

Pressure Reducing Valve P-147 SANITARY PILOT OPERATED

DESCRIPTION

The ADCA P147 series sanitary pilot operated pressure reducing valves are designed for use with clean air, nitrogen, carbon dioxide, oxygen, argon and other gases or liquids compatible with the construction materials and valve design.

This valve is specifically designed for the high purity gas systems found in the pharmaceutical, cosmetic, fine chemical and food & beverage processes.

MAIN FEATURES

1. Completely machined from 316L stainless steel barstock, no castings or forgings are used.
2. FDA / USP Class VI compliant seals.
3. No rising stem

STANDARD SURFACE FINISH

Internal wetted parts: $\pm 0,51$ micron Ra \leq SF1. External : $\pm 0,76$ micron Ra \leq SF3.

Other surface conditions see IS PV20.00 E \leq Technical information.
Ultrasonic cleaning.



OPTIONS:

Bottom cover with drain, for clean steam.

USE:

Clean air, nitrogen, carbon dioxide, oxygen, argon and other gases or liquids compatible with the construction. Clean steam (under special request).

AVAILABLE MODELS:

P-147

SIZES:

21/2" to 3"

SPRING RANGES:

0,2 -1,5 bar, 0,3 -3 bar, 2 -8 bar

CONNECTIONS:

Clamp ends or others on request.

PACKAGING:

Assembling and packaging in a clean room certified according to ISO 14644-1. The product is end capped and vacuum sealed with recyclable plastic film to avoid contamination.

INSTALLATION:

Horizontal installation, inlet vertical and horizontal outlet angle connection

ORDER REQUIREMENTS:

Type of fluid, maximum operating temperature and required outlet pressure Capacity (maximum and minimum)

CE MARKING (PED - European Directive 97/23/EC)

PN 16	Category
21/2" to 3"	1 (CE marked)

Capacities		
Valve size	2 1/2"	3"
Kv s	41	46

DIMENSIONS (mm)-Screwed					EN1092-1 Flanges		
SIZE	A	B	C	D	F	H	WGT. Kgs.
2 1/2"	197	307	89	134	77,5	60,2	17,1
3"	197	307	89	134	91	72,9	16,8

MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	* Plug	AISI 316L / 1.4404
3	* Plug seal	EPDM; TFM 1600 **
4	* Main valve spring	AISI 316 / 1.4401
5	* O-ring	EPDM
6	Bottom cover	AISI 316L / 1.4404
7	* Stem	AISI 316L / 1.4404
9	* Plain bearing	PTFE
10	Piston	AISI 316L / 1.4404
11	* O-ring	EP DM
12	Positioning pipe	AISI 316L / 1.4404
13	Gasket	PTFE
14	Pilot valve body	AISI 316L / 1.4404
15	Bolts	AISI 304 / 1.4301
16	Seat	AISI 316L / 1.4404
17	* O-ring	EPDM
18	* Pilot valve seat	EPDM
19	* Pilot valve plug	AISI 316L / 1.4404
19	* Valve spring	AISI 316 / 1.4401 Electropolished
20	* Lower diaphragm	PTFE (Gylon)
21	* Upper diaphragm	EPDM
22	* Washer	AISI 304 / 1.4301
23	Spring plate	AISI 316 / 1.4401
24	Pusher disc	AISI 316L / 1.4404
25	Washer	AISI 304 / 1.4301
26	Nut	AISI 304 / 1.4301
27	Adjustment spring	AISI 302 / 1.4310
28	Spring plate	AISI 316 / 1.4401
29	Adjustment screw	Brass
30	Retaining washer	AISI 304 / 1.4301
31	Handwheel	Vinyl ; Stainless steel
32	O-ring	NBR
33	Bearing	Corrosion resistant steel
34	Ext. bowed shaft ring	Stainless steel
35	Nut cover	Vinyl
36	Spring cover	AISI 316L / 1.4404

