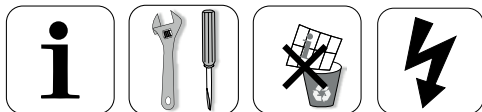
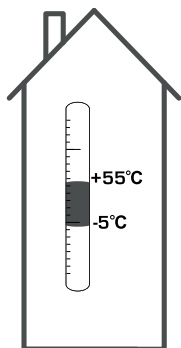


ESBE SERIES ARA600 Prop



Series ARA639
Series ARA659

CE
LVD 2006/95/EC
EMC 89/336/EEC
RoHS 2002/95/EEC



i



+



VRG, VRB, VRH

3MG, 4MG



3G, 4G

3F, 4F ≤ DN50

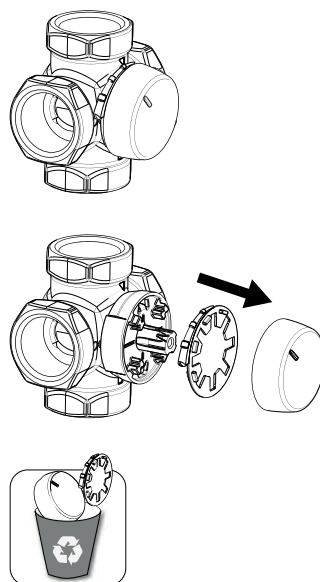
3HG, 4HG, 3H, 4H



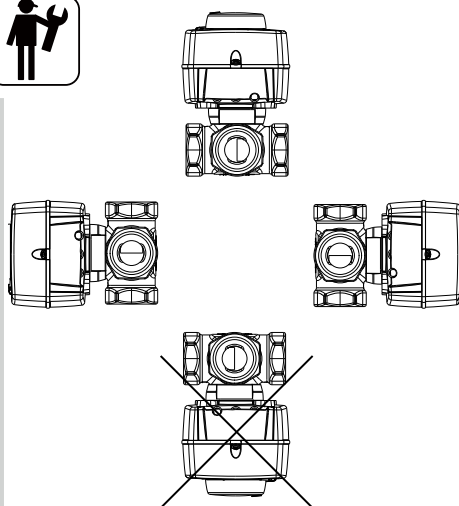
BIV

T, TM

1



2

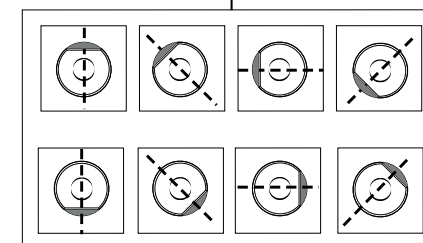
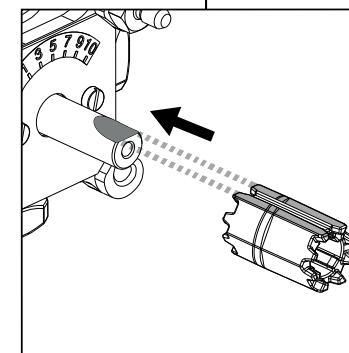
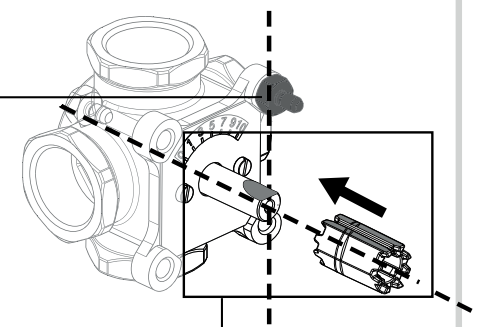


3

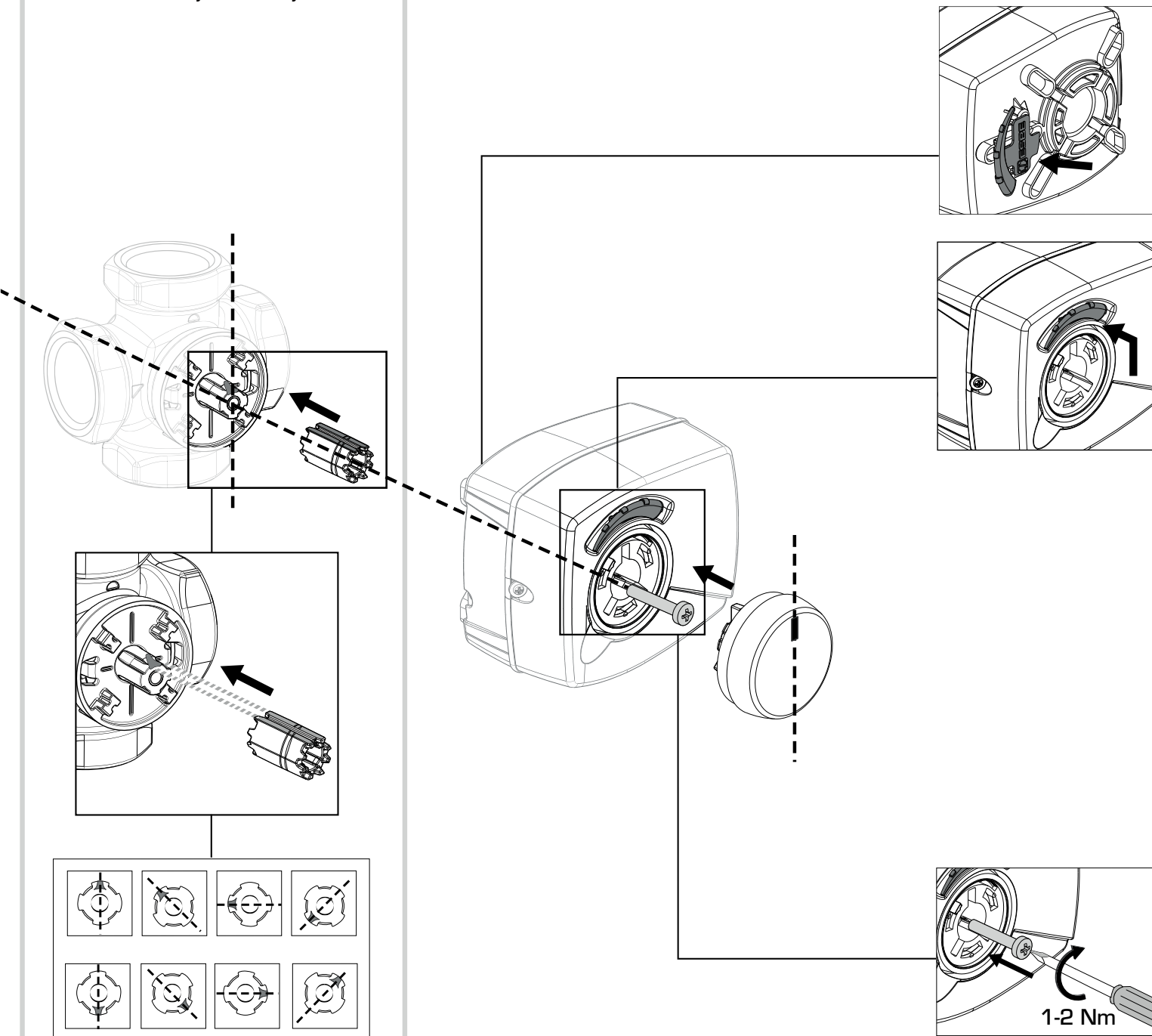


Series MG, G, F, H, HG, BIV, T, TM

	DN15-25	
	DN20-40	
	DN50	
	DN20-25	
	DN32-50	
	H: DN25	
	H: DN32-50	
	HG: DN25	
	DN20-22	
	DN25	
	T: DN20-32	
	TM: DN20	



Series VRGxxx, VRBxxx, VRHxxx



Mtrl.nr. 9814 02 76 • Ritn.nr. 8082 utg. J • Rev. 1608



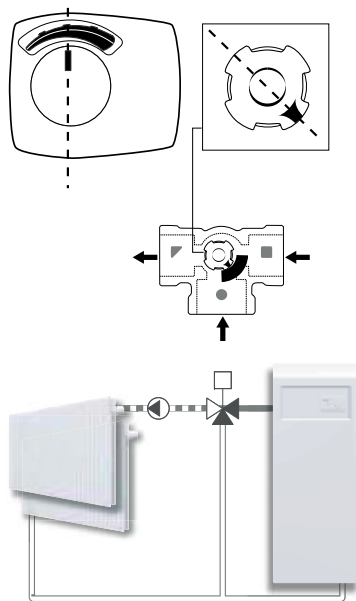
SERIES ARA600 Prop



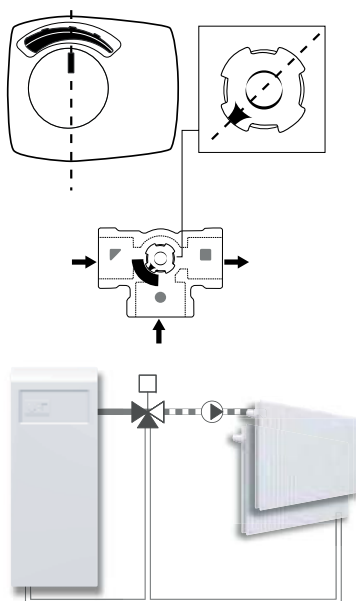
NO.1 IN HYDRONIC SYSTEM CONTROL

SERIES VRG130

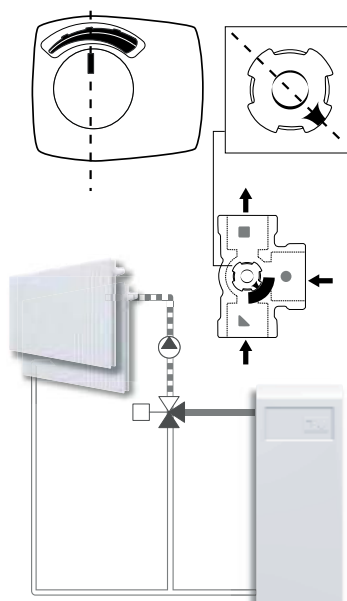
a



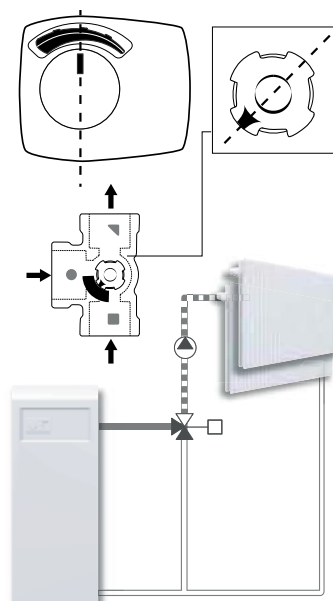
b



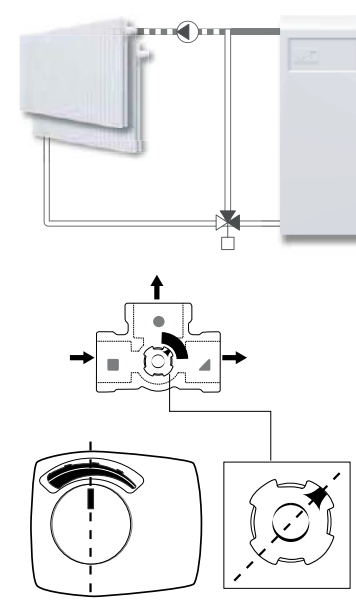
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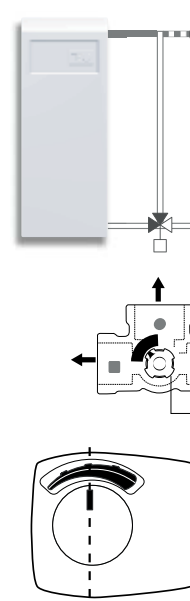
d



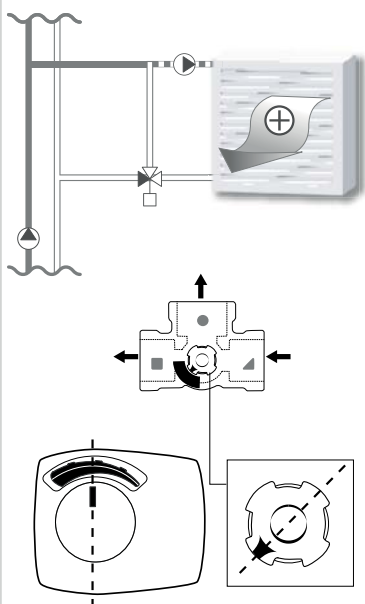
e



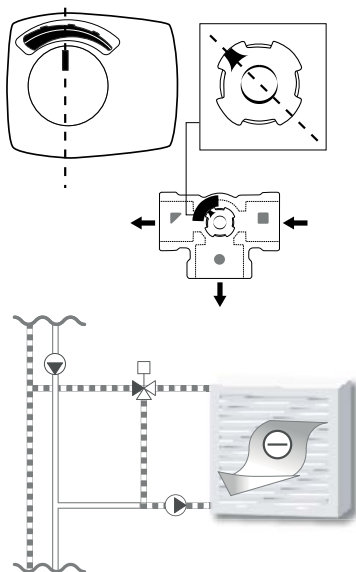
f



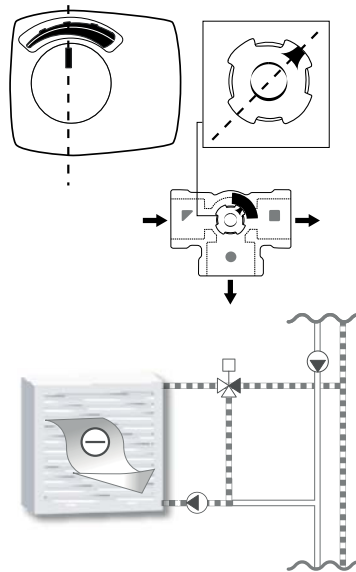
l



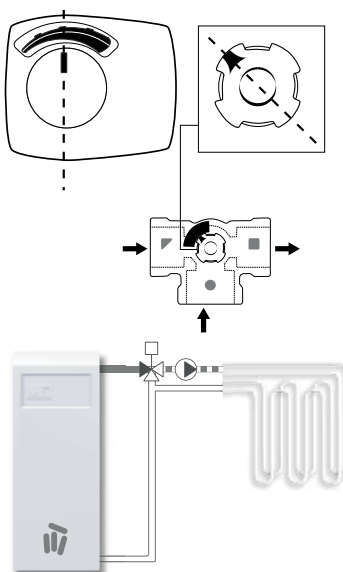
m



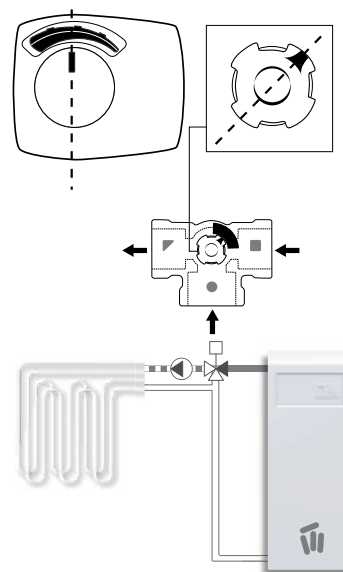
n



o



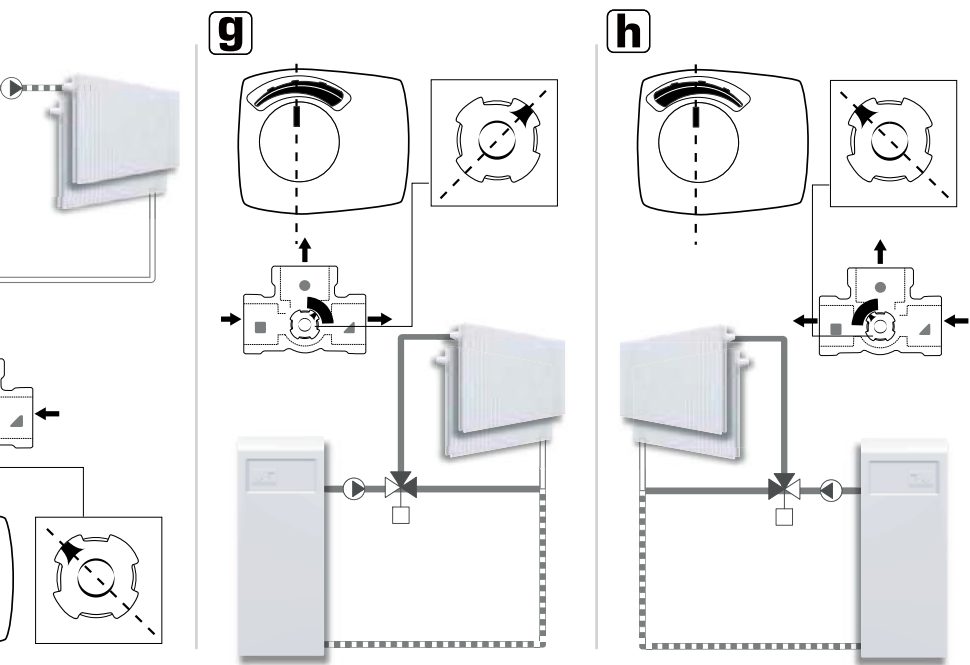
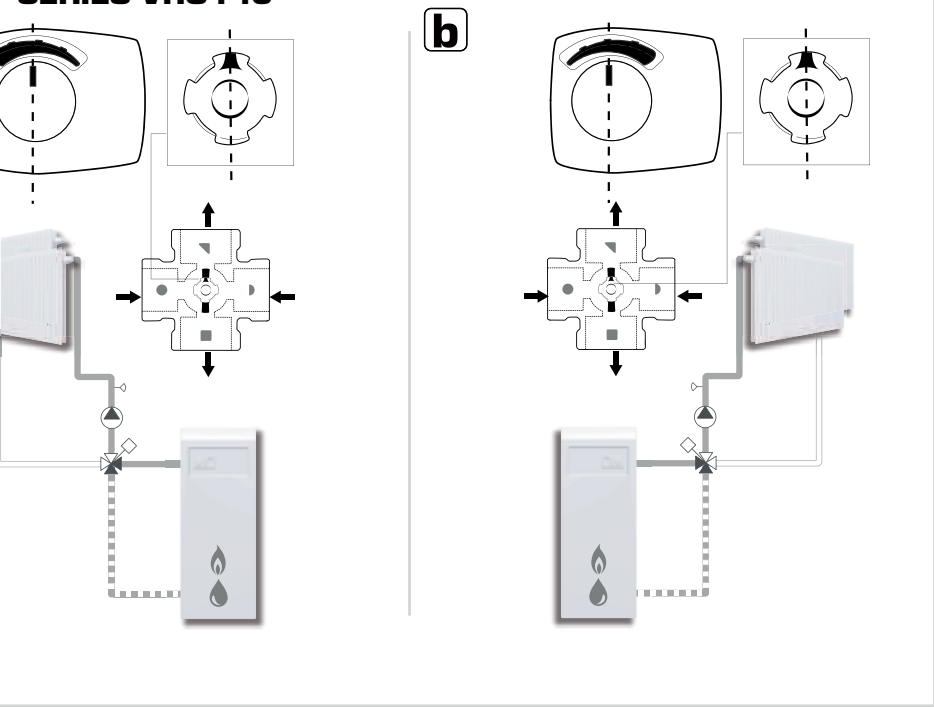
p



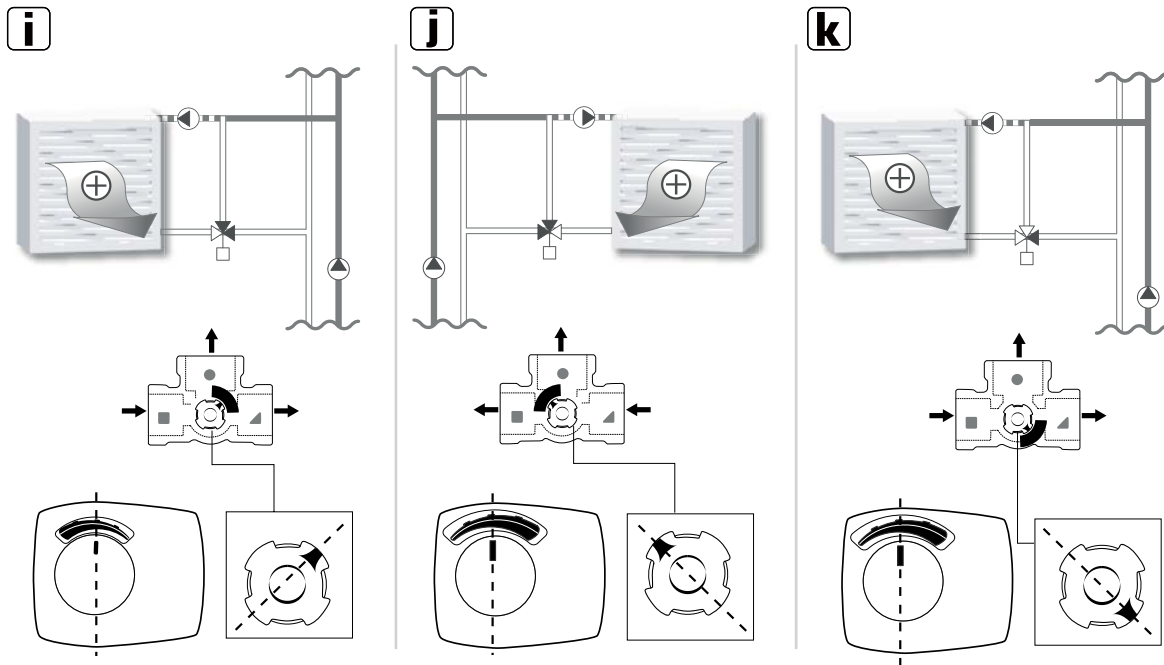
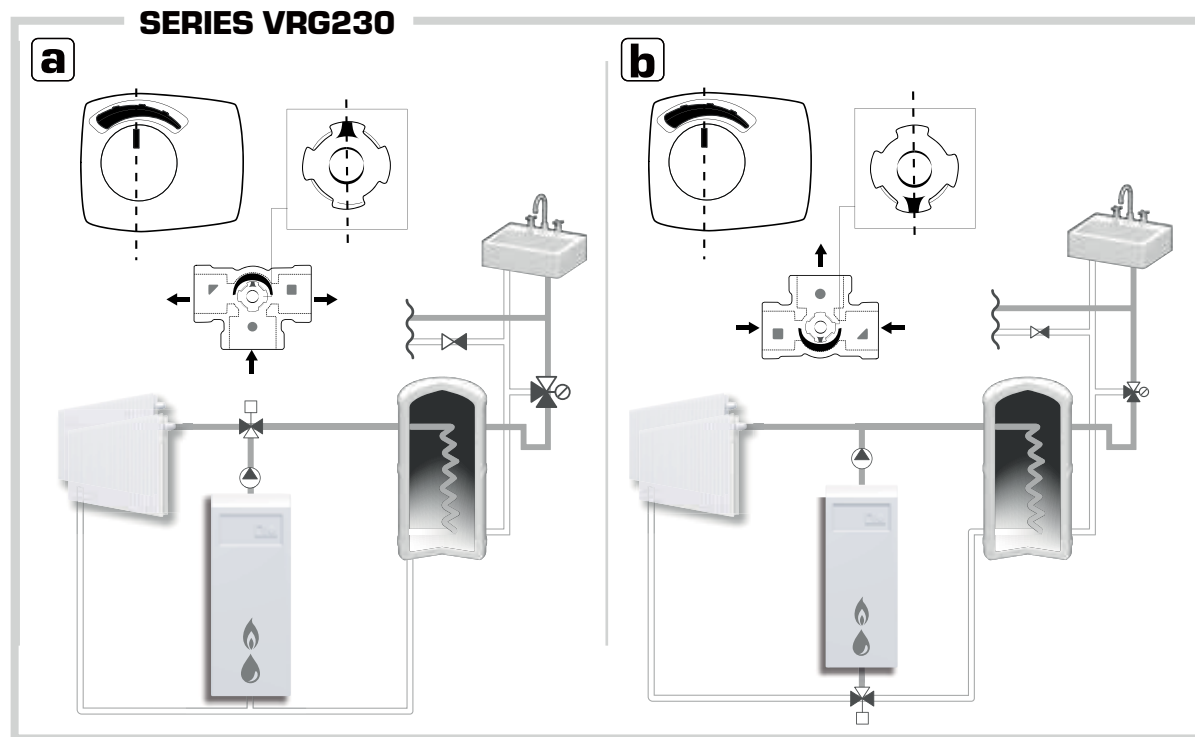
a



SERIES VRG140

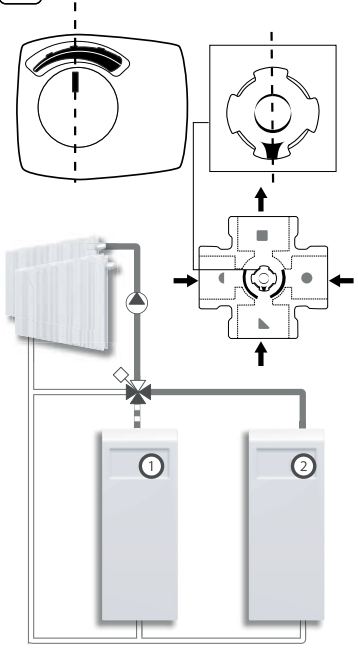


SERIES VRG230

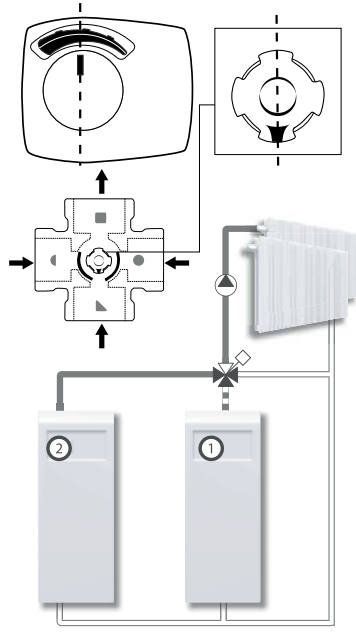


SERIES VRB140

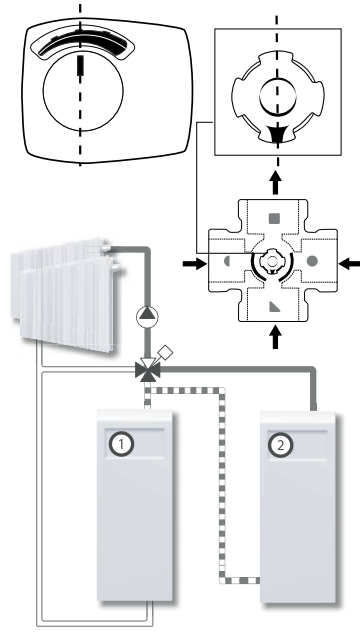
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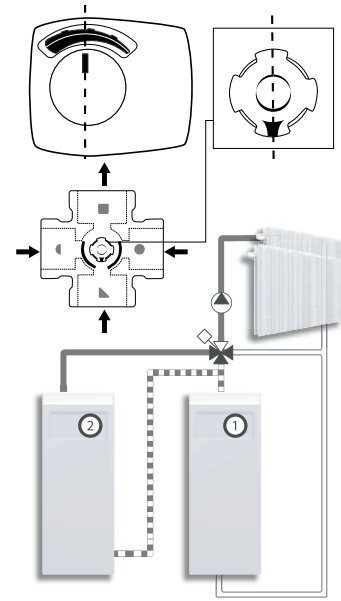
b



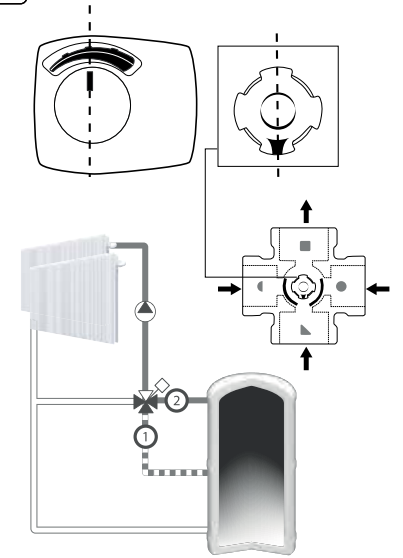
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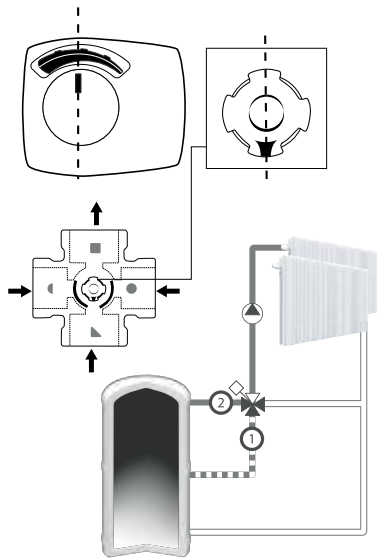
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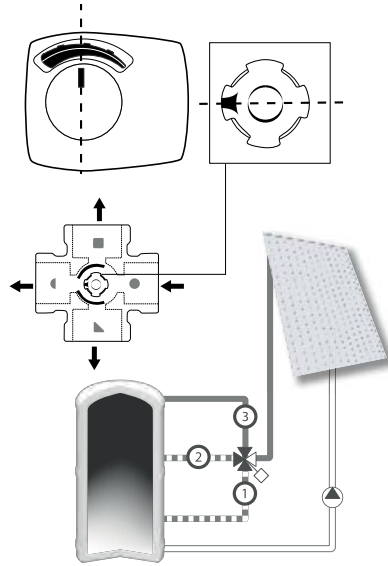
e



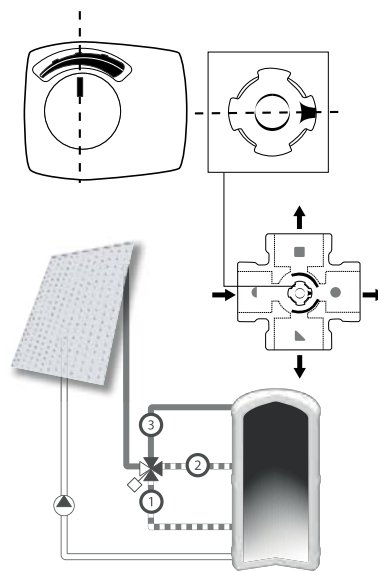
f



g

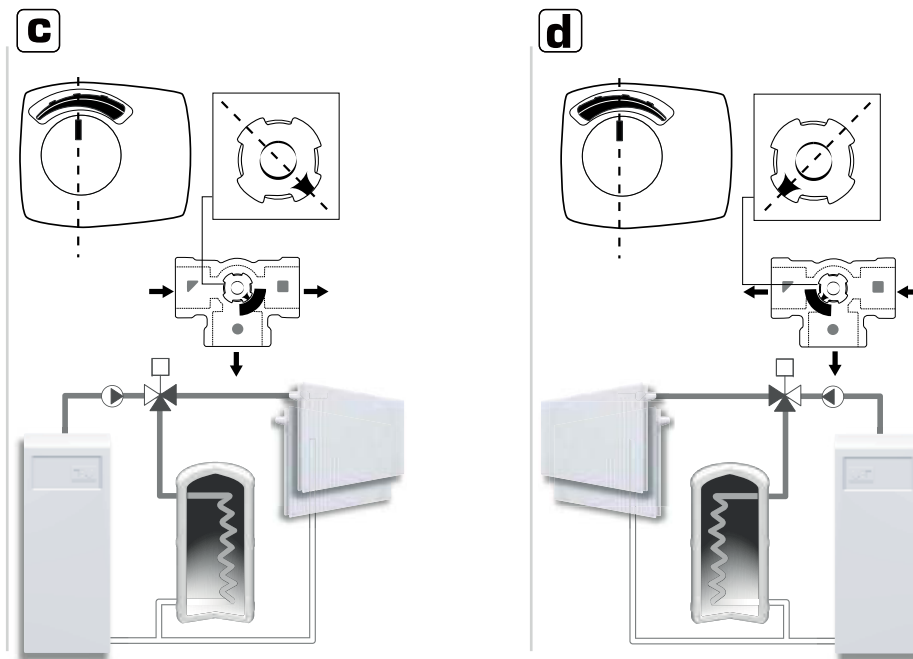
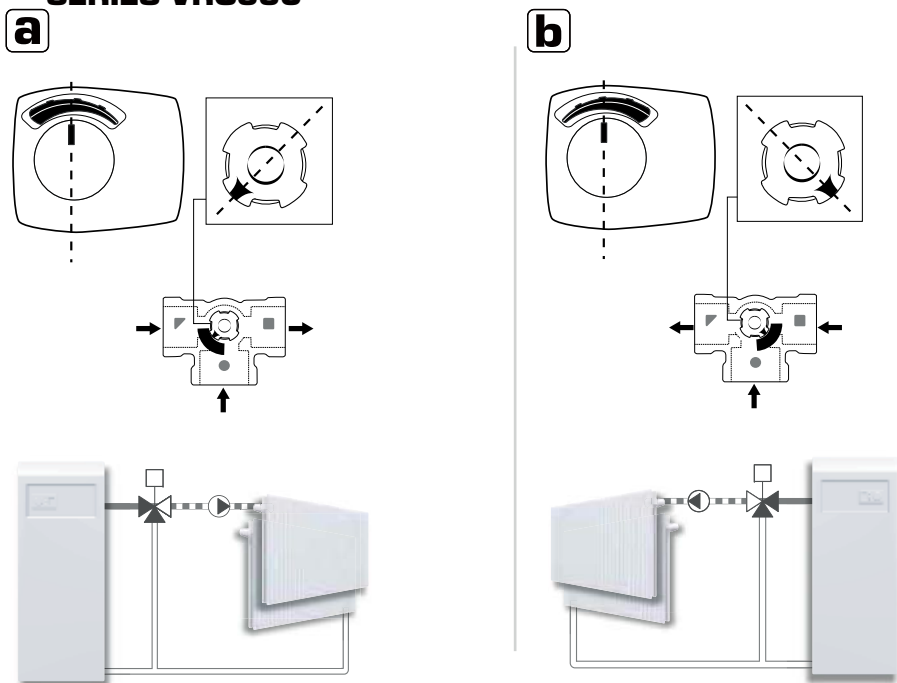


h



Piping Schematics are General Representations

SERIES VRG330



"We would like to pinpoint to the existence of a German patent DE 19821256C5 affecting the usage of bivalent 4-way valves in liquid circulation heating systems. In this patent the usage of a 4-way bivalent valve in a type of heating system is protected, in which 2 different heating circuits are operated in parallel, where the return of the first circuit is utilized as heat source for the second circuit. This patent is owned by the company Vötsch Heiztechnik GmbH, Germany. The patent is valid in Germany and in other countries where the floor heating in a regulated manner is heated through its heat source and the return from the primary heat circuit is utilized as alternative secondary heat source for the floor heating. Such a utilization of our product VRG 4-way valve without approval of the patent holder is forbidden. All other applications our product group VRB are without restrictions possible."

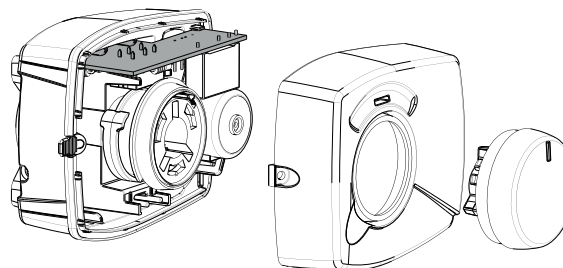
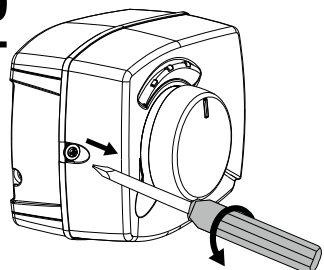
4



1



2





Series ARA639

3/U

3/I

4/U

ON

120s 60s 30s 15s

0-10V 0-20mA 2-10V 4-20mA

Y

ON

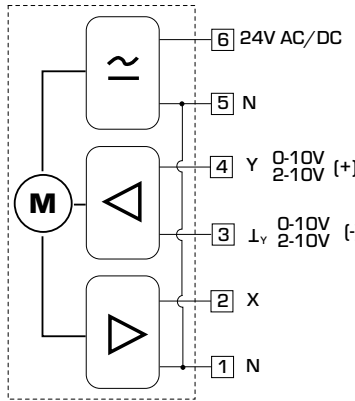
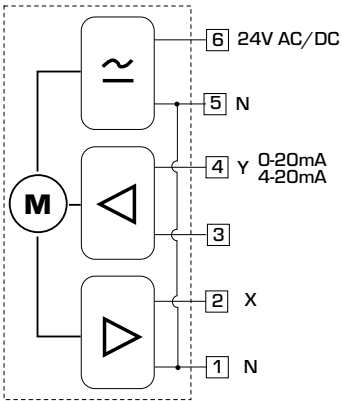
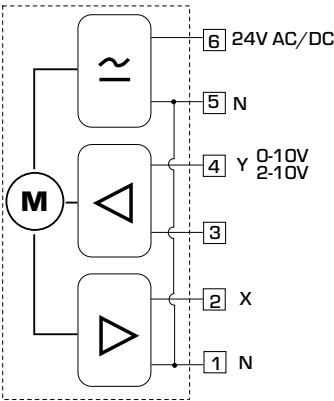
SEQ

CW CCW

WAVEFORMS

ON

1 2 3 4 5 6 7 8



ON

120s 60s 30s

OFF

ON

ON

CW CCW

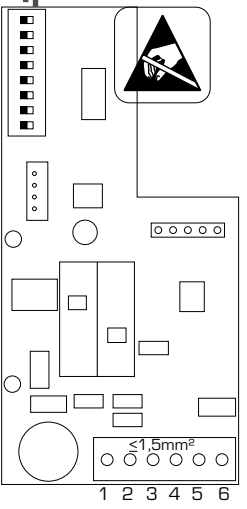
OFF

OFF

ON

1 2 3 4 5 6 7 8

SEQ Cntrl



ON

120s 60s 30s 15s

2-10V 4-20mA

Y

ON

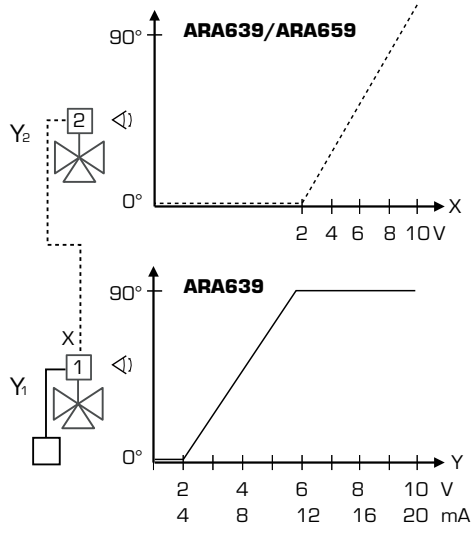
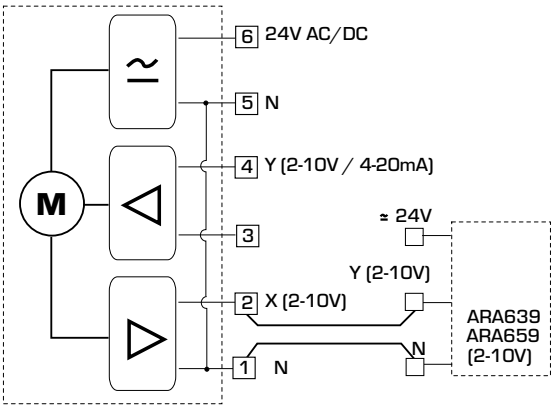
SEQ

CW CCW

WAVEFORMS

ON

1 2 3 4 5 6 7 8



Series ARA659



3-point

2-point

15s



6 CCW
(24V) AC/DC

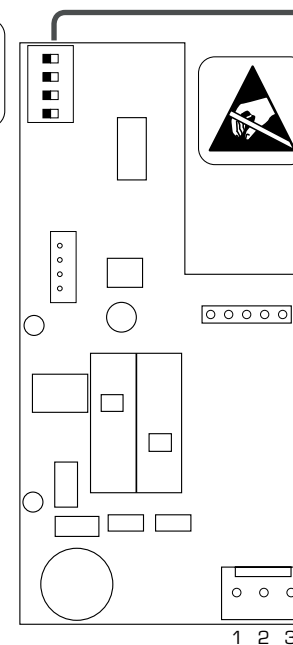
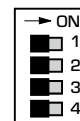
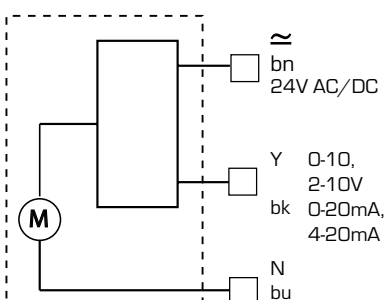
5 N

4 CW
(24V) AC/DC

6 24V AC/DC

5 N

4 9-24V=
CW AC/DC
0-2V=
CCW AC/DC



ON	1	120s	45s
ON	2	CW	CCW
0-10V	0-20mA	2-10V	4-20mA
Y	3	3	3
	4	4	4

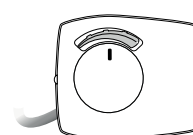
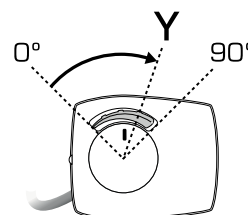
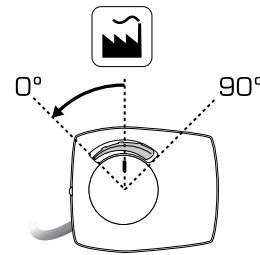
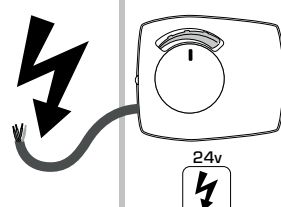
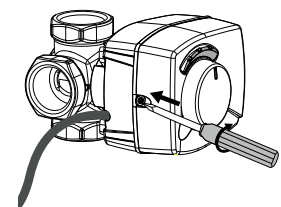
5



1

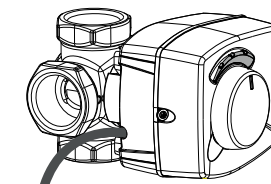
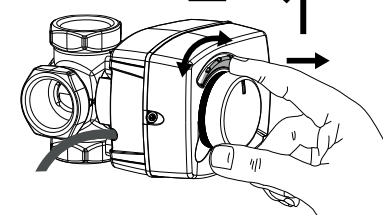
2

3



2

1



По вопросам продаж и технической поддержки обращайтесь:

сайт: esbe.pro-solution.ru эл. почта: ebs@pro-solution.ru телефон: 8 800 511 88 70

Астрахань: +7 (851) 299-46-80

Барнаул: +7 (385) 237-96-76

Белгород: +7 (472) 220-58-80

Владимир: +7 (492) 249-51-33

Волгоград: +7 (844) 245-94-42

Екатеринбург: +7 (343) 302-14-75

Ижевск: +7 (341) 220-90-75

Казань: +7 (843) 207-19-05

Калининград: +7 (401) 272-21-36

Кемерово: +7 (384) 221-56-70

Киров: +7 (833) 220-58-70

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Красноярск: +7 (391) 989-82-67

Курск: +7 (471) 223-80-45

Липецк: +7 (474) 220-01-75

Москва: +7 (499) 404-24-72

Набережные Челны: +7 (855) 291-01-32

Нижний Новгород: +7 (831) 200-34-65

Новосибирск: +7 (383) 235-95-48

Омск: +7 (381) 299-16-70

Оренбург: +7 (353) 248-64-35

Пермь: +7 (342) 233-81-65

Ростов-на-Дону: +7 (863) 309-14-65

Рязань: +7 (491) 277-61-95

Самара: +7 (846) 219-28-25

Санкт-Петербург: +7 (812) 660-57-09

Саратов: +7 (845) 239-86-35

Смоленск: +7 (481) 251-55-32

Ставрополь: +7 (865) 257-76-63

Сургут: +7 (346) 277-96-35

Тверь: +7 (482) 239-50-56

Тула: +7 (487) 244-05-30

Тюмень: +7 (345) 256-94-75

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Чебоксары: +7 (835) 228-50-89

Челябинск: +7 (351) 277-89-65

Ярославль: +7 (485) 267-02-35

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