





SANITARY PRESSURE REDUCING VALVE P160 (21/2" - 3")

DESCRIPTION

The ADCA P160 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 barstock 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: P160.

SIZES: 21/2" and 3".

OUTLET SPRING

RANGES: 1 - 1.7 bar; 1.5 - 4 bar.

CONNECTIONS: ASME BPE.

Clamp ferrules 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. Inlet vertical and

horizontal outlet angle connection. See IMI.

ORDER

REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Inlet pressure and required outlet pressure.

Capacity (maximum and minimum).



PN16	Category
21/2" – 3"	1 (CE Marked)





LIMITING CONDITIONS							
Valve model	P160						
Body design conditions	PN16						
Max. upstream pressure	8 bar						
Max. downstream pressure	4 bar						
Min. downstream pressure *	1 bar						
Max. design temperature **	150 °C						

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

^{**} Others on request.





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

^{*} Optional;

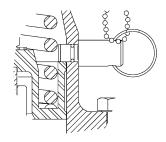
CAPACITIES								
Valve size	Valve size 21/2"							
Kvs	19,6	19,6						

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	Adjusting screw	AISI 304 / 1.4301					
21	Top cap	AISI 316L / 1.4404					
25	Bolts	A2					

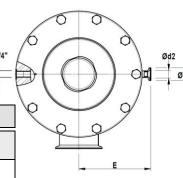
^{*} Available spare parts.; ** Others according to fluid.

FDA / USP Class VI seals certificate on request.

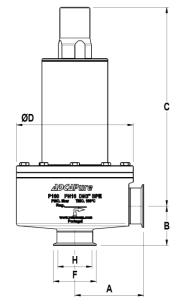
All valves have a serial number. In case of non-standard valves this number must be supplied if spare parts are ordered.

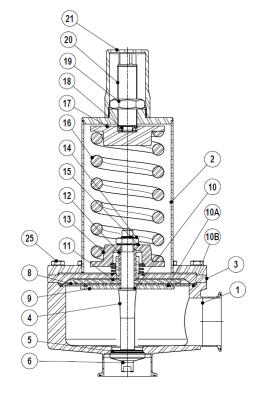


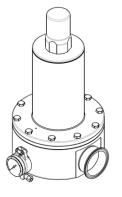
Special cover with lock system.



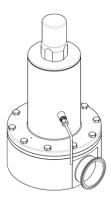
Optional pressure gauge connections







Optional gauge connection



Optional leakage line connection







ORDERING C	ODES I	P160										
Valve model	P16	Α	1	Т	М	ı	Х	Х	Х	D	20	Е
P160 – AISI 316L / 1.4404 Diaphragm sensing pressure reducing valve	P16											
3, 13, 13, 13, 13, 13, 13, 13, 13, 13, 1												
Outlet spring range	1											
1 to 1,7 bar		8										
1,5 to 4 bar		9										
,												
Flow capacity												
Kvs – 19,6 bar			9									
Diaphragm material												
PTFE (Gylon)				Т								
Valve head					<u> </u>	1						
Metal to metal (non standard)					M							
EPDM					Е							
PTFE					Т							
FPM / Viton					V							
Regulating knob, top cap and captured ve	nt					-						
Top cap (ajusting screw sealing)		- (-1'-		(-1)		T	-					
Top cap (adjusting screw sealing) w/ diaphragm cover leakage connection	in case	or ala	ıpnrag	m tali	ure	U						
Gauge port options												
Without gauge ports							Х	1				
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstrea	am pres	sure					7					
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstre							6					
Tri-clamp gauge port on both sides – downstream pressure							5					
Threaded gauge port on the left side (rel. to the flow direction) – downstrea	am pres	sure					4					
Threaded gauge port on the right side (rel. to the flow direction) – downstre	eam pre	ssure					3					
Threaded gauge port on both sides – downstream pressure 2												
Surface finish, special services and options												
None (fine machined)								Х				
Mechanical polishing								P				
Electropolishing E												
Special features									v			
Degreased for oxygen	None X Degreased for oxygen O											
								С				
Pipe connections												
Clamp ferrule ASME BPE D												
ETO according to ASME BPE										DI		
Size												
21/2"											65	
3"										80		
Special valves												
Full description or additional codes have to be added in case of a non stan	ndard co	mbina	ition									Е