ZV2 - 2-Wege-Zonenventil
ZV3 - 3-Wege-Zonenventil