



ARI-STEVI® (DN15-100)

Technical data Fig. 448 / 449

Figure	Nominal pressure	Material	Nominal diameter	
12.448	PN16	EN-JL 1040	DN15-100	Information / restriction of technical rules need to be observed! A production permission acc. to TRB 801 No. 45 is available. (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.) The engineer, designing a system or a plant, is responsible for the selection of the correct valve. Resistance and fitness must be verified, contact manufacturer for information (refer to Product overview and Resistance list).
22.448 / 22.449	PN16	EN-JS1049	DN15-100	
23.448 / 23.449	PN25	EN-JS1049	DN15-100	
25.448	PN40	EN-JS1049	DN15-50	
32.448 / 32.449	PN16	1.0619+N	DN15-100	
34.448 / 34.449	PN25	1.0619+N	DN15-100	
35.448 / 35.449	PN40	1.0619+N	DN15-100	
52.448 / 52.449	PN16	1.4408	DN15-100	
54.448 / 54.449	PN25	1.4408	DN15-100	
55.448 / 55.449	PN40	1.4408	DN15-100	
Other materials and versions on request.				

Stem sealing	
Fig. 448	
I. PTFE-V-ring unit -10°C to 220°C	I. EPDM-sealing -10°C to 150°C (allowed for water and steam up to 180°C)

Fig. 449	
standard	optional
III. Stainless steel-bellow with pure graphite-packing -60°C to 400°C	III. Stainless steel-bellow with V-ring unit -60°C to 220°C

Pressure-temperature-ratings Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.

acc. to DIN EN 1092-2			-60°C to <-10°C ¹⁾	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C	400°C
EN-JL1040	PN16	(bar)	--	16	14,4	12,8	11,2	9,6	--	--
EN-JS1049	PN16	(bar)	--	16	15,5	14,7	13,9	12,8	11,2	--
EN-JS1049	PN25	(bar)	--	25	24,3	23	21,8	20	17,5	--
EN-JS1049	PN40	(bar)	--	40	38,5	36,8	34,8	32	28	--

acc. to manufacturers standard			-60°C to <-10°C ¹⁾	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C	400°C
1.0619+N	PN25	(bar)	18,7	25	23,9	22	20	17,2	16	14,8
1.0619+N	PN40	(bar)	30	40	38,1	35	32	28	25,7	23,8

acc. to DIN EN 1092-1			-60°C to <-10°C ¹⁾	-10°C to 100°C	150°C	200°C	250°C	300°C	350°C	400°C
1.4408	PN40	(bar)	40	40	36,3	33,7	31,8	29,7	28,5	27,4

¹⁾ Valve with extended bonnet, screws and nuts made of A4-70 (at temperatures below -10°C)

*last updated 10/16



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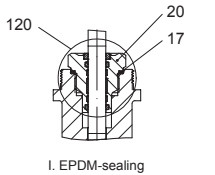
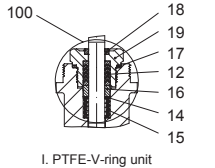
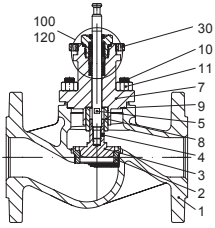
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ARI-STEVI® (DN15-150)

Technical data

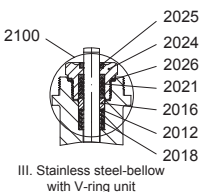
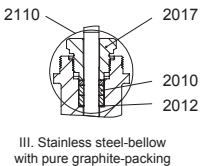
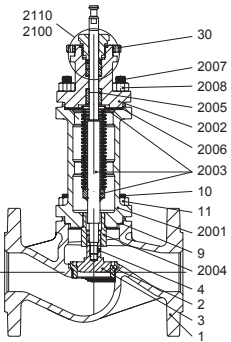
Fig. 448/449



Pos.	Sp.p.	Description	Fig. 12.448	Fig. 22./23./25.448	Fig. 34./35.448	Fig. 55.448	
1		Body	EN-GJL-250, EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408	
2	x	Seat ring	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571	
3	x	Plug	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571	
4	x	Thread pin	A4				
5	x	Stem	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571	
7		Bonnet	GP240GH+N, 1.0619+N			GX5CrNiMo19-11-2, 1.4408	
8		Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571 (hardened)	
9	x	Gasket	pure graphite (CrNi laminated with graphite)				
10		Stud	25CrMo4, 1.7218			A4 - 70	
11		Hexagon nuts	C35E, 1.1181			A4	
12	Set: refer to Pos. 100	V-ring unit	PTFE / Graphite				
14		Washer	X5CrNi18-10, 1.4301				
15		Compression spring	X10CrNi18-8, 1.4310				
16		Bush	PTFE (strengthened)				
17		Gasket	X6CrNiMoTi17-12-2, 1.4571				
18		Scraper	PTFE (strengthened)				
19		Coupling	X8CrNiS18-9, 1.4305				
20		Coupling	X8CrNiS18-9, 1.4305 / EPDM				
30		x	Central nut	X8CrNiS18-9, 1.4305			

Stem sealing Fig. 448

100	x	V-ring unit set	Set aus: Pos. 12, 14, 15, 16, 17, 18, 19
120	x	EPDM-sealing set	Set aus: Pos. 17, 20
		L Spare parts	



Pos.	Sp.p.	Description	Fig. 22./23.449	Fig. 34./35.449	Fig. 55.449
1		Body	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
2	x	Seat ring	X20Cr13+QT, 1.4021+QT		
3	x	Plug	X20Cr13+QT, 1.4021+QT		
4	x	Thread pin	A4		
9	x	Gasket	Pure graphite (CrNi laminated with graphite)		
10		Stud	25CrMo4, 1.7218		
11		Hexagon nuts	C35E, 1.1181		
30	x	Central nut	X8CrNiS18-9, 1.4305		
2001		Bellows housing	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
2002		Bonnet	GP240GH+N, 1.0619+N		
2003	x	Stem- / Bellows unit	X20Cr13+QT, 1.4021+QT / X6CrNiTi18-10, 1.4541		
2004		Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)		
2005		Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)		
2006	x	Gasket	Pure graphite (CrNi laminated with graphite)		
2007		Stud	25CrMo4, 1.7218		
2008		Hexagon nuts	C35E, 1.1181		
2010	Set: refer to Pos. 2110	Packing ring	Pure graphite		
2012		Washer	X5CrNi18-10, 1.4301		
2017		Coupling	X8CrNiS18-9, 1.4305		
2016	Set: refer to Pos. 2110	Bush	PTFE (strengthened (only for DN15-50))		
2018		Compression spring	X10CrNi18-8, 1.4310		
2021		V-ring unit	PTFE / Graphite		
2024		Coupling	X8CrNiS18-9, 1.4305		
2025		Scraper	PTFE		
2026		Gasket	X6CrNiMoTi17-12-2, 1.4571		

Stem sealings Fig. 449

2110	x	Packing rings set	Set of: Pos. 2010, 2012, 2017
2100	x	V-ring unit set	Set of: Pos. 2012, 2016, 2018, 2021, 2024, 2025, 2026
		L Spare parts	

*last updated 10/16





ARI-STEVI® (DN15-100)

Control valve in straightway form with pneumatic actuator ARI-DP

Fig. 448 / 449

Features

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

Applications

Fig.448

- Cooling water
- Cooling brine
- Warm water
- Steam
- Gas

Fig.449

- Refrigerant
- Cooling water
- Warm water
- Hot water
- Thermal oil
- Steam

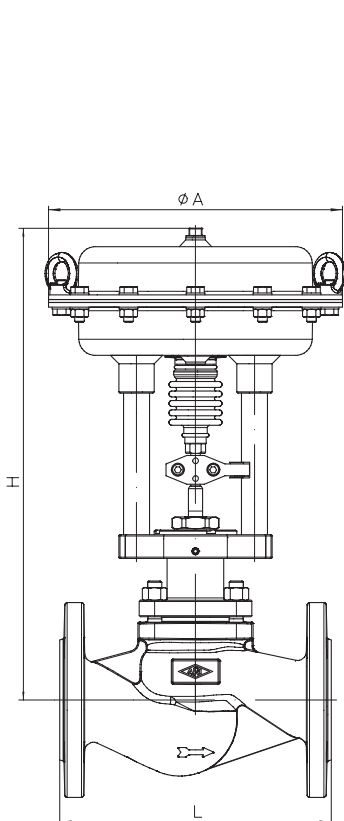


Fig. 448
Packing ring

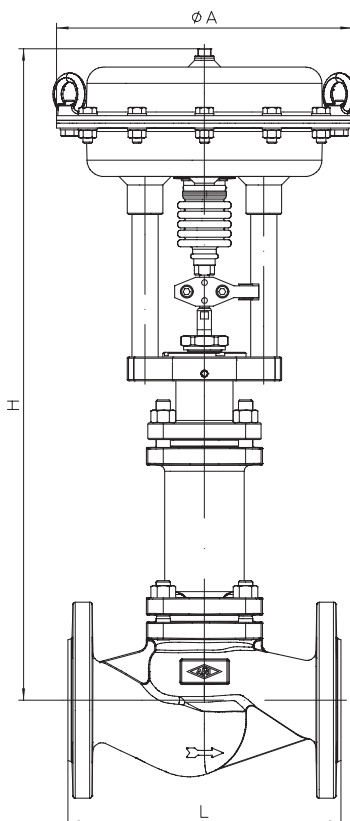


Fig. 449
Bellows seal

Actuator data		DP30	DP32	DP33	DP34
Ø A	(mm)	168	250	300	405
Effective diaphragm area	(cm ²)	80	250	400	800
Technical data for actuator refer to data sheet ARI-DP.					

Dimensions and weights

DN		15	20	25	32	40	50	65	80	100		
L	(mm)	130	150	160	180	200	230	290	310	350		
Fig. 448	DP30	H (mm)	354	354	369	369	384	391				
		PN16-40 (kg)	8	9	10	12	14	17				
	DP32	H (mm)				378	393	400	407	429	445	
		PN16-40 (kg)				17	19	22	28	35	47	
	DP33	H (mm)							458	480	496	
		PN16-40 (kg)							34	41	53	
	DP34	H (mm)							527	549	565	
		PN16-40 (kg)							64	71	83	
	Fig. 449	DP30	H (mm)	539	539	547	547	538	540			
			PN16-40 (kg)	14	15	18	20	27	30			
		DP32	H (mm)				556	547	549	633	646	662
			PN16-40 (kg)				25	32	35	41	52	68
DP33		H (mm)							684	697	713	
		PN16-40 (kg)							47	58	74	
DP34		H (mm)							753	766	782	
		PN16-40 (kg)							77	88	104	

*last updated 10/16



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ARI-STEVI® (DN15-100)

Closing pressure: pneumatic actuator ARI-DP

Fig. 448 / 449



Spring closes on air failure
 (stem extended by spring)

max. permissible closing pressures on flow-to-open P2 = 0.
 Observe pressure-temperature-limits, refer to page 2.

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	--	--	40	
Seat-Ø			(mm)	3	5	12	3	5	12	16	3	5	12	16	22
Travel			(mm)	10			10				10				
DP30 80 cm² (Air supply pressure max.: 6 bar)	Air supply pressure min. (bar)	4	I.	(bar)	40	40	40	40	40	40	40	40	40	40	40
			III.	(bar)	32	32	31	32	32	31	30	32	32	31	30

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-Wert	(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			15	10		15		10	15		
DP30 80 cm² (Air supply pressure max.: 6 bar)	Air supply pressure min. (bar)	4	I.	(bar)	40	40	40		40	40		40			
			III.	(bar)	31	30	30		30	30		30			
DP32 250 cm² (Air supply pressure max.: 6 bar)	Air supply pressure min. (bar)	4	I.	(bar)			40			40	40		40	28	
			III.	(bar)			40			40	39		40	39	26

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			20	15		20	25	15	20	25	30	
DP32 250 cm² (Air supply pressure max.: 6 bar)	Air supply pressure min. (bar)	4	I.	(bar)	40	40	28		40	28		28				
			III.	(bar)	40	39	26		39	26		26				
DP33 400 cm² (Air supply pressure max.: 6 bar)	Air supply pressure min. (bar)	4	I.	(bar)			40	25		40	25	16	40	25	16	8
			III.	(bar)			40	24		40	24	15	40	24	15	8
DP34 800 cm² (Air supply pressure max.: 4 bar)	Air supply pressure min. (bar)	4	I.	(bar)			40			40	32		40	32	17	
			III.	(bar)			40			40	31		40	31	16	

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

III. Fig. 449: Bellows seal

¹⁾max. differential pressure drop

*last updated 10/16



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ARI-STEVI® (DN15-100)

Closing pressure: pneumatic actuator ARI-DP

Fig. 448 / 449



Spring opens on air failure
 (stem retracting by spring)

max. permissible closing pressures on flow-to-open P2 = 0.
 Observe pressure-temperature-limits, refer to page 2.

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	--	--	40		
Seat-Ø			(mm)			3	5	12	16	3	5	12	16	22		
Travel			(mm)			10			10			10				
DP30 80 cm² (Air supply pressure max.: 6 bar)	Air supply pressure min. (bar)	2	I. (bar)	40	40	33	40	40	33	18	40	40	33	18	8	
			III. (bar)	5	4	3	5	4	3	3	5	4	3	3	2	
		3	I. (bar)			40			40	40				40	40	28
			III. (bar)	19	19	18	19	19	18	17	19	19	18	17	16	
		4	I. (bar)													40
			III. (bar)	33	33	32	33	33	32	31	33	33	32	31	31	

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						
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			15			10			15		
DP30 80 cm² (Air supply pressure max.: 6 bar)	Air supply pressure min. (bar)	2	I. (bar)	33	18	8		18	8			8					
			III. (bar)	3	3	2		3	2			2					
		3	I. (bar)	40	40	28		40	28			28					
			III. (bar)	18	17	16		17	16			16					
		4	I. (bar)			40			40			40					
			III. (bar)	32	31	31		31	31			31					
		DP32 250 cm² (Air supply pressure max.: 4 bar)	Air supply pressure min. (bar)	2	I. (bar)	40	40	38	23	40	38	23	14	38	23	14	9
					III. (bar)	25	25	24	19	25	24	19	11	24	19	11	7
3	I. (bar)					40	40		40	40	36	40	40	36	23		
	III. (bar)					40	40		40	40	33	40	40	33	21		
4	I. (bar)										40			40	38		
	III. (bar)										40			40	36		

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			20			15			20		
DP32 250 cm² (Air supply pressure max.: 6 bar)	Air supply pressure min. (bar)	2	I. (bar)	22	14	8		14	8			8					
			III. (bar)	18	11	7		11	7			7					
		3	I. (bar)	40	36	23		36	23			23					
			III. (bar)	40	33	21		33	21			21					
		4	I. (bar)		40	38		40	38			38					
			III. (bar)		40	36		40	36			36					
		5	I. (bar)			40			40			40					
			III. (bar)			40			40			40					
		DP33 400 cm² (Air supply pressure max.: 5 bar)	Air supply pressure min. (bar)	2	I. (bar)	40	30	20	11	30	20	11	7	20	11	7	3
					III. (bar)	40	28	18	10	28	18	10	6	18	10	6	3
3	I. (bar)				40	40	26	40	40	26	17	40	26	17	9		
	III. (bar)				40	40	25	40	40	25	16	40	25	16	8		
4	I. (bar)						40			40	26		40	26	14		
	III. (bar)						40			40	26		40	26	14		
5	I. (bar)										36			36	19		
	III. (bar)										36			36	19		

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

III. Fig. 449: Bellows seal

¹⁾ max. differential pressure drop

*last updated 10/16



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ARI-STEVI® (DN15-100)

Control valve in straightway form with electric actuator PREMIO-Plus 2G Fig. 448 / 449

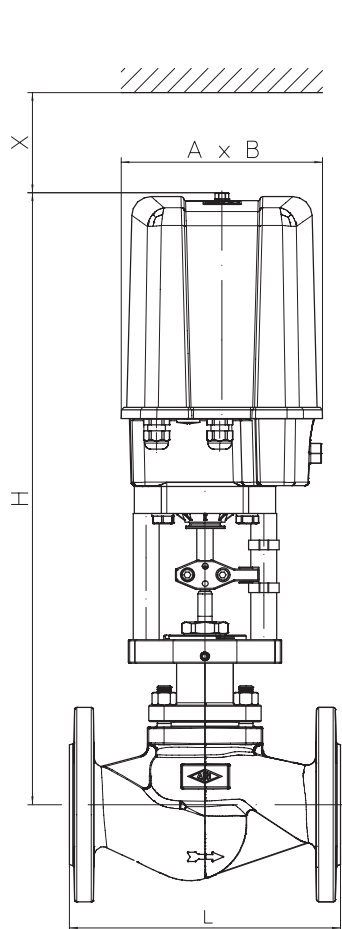


Fig. 448

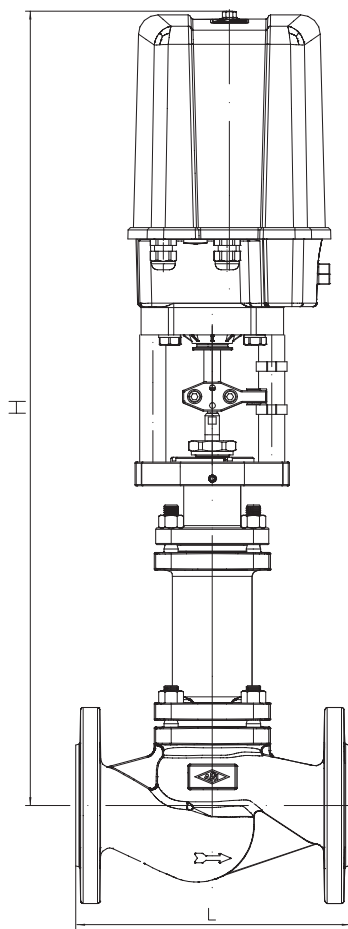


Fig. 449

Features

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

Applications

Fig.448

- Cooling water
- Cooling brine
- Warm water
- Steam
- Gas

Fig.449

- Refrigerant
- Cooling water
- Warm water
- Hot water
- Thermal oil
- Steam

Actuator data		2,2 - 5 kN	15 kN
A	(mm)	171	210
B	(mm)	156	184
X	(mm)	150	200

Supply voltage: 90-264V AC 47-63Hz, 127-370V DC
 Other voltages: 24V AC/DC
 Technical data for actuator refer to data sheet PREMIO-Plus 2G

Dimensions and weights

DN		15	20	25	32	40	50	65	80	100		
L	(mm)	130	150	160	180	200	230	290	310	350		
Fig. 448	2,2 kN	H	(mm)	496	496	511	511	526	533			
		PN16-40	(kg)	10	11	12	14	16	19			
	5 kN	H	(mm)	496	496	511	511	526	533	550	572	588
		PN16-40	(kg)	10	11	12	14	16	19	25	32	44
	15 kN	H	(mm)							667	689	705
		PN16-40	(kg)							29	36	48
Fig. 449	2,2 kN	H	(mm)	681	681	689	689	680	682			
		PN16-40	(kg)	16	17	20	22	29	32			
	5 kN	H	(mm)	681	681	689	689	680	682	776	789	805
		PN16-40	(kg)	16	17	20	22	29	32	38	49	65
	15 kN	H	(mm)							893	906	922
		PN16-40	(kg)							42	53	69

*last updated 10/16





ARI-STEVI® (DN15-100)

Closing pressure: electric actuator ARI-PREMIO-Plus 2G

Fig. 448 / 449

max. permissible closing pressures on flow-to-open P2 = 0.
 Observe pressure-temperature-limits, refer to page 2.

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	--	--	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	40
		III. (bar)	33	32	31	33	32	31	31	33	32	31	31	30
	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		
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			15	10			15	10	15		
2,2 kN	Closing pressure	I. (bar)	40	40	40	28	40	40	28	17	40	28	17	11
		III. (bar)	31	31	30	25	31	30	25	14	30	25	14	9
	Operating time (50 Hz)	(s)	40			60	40			60	40	60		
	Operating speed	(mm/s)	0,25				0,25				0,25			
5 kN	Closing pressure	I. (bar)				40				40	40		40	30
		III. (bar)				40				40	40		40	28
	Operating time (50 Hz)	(s)				60				60				
	Operating speed	(mm/s)				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			20	15			20	25	15	20	25	30
5 kN	Closing pressure	I. (bar)	40	40	29	17	40	29	17	10	29	17	10	5	
		III. (bar)	40	40	28	16	40	28	16	10	28	16	10	5	
	Operating time (50 Hz)	(s)	39			53	39			53	66	39	53	66	79
	Operating speed	(mm/s)	0,38				0,38				0,38				
15 kN	Closing pressure	I. (bar)			40	40		40	40	36	40	40	36	19	
		III. (bar)			40	40		40	40	35	40	40	35	19	
	Operating time (50 Hz)	(s)				39	53				39	53	66	79	
	Operating speed	(mm/s)				0,38				0,38					

I. Fig. 448: PTFE-V-ring unit / EPDM-sealing
 III. Fig. 449: Bellows seal

¹⁾ max. differential pressure drop

*last updated 10/16

