

**Selection criteria for control valves**

For Processing plants	•	•
Industrial energy transfer systems	•	•
Heat transfer oil		•
Heating, ventilation and air-conditioning	•	•
District heating	•	•
Controller with electric actuator		



Version		
Nominal size	DN 100 and smaller	DN 150 and smaller
Nominal pressure	PN 10 to 40	PN 16 to 40
Permissible temperature range	-10 to +300 °C	-196 to +450 °C
Free of non-ferrous metal	•	•

Tested in compliance with DIN EN 14597













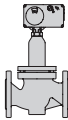
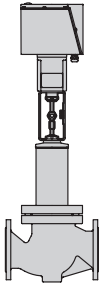
See overview on page 6 and 7



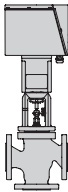
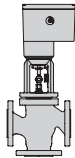
	 V2001: Type 3321-E3 See T 8111 EN	 Type 3241/3274 See T 5871/5874 EN
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	 V2001: Type 3323-IP See T 8113 EN	 Type 3244/3374 See T 5870 EN
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1) Extended temperature range down to -70 °C on request    2) Also with controller with electric actuators    3) Only up to DN 32    4) Only up to DN 80

	•	•	
	•	•	•
	•	•	•
	•	•	
			Control valves with motorized orifice
	DN 50 and smaller	DN 250 and smaller	DN 250 and smaller
	PN 25	PN 16 to 40	PN 16 to 40
	-15 to +200 °C	-10 to +220 °C	Up to 150 °C
	 See overview on page 6 and 7		
	 Type 3222/5825 <sup>2)</sup> See T 5866 EN      Type 3222/5857 <sup>2)</sup> See T 5866 EN	 Type 3213/5825 <sup>2)</sup> See T 5869 EN      Type 3214/3274 See T 5868/5869 EN	 Type 42-36 E <sup>2)</sup> See T 3018 EN
	 Type 3226/5824 <sup>2)</sup> See T 5863 EN      Type 3226/5857 <sup>2)</sup> See T 5863 EN	 Type 3260/5857 <sup>2)</sup> See T 5861 EN      Type 3260/3374 See T 5861 EN	 Type 2488/5825 <sup>2)</sup> See T 3135 EN      Type 2488/5857 <sup>2)</sup> See T 3135 EN
	 Type 3267/5824 with screwed ends <sup>2,3)</sup> See T 5895 EN		

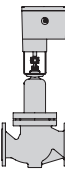



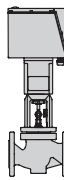
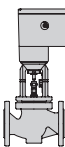
Control valves with globe valves					
Type of end connections	Flanged body	Flanged body	Flanged body	Flanged body	
Nominal size	DN 15 to 50	DN 15 to 25	DN 15 to 50	DN 125 to 250	
Nominal pressure	PN 16 and 25	PN 25	PN 16 to 40	PN 16 to 40	
Max. permissible temperature	150 °C (200 °C)	150 °C (200 °C)	150 °C (220 °C)	150 °C (220 °C)	
Control signal	<b>Three-point stepping</b> (normal version)	230 V/50 Hz 230 V/60 Hz (spec. version) 24 V/50 Hz 120 V/60 Hz	230 V/50 Hz 24 V/50 Hz	230 V/50 Hz 230 V/60 Hz (spec. version) 24 V/50 Hz 120 V/60 Hz	230 V/50 or 60 Hz 110 V/50 or 60 Hz 24 V/50 or 60 Hz
	<b>Continuous</b> (special version)	24 V/50 and 60 Hz, 24 V DC 85 to 264 V/50 and 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	24 V/50 and 60 Hz, 24 V DC 0 (2) to 10 V	24 V/50 and 60 Hz, 24 V DC 85 to 264 V/50 and 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	230 V/50 or 60 Hz 110 V/50 or 60 Hz 24 V/50 or 60 Hz 0 (2) to 10 V 0 (4) to 20 mA
Electric	 Type 3213/5824 <sup>1)</sup> See T 5868 EN	 Type 3213/5857 <sup>1)</sup> See T 5868 EN	 Type 3214/5824 <sup>1)</sup> See T 5868 EN	 Type 3214/3274 See T 5868 EN	



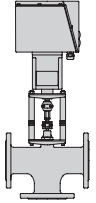
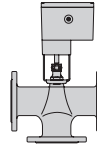

Control valves with three-way valves (mixing or diverting valves)					
Type of end connections	Female thread Welding ends Threaded ends	Female thread Welding ends Threaded ends	Flanged body	Flanged body	
Nominal size	DN 15 to 50 <sup>2)</sup>	DN 15 to 25	DN 15 to 150	DN 125 to 150	
Nominal pressure	PN 25	PN 25	PN 16 to 40	PN 16 to 40	
Max. permissible temperature	150 °C	150 °C	220 °C (450 °C)	220 °C (450 °C)	
Control signal	<b>Three-point stepping</b> (normal version)	230 V/50 Hz 230 V/60 Hz (spec. version) 24 V/50 Hz 120 V/60 Hz	230 V/50 Hz 24 V/50 Hz	230 V/50 or 60 Hz 110 V/50 or 60 Hz 24 V/50 or 60 Hz	230 V/50 or 60 Hz 120 V/60 Hz 24 V/50 or 60 Hz
	<b>Continuous</b> (special version)	24 V/50 and 60 Hz, 24 V DC 85 to 264 V/50 and 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	24 V/50 and 60 Hz, 24 V DC 0 (2) to 10 V	230 V/50 or 60 Hz 110 V/50 or 60 Hz 24 V/50 or 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	230 V/50 or 60 Hz 120 V/60 Hz 24 V/50 or 60 Hz 0 (2) to 10 V 0 (4) to 20 mA
Electric	 Type 3226/5824 <sup>1)</sup> See T 5863 EN	 Type 3226/5857 <sup>1)</sup> See T 5863 EN	 Type 3244/3274 See T 5874 EN	 Type 3244/3374 See T 5870 EN	

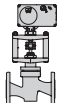



<sup>1)</sup> Also with controller with electric actuator

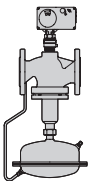
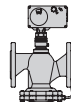

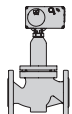
<sup>2)</sup> Female thread G ½ to 1 only

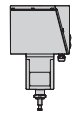



<sup>3)</sup> Tested in compliance with DIN EN 14597

	Flanged body	Female thread Welding ends Threaded ends Flanged body	Female thread Welding ends Threaded ends Flanged body	Welding ends Threaded ends Soldering ends	Flanged body	Flanged body
	DN 65 to 100	DN 15 to 50 <sup>2)</sup>	DN 15 to 25	DN 25	DN 15 to 150	DN 15 to 150
	PN 16 to 40	PN 25	PN 25	PN 16	PN 16 to 40	PN 16 to 40
	220 °C	150 °C (200 °C)	150 °C (200 °C)	120 °C	220 °C (450 °C)	220 °C (450 °C)
	230 V/50 or 60 Hz 120 V/60 Hz 24 V/50 or 60 Hz	230 V/50 Hz 230 V/60 Hz (spec. version) 24 V/50 Hz 120 V/60 Hz	230 V/50 Hz 24 V/50 Hz	230 V/50 Hz 24 V/50 Hz	230 V/50 or 60 Hz 110 V/50 or 60 Hz 24 V/50 or 60 Hz	230 V/50 or 60 Hz 120 V/60 Hz 24 V/50 or 60 Hz
	230 V/50 or 60 Hz 120 V/60 Hz 24 V/50 or 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	24 V/50 and 60 Hz, 24 V DC 85 to 264 V/50 and 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	24 V/50 and 60 Hz, 24 V DC 0 (2) to 10 V	24 V/50 and 60 Hz, 24 V DC 0 (2) to 10 V	230 V/50 or 60 Hz 110 V/50 or 60 Hz 24 V/50 or 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	230 V/50 or 60 Hz 120 V/60 Hz 24 V/50 or 60 Hz 0 (2) to 10 V 0 (4) to 20 mA
						
	Type 3214/3374 See T 5868 EN	Type 3222/5824 <sup>1)</sup> See T 5866	Type 3222/5857 <sup>1)</sup> See T 5866 EN	Type 3222 N/5857 <sup>1)</sup> See T 5867 EN	Type 3241/3274 See T 5874 EN	Type 3241/3374 See T 5870 EN

	Flanged body	Flanged body	Flanged body	Flanged body	Control valves with jet pump Screwed ends
	DN 15 to 50	DN 15 to 25	DN 100 to 150	DN 65 to 150	DN 15 to 32
	PN 16	PN 16	PN 16	PN 16	PN 25
	130 °C (150 °C)	120 °C (150 °C)	150 °C	150 °C	110 °C (150 °C)
	230 V/50 Hz 230 V/60 Hz (spec. version) 24 V/50 Hz 120 V/60 Hz	230 V/50 Hz 24 V/50 Hz	230 V/50 or 60 Hz 110 V/50 or 60 Hz 24 V/50 or 60 Hz	230 V/50 or 60 Hz 120 V/60 Hz 24 V/50 or 60 Hz	230 V/50 Hz 24 V/50 Hz
	24 V/50 and 60 Hz, 24 V DC 85 to 264 V/50 and 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	24 V/50 and 60 Hz, 24 V DC 0 (2) to 10 V	230 V/50 or 60 Hz 110 V/50 or 60 Hz 24 V/50 or 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	230 V/50 or 60 Hz 120 V/60 Hz 24 V/50 or 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	24 V/50 and 60 Hz, 24 V DC 0 (2) to 10 V
					
	Type 3260/5824 <sup>1)</sup> See T 5861 EN	Type 3260/5857 <sup>1)</sup> See T 5861 EN	Type 3260/3274 See T 5861 EN	Type 3260/3374 See T 5861 EN	Type 3267/5857 <sup>1)</sup> See T 5895 EN
					Other control valves: Type 3267/5824 <sup>1)</sup> Type 3267/5825 <sup>1, 3)</sup>

Series V2001 control valves with flanged bodies	
Version	Globe valve
Nominal size	DN 15 to 100
Nominal pressure	PN 10 to 40
Max. permissible temperature	220 °C (300 °C with extension bonnet)
Electric	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>V2001: Type 3321-E1<sup>4)</sup> See T 8111 EN</p> </div> <div style="text-align: center;">  <p>V2001: Type 3321-E3<sup>1,2)</sup> See T 8111 EN</p> </div> </div>
Pneumatic	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>V2001: Type 3321-IP See T 8111 EN</p> </div> <div style="text-align: center;">  <p>V2001: Type 3321-PP See T 8111 EN</p> </div> </div>

Control valves with fail-safe action (globe valves for water and steam in heating installations according to DIN EN 14597)					
Type of end connections	Flanged body	Female thread Welding ends Threaded ends Flanged body	Flanged body	Flanged body	
Nominal size	DN 15 to 250	DN 15 to 50 <sup>3)</sup>	DN 15 to 50	DN 15 to 50	
Nominal pressure	PN 16 to 40	PN 16 and 25	PN 16 and 25	PN 16 to 40	
Max. permissible temperature	150 °C	150 °C	150 °C (200 °C)	150 °C (220 °C)	
Control signal					
<b>Three-point stepping</b> (normal version)	230 V/50 Hz 230 V/60 Hz (spec. version) 24 V/50 Hz 120 V/60 Hz	230 V/50 Hz 230 V/60 Hz (spec. version) 24 V/50 Hz 120 V/60 Hz	230 V/50 Hz 230 V/60 Hz (spec. version) 24 V/50 Hz 120 V/60 Hz	230 V/50 Hz 230 V/60 Hz (spec. version) 24 V/50 Hz 120 V/60 Hz	
<b>Continuous</b> (special version)	24 V/50 and 60 Hz, 24 V DC 85...264 V/50 and 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	24 V/50 and 60 Hz, 24 V DC 85...264 V/50 and 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	24 V/50 and 60 Hz, 24 V DC 85...264 V/50 and 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	24 V/50 and 60 Hz, 24 V DC 85...264 V/50 and 60 Hz 0 (2) to 10 V 0 (4) to 20 mA	
Electric	<div style="text-align: center;">  <p>Type 42-36 E<sup>4)</sup> See T 3018 EN</p> </div>	<div style="text-align: center;">  <p>Type 2488/5825<sup>4)</sup> See T 3135 EN</p> </div>	<div style="text-align: center;">  <p>Type 3213/5825<sup>4)</sup> See T 5869 EN</p> </div>	<div style="text-align: center;">  <p>Type 3214/5825<sup>4)</sup> See T 5869 EN</p> </div>	

Actuators					
Electric				•	
Electrohydraulic	•				
Pneumatic		•	•		
Controller with electric actuator	<div style="text-align: center;">  <p>Type 3274 See T 8340 EN</p> </div>	<div style="text-align: center;">  <p>Type 3371 See T 8310-1 EN</p> </div>	<div style="text-align: center;">  <p>Type 3372</p> </div>	<div style="text-align: center;">  <p>Type 3374 See T 8334 EN</p> </div>	

<sup>1)</sup> Tested in compliance with DIN EN 14597

<sup>2)</sup> DN 15 to 50 only

<sup>3)</sup> Female thread G ½ to 1 only

<sup>4)</sup> Also with controller with electric actuator





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**T 5800 EN**

2012-01