

ARI-STEVI® 453 (DN25-100)

Electric actuator ARI-PREMIO / PREMIO-Plus 2G



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Feedwater control valve with pump spill back with electric actuator ARI-PREMIO-Plus 2G

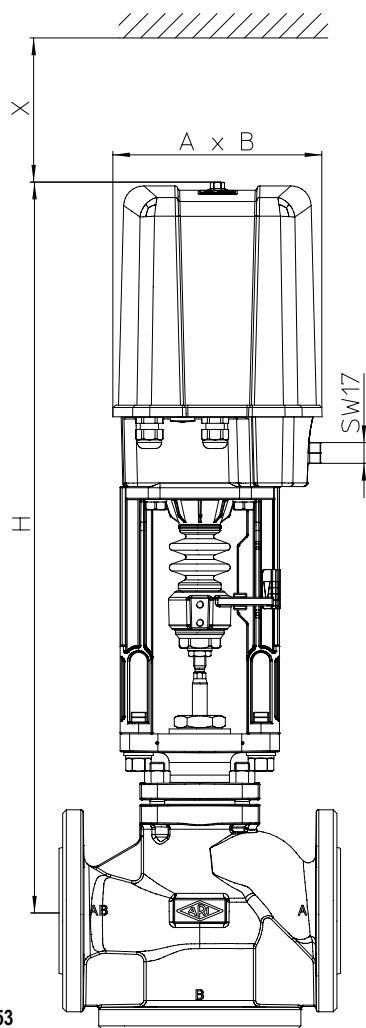


Fig. 453



Actuator data		2,2 - 5 kN	12 - 15 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 data sheet ARI-PREMIO/PREMIO-Plus 2G

Heights and weights

DN				25	32	40	50	65	80	100
Fig. 453	2,2 kN	H	(mm)	563	589	595	593	--	--	--
		PN40	(kg)	14	18	22	25	--	--	--
	5 kN	H	(mm)	563	589	595	593	629	645	664
		PN40	(kg)	15	19	22	25	34	45	63
	12 kN	H	(mm)	737	763	769	767	803	819	838
		PN40	(kg)	20	23	27	30	39	49	68
	15 kN	H	(mm)	--	--	--	--	803	819	838
		PN40	(kg)	--	--	--	--	39	49	68



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



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max. permissible closing pressures on flow-to-open and P2 = 0.
Note restrictions through pressure-temperature-ratings, refer to page 3.

DN			25					32				40				50				
Straight through	Kvs-value	(m³/h)	1	1,6	2,5	4	6,3	2,5	4	6,3	10	4	6,3	10	16	6,3	10	16	25	
	Seat-Ø A	(mm)	27					27			31	27		31	41	27	31	41	51	
Bypass	Kvs-value	(m³/h)	0,1	0,16	0,25	0,40	0,63	0,25;	0,4	0,63	1,0	0,4	0,63	1,0	1,6	0,63	1,0	1,6	2,5	
	Seat-Ø B	(mm)	8					8			8			13	8		13			
max. differential pressure ¹⁾		(bar)	40					40			40			40						
Travel		(mm)	20					20			20			20						
2,2 kN	Closing pressure	I. (bar)	15,4					15,4		11,6		15,4		11,6		6,4	15,4	11,6	6,4	4
	Operating time		(s)	53					53			53			53					
	Operating speed ²⁾		(mm/s)	0,38																
5 kN	Closing pressure	I. (bar)	38,5					38,5		29,2		38,5		29,2		16,6	38,5	29,2	16,6	10,6
	Operating time		(s)	53					53			53			53					
	Operating speed		(mm/s)	0,38																
12 kN	Closing pressure	I. (bar)	40					40			40			40				27,2		
	Operating time		(s)	53					53			53			53					
	Operating speed		(mm/s)	0,38																

DN			65				80				100				
Straight through	Kvs-value	(m³/h)	10	16	25	40	16	25	40	63	25	40	63	100	
	Seat-Ø A	(mm)	41	41	51	66	41	51	66	81	51	66	81	101	
Bypass	Kvs-value	(m³/h)	1,0	1,6	2,5	4	1,6	2,5	4,0	6,3	2,5	4,0	6,3	10	
	Seat-Ø B	(mm)	25				25				25				
max. differential pressure ¹⁾		(bar)	40				40				40				
Travel		(mm)	30				30				30				
5 kN	Closing pressure	I. (bar)	16,5	16,5	10,5	6,2	16,5	10,5	6,2	4	10,5	6,2	4	2,5	
	Operating time		(s)	79				79				79			
	Operating speed		(mm/s)	0,38											
12 kN	Closing pressure	I. (bar)	40	40	27,1	16,1	40	27,1	16,1	10,6	27,1	16,1	10,6	6,8	
	Operating time		(s)	79				79				79			
	Operating speed		(mm/s)	0,38											
15 kN	Closing pressure	I. (bar)	40	40	34,3	20,4	40	34,3	20,4	13,4	34,3	20,4	13,4	8,6	
	Operating time		(s)	79				79				79			
	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. EPDM sealing

¹⁾ Max. differential pressure drop with flow

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.

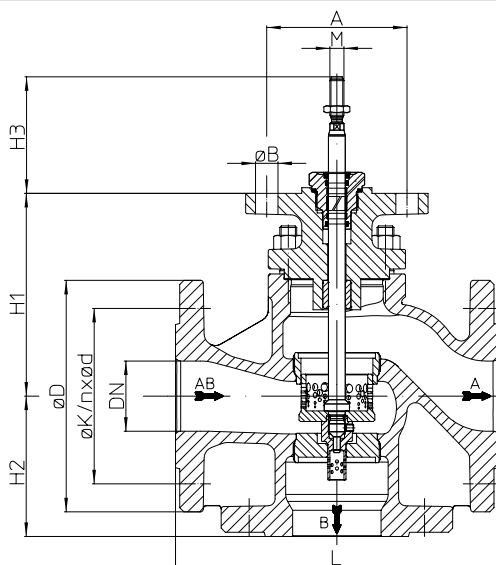


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DN			25	32	40	50	65	80	100
Dimensions									
M	Fig. 453	(mm)	M10				M14 x 1,5		
H1	Fig. 453	(mm)	115	141	147	154	181	197	216
H2	Fig. 453	(mm)	75	80	90	100	120	130	150
H3	Fig. 453	(mm)	83						
A	Fig. 453	(mm)	100						
ØB	Fig. 453	(mm)	2 x Ø 16						

Face-to-face dimension FTF series 1 according to DIN EN 558									
L	(mm)		160	180	200	230	290	310	350

Flanges acc. to DIN EN 1092-1/-2									
ØD	PN40	(mm)	115	140	150	165	185	200	235
ØK	PN40	(mm)	85	100	110	125	145	160	190
n x Ød	PN40	(mm)	4 x 14	4 x 18	4 x 18	4 x 18	8 x 18	8 x 18	8 x 22

Weights									
Fig. 453	PN40	(kg)	9	13	16	19	28	39	57

max. perm. closing forces									
Fig. 453		(kN)	12,7				29,5		

Pos.	Ers.	Description	Fig. 35.453
1		Body	GP240GH+N, 1.0619+N
2	x	Seat ring	X20Cr13+QT, 1.4021+QT (hardened)
7		Mounting bonnet	GP240GH+N, 1.0619+N
8		Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)
9	x	Gasket	Pure graphite (CrNi laminated with graphite)
10		Studs	25CrMo4, 1.7218
11		Hexagon nuts	C35E, 1.1181
17	x	Sealing ring	Cu / Soft iron
21		Hexagon nuts	17H-A2G
31	x	Plug	X20Cr13+QT, 1.4021+QT
34	x	Seat ring	X20Cr13+QT, 1.4021+QT (hardened)
40	x	Plug	X20Cr13+QT, 1.4021+QT
41	x	Stem	X20Cr13+QT, 1.4021+QT
64		Grub screw	A2

Stem sealing Fig. 453			
56	x	EPDM sealing	X8CrNiS18-9, 1.4305 / EPDM
	L Spare parts		

