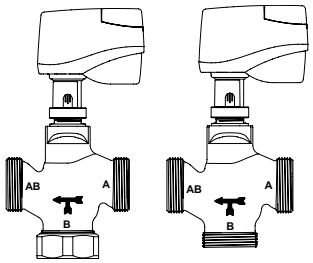
Control valve in 3-way-/straightway form in compact-design for HVAC Applications - Fig. 491 / Fig. 492
Control valve in 3-way-/straightway form for HVAC Applications - Fig. 485/487 / Fig. 486/488

ARI-STEVI® H 491 / 492

Electric actuator

- Enclosure IP 40
- Supply voltage 24 V AC/DC
  input signal 0-10 V
  feedback 0-10 V
- Supply voltage 24/230 V AC
  3-step control
- Handwheel



Page 2

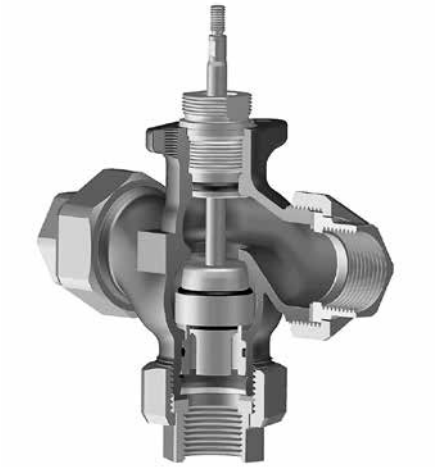
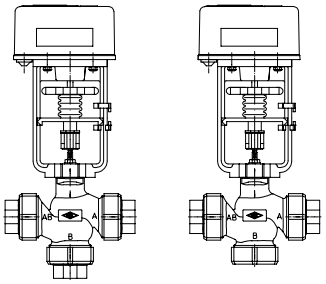


Fig. 487

ARI-STEVI® H 487 / 488

Electric actuator
ARI-PACO 0,85kN

- Supply voltage 24V/50Hz
  input signal 0-10 V
  feedback 0-10 V
- Supply voltage 24/230V AC
  3-step control
- Handwheel
- Travel indicator
- Additional devices available,
  e.g. potentiometer



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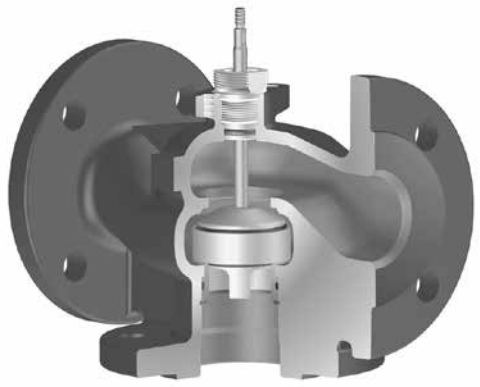
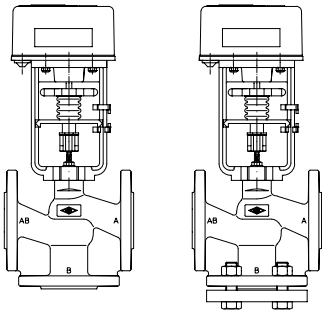


Fig. 485

ARI-STEVI® H 485 / 486

Electric actuator
ARI-PACO 0,85kN
ARI-PACO 2G 1,6kN

- Supply voltage 24V/50Hz
  input signal 0-10 V
  feedback 0-10 V
- Supply voltage 24/230 VAC
  3-step control
- Handwheel
- Travel indicator
- Additional devices available,
  e.g. potentiometer



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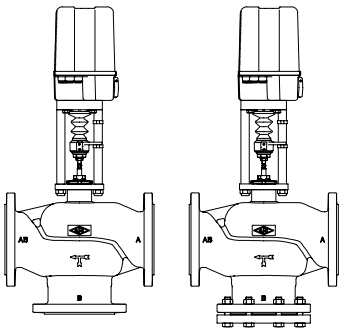
ARI-STEVI® H 485 / 486

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

- Enclosure IP 65
- Supply voltage 24V AC/DC
- Supply voltage 90-264V AC
- optional input signal:
  -3-point from 12 to 250VAC/DC
  -0-10V
  -4-20mA
- 2 torque switches
- Handwheel
- Additional devices available,
  e.g. potentiometer, feedback 0-10V/4-20mA



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Control valve in compact-design for heating, ventilation and air-conditioning - 3-way with threaded joint - Fig. 491

Control valve in compact-design for heating, ventilation and air-conditioning - straight through with threaded joint - Fig. 492

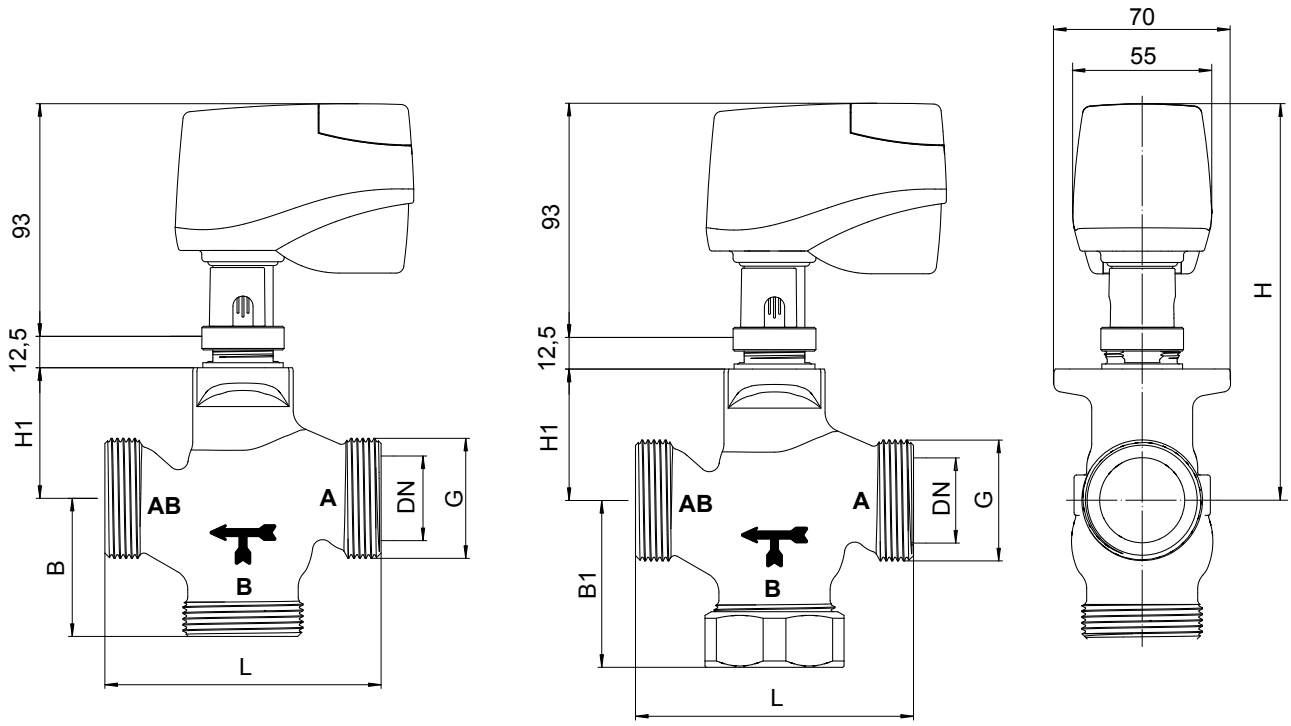

Fig. 491 Mixing function

Fig. 492 Straight through function

Figure	Nominal pressure	Material	Nominal diameter	Stem sealing	Temperature range
72.491	PN16	CC499K	DN15-50	EPDM-O-ring	0°C to +120°C
72.492	PN16	CC499K	DN15-50	EPDM-O-ring	0°C to +120°C
Other materials and versions on request.					

Plug design		Guiding	Rangeability
standard:	• **A** Parabolic plug, Metal-seated • **B** V-port plug, Metal-seated	Stem and seat guiding	30 : 1
Flow characteristic			
standard:	• **A** equal percentage to DN32 / **A** linear DN40 and DN50 • **B** linear		
Shut off class (seat / plug leakage classes)			
Metal:	• DIN EN 60534-4 0,05% of the Kvs		
Technical data for actuator refer to data sheet.			

DN				15	20	25	32	40	50
Kvs-value									
Kvs-value	Parabolic plug / V-port plug	Standard	(m^3/h)	**2,5**	**6,3**	**10**	**16**	**25**	**35**
		Reduced	(m^3/h)	1,6 / 1,0 / 0,63	4	8,0 / 6,3	10	--	--
Seat-Ø			(mm)	18	21	27	31	41	51
Travel			(mm)	10					
Face-to-face dimension FTF series 1 according to DIN EN 558									
L			(mm)	80	90	110	120	130	150
Connections									
Ø G		PN16	(inch)	G 1 1/8	G 1 1/4	G 1 1/2	G 2	G 2 1/4	G 2 3/4
Heights									
H			(mm)	152	152	158	162	171	171
H1			(mm)	46	46	52	56	65	65
H3			(mm)	65	65	66	67	72	77
B			(mm)	55	55	55	55	60	65
B1			(mm)	65	65	66	67	72	77
Weights									
BR491		PN16	(kg)	1,3	1,4	1,6	2,2	2,6	3,7
BR492		PN16	(kg)	1,4	1,5	1,8	2,4	2,9	4,2
Closing pressures				**max. permissible closing pressures** on flow-to-open P2 = 0. Observe pressure-temperature-limits, see below.					
Max. allowable differential pressure at flow			(bar)	1	1	1	1	1	0,7
0,5 kN		Closing pressure	(bar)	12,1	9,2	5,0	3,5	1,5	0,7
		Operating time	(s)	220					
		Operating speed	(mm/s)	0,045					
Pressure-temperature-ratings									
acc. to DIN EN 1092-3				**0°C to 120°C**					
CC499K		PN16	(bar)	16					

Parts		
Description	**Fig. 72.487**	**Fig. 72.488**
Body	CuSn5Zn5Pb5-C, CC499K	
Seat ring	X20Cr13+QT, 1.4021+QT	
O-ring	EPDM	
Retaining ring	FSt	
Plug	CuZn39Pb3, CW614N	
O-ring	EPDM	
Stem	X20Cr13+QT, 1.4021+QT	
Screw joint	CuZn39Pb3, CW614N	
Retaining ring	CuSn6, CW452K	
O-ring	EPDM	
Bush	PTFE	
Washer	CuZn37, CW508L	
O-ring	EPDM	
Gasket	Centellen	
Sleeve nut	TMP / chrom.	
Blind plate	--	S235JR, 1.0037

Information / restriction of technical rules need to be observed!

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).

myValve®GBT - Your Valve Sizing-Program.

"myValve® HVAC", the ARI valve sizing program, provides direct access to all information which is relevant for planning and engineering your individual application. In addition to the industrial version, you can now also benefit from a new version that was created especially for HVAC applications and is optimised for heating, cold water, air conditioning, ventilation and cooling. With myValve® HVAC you not only calculate your ARI system components. You also have access to all other data about the selected product, such as order information, tender specifications, spare parts drawings, operating instructions, data sheets, 3D CAD data, etc., whenever you need it.

Product guidance:	- Preselection of different HVAC systems to guide you to the ideal products
Product sizing:	- CONTROL (including selection of the electric actuators), ISOLATION-valves, ISOLATION-butterfly valves (including actuators), FLOW REGULATION and SAFETY
Media:	**Integrated media database for the media used in HVAC applications:** - Glycols - Water mixtures
Special features:	- Project administration of the calculation and product data incl. spare part drawings concerning to project and tag number. - Direct output or calculation and product data in PDF format. - Product data could be taken for a direct order. - Settings with over pressure or absolute pressure. - All ARI valves for HVAC applications are integrated in a data bank. - Direct access concerning to the product on data sheets, operating instructions, pressure-temperature-diagram, spare part drawings, CAD symbols and tender specifications. - CAD-Dateien im BIM-REVIT-Format geplant - Tender specifications also possible in GAEB format. - Operation in company networks possible (no complex installations on individually PC's necessary). - Extensive catalogue extending over several product groups.
System Requirements:	Windows operating systems, Linux, etc.

Have we sparked your interest? Please contact us at info.vertrieb@ari-armaturen.com or register for a free download link at www.ari-armaturen.com/myvalve-gbt