







## SANITARY PRESSURE REDUCING VALVE P160G

## **DESCRIPTION**

The ADCAPure P160G is a series of angle design direct acting diaphragm sensing pressure reducing valves.

These regulators are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials and valve design.

## MAIN FEATURES

FDA / USP Class VI compliant seals.

Completely machined from bar stock material, no castings or forgings are used.

## 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: Leakage line connection (1/4").

Different soft sealings for liquids and gases. Lock system, allows inline clean-in-place (CIP) and sterilization-in-place (SIP) operations.

Gauge connection on body. Lifting lugs to ease installation.

USE: Clean steam, compressed air, water and

other gases and liquids compatible with the

construction.

**AVAILABLE** 

MODELS: P160G.

SIZES: 21/2" and 3".

REGULATING

RANGES: 1 to 1,7 bar; 1,5 to 4 bar.

CONNECTIONS: ASME BPE clamp ferrules.

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. Vertical inlet and

horizontal outlet angle connection.

See IMI - Installation and maintenance

instructions.





LIMITING CONDITIONS							
Valve model	P160G						
Body design conditions	PN 16						
Maximum upstream pressure	8 bar						
Maximum downstream pressure	4 bar						
Minimum downstream pressure *	1 bar						
Maximum operating temperature **	180 °C						

- \* For tight shut off, with adjustment spring relaxed, ensure a minimum downstream pressure of 0,2 bar.
- \*\* With PTFE diaphragm and seals. Consult the manufacturer in case of other materials.

CE MARKING – GROUP 2 (PED – European Directive)					
PN 16	Category				
21/2" to 3"	1 (CE Marked)				







DIMENSIONS (mm) ASME BPE											
SIZE	Α	В	С	D	d1	d2	d3	Е	F	Н	WGT. (kg)
21/2"	144	78	410	245	25	15,75	1/4"	141	77,4	60,2	34,6
3"	144	84	417	245	25	15,75	1/4"	141	90.9	72,9	36,2

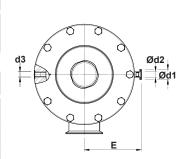
FLOW RATE COEFFICIENTS (m³/h)						
SIZE	21/2"	3"				
Kvs	19,8					

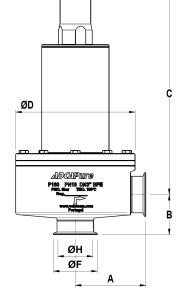
MATERIALS						
POS.	DESIGNATION	MATERIAL				
1	Valve body	AISI 316L / 1.4404				
2	Cover	AISI 316L / 1.4404				
3	Centering plate	AISI 316L / 1.4404				
4	* Valve stem	AISI 316L / 1.4404				
5	* Soft plug	** EPDM; PTFE; FPM				
6	* Valve plug	AISI 316L / 1.4404				
8	* Diaphragm	PTFE (Gylon)				
9	Diaphragm plate	AISI 316L / 1.4404				
10	* O-ring	EPDM				
11	* O-ring	EPDM				
12	* O-ring	EPDM				
11	Diaphragm plate	AISI 316L / 1.4404				
12	Stem guide	AISI 316 / 1.4401				
13	Spring plate	AISI 316 / 1.4401				
14	Nut	Stainless steel A2-70				
15	Washer	AISI 316 / 1.4401				
16	* Adjustment spring	Zinc plated spring steel				
17	Top spring plate	AISI 316 / 1.4401				
18	Bearing	Corrosion resistant steel				
19	Nut	Stainless steel A2-70				
20	Adjustment screw	AISI 304 / 1.4301				
21	Top cap	AISI 316L / 1.4404				
25	Bolts	Stainless steel A2-70				

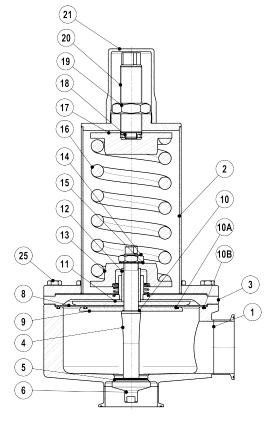
<sup>\*</sup> Available spare parts ; \*\* Others on request.

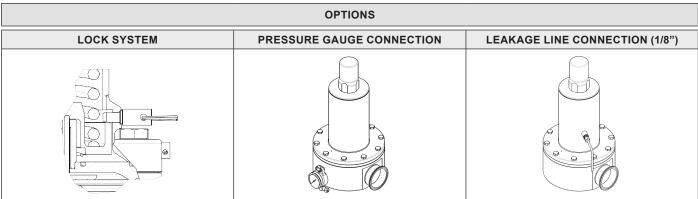
Remarks: FDA / USP Class VI seals certificate on request.

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













ORDERING CODE	S P160G											
Valve model	P16G	8	9	Т	М	Т	Х	Х	Х	DI	65	Е
P160G – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P16G											Г
Regulating range	'											
1 to 1,7 bar		8										
1,5 to 4 bar		9										
Flow rate coefficient												
Kvs 19,8			9									
Diaphragm												
PTFE (Gylon)				Т								
EPDM (non-standard)				Е								
Valve head												
Metal to metal (non-standard)					M							
EPDM					E							
PTFE					Т							
FPM / Viton (FDA approval only)					V							
Top cap and leakage line connection							-					
Top cap (adjustment screw with cover)						Т	-					
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection	n in case of o	diaphr	agm	failur	re	U						
Gauge port options												
Without gauge ports							Х					
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream p							6					
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pressure												
Tri-clamp gauge port on both sides – downstream pressure												
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – ISO 7 Rp 1/4"												
Threaded gauge port on the right side (rel. to the flow direction) – downstream	pressure – I	SO 7	Rp 1	/4″	-	-	3	-				
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"		4" 10					2	-				
Threaded gauge port on the left side (rel. to the flow direction) – downstream p							W	-				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – 1/4" NPT								-				
Threaded gauge port on both sides – Downstream pressure – 1/4" NPT												
Surface finish a)									-			
Standard surface finish									-			
Mirror mechanical polished external surfaces (SF1)								P E	-			
Electropolished internal wetted parts (SF5)  Special features									1			
None Special realures									X	-		
Degreased for oxygen								-	0	-		
CIP / SIP lock system									С	-		
Pipe connections												
Clamp ferrule ASME BPE										D		
Tube weld (ETO) according to ASME BPE										DI		
Size												
21/2"											65	
3"					-			-	-		80	
Special valves / Ex	ıtras											
Full description or additional codes have to be added in case of a non-standar		n										Е

a) Consult IS PV20.00 – Technical information – for further details and other surface finish options.