

With pneumatic and electric actuators

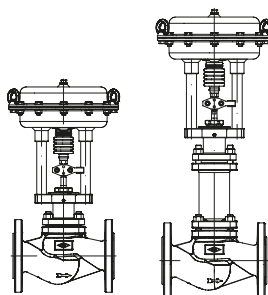
Closing pressures: Leakage class IV-S1, increased tightness in the seat

ARI-STEVI® 448 / 449

Pneumatic actuator

ARI-DP 30-34

- Reversible pneumatic actuator
- Actuator with rolling diaphragm
- Air supply pressure min. 4 bar
- Air supply pressure max. 6 bar
- Stem protection by bellow
- Maintenance-free O-ring sealing
- Assembly of additional devices acc. to DIN IEC 60534-6



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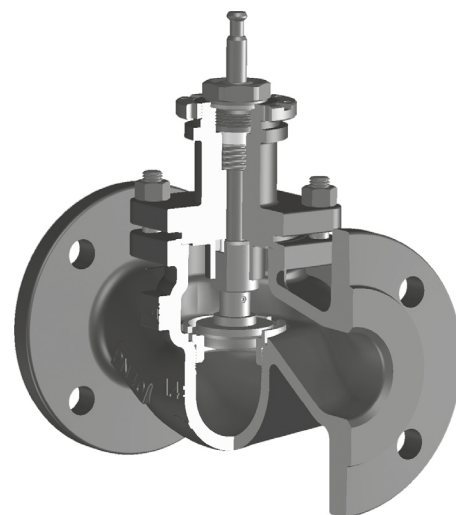


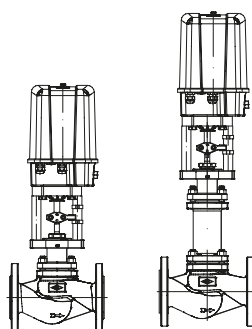
Fig. 448

ARI-STEVI® 448 / 449

Elektric actuator

ARI-PREMIO-Plus 2G 2,2-15kN

- Digital actuator control
- BLDC-Engine technology
- Energy-efficient
- Enclosure IP 65
- 2 torque switches
- Handwheel
- Additional devices available, e.g. potentiometer



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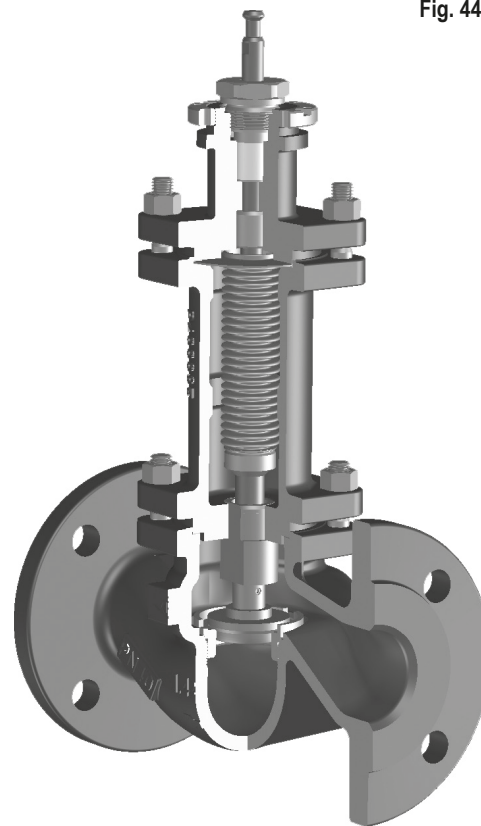


Fig. 449

Features:

- Compact design
- Bonnet with rotatable traverse
- Optional: Perforated plug for noise reduction
- Replaceable seat
- Reduceable Kvs-values
- Shaft plug guide



Spring closes on air failure
(stem extended by spring)

max. permissible closing pressures on flow-to-open P2 = 0.
Observe pressure-temperature-limits.

DN				15				20				25				
Parabolic plug	Kvs-value	(m³/h)		0,25 / 0,16 / 0,1	0,63 / 0,4	4 / 2,5 / 1,6 / 1		0,25 / 0,16 / 0,1	0,63 / 0,4	4 / 2,5 / 1,6 / 1	6,3	0,25 / 0,16 / 0,1	0,63 / 0,4	4 / 2,5 / 1,6 / 1	6,3	10
	max. diff. pressure ¹⁾	(bar)		40				40				40				
Perforated plug	Kvs-value	(m³/h)		--	--	2,5 / 1,6 / 1		--	--	2,5 / 1,6 / 1	4	--	--	2,5 / 1,6 / 1,0	4	6,3
	max. diff. pressure ¹⁾	(bar)		--	--	40		--	--	40		--	--	40		
Seat-Ø			(mm)	3	5	12		3	5	12	16	3	5	12	16	22
Travel			(mm)	10				10				10				
DP30 80 cm² (max. 6 bar)	Air supply pressure min. 4 bar	I.	(bar)	40	40	40		40	40	40	40	40	40	40	40	37
		III.	(bar)	31	30	28		31	30	28	26	31	30	28	26	23

DN				32				40				50			
Parabolic plug	Kvs-value	(m³/h)		4 / 2,5 / 1,6 / 1	6,3	10	16	6,3	10	16	25	10	16	25	40
	max. diff. pressure ¹⁾	(bar)		40				40				30	30		
Perforated plug	Kvs-value	(m³/h)		2,5 / 1,6 / 1	4	6,3	10	4	6,3	10	16	6,3	10	16	25
	max. diff. pressure ¹⁾	(bar)		40				40				40			
Seat-Ø			(mm)	12	16	22	28	16	22	28	35	22	28	35	43
Travel			(mm)	10	10	10	15	10	10	15	15	10	15	15	15
DP30 80 cm² (max. 6 bar)	Air supply pressure min. 4 bar	I.	(bar)	40	40	37		40	37			37			
		III.	(bar)	28	26	23		26	23			23			
DP32 250 cm² (max. 6 bar)	Air supply pressure min. 4 bar	I.	(bar)				40			40	37		40	37	23
		III.	(bar)				40			40	34		40	34	21

DN				65				80				100			
Parabolic plug	Kvs-value	(m³/h)		16	25	40	63	25	40	63	100	40	63	100	160
	max. diff. pressure ¹⁾	(bar)		40	30	30	10	30	30	10	8	30	10	8	3
Perforated plug	Kvs-value	(m³/h)		10	16	25	40	16	25	40	63	25	40	63	100
	max. diff. pressure ¹⁾	(bar)		40				40				40			
Seat-Ø			(mm)	28	35	43	56	35	43	56	70	43	56	70	95
Travel			(mm)	15	15	15	20	15	15	20	25	15	20	25	30
DP32 250 cm² (max. 6 bar)	Air supply pressure min. 4 bar	I.	(bar)	40	37	23		37	23			23			
		III.	(bar)	40	34	21		34	21			21			
DP33 400 cm² (max. 6 bar)	Air supply pressure min. 4 bar	I.	(bar)			39	22		39	22	13	39	22	13	6
		III.	(bar)			37	21		37	21	12	37	21	12	6
DP34 800 cm² (max. 4 bar)	Air supply pressure min. 4 bar	I.	(bar)				40			40	29		40	29	15
		III.	(bar)				40			40	28		40	28	14

I. Fig. 448: PTFE-V-ring unit / EPDM-sealing

III. Fig. 449: Bellows seal

¹⁾ max. differential pressure drop



Spring opens on air failure
(stem retracting by spring)

max. permissible closing pressures on flow-to-open P2 = 0.
Observe pressure-temperature-limits.

DN				15				20				25				
Parabolic plug	Kvs-value		(m³/h)	0,25 / 0,16 / 0,1	0,63 / 0,4	4 / 2,5 / 1,6 / 1	0,25 / 0,16 / 0,1	0,63 / 0,4	4 / 2,5 / 1,6 / 1	6,3	0,25 / 0,16 / 0,1	0,63 / 0,4	4 / 2,5 / 1,6 / 1	6,3	10	
	max. diff. pressure ¹⁾		(bar)	40				40				40				
Perforated plug	Kvs-value		(m³/h)	--	--	2,5 / 1,6 / 1	--	--	2,5 / 1,6 / 1	4	--	--	2,5 / 1,6 / 1	4	6,3	
	max. diff. pressure ¹⁾		(bar)	--	--	40	--	--	40		--	--	40			
Seat-Ø			(mm)	3	5	12	3	5	12	16	3	5	12	16	22	
Travel			(mm)	10				10				10				
DP30 80 cm² (max. 6 bar)	Air supply pressure 2 bar	I.	(bar)	40	36	19	40	36	19	7	40	36	19	7		
		III.	(bar)	4	3		4	3			4	3				
	Air supply pressure 3 bar	I.	(bar)		40	40		40	40	40		40	40	40	19	
		III.	(bar)	18	17	14	18	17	14	13	18	17	14	13	10	
	Air supply pressure 4 bar	I.	(bar)												39	
		III.	(bar)	32	32	29	32	32	29	27	32	32	29	27	24	

DN				32				40				50			
Parabolic plug	Kvs-value		(m³/h)	4 / 2,5 / 1,6 / 1	6,3	10	16	6,3	10	16	25	10	16	25	40
	max. diff. pressure ¹⁾		(bar)	40				40				30	30	30	
Perforated plug	Kvs-value		(m³/h)	2,5 / 1,6 / 1	4	6,3	10	4	6,3	10	16	6,3	10	16	25
	max. diff. pressure ¹⁾		(bar)	40				40				40			
Seat-Ø			(mm)	12	16	22	28	16	22	28	35	22	28	35	43
Travel			(mm)	10	10	10	15	10	10	15	15	10	15	15	15
DP30 80 cm² (max. 6 bar)	Air supply pressure 2 bar	I.	(bar)	19	7			7							
		III.	(bar)												
	Air supply pressure 3 bar	I.	(bar)	40	40	19		40	19			19			
		III.	(bar)	14	13	10		13	10			10			
	Air supply pressure 4 bar	I.	(bar)			40			40			40			
		III.	(bar)	29	27	24		27	24			24			
DP32 250 cm² (max. 4 bar)	Air supply pressure 2 bar	I.	(bar)	40	40	29	16	40	29	16	9	29	16	9	4
		III.	(bar)	22	20	17	13	20	17	13	6	17	13	6	2
	Air supply pressure 3 bar	I.	(bar)			40	40		40	40	30	40	40	30	19
		III.	(bar)	40	40	40	40	40	40	40	27	40	40	27	17
	Air supply pressure 4 bar	I.	(bar)								40			40	34
		III.	(bar)								40			40	32

DN				65				80				100			
Parabolic plug	Kvs-value		(m³/h)	16	25	40	63	25	40	63	100	40	63	100	160
	max. diff. pressure ¹⁾		(bar)	40	30	30	10	30	30	10	8	30	10	8	3
Perforated plug	Kvs-value		(m³/h)	10	16	25	40	16	25	40	63	25	40	63	100
	max. diff. pressure ¹⁾		(bar)	40				40				40			
Seat-Ø			(mm)	28	35	43	56	35	43	56	70	43	56	70	95
Travel			(mm)	15	15	15	20	15	15	20	25	15	20	25	30
DP32 250 cm² (max. 6 bar)	Air supply pressure 2 bar	I.	(bar)	15	8	4		8	4			4			
		III.	(bar)	11	6	2		6	2			2			
	Air supply pressure 3 bar	I.	(bar)	40	30	19		30	19			19			
		III.	(bar)	40	27	17		27	17			17			
	Air supply pressure 4 bar	I.	(bar)		40	33		40	33			33			
		III.	(bar)		40	32		40	32			32			
DP33 400 cm² (max. 5 bar)	Air supply pressure 2 bar	I.	(bar)	40	25	15	8	25	15	8	4	15	8	4	1
		III.	(bar)	37	22	13	7	22	13	7	3	13	7	3	1
	Air supply pressure 3 bar	I.	(bar)		40	40	23	40	40	23	14	40	23	14	6
		III.	(bar)	40	40	39	22	40	39	22	13	39	22	13	6
	Air supply pressure 4 bar	I.	(bar)				38			38	24		38	24	12
		III.	(bar)			40	37		40	37	23	40	37	23	12
	Air supply pressure 5 bar	I.	(bar)				40			40	34		40	34	17
		III.	(bar)				40			40	33		40	33	17

I. Fig. 448: PTFE-V-ring unit / EPDM-sealing

III. Fig. 449: Bellows seal

¹⁾ max. differential pressure drop

max. permissible closing pressures on flow-to-open P2 = 0.

Observe pressure-temperature-limits.

DN			15			20				25					
Parabolic plug	Kvs-value	(m³/h)	0,25 / 0,16 / 0,1	0,63 / 0,4	4 / 2,5 / 1,6 / 1	0,25 / 0,16 / 0,1	0,63 / 0,4	4 / 2,5 / 1,6 / 1	6,3	0,25 / 0,16 / 0,1	0,63 / 0,4	4 / 2,5 / 1,6 / 1	6,3	10	
	max. diff. pressure ¹⁾	(bar)	40			40				40					
Perforated plug	Kvs-value	(m³/h)	--	--	2,5 / 1,6 / 1	--	--	2,5 / 1,6 / 1	4	--	--	2,5 / 1,6 / 1	4	6,3	
	max. diff. pressure ¹⁾	(bar)	--	--	40	--	--	40		--	--	40			
Seat-Ø		(mm)	3	5	12	3	5	12	16	3	5	12	16	22	
Travel		(mm)	10			10				10					
2,2 kN	Closing pressure	I.	(bar)	40	40	40	40	40	40	40	40	40	40	40	
		III.	(bar)	32	31	28	32	31	28	26	32	31	28	26	24
	Operating time (50 Hz)		(s)	40			40				40				
	Operating speed		(mm/s)	0,25			0,25				0,25				

DN			32				40				50				
Parabolic plug	Kvs-value	(m³/h)	4 / 2,5 / 1,6 / 1	6,3	10	16	6,3	10	16	25	10	16	25	40	
	max. diff. pressure ¹⁾	(bar)	40				40			30	30		30		
Perforated plug	Kvs-value	(m³/h)	2,5 / 1,6 / 1	4	6,3	10	4	6,3	10	16	6,3	10	16	25	
	max. diff. pressure ¹⁾	(bar)	40				40			40					
Seat-Ø		(mm)	12	16	22	28	16	22	28	35	22	28	35	43	
Travel		(mm)	10	10	10	15	10	10	15	15	10	15	15	15	
2,2 kN	Closing pressure	I.	(bar)	40	40	38	21	40	38	21	12	38	21	12	7
		III.	(bar)	28	26	24	18	26	24	18	9	24	18	9	5
	Operating time (50 Hz)		(s)	40	40	40	60	40	40	60	60	40	60	60	60
	Operating speed		(mm/s)	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25
5 kN	Closing pressure	I.	(bar)				40			40	40		40	40	25
		III.	(bar)				40			40	37		40	37	23
	Operating time (50 Hz)		(s)				60			60	60		60	60	60
	Operating speed		(mm/s)				0,25			0,25	0,25		0,25	0,25	0,25

DN				65				80				100			
Parabolic plug	Kvs-value		(m³/h)	16	25	40	63	25	40	63	100	40	63	100	160
	max. diff. pressure ¹⁾		(bar)	40	30	30	10	30	30	10	8	30	10	8	3
Perforated plug	Kvs-value		(m³/h)	10	16	25	40	16	25	40	63	25	40	63	100
	max. diff. pressure ¹⁾		(bar)	40				40				40			
Seat-Ø			(mm)	28	35	43	56	35	43	56	70	43	56	70	95
Travel			(mm)	15	15	15	20	15	15	20	25	15	20	25	30
5 kN	Closing pressure	I.	(bar)	40	39	25	13	39	25	13	8	25	13	8	3
		III.	(bar)	40	37	23	12	37	23	12	7	23	12	7	3
	Operating time (50 Hz)		(s)	39	39	39	53	39	39	53	66	39	53	66	79
	Operating speed		(mm/s)	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38
15 kN	Closing pressure	I.	(bar)			40	40		40	40	33	40	40	33	17
		III.	(bar)			40	40		40	40	32	40	40	32	17
	Operating time (50 Hz)		(s)			39	53		39	53	66	39	53	66	79
	Operating speed		(mm/s)			0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38

I. Fig. 448: PTFE-V-ring unit / EPDM-sealing

III. Fig. 449: Bellows seal

¹⁾ max. differential pressure drop



Technology for the Future.
GERMAN QUALITY VALVES

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