

Control valves overview

Products



GEMÜ 514



GEMÜ 550



GEMÜ 554



GEMÜ 530

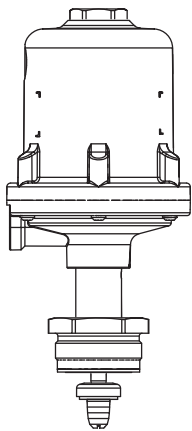


GEMÜ 532



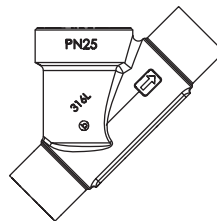
GEMÜ 534

Composition



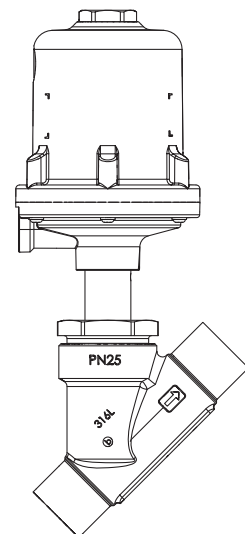
Actuator with regulating cone

+



Valve body
(with or without reduction)

=



Control valve

Designs

R-Number*	Control valve	Example
RSxxx**	Standard control valves***	550 20D 137 512G1RS112
RAxxx, RBxxx,...	Standard control valve with reduced valve seat	550 20D 137 512G1RE405
Rxxxx	Control valve with or without reduced valve seat	550 20D 137 512G1R1368

* R-Number = regulating cone number

** x = a number from 0-9

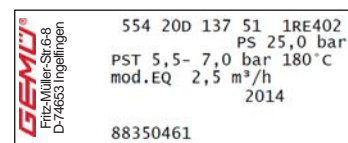
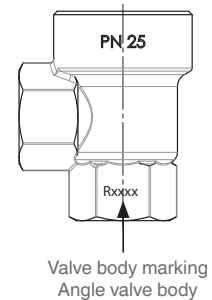
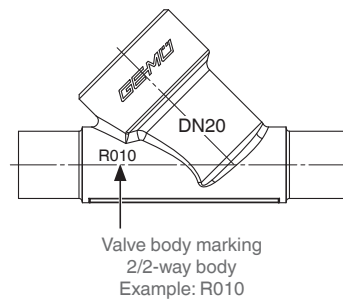
*** Standard control valves are only available in the designs listed in the datasheet.

Actuator change

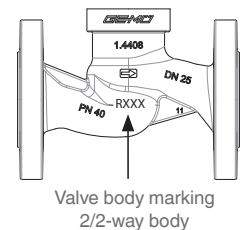
The following information must be noted if an actuator is to be replaced:

- The nominal size of the actuator must correspond with the nominal size of the valve body.
- The actuators of the GEMÜ 514, GEMÜ 550 and GEMÜ 554 angle seat globe valves can be assembled on the same angle seat globe valve body. Equally, the actuators of the GEMÜ 530, GEMÜ 532 and GEMÜ 534 globe valves can be assembled on the same globe valve body.
- In the case of valves with a reduced valve seat, the correct combination of valve body and actuator must be ensured. For this purpose, the actuator product label must be compared with the valve body marking.

Product label Actuator	Valve body marking	Valve seat diameter
RAxxx	R002	2 mm
RBxxx	R004	4mm
RCxxx	R006	6 mm
RDxxx	R008	8 mm
RExxx	R010	10 mm
RFxxx	R012	12 mm
RGxxx	R015	15mm
RHxxx	R020	20 mm
RJxxx	R025	25 mm
RKxxx	R032	32 mm
RMxxx	R040	40 mm



Actuator product label,
example: GEMÜ 554



Example

The GEMÜ 554 is to be converted to the GEMÜ 550. The valve body should be retained.

1. The valve type, nominal size and R-Number of the valve to be converted must be known:

Valve to be converted	Kv value	Valve seat diameter
554 20D 1 37 5 1 1 RE402	1.6 m³/h, mod. EQ	10 mm

2. The data from the valve to be converted enables the Kv value to be determined using the GEMÜ 554 control valve datasheet.
3. The GEMÜ 550 control valve datasheet can now be used to reselect the required R-Number.
Note: In the same way, with a previous R-Number RExxx, only one actuator can subsequently be used for a reduced seat.
4. The following actuator has been selected: **9550 20Z 5 12 G 1 RE405**.
5. Convert the valve to the GEMÜ 550 by assembling the GEMÜ 9550 actuator:

Converted control valve	Kv value	Valve seat diameter
550 20D 1 37 5 1 1 RE405	1.6 m³/h, mod. EQ	10 mm

Overview of R-Numbers



GEMÜ 514



GEMÜ 550



GEMÜ 554

Angle seat globe valves		GEMÜ 514			GEMÜ 550			GEMÜ 554		
Nominal size	Valve body	linear	equal-percentage (mod.)	Kv value (m³/h)	linear	equal-percentage (mod.)	Kv value (m³/h)	linear	equal-percentage (mod.)	Kv value (m³/h)
15	R002	-	RA406	0.16	-	RA404	0.16	-	RA402	0.16
	R004	RB207	-	0.16	RB204	-	0.16	RB201	-	0.16
		RB208	RB405	0.25	RB205	RB403	0.25	RB202	RB401	0.25
		RB209	RB406	0.4	RB206	RB404	0.4	RB203	RB402	0.4
	R006	RC205	RC405	0.63	RC203	RC403	0.63	RC201	RC401	0.63
		RC206	RC406	1.00	RC204	RC404	1.00	RC202	RC402	1.00
	R008	RD205	RD405	1.60	RD203	RB403	1.60	RD201	RD401	1.60
R010	RE207	RE407	2.5	RE204	RE404	2.5	RE201	RE401	2.5	
20	R008	RD206	RD406	1.60	RD204	RD404	1.60	RD202	RD402	1.60
	R010	RE208	RE408	2.50	RE205	RE405	2.50	RE202	RE402	2.50
	R012	RF207	RF407	4.00	RF204	RF404	4.00	RF201	RF401	4.00
	R015	RG209	RG409	6.30	RG205	RG405	6.30	RG201	RG401	6.30
25	R010	RE209	RE409	2.50	RE206	RE406	2.50	RE203	RE403	2.50
	R012	RF208	RE408	4.00	RF205	RF405	4.00	RF202	RF402	4.00
	R015	RG210	RG410	6.30	RG206	RG406	6.30	RG202	RG402	6.30
	R020	RH209	RH409	10.00	RH205	RH405	10.00	RH201	RH401	10.00
32	R012	RF209	RF409	4.00	RF206	RF406	4.00	RF203	RF403	4.00
	R015	RG211	RG411	6.30	RG207	RG407	6.30	RG203	RG403	6.30
	R020	RH210	RH410	10.00	RH206	RH406	10.00	RH202	RG402	10.00
	R025	RJ207	RJ407	16.00	RJ204	RJ404	16.00	RJ201	RJ401	16.00
40	R015	RG212	RG212	6.30	RG208	RG408	6.30	RG204	RG404	6.30
	R020	RH211	RH211	10.00	RH207	RH407	10.00	RH203	RH403	10.00
	R025	RJ208	RJ208	16.00	RK205	RJ405	16.00	RJ202	RJ402	16.00
	R032	RK205	RK205	25.00	RK203	RK403	25.00	RK201	RK401	25.00
50	R020	RH212	RH412	10.00	RH208	RH408	10.00	RH204	RH404	10.00
	R025	RJ209	RJ409	16.00	RJ206	RJ406	16.00	RJ203	RJ403	16.00
	R032	RK206	RK406	25.00	RK204	RK404	25.00	RK202	RK402	25.00
	R040	RM203	RM403	40.00	RM202	RM402	40.00	RM201	RM401	40.00



RAxxx - RCxxx:

Regulating cone and spindle are one part, therefore it is not possible to change the regulating cone.

Please observe the data in the datasheet.



Globe valves

GEMÜ 530

GEMÜ 532

GEMÜ 534

Nominal size	Valve body	GEMÜ 530			GEMÜ 532			GEMÜ 534		
		linear	equal-percentage (mod.)	Kv value (m³/h)	linear	equal-percentage (mod.)	Kv value (m³/h)	linear	equal-percentage (mod.)	Kv value (m³/h)
15	R002	-	RA304	0.16	-	RA306	0.16	-	RA302	0.16
	R004	RB104	-	0.16	RB107	-	0.16	RB101	-	0.16
		RB105	RB303	0.25	RB108	RB305	0.25	RB102	RB302	0.25
		RB106	RB304	0.40	RB109	RB306	0.40	RB103	RB301	0.40
	R006	RC103	RC303	0.63	RC105	RC305	0.63	RC101	RC301	0.63
		RC104	RC304	1.00	RC106	RC306	1.00	RC102	RC302	1.00
	R008	RD103	RD303	1.60	RD105	RD305	1.60	RD101	RD301	1.60
R010	RE104	RE304	2.50	RE107	RE307	2.50	RE101	RE301	2.50	
20	R008	RD104	RD304	1.60	RD106	RD306	1.60	RD102	RD302	1.60
	R010	RE105	RE305	2.50	RE108	RE308	2.50	RE102	RE302	2.50
	R012	RF104	RF304	4.00	RF107	RF307	4.00	RF101	RF301	4.00
25	R010	RE106	RE306	2.50	RE109	RE309	2.50	RE103	RE303	2.50
	R012	RF105	RF305	4.00	RF108	RF308	4.00	RF102	RF303	4.00
	R015	RG104	RG304	6.30	RG107	RG307	6.30	RG101	RG301	6.30
32	R012	RF106	RF306	4.00	RF109	RF309	4.00	RF103	RF302	4.00
	R015	RG105	RG305	6.30	RG108	RG308	6.30	RG102	RG302	6.30
	R020	RH104	RG304	10.00	RH107	RH307	10.00	RH102	RH301	10.00
40	R015	RG106	RG306	6.30	RG109	RG309	6.30	RH103	RG303	6.30
	R020	RH105	RH305	10.00	RH108	RH308	10.00	RH101	RH302	10.00
	R025	RJ103	RJ303	16.00	RJ105	RJ305	16.00	RJ101	RJ302	16.00
50	R020	RH106	RH306	10.00	RH109	RH309	10.00	RH103	RH303	10.00
	R025	RJ104	RJ304	16.00	RJ106	RJ306	16.00	RJ102	RJ301	16.00
	R032	RK102	RK302	25.00	RK103	RK303	25.00	RK101	RK301	25.00



RAxxx - RCxxx:

Regulating cone and spindle are one part, therefore it is not possible to change the regulating cone.

Please observe the data in the datasheet.