







SANITARY PRESSURE REDUCING VALVE P160A (Air loaded)

DESCRIPTION

The ADCA P160A series direct acting, air 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.

Set point can be adjusted remotely using a relieving gas pressure regulator or through an I-P converter.

Ease operation during the sterilization or cleaning process (SIP – CIP), by remotely increasing the set point, ensures that the valve stays totally open during the process.

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: Different soft valves for liquids and gases.

Gauge connection on body.

USE: Clean steam, compressed air, water and other

gases and liquids compatible with the

construction.

AVAILABLE

MODELS: P160A.

SIZES: 3/4", 1", 11/2", 2".

OUTLET RANGE: 0,8 - 6 bar. The loading pressure must be

slightly above the outlet pressure (+/- 0,2 bar),

to overcome the diaphragm return spring.

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

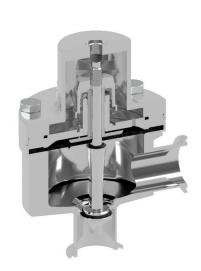
REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Inlet pressure and required outlet pressure.

Capacity (maximum and minimum).





LIMITING CONDITIONS	
Valve model	P160A
Body design conditions	PN16
Max. upstream pressure	8 bar
Max. downstream pressure	6 bar
Min. downstream pressure	0,8 bar
Max. design temperature *	150 °C

^{*} Others on request.

CE MARKING – GROUP 2 (PED – European Directive)						
PN16	Category					
3/4" to 2"	SEP					







	DIMENSIONS (mm) ASME BPE											
SIZE	Α	В	С	D	d1	d2 *	d3 *	d4 *	E*	F	Н	WGT. (kg)
3/4"	85	56	116	130	1/4"	25	15,75	1/4"	89	25	15,75	5,5
1"	85	55	117	130	1/4"	25	15,75	1/4"	89	50,5	22,1	5,5
11/2"	85	65	124	130	1/4"	25	15,75	1/4"	89	50,5	34,8	5,8
2"	85	70	130	130	1/4"	25	15,75	1/4"	89	64	47,5	6,4

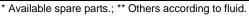
^{*} Optional.

Consult factory for certified dimensions.

Dimensions subject to change without notice.

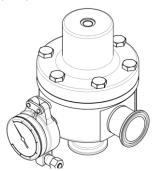
CAPACITIES								
Valve size	3/4"	1"	11/2"	2"				
Kvs	1,3	3,5	5,5	8,5				

	MATERIALS							
POS. Nº	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						
7	* Upper diaphragm	EPDM						
8	* Lower diaphragm	PTFE (Gylon)						
9	Diaphragm plate	AISI 316L / 1.4404						
10	* 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	Spring	AISI 302 / 1.4300						
17	O-ring	EPDM						
18	Bolts	Stainless steel A2-70						

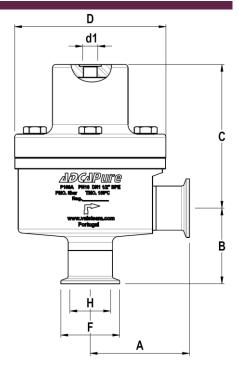


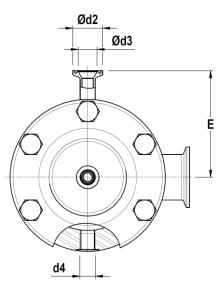
FDA / USP Class VI seals certificate on request.

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

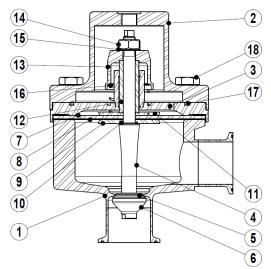


Optional pressure gauge connection





Optional pressure gauge connections





We reserve the right to change the design and material of this product without notice.





ORDERING CODES P1	60A												
Valve model	P16	Α	1	Т	М	1	Х	Х	Х	Х	D	20	ı
P160A – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P16												Ī
Outlet spring range													
0,8 to 6 bar (dome loaded)		Α											
Flow capacity													
Kvs – 1,3 (3/4")			1										
Kvs – 3,5 (1")			3										
Kvs – 5,5 (11/2" – 2")			4										
Kvs – 8,5 (2" limited to max. 4 bar inlet pressure.)			6										
Kvs – 19,6 bar (21/2" – 3")			9										
Diaphragm material													
PTFE (Gylon)				Т									
Valve head													
Metal to metal (non standard)					М	1							
EPDM					Е	1							l
PTFE					Т	1							
FPM / Viton					v								
Dome connection					<u> </u>								
Female threaded ISO 7/1 Rp 1/4"						1							
Female threaded 1/4" NPT						2							
Tomalo tirodoca 1/4 TV T						_	1						
Dome options													
Standard dome							Х						
I/P converter 0,2 to 8 bar output							Ĉ						
1/F converter 0,2 to 8 bar output							-						
Gauge part entions													
Gauge port options								Х	-				
Without gauge ports								7	-				
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pre								<u> </u>	-				
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pr	ressure							6	_				
Tri-clamp gauge port on both sides – downstream pressure		4 / 4 11			_			5	_				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pre								4	_				
Threaded gauge port on the right side (rel. to the flow direction) – downstream p	ressure -	- 1/4	" IS	J 7/	1 Rp)		3	-				
Threaded gauge port on both sides – downstream pressure – 1/4" ISO 7/1 Rp								2	-				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – 1/4" NPT								W	-				
Threaded gauge port on the right side (rel. to the flow direction) – Downstream pressure – 1/4" NPT								Υ					
Threaded gauge port on both sides – Downstream pressure – 1/4" NPT								Z					
Surface finish, special services and optio	ns												
None (fine machined)									X				
Mechanical polishing									Р				
Electropolishing									Е				
Special features													
None										X			
Degreased for oxygen										0			
Pipe connections													
Clamp ferrule ASME BPE											D		
ETO according to ASME BPE											DI		l
Size													
3/4"												20	1
1"												25	١
11/2"												40	1
2"												50	1
													1
Special valves / Extras	3												l
Full description or additional codes have to be added in asset of a non-standard													H