

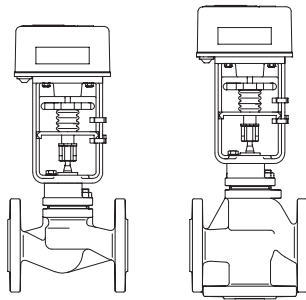
Control valve in straightway form for heating - Fig. 480

Control valve in 3-way-form for heating - Fig. 483

ARI-STEVI® H 480 / 483

Electric actuator ARI-PACO

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



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Features

- Compact design
- Tight seat
- Operating temperature max. -10 to 200°C
- Kvs-value 0,4-160
- Reducible kvs-values
- Flow characteristics: equal percentage
- Burnished stem, made of material No. 1.4571
- Low friction stem-sealing unit
- Stem sealing free of maintenance
- Nominal pressure PN16 and PN25
- Nominal diameter DN 15-100
- Larger valve sizes available with other ARI Control valve series

Control valve for heating, ventilation and air-conditioning - straight through with flanges - Fig. 480

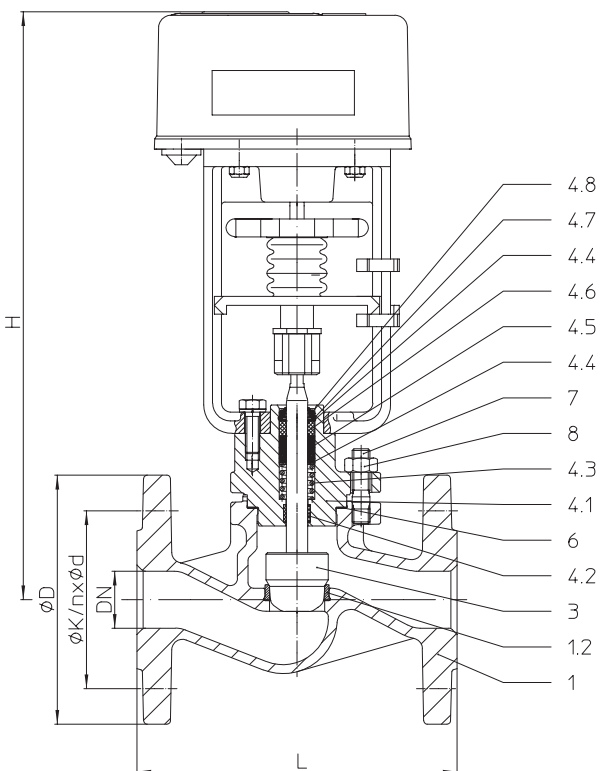


Figure	Nominal pressure	Material	Nominal diameter
22.480	PN16	EN-JS1049	DN15-100
23.480	PN25	EN-JS1049	DN15-100
22.483	PN16	EN-JS1049	DN15-100
23.483	PN25	EN-JS1049	DN15-100

Other materials and versions on request.

Operating temperature
• -10°C to +200 °C

Stem sealing
• PTFE-V-ring unit

Plug design
• Parabolic plug
• V-port plug (at Fig. 480 from DN80)

Guide
• Stem and port guiding (at Fig. 480 port guiding from DN80)

Flow characteristic
• Fig. 480: equal percentage
• Fig. 483: A equal percentage / B linear

Rangeability
• Fig. 480: 50 : 1
• Fig. 483: 30 : 1

Shut off class (Seat / Plug-Leakage rate)
• Metal seat - Leakage class IV acc. to DIN EN 1349 or IEC 60534-4

Technical data for actuator refer to data sheet.

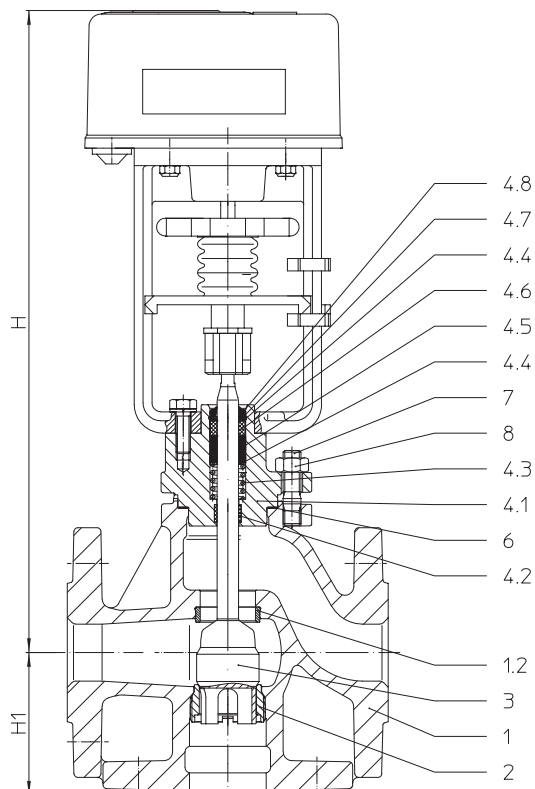
Selection of possible applications

Heating-, Ventilation- and Air-Conditioning- Systems, etc.
(other applications on request)

Selection of possible flow media

Water, Water with cold-protection, etc.
(other flow media on request)

Control valve for heating, ventilation and air-conditioning - 3-way with flanges - Fig. 483



Dimensions and weights

		DN	15	25	32	40	50	65	80	100
L		(mm)	130	160	180	200	230	290	310	350
Fig. 480	H	(mm)	327	335	335	346				
	ARI-PACO 0,85 kN	PN16/25	(kg)	4,5	6,1	7,6	10			
	H	(mm)					497	513	529	547
	ARI-PACO 1,6 kN	PN16/25	(kg)				14,7	20	24,8	36,1
Fig. 483	H	(mm)	335	339	365	375				
	H1	(mm)	65	75	80	90				
	ARI-PACO 0,85 kN	PN16/25	(kg)	5	6,7	8,7	12,3			
	H	(mm)					518	556	572	591
	H1	(mm)					100	120	130	150
	ARI-PACO 1,6 kN	PN16/25	(kg)				17,5	23,5	29,1	44,5

Standard-flange dimensions refer to page 4.

Face-to-face dimension FTF series 1 according to DIN EN 558

max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations.)

Fig. 480 Straight through function		Fig. 483 Mixing function									
DN		15	25	32	40	50	65	80	100		
Seat-Ø (mm)		5	21	27	31	41	51	66	81	101	
Standard Kvs-values			4	10	16	25	40	63	100	160	
Reduced Kvs-values		0,63* / 0,4*	2,5 / 1,6* / 1*	6,3							
Travel (mm)		15					30				
Actuator ARI-PACO 0,85 kN	Closing pressure (bar)	25	16,4	9,3	6,7	3,3	--	--	--	--	
	Operating time (s) (operating speed 0,11 mm/s)	136					--				
Actuator ARI-PACO 1,6 kN	Closing pressure (bar)	--	--	--	--	--	5,3	2,9	1,7	0,9	
	Operating time (s) (operating speed 0,15 mm/s)	--					200				

* only Fig. 480

Parts

Pos.	Description	Fig. 22.480 / 23.480	Fig. 22.483 / 23.483
1	Body	EN-GJS-400-18U-LT, EN-JS1049	
1.2	Seat ring	X20Cr13+QT, 1.4021+QT	
2	Seat ring *	--	X20Cr13+QT, 1.4021+QT
3	Plug / Stem *	X6CrNiMoTi17-12-2, 1.4571	
4.1	Mounting bonnet *	EN-GJS-400-18U-LT, EN-JS1049	
4.2	Guiding band *	PTFE +25%C	
4.3	Spring *	X10CrNi18-8, 1.4310	
4.4	Washer *	X5CrNi18-10, 1.4301	
4.5	V-ring unit *	PTFE	
4.6	Bushing *	PTFE +25%C	
4.7	Retaining ring *	F St	
4.8	Scraper *	FPM	
6	Gasket *	Pure graphite (CrNi laminated with graphite)	
7	Studs	25CrMo4, 1.7218	
8	Hexagon nuts	C35E, 1.1181	

* Spare parts (Pos. 4.1 - 4.8 will be supplied as unit with supporting stem)

Information / restriction of technical rules need to be observed!

A production allowance acc. to TRB 801 No. 45 exists

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

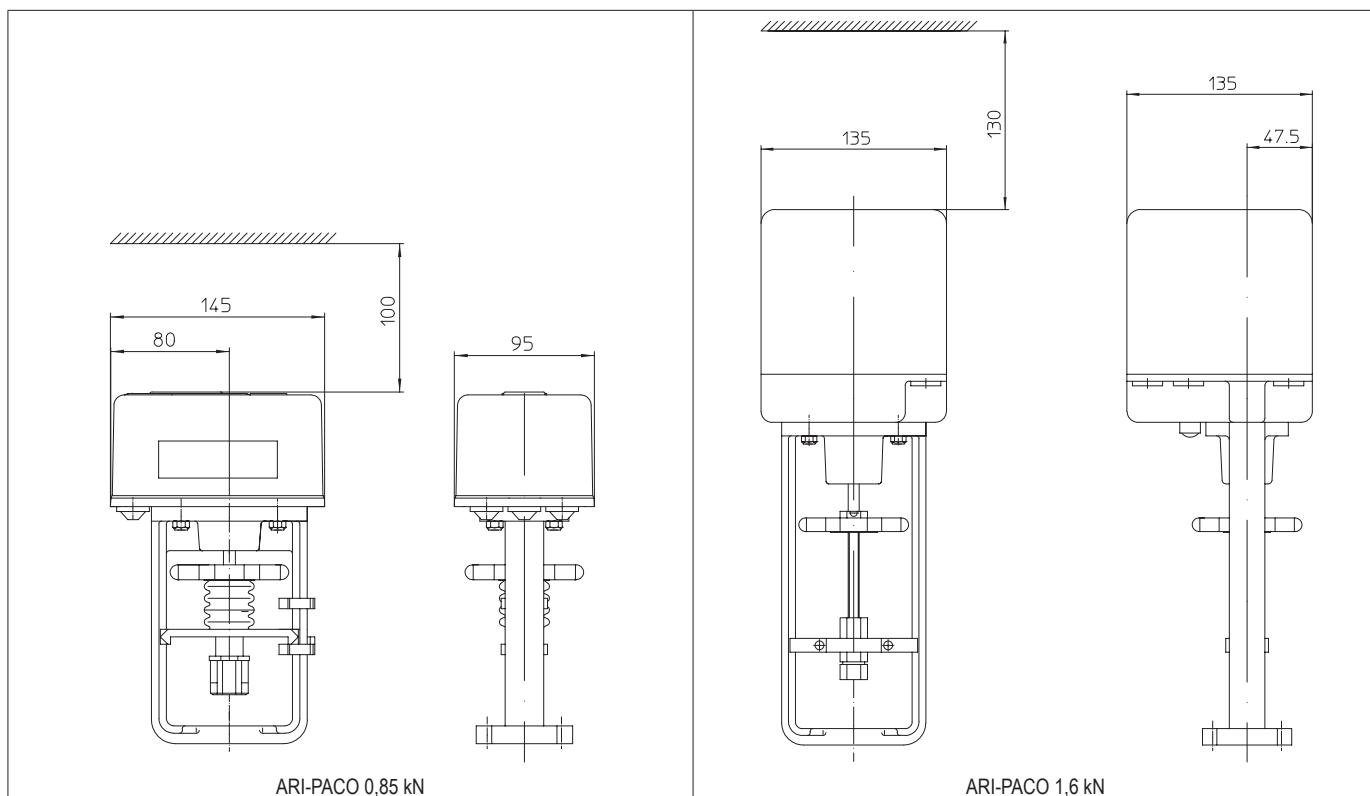
Standard-flange dimensions

DN			15	25	32	40	50	65	80	100
PN16	ØD	(mm)	95	115	140	150	165	185	200	220
PN16	ØK	(mm)	65	85	100	110	125	145	160	180
PN16	n x Ød	(mm)	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18	4 x 18	8 x 18	8 x 18
PN25	ØD	(mm)	95	115	140	150	165	185	200	235
PN25	ØK	(mm)	65	85	100	110	125	145	160	190
PN25	n x Ød	(mm)	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18	4 x 18	8 x 18	8 x 22

Pressure-temperature-ratings acc. to DIN EN 1092-2

Material			-10°C to 120°C	150°C	200°C
EN-JS1049	PN16	(bar)	16	15,5	14,7
EN-JS1049	PN25	(bar)	25	24,3	23

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


Bei Bestellung bitte angeben:

- Figure-No.
- Nominal diameter
- Nominal pressure
- Body material
- Plug design
- Kvs-value
- Stem sealing
- Actuator

Example:

Figure 22.483; nominal diameter DN 50; nominal pressure PN25; body material EN-JL1049; mixing function; Kvs 40; actuator ARI-PACO 0,85 kN; 24V AC.

Dimensions in mm
 Weights in kg
 Pressures in barg (gauge)
 1 bar $\hat{=}$ 10⁵ Pa $\hat{=}$ 0,1 MPa
 Kvs in m³/h