







SANITARY PILOT OPERATED PRESSURE REDUCING VALVE P147

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

Completely machined from 316L stainless steel bar stock, no castings or forgings are used.

FDA / USP Class VI compliant seals.

No rising stem.

STANDARD SURFACE FINISH

Internal wetted parts: ≤ 0,51 micron Ra – SF1.

External: ≤ 0,76 micron Ra – SF3.

Other surface conditions see IS PV20.00 E - Technical information.

Ultrasonic cleaning.

OPTIONS: Bottom cover with drain, for clean steam.

Different dimensions and materials.

USE: Clean air, nitrogen, carbon dioxide, oxygen,

argon and other gases or liquids compatible with

the construction.

Clean steam (under special request).

AVAILABLE

MODELS: P147.

SIZES: 21/2" to 3".

OUTLET 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 sealed with recyclable thermo-shrinkable plastic film, to

avoid contamination.

INSTALLATION: Horizontal installation.

ORDER

REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Inlet and outlet pressures.

Flow rate (maximum and minimum)





LIMITING CONDITIONS					
Valve model	P147				
Body design conditions	PN16				
Max. upstream pressure	16 bar				
Max. downstream pressure	8 bar				
Min. downstream pressure	0,2 bar				
Max. design temperature *	150 °C				

^{*} Others on request.

CE MARKING – GROUP 2 (PED – European Directive)		
PN16	Category	
21/2" to 3"	1 (CE marked)	







DIMENSIONS (mm) ASME BPE								
SIZE	Kvs	Α	В	С	D	F	Н	WGT. (kg)
21/2"	41	197	307	89	134	77,5	60,2	17,1
3"	46	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			
8	* Plain bearing	PTFE			
9	Piston	AISI 316L / 1.4404			
10	* O-ring	EPDM			
11	Positioning pipe	AISI 316L / 1.4404			
12	Gasket	PTFE			
13	Pilot valve body	AISI 316L / 1.4404			
14	Bolts	AISI 304 / 1.4301			
15	Seat	AISI 316L / 1.4404			
16	* O-ring	EPDM			
17	* Pilot valve seat	EPDM			
18	* 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			

^{*} Available spare parts ; ** Others according to fluid.

All valves have a serial number. In case of non-standard valves, this number must be supplied if spare parts are ordered.



