

ARI-STEVI® 440/441 (DN15-100)

Technical data



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Figure	Nominal pressure	Material	Nominal diameter	
12.440 / 12.441	PN16	EN-JL1040	DN15-250	Information / restriction of technical rules need to be observed! ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110. 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).
22.440 / 22.441	PN16	EN-JS1049	DN15-250	
23.440 / 23.441	PN25	EN-JS1049	DN15-150	
34.440 / 34.441	PN25	1.0619+N	DN15-250	
35.440 / 35.441	PN40	1.0619+N	DN15-250	
54.440 / 54.441	PN25	1.4408	DN15-250	
55.440 / 55.441	PN40	1.4408	DN15-150	

Other materials and versions on request.

Stem sealing

Fig. 440	standard		optional	
	DN15-150	DN200-250	DN15-250	DN15-250
I. PTFE-V-ring unit -10°C to 220°C	II. PTFE-packing -10°C to 250°C	I. EPDM-sealing -10°C to 150°C (allowed for water and steam up to 180°C)	II. PTFE-packing -10°C to 250°C II. Pure graphite-packing -10°C to 450°C	

Fig. 441	standard	optional	
	DN15-250	DN15-100	DN125-150
III. Stainless steel-bellow with pure graphite-packing -60°C to 450°C	III. Stainless steel-bellow with V-ring unit -60°C to 220°C	III. Stainless steel bellows seal with EPDM-sealing -60°C to 150°C (allowed for water and steam up to 180°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	450°C
EN-JL1040	PN16	(bar)	--	16	14,4	12,8	11,2	9,6	--	--	--
EN-JS1049	PN16	(bar)	on request	16	15,5	14,7	13,9	12,8	11,2	--	--
EN-JS1049	PN25	(bar)	on request	25	24,3	23	21,8	20	17,5	--	--
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	450°C
1.0619+N	PN25	(bar)	18,7	25	23,9	22	20	17,2	16	14,8	8,2
1.0619+N	PN40	(bar)	30	40	38,1	35	32	28	25,7	23,8	13,1
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	450°C
1.4408	PN40	(bar)	40	40	36,3	33,7	31,8	29,7	28,5	27,4	--

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



ARI-STEVI® 440/441 (DN15-100)

Pneumatic actuator ARI-DP



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Control valve in straightway form with pneumatic actuator ARI-DP

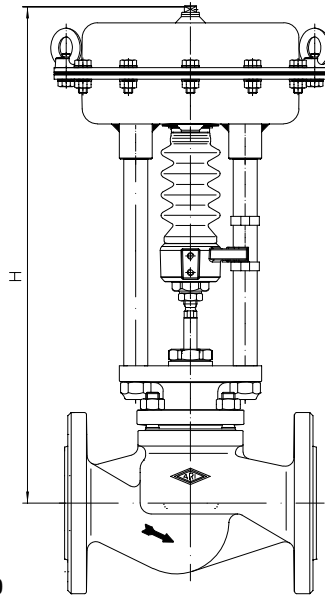


Fig. 440

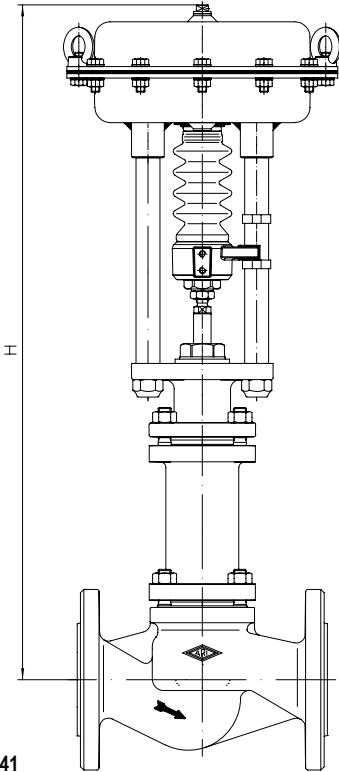


Fig. 441

Heights and weights

DN				15	20	25	32	40	50	65	80	100
Fig. 440	DP32	H	(mm)	442	442	450	450	457	463	465	480	499
		PN16	(kg)	13	13	14	16	18	21	26	31	42
		PN40	(kg)	13	14	15	17	19	22	29	35	48
	DP33	H	(mm)	497	497	505	505	512	518	531	546	565
		PN16	(kg)	19	19	20	22	24	27	32	37	48
		PN40	(kg)	19	20	21	23	25	28	35	41	54
	DP34	H	(mm)	--	--	--	--	--	--	666	681	680
		PN16	(kg)	--	--	--	--	--	--	62	67	78
		PN40	(kg)	--	--	--	--	--	--	65	71	84
	DP34T	H	(mm)	--	--	--	--	--	--	--	--	--
		PN16	(kg)	--	--	--	--	--	--	--	--	--
		PN40	(kg)	--	--	--	--	--	--	--	--	--
DP34Tri	H	(mm)	--	--	--	--	--	--	--	--	--	
	PN16	(kg)	--	--	--	--	--	--	--	--	--	
	PN40	(kg)	--	--	--	--	--	--	--	--	--	
Fig. 441	DP32	H	(mm)	627	627	635	635	626	628	701	713	729
		PN16	(kg)	17	17	18	21	23	26	29	40	55
		PN40	(kg)	19	21	23	26	32	35	42	52	68
	DP33	H	(mm)	682	682	690	690	681	683	767	779	795
		PN16	(kg)	23	23	24	27	29	32	35	46	61
		PN40	(kg)	25	27	29	32	38	41	48	58	74
	DP34	H	(mm)	--	--	--	--	--	--	902	914	930
		PN16	(kg)	--	--	--	--	--	--	65	76	91
		PN40	(kg)	--	--	--	--	--	--	78	88	104
	DP34T	H	(mm)	--	--	--	--	--	--	--	--	--
		PN16	(kg)	--	--	--	--	--	--	--	--	--
		PN40	(kg)	--	--	--	--	--	--	--	--	--
DP34Tri	H	(mm)	--	--	--	--	--	--	--	--	--	
	PN16	(kg)	--	--	--	--	--	--	--	--	--	
	PN40	(kg)	--	--	--	--	--	--	--	--	--	

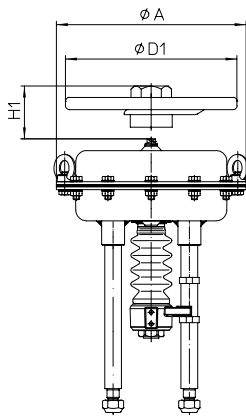


ARI-STEVI® 440/441 (DN15-100)

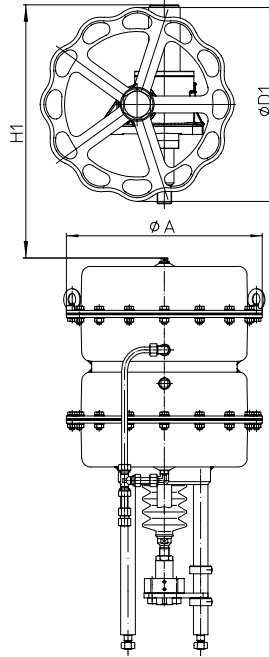
Pneumatic actuator ARI-DP



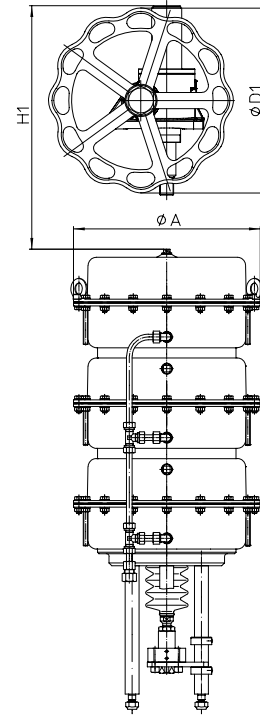
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DP32 / DP33 / DP34



DP34T



DP34Tri

Actuator data		DP32	DP33	DP34	DP34T	DP34Tri
Ø A	(mm)	250	300	405		
Effective diaphragm area	(cm ²)	250	400	800	1600	2400
Top mounted handwheel	Ø D1	(mm)	225	300	400	
	H1	(mm)	270	284	442	635
	Weight	(kg)	5		17	41

Technical data for actuator refer to data sheet ARI-DP.




ARI-STEVI® 440/441 (DN15-100)


Closing pressures: Pneumatic actuator ARI-DP32



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

DN			15	20	25	32	40	50	65	80	100				
Parabolic plug	Kvs-value	(m³/h)	4 2,5	6,3 4 / 2,5	10 6,3	16 10	25 16	40 25	63 40	100 63	160 100				
	max. diff. pressure ¹⁾	(bar)	40	40	40	40	30	20	8	4	1,5				
V-port plug	Kvs-value	(m³/h)	--	--	--	--	--	--	63	100	160				
	max. diff. pressure ¹⁾	(bar)	--	--	--	--	--	--	30	25	25				
Seat-ø		(mm)	21	21	27	31	41	51	66	81	101				
Travel		(mm)	20						30						
DP32 250 cm² Spring closes on air failure  (extended through spring)	Spring range (bar)	0,4-1,2	Air supply pressure min. (bar) ²⁾	1,4	I.	(bar)	18,6	18,6	10,7	7,8	3,9	2,2			
					II.	(bar)	15,4	15,4	8,7	6,2	3	1,6			
					III.	(bar)	8,6	8,6	7,1	5	1,7				
		0,8-2,4	2,7	I.	(bar)	40	40	26,8	20,1	11	6,8	3,7	2,2	1,2	
	II.			(bar)	40	40	24,8	18,6	10,2	6,3	3,2	1,9	1		
	III.			(bar)	26,4	26,4	23,2	17,3	8,9	5,4	2,9	1,7			
		1,5-2,9	3,2	I.	(bar)			40	40	23,5	15				
	II.			(bar)			40	40	22,7	14,4					
	III.			(bar)	40	40	40	38,9	21,4	13,6					
		2,0-3,8	4,1	I.	(bar)					32,5	20,8				
	II.			(bar)					31,6	20,2					
	III.			(bar)				40	30,3	19,4					

DN			15	20	25	32	40	50	65	80	100			
Parabolic plug	Kvs-value	(m³/h)	4 2,5	6,3 4 / 2,5	10 6,3	16 10	25 16	40 25	63 40	100 63	160 100			
	max. diff. pressure ¹⁾	(bar)	40	40	40	40	30	20	8	4	1,5			
V-port plug	Kvs-value	(m³/h)	--	--	--	--	--	--	63	100	160			
	max. diff. pressure ¹⁾	(bar)	--	--	--	--	--	--	30	25	25			
Seat-ø		(mm)	21	21	27	31	41	51	66	81	101			
Travel		(mm)	20						30					
DP32 250 cm² Spring opens on air failure  (retracted through spring)	Air supply pressure min. (bar) ²⁾	1,4	I.	(bar)	18,6	18,6	10,7	7,8	3,9	2,2				
			II.	(bar)	15,4	15,4	8,7	6,2	3	1,6				
			III.	(bar)	8,6	8,6	7,1	5	1,7					
			2	I.	(bar)	40	40	34,9	26,3	14,6	9,2	5	3,1	1,8
		II.		(bar)	40	40	32,9	24,8	13,7	8,6	4,6	2,8	1,6	
		III.		(bar)	35,2	35,2	31,3	23,5	12,4	7,7	4,3	2,6	1,5	
			3	I.	(bar)			40	40	32,5	20,8	12	7,8	4,8
		II.		(bar)			40	40	31,6	20,2	11,6	7,5	4,6	
		III.		(bar)	40	40	40	40	30,3	19,4	11,3	7,3	4,5	
			4	I.	(bar)				40	32,4	19	12,4	7,8	
		II.		(bar)					40	31,8	18,6	12,1	7,6	
		III.		(bar)					40	31	18,3	11,9	7,5	
			5	I.	(bar)					40	26	17	10,8	
		II.		(bar)						40	25,6	16,7	10,6	
		III.		(bar)						40	25,3	16,5	10,5	
			6	I.	(bar)						33	21,7	13,8	
		II.		(bar)							32,6	21,4	13,6	
		III.		(bar)							32,3	21,2	13,5	

- I. Fig. 440: PTFE-V-ring unit / EPDM-sealing
- II. Fig. 440: PTFE- / pure graphite-packing
- III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Air supply pressure max. to actuator: 6 bar Restriction: a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar



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ARI-STEVI® 440/441 (DN15-100)


Closing pressures: Pneumatic actuator ARI-DP33



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

DN			15	20	25	32	40	50	65	80	100				
Parabolic plug	Kvs-value	(m³/h)	4 2,5	6,3 4 / 2,5	10 6,3	16 10	25 16	40 25	63 40	100 63	160 100				
	max. diff. pressure ¹⁾	(bar)	40	40	40	40	30	20	8	4	1,5				
V-port plug	Kvs-value	(m³/h)	--	--	--	--	--	--	63	100	160				
	max. diff. pressure ¹⁾	(bar)	--	--	--	--	--	--	30	25	25				
Seat-ø		(mm)	21	21	27	31	41	51	66	81	101				
Travel		(mm)	20						30						
DP33 400 cm² Spring closes on air failure  (extended through spring)	Spring range (bar)	Air supply pressure min. (bar) ²⁾	1,2	I.	(bar)	13,3 c)	13,3 c)	7,4c)	5,2 c)	2,4 c)	1,2 c)				
				II.	(bar)	10,1 c)	10,1 c)	5,4 c)	3,7 c)	1,5 c)					
				III.	(bar)	5 a)	5 a)	3,8 a)	2,5 a)						
			1,4	I.	(bar)	34,2 c)	34,2 c)	20,2 c)	15,1 c)	8,1 c)	4,9 c)	2,5	1,4		
				II.	(bar)	31 c)	31 c)	18,3 c)	13,6 c)	7,3 c)	4,4 c)	2,1	1,1		
				III.	(bar)	19,1 a)	19,1 a)	16,6 a)	12,3 a)	5,9 a)	3,5 a)	1,8 a)			
	2,7	I.	(bar)	40 a)	40 a)	40 a)	34,7 a)	19,5 a)	12,3 a)	7	4,4	2,6			
		II.	(bar)	40 a)	40 a)	40 a)	33,2 a)	18,6 a)	11,8 a)	6,5	4,1	2,4			
		III.	(bar)	40	40	40	31,9	17,3	10,9	6,2	3,9	2,3			
	3,3	I.	(bar)							14,8	9,6	6			
		II.	(bar)							14,3	9,3	5,8			
		III.	(bar)							14	9,1	5,7			
	3,1	I.	(bar)				40 a)	40 a)	29 a)						
		II.	(bar)				40 a)	40 a)	28,4 a)						
		III.	(bar)				40	40	27,6						
	4,5	I.	(bar)							20,3	13,3	8,4			
		II.	(bar)							19,9	12,9	8,2			
		III.	(bar)							19,6	12,8	8,1			
	4,5	I.	(bar)						40						
		II.	(bar)						39,5						
		III.	(bar)						38,6						

DN			15	20	25	32	40	50	65	80	100			
Parabolic plug	Kvs-value	(m³/h)	4 2,5	6,3 4 / 2,5	10 6,3	16 10	25 16	40 25	63 40	100 63	160 100			
	max. diff. pressure ¹⁾	(bar)	40	40	40	40	30	20	8	4	1,5			
V-port plug	Kvs-value	(m³/h)	--	--	--	--	--	--	63	100	160			
	max. diff. pressure ¹⁾	(bar)	--	--	--	--	--	--	30	25	25			
Seat-ø		(mm)	21	21	27	31	41	51	66	81	101			
Travel		(mm)	20						30					
DP33 400 cm² Spring opens on air failure  (retracted through spring)	Air supply pressure min. (bar) ²⁾	1,4	I.	(bar)	34,2 d)	34,2 d)	20,2 d)	15,1 d)	8,1 d)	4,9 d)	2,5 d)	1,4 d)		
			II.	(bar)	31 d)	31 d)	18,3 d)	13,6 d)	7,3 d)	4,4 d)	2,1 d)	1,1 d)		
			III.	(bar)	19,1 d)	19,1 d)	16,6 d)	12,3 d)	5,9 d)	3,5 d)	1,8 d)			
			2	I.	(bar)	40 d)	40 d)	40 d)	40 d)	25,2 d)	16 d)	9,2 d)	5,9 d)	3,6 d)
				II.	(bar)	40 d)	40 d)	40 d)	40 d)	24,3 d)	15,5 d)	8,7 d)	5,6 d)	3,4 d)
				III.	(bar)	40 d)	40 d)	40 d)	40 d)	23 d)	14,6 d)	8,4 d)	5,4 d)	3,3 d)
	3	I.	(bar)					40 d)	34,6 d)	20,3 d)	13,3 d)	8,4 d)		
		II.	(bar)					40 d)	34 d)	19,9 d)	12,9 d)	8,2 d)		
		III.	(bar)					40 d)	33,1 d)	19,6 d)	12,8 d)	8,1 d)		
	4	I.	(bar)						40 c)	31,4	20,6	13,1		
		II.	(bar)						40 c)	31	20,3	12,9		
		III.	(bar)						40 a)	30,7 a)	20,1 a)	12,8 a)		
	5	I.	(bar)							40	28	17,9		
		II.	(bar)							40	27,7	17,7		
		III.	(bar)							40 a)	27,5 a)	17,6 a)		
	6	I.	(bar)								35,4	22,7		
		II.	(bar)								35,1	22,5		

- I. Fig. 440: PTFE-V-ring unit / EPDM-sealing
- II. Fig. 440: PTFE- / pure graphite-packing
- III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Air supply pressure max. to actuator: 6 bar Restriction: a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar




ARI-STEVI® 440/441 (DN15-100)


Closing pressures: Pneumatic actuator ARI-DP34



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

DN			65	80	100	125	150	200	250		
Parabolic plug	Kvs-value	(m³/h)	63 40	100 63	160 100	250 160	400 250	--	--		
	max. diff. pressure ¹⁾	(bar)	8	4	1,5	1	1	--	--		
V-port plug	Kvs-value	(m³/h)	63	100	160	250	400	630	1000		
	max. diff. pressure ¹⁾	(bar)	30	25	25	10	10	5	5		
Seat-ø		(mm)	66	81	101	126	151	201	251		
Travel		(mm)	30			50		65			
DP34 800 cm² Spring closes on air failure  (extended through spring)	Spring range (bar)	Air supply pressure min. (bar) ²⁾	1,2	I. (bar)	2,5 b)	1,5 b)					
				II. (bar)	2,1 b)	1,2 b)					
				III. (bar)	1,8 e)	1 e)					
			1,4	I. (bar)	7 b)	4,4 b)	2,7 b)	1,6	1		
				II. (bar)	6,6 b)	4,1 b)	2,5 b)	1,4			
				III. (bar)	6,3 d)	3,9 d)	2,3 d)	1,2 a)			
	2,7	I. (bar)	16	10,4	6,5	4	2,7				
		II. (bar)	15,5	10,1	6,3	3,9	2,6				
		III. (bar)	15,2 b)	9,9 b)	6,2 b)	3,7	2,5				
	2,4	I. (bar)						1,9	1,1		
		II. (bar)						1,8	1,1		
		III. (bar)						1,7	1		
	3,3	I. (bar)				8,4	5,7				
		II. (bar)				8,2	5,6				
		III. (bar)				8,1	5,5				
	4,5	I. (bar)				11,5	7,9	4,3	2,7		
		II. (bar)				11,3	7,8	4,2	2,6		
		III. (bar)				11,2	7,7	4,2	2,6		
	2,1-3,0	I. (bar)	40	29,7	19						
		II. (bar)	40	29,4	18,8						
		III. (bar)	40 a)	29,2 a)	18,7 a)						
	2,4-3,6	I. (bar)		34,2	21,9						
		II. (bar)		33,9	21,7						

DN			65	80	100	125	150	200	250		
Parabolic plug	Kvs-value	(m³/h)	63 40	100 63	160 100	250 160	400 250	--	--		
	max. diff. pressure ¹⁾	(bar)	8	4	1,5	1	1	--	--		
V-port plug	Kvs-value	(m³/h)	63	100	160	250	400	630	1000		
	max. diff. pressure ¹⁾	(bar)	30	25	25	10	10	5	5		
Seat-ø		(mm)	66	81	101	126	151	201	251		
Travel		(mm)	30			50		65			
DP34 800 cm² Spring opens on air failure  (retracted through spring)	Air supply pressure min. (bar) ²⁾	1,4	I. (bar)	7 b)	4,4 b)	2,7 b)	1,6	1			
			II. (bar)	6,6 b)	4,1 b)	2,5 b)	1,4				
			III. (bar)	6,3 e)	3,9 e)	2,3 e)	1,2 a)				
			2	I. (bar)	20,5 b)	13,3 b)	8,4 b)	5,3	3,6	1,9	1,1
				II. (bar)	20 b)	13 b)	8,2 b)	5,1	3,5	1,8	1,1
				III. (bar)	19,7 e)	12,9 e)	8,1 e)	5 a)	3,4 a)	1,7 a)	1 a)
	3	I. (bar)	40 b)	28,2 b)	18 b)	11,5	7,9	4,3	2,7		
		II. (bar)	40 b)	27,9 b)	17,8 b)	11,3	7,8	4,2	2,6		
		III. (bar)	40 e)	27,7 e)	17,7 e)	11,2 a)	7,7 a)	4,2 a)	2,6 a)		
	4	I. (bar)		40 b)	27,6 b)	17,7	12,2	6,8	4,3		
		II. (bar)		40 b)	27,5 b)	17,5	12,1	6,7	4,2		
		III. (bar)				17,4 a)	12 a)	6,6 a)	4,2 a)		
	5	I. (bar)				23,9	16,6	9,2	5,8		
		II. (bar)				23,7	16,5	9,1	5,8		
		III. (bar)				23,6 a)	16,3 a)	9,1 a)	5,8 a)		
	6	I. (bar)				30,9	20,9	11,7	7,4		
		II. (bar)				29,9	20,8	11,6	7,4		

- I. Fig. 440: PTFE-V-ring unit (DN15-150) / EPDM-sealing
- II. Fig. 440: PTFE- / pure graphite-packing
- III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Air supply pressure max. to actuator: 6 bar Restriction: a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar



ARI-STEVI® 440/441 (DN15-100)

Electric actuator ARI-PREMIO / PREMIO-Plus 2G



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Control valve in straightway form with electric actuator ARI-PREMIO

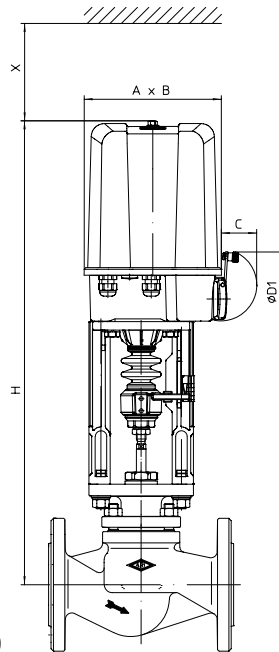


Fig. 440

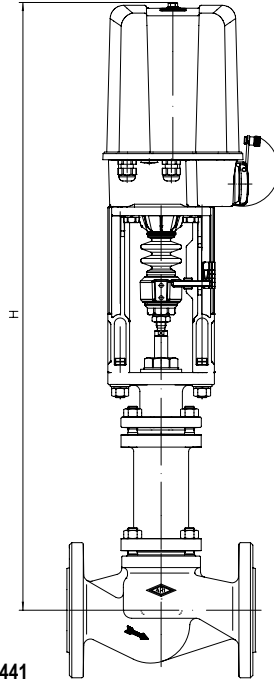


Fig. 441

Actuator data		2,2 - 5 kN	12 - 25 kN
A	(mm)	171	210
B	(mm)	156	184
C	(mm)	50	90
Ø D1	(mm)	90	130
X	(mm)	150	200

Technical data for actuator refer to d ata sheet ARI-PREMIO/PREMIO-Plus 2G

Heights and weights

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	
Fig. 440	2,2 kN	H (mm)	551	551	559	559	566	572	585	600	619	--	--	--	--
		PN16 (kg)	9	10	11	12	14	17	22	28	38	--	--	--	--
		PN40 (kg)	10	11	12	13	15	18	25	31	44	--	--	--	--
	5 kN	H (mm)	551	551	559	559	566	572	585	600	619	678	738	--	--
		PN16 (kg)	--	--	12	13	15	18	23	29	39	56	79	--	--
		PN40 (kg)	--	--	13	14	17	20	27	33	45	62	84	--	--
	12 kN	H (mm)	--	--	--	--	740	746	759	774	793	832	892	993	1053
		PN16 (kg)	--	--	--	--	19	22	27	33	43	60	83	155	270
	15 kN	PN40 (kg)	--	--	--	--	21	24	31	37	49	66	88	187	302
		H (mm)	--	--	--	--	--	--	--	--	--	832	892	949	1009
	25 kN	PN16 (kg)	--	--	--	--	--	--	--	--	--	61	84	156	271
		PN40 (kg)	--	--	--	--	--	--	--	--	--	67	89	188	303
H (mm)		--	--	--	--	--	--	--	--	--	1187	1218	1429	1493	
Fig. 441	2,2 kN	H (mm)	736	736	744	744	733	737	821	833	849	--	--	--	--
		PN16 (kg)	13	13	14	17	19	22	25	36	51	--	--	--	--
		PN40 (kg)	15	17	19	22	28	31	38	48	64	--	--	--	--
	5 kN	H (mm)	736	736	744	744	735	737	821	833	849	1033	1064	--	--
		PN16 (kg)	15	15	16	18	21	23	26	37	53	72	94	--	--
		PN40 (kg)	17	18	21	24	30	32	39	49	66	83	99	--	--
	12 kN	H (mm)	--	--	--	--	909	911	995	1007	1023	1187	1218	1429	1493
		PN16 (kg)	--	--	--	--	25	27	30	41	57	76	89	179	293
	15 kN	PN40 (kg)	--	--	--	--	34	36	43	53	70	87	103	214	329
		H (mm)	--	--	--	--	--	--	--	--	--	1187	1218	1429	1493
	25 kN	PN16 (kg)	--	--	--	--	--	--	--	--	--	77	90	180	294
		PN40 (kg)	--	--	--	--	--	--	--	--	--	88	104	215	330
H (mm)		--	--	--	--	--	--	--	--	--	1187	1218	1429	1493	



ARI-STEVI® 440/441 (DN15-100)

Closing pressures: Electric actuator ARI-PREMIO / PREMIO-Plus 2G



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

DN			15	20	25	32	40	50	65	80	100	125	150	200	250	
Parabolic plug	Kvs-value	(m³/h)	4 2,5	6,3 4 / 2,5	10 6,3	16 10	25 16	40 25	63 40	100 63	160 100	250 160	400 250	--	--	
	max. diff. pressure ¹⁾	(bar)	40	40	40	40	30	20	8	4	1,5	1	1	--	--	
V-port plug	Kvs-value	(m³/h)	--	--	--	--	--	--	63	100	160	250	400	630	1000	
	max. diff. pressure ¹⁾	(bar)	--	--	--	--	--	--	30	25	25	10	10	5	5	
Seat-Ø		(mm)	21	21	27	31	41	51	66	81	101	126	151	201	251	
Travel		(mm)	20						30			50		65		
2,2 kN	Closing pressure	I.	(bar)	40	40	30,8	23,1	12,8	8	4,3	2,7	1,5				
		II.	(bar)	40	40	28,8	21,6	11,9	7,4	3,9	2,3	1,3				
		III.	(bar)	30,7	30,7	27,1	20,4	10,6	6,5	3,6	2,2	1,2				
	Operating time	(s)	53						79							
Operating speed ²⁾		(mm/s)	0,38													
5 kN	Closing pressure	I.	(bar)			40	40	33,2	21,3	12,3	8	4,9	3	2		
		II.	(bar)			40	40	32,3	20,7	11,9	7,6	4,7	2,9	1,9		
		III.	(bar)	40	40	40	40	31	19,8	11,6	7,5	4,6	2,7	1,8		
	Operating time	(s)	53						79			132				
Operating speed		(mm/s)	0,38													
12 kN	Closing pressure	I.	(bar)					40	40	32,3	21,2	13,5	8,5	5,9	3,2	2
		II.	(bar)					40	40	31,8	20,9	13,3	8,4	5,8	3,1	1,9
		III.	(bar)					40	40	31,6	20,7	13,2	8,2	5,6	3	1,9
	Operating time	(s)						53		79			132		171	
Operating speed		(mm/s)	0,38													
15 kN	Closing pressure	I.	(bar)							40	26,9	17,2	10,9	7,5	4,1	2,6
		II.	(bar)							40	26,6	17	10,8	7,4	4	2,5
		III.	(bar)							40	26,4	16,9	10,6	7,3	4	2,5
	Operating time	(s)								79			132		171	
Operating speed		(mm/s)	0,38													
25 kN	Closing pressure	I.	(bar)										18,7	13	7,2	4,6
		II.	(bar)										18,5	12,8	7,1	4,5
		III.	(bar)										18,5	12,8	7,1	4,5
	Operating time	(s)											132		171	
Operating speed		(mm/s)	0,38													

Further operating speeds: refer to data sheet ARI-PREMIO/PREMIO-Plus 2G

$$\text{Operating time [s]} = \frac{\text{Travel [mm]}}{\text{Operating speed [mm/s]}}$$

- I. Fig. 440: PTFE-V-ring unit (DN15-150) / EPDM-sealing
- II. Fig. 440: PTFE- / pure graphite-packing
- III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Based on a frequency of 50Hz the control speed and power consumption of the synchronous motors PREMIO 2,2kN are 20% higher at frequency of 60 Hz.



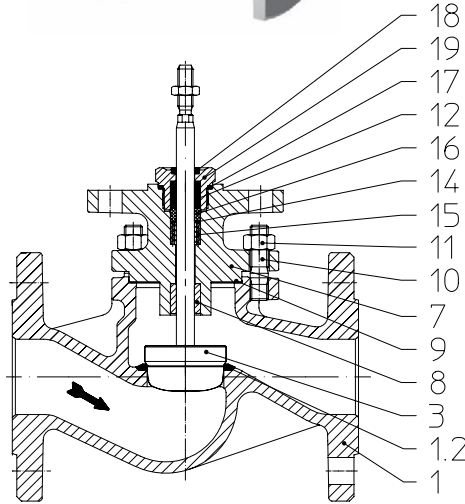
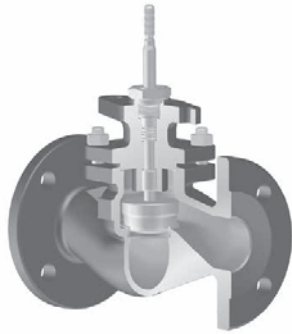
ARI-STEVI® 440 (DN15-100)

Valve: Standard design

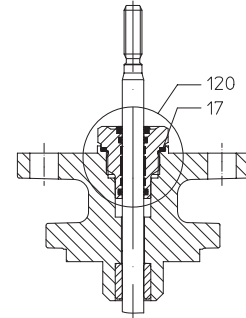


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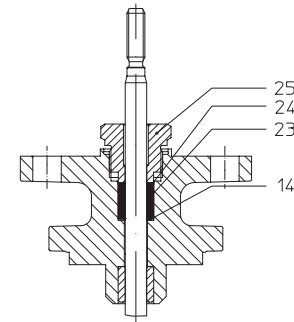
Fig. 440



I. PTFE-V-ring unit



I. EPDM-sealing



II. PTFE- / pure graphite-packing

Pos.	Sp.p.	Description	Fig. 12.440	Fig. 22.440 / Fig. 23.440	Fig. 34.440 / Fig. 35.440	Fig. 54.440 / 55.440
1		Body	EN-GJL-250 , EN-JL 1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
1.2		Seat ring	X20Cr13+QT, 1.4021+QT		X20Cr13+QT, 1.4021+QT >DN50: G19 9 Nb Si, 1.4551	--
3	x	Plug	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
7		Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
8		Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571
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			
14		Washer	X5CrNi18-10, 1.4301			
15		Compression spring	X10CrNi18-8, 1.4310			
16		Bush	PTFE (strengthened)			
17		Gasket	Cu / Soft iron			
18		Scraper	PTFE (strengthened)			
19		Screw joint	X8CrNiS18-9, 1.4305			
23/24	x	Packing ring	PTFE or Pure graphite			
25	x	Screw joint	X8CrNiS18-9, 1.4305			

Stem sealings Fig. 440

23	x	Packing ring	PTFE
23/24	x	Packing ring	Pure graphite
100	x	V-ring unit set	Set of: Pos. 12, 14, 15, 16, 17, 18, 19
120	x	EPDM-sealing	EPDM / X8CrNiS18-9, 1.4305 (when spare part, also necessary: Pos. 17)
L Spare parts			



ARI-STEVI® 441 (DN15-100)

Valve: Standard design



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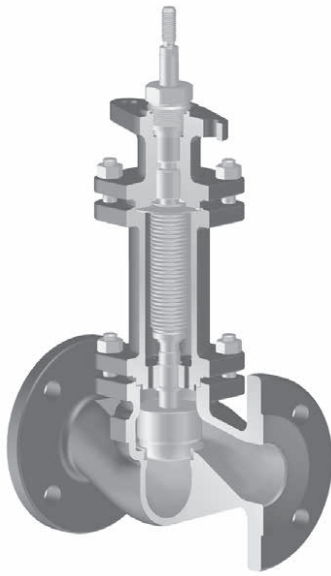
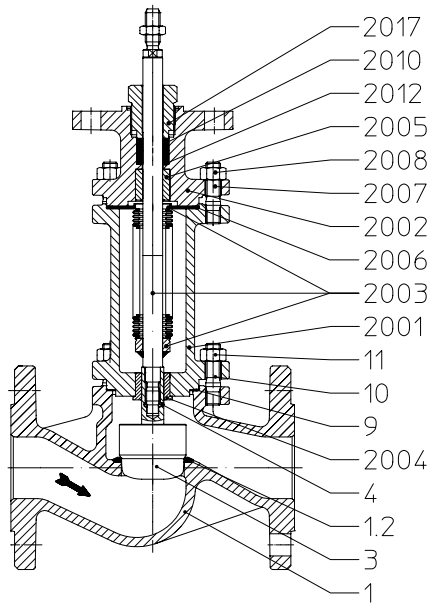
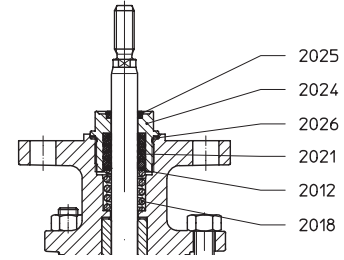


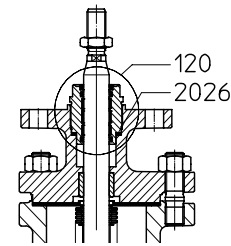
Fig. 441



III. PTFE-packing / Pure graphite-packing



III. Stainless steel-bellow with V-ring unit



III. Stainless steel bellows seal with EPDM-sealing

Pos.	Sp.p.	Description	Fig. 12.441	Fig. 22.441 / Fig. 23.441	Fig. 34.441 / Fig. 35.441	Fig. 55.441
1		Body	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
1.2		Seat ring	X20Cr13+QT, 1.4021+QT		X20Cr13+QT, 1.4021+QT >DN50: G19 9 Nb Si, 1.4551	--
3	x	Plug	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
4	x	Clamping sleeve	X10CrNi18-8, 1.4310			A4 - 70
9	x	Gasket	Pure graphite (CrNi laminated with graphite)			
10		Stud	25CrMo4, 1.7218			A4 - 70
11		Hexagon nuts	C35E, 1.1181			A4
2001		Bellows housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
2002		Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
2003	x	Stem- / Bellows unit	X20Cr13+QT, 1.4021+QT / X6CrNiTi18-10, 1.4541			X6CrNiMoTi17-12-2, 1.4571
2004		Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571
2005		Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571
2006	x	Gasket	Pure graphite (CrNi laminated with graphite)			
2007		Stud	25CrMo4, 1.7218			A4 - 70
2008		Hexagon nuts	C35E, 1.1181			A4
2010	x	Packing ring	Pure graphite			
2012	Set. refer to Pos. 100	Washer	X5CrNi18-10, 1.4301			
2018		Compression spring	X10CrNi18-8, 1.4310			
2021		V-ring unit	PTFE			
2024		Screw joint	X8CrNiS18-9, 1.4305			
2025		Scraper	PTFE			
2026		Gasket	X6CrNiMoTi17-12-2, 1.4571			
2017			Screw joint	X8CrNiS18-9, 1.4305		

Stem sealings Fig. 441

2010	x	Packing ring	Pure graphite
2010	x	Packing ring	PTFE
100	x	V-ring unit set	Set of: Pos. 2012 - 2026
120	x	EPDM-sealing	EPDM / X8CrNiS18-9, 1.4305 (when spare part, also necessary: Pos. 2031)

L Spare parts

