



ADCAPURE Pressure reducing valve Type 8847 series P161 stainless steel direct-acting Tri-clamp DIN 32676-A



The ADCAPure series P161 is a direct-acting, diaphragm-operated right-angle pressure reducing valve, designed for use with clean steam, water compressed air, and gases and liquids that do not affect the materials and design of the structure.

This high-end pressure reducing valve features a compact design with clamped housing, seals in compliance with FDA / USP Class VI, and a non-rising control knob.

It is completely machined from 316L stainless steel bar stock, without the use of casting and/or forging, and both internal and external parts are polished and then ultrasonically cleaned.

Reduced pressure ranges.

- 0,3 - 1,1 bar.
- 0,8 - 1,5 bar.
- 1,0 - 3,0 bar.
- 1,5 - 5,0 bar.

Where pressure ranges overlap, the best regulation is obtained with the lighter spring.

Characteristics

Series: P161

Type: 8847

Model: Direct-acting

Process connection: Tri-clamp

Standard connection: DIN 32676-A

Maximum inlet pressure: 8 bar

Min. outlet pressure [bar]: 0.3 bar

PMA - maximum allowable pressure: 16 bar

TMO - maximum operating temperature: 180 °C

Suitable for gases: Yes

Housing material: Stainless steel 316L

Material quality: 1.4404

Material adjustment knob: Stainless steel 316L [1.4404]

Seat material: EPDM

Upper diaphragm material: EPDM

Lower diaphragm material: Gylon

Spring material: Stainless steel 302 [1.4300]

Material spring bonnet: Stainless steel 316L [1.4404]

Internal roughness value: $\leq 0.51 \mu\text{m Ra} - \text{SF1}$

External roughness value: $\leq 0.76 \mu\text{m Ra} - \text{SF3}$

Mounting direction: Horizontal

Flow direction: through arrow marking on housing

Approvals: PED 2014/68/EU fluid group 2

Application

- Clean steam.
- Compressed air.
- Water.
- Liquids and gases that do not affect the structure.
- Recommended in: Pharma

Technical Information

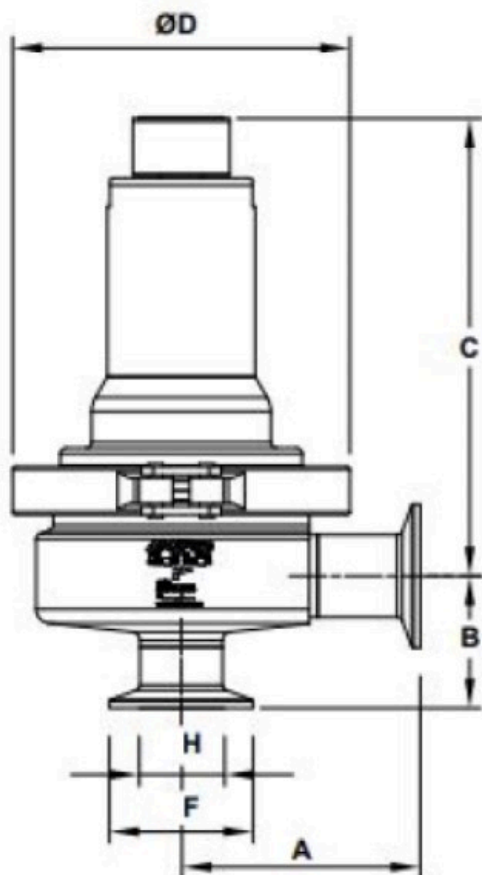
- Installation in a horizontal position with the adjustment knob pointing vertically upwards. Other installation positions may increase wear and shorten its service life.

Options

- Self relieving.
- Dome-loading.
- Top cover (set screw with cover).
- Various soft seals for liquids and gases.
- Connection for leak line.
- Panel mounting.
- Wall mounting.
- Degreased for oxygen application.
- Gauge connection.
- Plastic adjustment knob (nylon).

Size table:

Dimension	P bar	A mm	B mm	C mm	ØD mm	F mm	H mm	Weight kg
DN15	0.8 / 1.5	77	45	160	119	34	16	4.4
DN15	0.3 / 1.1	85	45	160	134	34	16	5.1
DN15	1 / 3	77	45	160	119	34	16	4.4
DN15	1.5 / 5	77	45	160	119	34	16	4.4
DN20	0.3 / 1.1	85	40	158	134	34	20	4.9
DN20	1.5 / 5	77	40	158	119	34	20	4.3
DN20	0.8 / 1.5	77	40	158	119	34	20	4.3
DN20	1 / 3	77	40	158	119	34	20	4.3
DN25	1.5 / 5	84	47	161	119	50.5	26	4.6
DN25	0.8 / 1.5	84	47	161	119	50.5	26	4.6
DN25	1 / 3	84	47	161	119	50.5	26	4.6
DN25	0.3 / 1.1	92	47	161	134	50.5	26	5.3
DN32	1 / 3	84	50	163	119	50.5	32	4.8
DN32	0.3 / 1.1	84	50	163	134	50.5	32	5.5
DN32	0.8 / 1.5	84	50	163	119	50.5	32	4.8
DN32	1.5 / 5	84	50	163	119	50.5	32	4.8
DN40	0.3 / 1.1	109	69	202	170	50.5	38	11
DN40	1.5 / 5	93	69	202	134	50.5	38	8
DN40	1 / 3	93	69	202	134	50.5	38	8
DN40	0.8 / 1.5	93	69	202	134	50.5	38	8
DN50	0.3 / 1.1	109	75	243	170	64	50	12
DN50	1 / 3	93	75	243	134	64	50	8.6
DN50	1.5 / 5	93	75	243	134	64	50	8.6
DN50	0.8 / 1.5	93	75	243	134	64	50	8.6



Size process connection	Kvs value m³/h	Reduced pressure range bar	PED classification	Article
DN15	2.1	0.8 / 1.5	PED-SEP	14543351
DN15	2.1	0.3 / 1.1	PED-SEP	14543352
DN15	2.1	1 / 3	PED-SEP	14543349
DN15	2.1	1.5 / 5	PED-SEP	14543350
DN20	3	0.3 / 1.1	PED-SEP	14543356
DN20	3	1.5 / 5	PED-SEP	14543354
DN20	3	0.8 / 1.5	PED-SEP	14543355
DN20	3	1 / 3	PED-SEP	14543353
DN25	4.2	1.5 / 5	PED-SEP	14543358
DN25	4.2	0.8 / 1.5	PED-SEP	14543359
DN25	4.2	1 / 3	PED-SEP	14543357
DN25	4.2	0.3 / 1.1	PED-SEP	14543360
DN32	4.2	1 / 3	PED-SEP	14543361
DN32	4.2	0.3 / 1.1	PED-SEP	14543364
DN32	4.2	0.8 / 1.5	PED-SEP	14543363
DN32	4.2	1.5 / 5	PED-SEP	14543362

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Size process connection	Kvs value m³/h	Reduced pressure range bar	PED classification	Article
DN40	7	0.3 / 1.1	PED-SEP	14543368
DN40	7	1.5 / 5	PED-SEP	14543366
DN40	7	1 / 3	PED-SEP	14543365
DN40	7	0.8 / 1.5	PED-SEP	14543367
DN50	13	0.3 / 1.1	PED-SEP	14543372
DN50	13	1 / 3	PED-SEP	14543369
DN50	13	1.5 / 5	PED-SEP	14543370
DN50	13	0.8 / 1.5	PED-SEP	14543371

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