



CONTROL VALVES

- Electric and pneumatic control valves (heat control)
- Electric and pneumatic control valves (refrigeration)
- Shut-off valves
- Three way control valves
- Flow-control silencers
- RTK – Heavy duty control valves
- Electric control valves with fail closed unit
- Steam converting valves
- Multi nozzle lancer desuperheaters
- Feed-water control valves with re-circulation connection
- Continuous blow down valves
- Bottom blow down valves
- Valves for discharge / re-circulation control



MV 5211



PV 6221

Electric series

With electric actuators
REact 15E
ST 5112

MV 5211

MV 5214

MV 5221

MV 5224

MV 5231

MV 5234

Pneumatic series

With pneumatic actuators
ST 6115
ST 6135

PV 6211

PV 6214

PV 6221

PV 6224

PV 6231

PV 6234

**With
Bellows seal**

–

yes

–

yes

–

yes

Technical data

	DIN	ANSI
Nominal diameter	DN 15 ... 100	NPS ½" ... 4"
Nominal pressure	PN 16 ... 160	Class 150 ... 900
Body materials	EN-GJL-250 (PN 16) EN-GJS-400-18-LT (PN 16; 25) GP240GH (PN 16 ... 160) G17CrMo5-5 (PN 63 ... 160) GX5CrNiMo19-11-2 (PN 16 ... 40) Other materials available on request	SA216 WCB SA351 CF8M SA217 WC9
Flanges	According to DIN 2501; EN 1092-1 and EN 1092-2 Different flanges on request	ASME B16.5
Butt Weld ends	According to DIN 3239 – part 1 or EN 12627 Edge form DIN 2559-21 (Others on request) End connection P235GH for body material GP-240 GH End connection 13CrMo4-5 for body material G 17 CrMo 5-5	
Stem packing	Chevron rings PTFE-graphite Stuffing box pure graphite Bellows seal with safety stuffing box Stem packing with DVGW-Approval Stem packing for oxygen with BAM approval	(max. 250 °C) (max. 530 °C medium dependent) (max. 350 °C) (max. 6 bar, 60 °C) (max. 50 °C)
Trim variations	Shut-off plug 1.4122 Parabolic plug 1.4122 V-port plug 1.4122, Full stellit, Ferro Titanium Perforated plug 1.4122, 1.4122 hardened Mixing- / Diverting plug 1.4122, 1.4408 Soft seat PTFE-graphite Seat 1.4571, Stellit Stem 1.4571 Others on request	(none) (equal% / linear) (linear) (equal% / linear) (linear)
Version for refrigerants	Chevron packing rings NBR Chevron rings PTFE-graphite Seals (gaskets) suitable for refrigerants Bellows seal with safety stuffing box Stem heater with glycerine cup, free from non-ferrous metals Bonnet studs and nuts in stainless steel Epoxy coating Flanges with groove	(-60 °C to 100 °C) (-60 °C to 250 °C)
Seat leakage	According to DIN EN 1349, Class IV Class IV-S2 according to DIN EN 1349 (lapped in metal to metal) Class VI according to DIN EN 1349 soft seat with PTFE / graphite (max. + 200 °C) According to ANSI / FC / 70-2	
Max. press / temp.	According to DIN EN 1092 / ASME B16.34	
Approvals	ATEX (PV...) TR TS (MV..., PV..., HV...) DGRL (MV..., PV...) DVGW (on request)	



Data sheet under <http://www.rtk.de/en/produkte0/stellventile0/electric-and-pneumatic-control-valves-heat-control.html>



MV 5174

Electric series

With electric actuator
REact 15E

With
Bellows seal

MV 5174

yes

Motorized control valves for mixing and diverting (up to DN 65) used for thermal oil and other process liquids

- Three-way design with shortened B-flange
- Long life chambered bellows seals with twist lock
- Actuator can be turned as desired for simple operating and cabling

Technical data

Nominal diameter	DN 50 und 65	
Nominal pressure	PN 16	
Body material	EN-GJS-400-18-LT	
Flanges	According to DIN EN 1092-2 Different flanges on request	
Stem packing	Metal bellow seal with safety stuffing box	(max. 350 °C)
Trim variations	Mixing plug 1.4122 Bellow + Stem 1.4571 Seat 1.4571 Others on request	(linear) (AISI 316 Ti) (AISI A316 Ti)
Seat leakage	According to DIN EN 1349, Class IV	
Approvals	DGRL	



Data sheet under <http://www.rtk.de/en/produkte0/stellventile0/electric-and-pneumatic-control-valves-heat-control.html>

**Electric series**

With electric actuators
REact 15E
ST 5112

MV 5271

MV 5274

Pneumatic series

With pneumatic actuators
ST 6115
ST 6135

PV 6271

PV 6274

**With
Bellows seal**

—

yes

Technical data

Nominal diameter	DN 20 ... 100	
Nominal pressure	PN 16, 25	
Body materials	EN-GJL-250	(max. PN 16)
	EN-GJS-400-18-LT	(max. PN 25)
Flanges	Connection according to DIN 2501 Facing DIN 2526 Form C Connection according to DIN EN 1092 Different flanges on request	
Stem packing	Chevron rings PTFE-graphite	(max. 250 °C)
	Bellow seal with safety stuffing box	(max. 350 °C)
Trim variations	Mixing plug 1.4122 / 1.4408	(linear)
	Stem + Seat 1.4571	
	Others on request	
Seat leakage	According to DIN EN 1349, Class IV Class IV-S2 according to DIN EN 1349 (lapped in metal to metal)	
Approvals	ATEX (PV...)	
	TR TS (MV..., PV...)	
	DGRL (MV..., PV...)	



Data sheet under <http://www.rtk.de/en/produkte0/stellventile0/electric-and-pneumatic-control-valves-heat-control.html>



MV 5311

Electric series

With electric actuators
ST 5113
ST 5114



PV 6321

Pneumatic series

With pneumatic actuators
ST 6160



PV 6314

With
Bellows seal

With
Bellows seal
PN100

MV 5311	PV 6311	—	—
MV 5314	PV 6314	yes	yes
MV 5321	PV 6321	—	—
MV 5324	PV 6324	yes	—
MV 5331	PV 6331	—	—
MV 5334	PV 6334	yes	—

Technical data

	DIN	ANSI
Nominal diameter	DN 15 ... 150	NPS ½" ... 6"
Nominal pressure	PN 16 ... 160	Class 150 ... 900
Body materials	EN-GJL-250 (PN 16) EN-GJS-400-18-LT (PN 16; 25) GP240GH (PN 16 ... 160) G17CrMo5-5 (PN 63 ... 160) GX5CrNiMo19-11-2 (PN 16 ... 40) Other materials available on request	SA216 WCB SA351 CF8M SA217 WC9
Flanges	According to DIN 2501; EN 1092-1 and EN 1092-2 Different flanges on request	ASME B16.5
Butt weld ends	According to DIN 3239 – part 1 or EN 12627 Edge form DIN 2559-21 (Others on request) End connection P235GH for body material GP-240 GH End connection 13CrMo4-5 for body material G 17 CrMo 5-5	
Stem packing	Chevron rings PTFE-graphite Stuffing box pure graphite Bellows seal with safety stuffing box With TA-Luft Stem packing with DVGW-Approval Stem packing for oxygen with BAM approval	(max. 250 °C) (max. 530 °C medium dependent) (max. 350 °C PN 100 up to DN 40) (max. 400 °C) (6 bar, 60 °C) (max. 50 °C)
Trim variations	Shut-off plug 1.4122 Parabolic plug 1.4122 V-port plug 1.4122, Full stellit, Ferro Titanium Perforated plug 1.4122, 1.4122 hardened Mixing- / Diverting plug 1.4122, 1.4408 Balanced plug Soft seat PTFE-graphite Seat 1.4571, Stellit Stem 1.4571 Others on request	(none) (equal% / linear) (linear) (equal% / linear) (linear) (equal% / linear)
Version for refrigerants	Chevron packing rings NBR Chevron rings PTFE-graphite Seals (gaskets) suitable for refrigerants Bellows seal with safety stuffing box Stem heater with glycerine cup, free from non-ferrous metals Bonnet studs and nuts in stainless steel Epoxy coating Flanges with groove	(-60 °C to 100 °C) (-60 °C to 250 °C)
Seat leakage	According to DIN EN 1349, Class IV Class IV-S2 according to DIN EN 1349 (lapped in metal to metal) Class VI according to DIN EN 1349 soft seat with PTFE / graphite (max. + 200 °C) According to ANSI / FC / 70-2	
Max. press / temp.	According to DIN EN 1092 / 15 ASME B16.34	
Approvals	ATEX (PV...) TR TS (MV..., PV..., HV...) DGRL (MV..., PV...) DVGW (on request)	



Data sheet under <http://www.rtk.de/en/produkte0/stellventile0/electric-and-pneumatic-control-valves-heat-control.html>



MV 5411



MV 5421



PV 6411

Electric series

With electric actuators
ST 5106
ST 5116

MV 5411

MV 5414

MV 5421

MV 5424

MV 5431

MV 5434

Pneumatic series

With pneumatic actuators
ST 6175

PV 6411

PV 6414

PV 6421

PV 6424

PV 6431

PV 6434

With
Bellows seal

–

yes

–

yes

–

yes

Technical data

	DIN	ANSI
Nominal diameter	DN 40 ... 400	NPS 1 ½" ... 12"
Nominal pressure	PN 16 ... 160	Class 150 ... 900
Body materials	EN-GJL-250 (PN 16) EN-GJS-400-18-LT (PN 16; 25) GP240GH (PN 16 ... 160) G17CrMo5-5 (PN 63 ... 160) GX5CrNiMo19-11-2 (PN 16 ... 40) Other materials available on request	SA216 WCB SA351 CF8M SA217 WC9
Flanges	According to DIN 2501; EN 1092-1 and EN 1092-2 Different flanges on request	ASME B 16.5
Butt weld ends	According to DIN 3239 – part 1 or EN 12627 Edge form DIN 2559-21 (Others on request) End connection P235GH for body material GP-240 GH End connection 13CrMo4-5 for body material G 17 CrMo 5-5	
Stem packing	Chevron rings PTFE-graphite Stuffing box pure graphite Bellows seal with safety stuffing box Stem packing with DVGW-Approval Stem packing for oxygen with BAM approval	(max. 250 °C) (max. 530 °C medium dependent) (max. 350 °C) (6 bar, 60 °C) (max. 50 °C)
Trim variations	Shut-off plug 1.4122 Parabolic plug 1.4122 / 1.4571 V-port plug 1.4122, Full stellit, Ferro Titanium Perforated plug 1.4122, 1.4122 hardened Mixing- / Diverting plug 1.4122, 1.4408 Soft seat PTFE-graphite Seat 1.4571, Stellit Stem 1.4571 Others on request	(none) (equal% / linear) (linear) (equal% / linear) (linear)
Version for refrigerants	Chevron packing rings NBR Chevron rings PTFE-graphite Seals (gaskets) suitable for refrigerants Bellows seal with safety stuffing box Stem heater with glycerine cup, free from non-ferrous metals Bonnet studs and nuts in stainless steel Epoxy coating Flanges with groove	(-60 °C to 100 °C) (-60 °C to 250 °C)
Seat leakage	According to DIN EN 1349, Class IV Class IV-S2 according to DIN EN 1349 (lapped in metal to metal) Class VI according to DIN EN 1349 soft seat with PTFE / graphite (max. + 200 °C) According to ANSI / FC / 70-2	
Max. press / temp.	According to DIN EN 1092 / 15 ASME B16.34	
Approvals	ATEX (PV...) TR TS (MV..., PV..., HV...) DGRL (MV..., PV...) DVGW (on request)	



Data sheet under <http://www.rtk.de/en/produkte0/stellventile0/electric-and-pneumatic-control-valves-heat-control.html>



SL Type-B

SL-Type

For liquid media

**For gases
and vapours**

SL Type A

SL Type B

Flow-control silencer / expansion after control valves to reduce noise after choked flow of gases and vapours. In order to largely suppress cavitation / evaporation in liquid media and sound reduction.

- Suitable for operating temperatures up to 530 ° C
- System of two to four throttle plates
- Including pipe expansion
- Supplied ready to fit including the connecting elements

Technical data

Inlet and outlet PN 40 ... 160, Class 300 ... 900
Different nominal pressure ranges for inlet and outlet on request

Materials	P250GH	(PN 40 ... 160)
	Equivalent to A105	(Class 300 ... 900)
	1.4571	(PN 40 ... 160)
	Equivalent to A316Ti	(Class 300 ... 900)
	13CrMo4-5	(PN 63 ... 160)
	Equivalent to A355	(Class 600 ... 900)
	Others on request	

Flanges	Connection to EN 1092 form B1
	Connection to ASME B 16.5



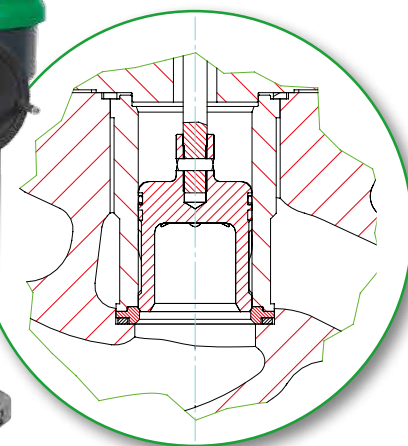
Data sheet under <http://www.rtk.de/en/produkte0/stellventile0/electric-and-pneumatic-control-valves-heat-control.html>



PV 6311-AD



MV 5311-AD



Electric series

With electric actuators

ST 5113
ST 5114
ST 5106
ST 5116

MV 5311-AD

MV 5411-AD

Pneumatic series

With pneumatic actuators

ST 6135
ST 6160
ST 6175

PV 6311-AD

PV 6411-AD

All-purpose cage guided globe control valve

- High flow capacities provide larger flow area, reduced body velocity and pressure loss
- Yoke lock nut guarantees easy disassembly
- Hardened / Stainless steel trim provides twice the service life of 316 stainless trim
- Cup seal with three times the wear surface of competitive valves for long lasting leak tight seal
- Multiple cage options for maximum versatility
- Balanced plug design provides smooth high pressure control
- Ultra compact actuators install in tight spaces
- Tighter shut-off design provides exceptional performance up to Class VI
- Compact actuators can easily be installed in tight spaces

Technical data

Body Assembly	Style: Single seated, top entry bolted bonnet, globe style body, cage guided balanced plug	
Nominal diameter	NPS 2" ... 16"	
Nominal pressure	ANSI 150 ... 1500	2" – 8"
	ANSI 150 ... 600	10" – 16"
Body material	Carbon steel, ASTM A216 Gr WCC Chrome moly, ASTM A217 Gr WC9 Stainless steel, ASTM Gr CF8M	
Butt weld ends	RF, RTJ, BWE (NPT, SWE nur 2")	
Stem packing	PTFE V-Rings	(-29 °C to 230 °C)
	Laminated graphite	(-29 °C to 566 °C)
Trim Types	Standard, Les-Cav I+II, Les-Sonic I+II	
Flow Characteristics	Equal percentage, Linear	
Trim Materials	Martensitic (series 400) / austenitic (series 300) Standard and high temperature versions	
Trim Sizes	Full port, 80 %, 60 % and 40 % reduced Custom, contact application engineering	
Kvs values	24 – 2666 m ³ / h	
Plug Seal Materials	C300 spring loaded seal with Inconel spring Class IV or V	(max. 300 °C)
	Double carbon-graphite seal rings LeakageClass IV	(max. 538 °C)
Shutoff Class	According ANSI / ISA 70-2	
	Standard trim	
	Leakage Class V	(-29 to 300 °C)
	Leakage Class IV	(-29 to 427 °C)
	Standard trim	
	Leakage Class IV	(-29 to 538 °C)
Actuators	Spring and diaphragm 280, 530 or 1000 cm ² actuator Spring closed or spring open Electric Optional: piston, double acting / spring return	




Data sheet under <http://www.rtk.de/en/produkte0/stellventile0/electric-and-pneumatic-control-valves-heat-control.html>



Electric series

With electric actuators

Actuators

MV 52 ...	Approved by German Technical Inspectorate	ST 5112 ST 6151-5	
MV 53 ...	Approved by German Technical Inspectorate	ST 5113 ST 6151-5	
MV 53 ...		ST 5113 ST 6151-6 ST 5114 ST 6151-6	
MV 54 ...		ST 5106 ST 6152-1 ST 5116 ST 6152-1	

Fail close unit for motorized valves MV 52 ... / MV 53 ... / MV 54 ... series 2 way or 3 way design

- Approved by German Technical Inspectorate DIN EN 14597:2005-12 as safety functional device for steam and water in heating systems.
(Valid only in combination with ST 6151-5)
- Valve closes on loss of power
- Closes smoothly even at large differential pressures
- Adjustable closing time for ST 6152-1
- Automatic return to normal operation possible

Technical data

Nominal diameter	DN 15 ... 100	(Series MV 52 ...)
	DN 15 ... 150	(Series MV 53 ...)
	DN 40 ... 250	(Series MV 54 ...)
Nominal pressure	PN 16 ... 160	
Stem packing	Chevron rings PTFE-graphite	(max. 250 °C)
	Bellows seal with safety stuffing box	(max. 300 °C)
Trim variations	V-port plug	(linear)
	Perforated plug	(equal% / linear)
Seat leakage	Class IV according to DIN EN 1349	
	Class IV-S2 according to DIN EN 1349 (lapped in metal to metal)	



Data sheet under <http://www.rtk.de/en/produkte0/stellventile0/electric-and-pneumatic-control-valves-heat-control.html>