







SANITARY PRESSURE REDUCING VALVE P160G

DESCRIPTION

The ADCA P160G series direct acting, spring-loaded, diaphragm sensing pressure reducing valves are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials.

MAIN FEATURES

Compact design.

Completely machined from bar stock material, no castings or forgings are used on the standard version.

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 1/8" (captured vent).

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

in line.

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 - 1.7 bar; 1.5 - 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 design temperature **	150 °C				

^{*} For tight shut off, with adjustment spring relaxed, ensure a minimum 0,2 bar downstream pressure.

^{**} Others on request.

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



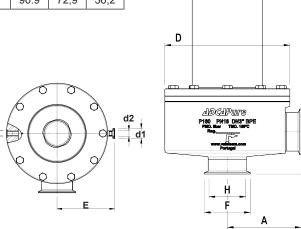


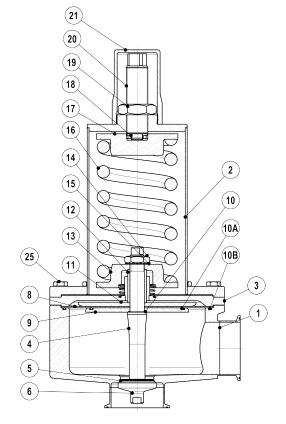


DIMENSIONS (mm) ASME BPE												
SIZE	Kvs (m³/h)	Α	В	С	D	d1	d2	d3	E	F	Н	WGT. (kg)
21/2"	19,6	144	78	410	245	25	15,75	1/4"	141	77,4	60,2	34,6
3"	19,6	144	84	417	245	25	15,75	1/4"	141	90.9	72,9	36,2

	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 **					
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					

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





	OPTIONS	
LOCK SYSTEM	PRESSURE GAUGE CONNECTION	LEAKAGE LINE CONNECTION





ORDERING CODE	ES 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											
Regulating range												
1 to 1,7 bar		8										
1,5 to 4 bar		9										
Flow rate coefficient												
Kvs 19,6			9									
Diaphragm												
PTFE (Gylon)				Т								
EPDM (non-standard)				E								
Valve head												
Metal to metal (non standard)					M							
EPDM					E							
PTFE					Т							
FPM / Viton					V							
Top cap and captured vent												
Top cap (adjustment screw with cover)			-			Т						
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection	on in case of	diaphr	agm	failur	e	U						
Gauge port options												
Without gauge ports							X					
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream	pressure						7					
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	-					-	4					
Threaded gauge port on the right side (rel. to the flow direction) – downstream	n pressure –	ISO 7	Rp 1	/4"			3					
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"												
Threaded gauge port on the left side (rel. to the flow direction) – downstream	-						W					
Threaded gauge port on the right side (rel. to the flow direction) – downstream	n pressure –	1/4" N	PT				Y					
Threaded gauge port on both sides – Downstream pressure – 1/4" NPT												
Surface finish (a)								X	-			
Standard surface finish									-			
Mirror mechanical polished external surfaces (SF1)									-			
Electropolished internal wetted parts (SF5)								Е	-			
Special features										_		
None									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 / E												<u> </u>
Full description or additional codes have to be added in case of a non-standar	rd combinatio	n										E

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