







SANITARY PRESSURE REDUCING VALVE P160A (Dome loaded)

DESCRIPTION

The ADCA P160A series direct acting, dome 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.



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" to 2"; DN 20 to DN 50.

OUTLET RANGE: 0,8 - 6 bar.

CONNECTIONS: 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. Vertical inlet and

horizontal outlet angle connection. See IMI -

Installation and maintenance instructions.

ORDER

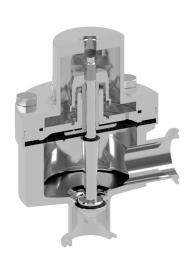
REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Inlet and outlet pressures.

Flow rate (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							

^{*} Other on request.

CE MARKING – GROUP 2 (PED – European Directive)						
PN16	Category					
3/4" to 2"; DN 20 to 50	SEP					







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

^{*} Optional.

Remarks: As standard, connections d1 and d4 are female threaded NPT.

	DIMENSIONS (mm) DIN												
SIZE	Kvs	Α	В	С	D	d1	d2 *	d3 *	d4 *	E*	F	н	WGT. (kg)
DN 20	1,3	89	62	116	130	1/4"	25	15,75	1/4"	89	34	20	5,5
DN 25	3,5	92	64	117	130	1/4"	25	15,75	1/4"	89	50,5	26	5,2
DN 40	5,5	92	75	124	130	1/4"	25	15,75	1/4"	89	50,5	38	5,4
DN 50	8,5	92	75	130	130	1/4"	25	15,75	1/4"	89	64	50	6,2

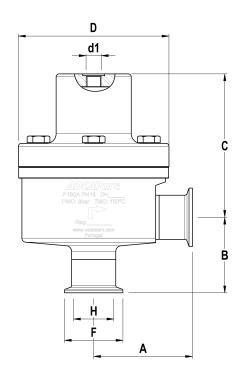
^{*} Optional.

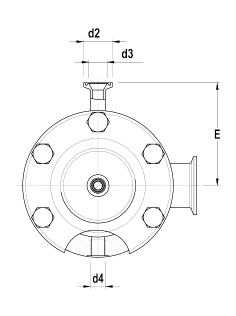
Remarks: As standard, connections d1 and d4 are female threaded ISO 7 Rp.

	DIMENSIONS (mm) ISO												
SIZE	Kvs	Α	В	С	D	d1	d2 *	d3 *	d4 *	E*	F	Н	WGT. (kg)
DN 20	1,3	81	49	116	130	1/4"	25	15,75	1/4"	89	50,5	23,7	5,4
DN 25	3,5	81	51	117	130	1/4"	25	15,75	1/4"	89	50,5	29,7	5,4
DN 40	5,5	92	80	124	130	1/4"	25	15,75	1/4"	89	64	44,3	5,9

^{*} Optional.

Remarks: As standard, connections d1 and d4 are female threaded ISO 7 Rp.







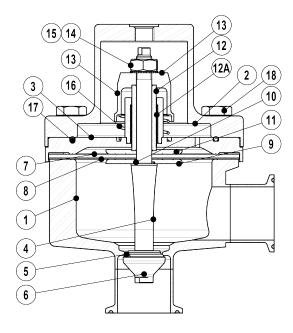


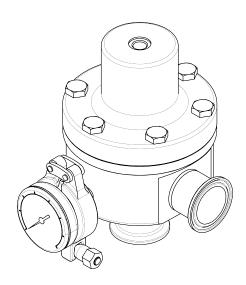
	MATERIALS									
POS.	DESIGNATION	MATERIAL								
1	Valve body	AISI 316L / 1.4404								
2	Cover	AISI 316L / 1.4404								
3	Centering plate	AISI 316L / 1.4404								
4	* Valve stem	AISI 316L / 1.4404								
5	* Soft plug	EPDM; PTFE **								
6	* Valve plug	AISI 316L / 1.4404								
7	* Upper 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								
12A	Plain bearing	Bronze								
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								

^{*} Available spare parts ; ** 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.





Optional pressure gauge connection





ORDERING CODES P160A													
Valve model	P16	Α	1	Т	М	1	Х	X	X	X	D	20	Е
60A – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P16												Т
Outlet spring range													
to 6 bar (dome loaded) a)		Α	1										
Flow capacity			ĺ										
- 1,3 (3/4")			1	1									
3 – 3,5 (1")			3	1									
= 5,5 (11/2" – 2")			4	1									
= 8,5 (2" limited to max. 4 bar inlet pressure.)			6	1									
Diaphragm material													
E (Gylon)				Т	1								
Valve head				<u> </u>	l								
al to metal (non standard)					м	1							
DM					E	1							
E					T	1							
√ / Viton					v	1							
Dome connection						1							
nale threaded ISO 7 Rp 1/4"						1	-						
nale threaded 1/4" NPT						2	-						
Dome options													
ndard dome							X	┨					
							c	-					
converter 0,2 to 8 bar output							C						
Gauge port options								\ <u>,</u>	-				
hout gauge ports								X	-				
clamp gauge port on the left side (rel. to the flow direction) – downstream pressure					-			7	-				
clamp gauge port on the right side (rel. to the flow direction) – downstream pressure								6	_				
clamp gauge port on both sides – downstream pressure								5	\dashv				
eaded gauge port on the left side (rel. to the flow direction) – downstream pressure –								4	-				
eaded gauge port on the right side (rel. to the flow direction) – downstream pressure –	- ISO <i>1</i>	Кр	1/4″					3	-				
eaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"	4 (411 5 1 =							2	_				
eaded gauge port on the left side (rel. to the flow direction) – downstream pressure –								W	-				
eaded gauge port on the right side (rel. to the flow direction) – downstream pressure -	- 1/4" N	IPT						Y	-				
eaded gauge port on both sides – downstream pressure – 1/4" NPT								Z					
Surface finish b)													
ndard surface finish									X	-			
or mechanical polished external surfaces (SF1)									P				
ctropolished internal wetted parts (SF5)									E				
Special features													
ne										X			
greased for oxygen										0	4		
Pipe connections												1	
mp ferrule ASME BPE											D	4	
mp ferrule DIN (DIN 32676-A)											F	4	
mp ferrule ISO (DIN 32676-B)											E	4	
D according to ASME BPE											D		
1 according to LUN 11866-A (LUN 11860-2)											FI	-	
D according to DIN 11866-A (DIN 11850-2)											E		
according to ISO 1127-1													-
D according to ISO 1127-1												20	1
D according to ISO 1127-1 Size or DN 20													7
D according to ISO 1127-1 Size or DN 20 or DN 25												25]
D according to ISO 1127-1 Size or DN 20 or DN 25 or DN 40												40	
D according to ISO 1127-1 Size or DN 20 or DN 25												_	

- a) The loading control pressure is approximately the same as the required downstream pressure (± 0,2 bar).
- b) Consult IS PV20.00 (Technical information) for further details and other surface finish options.

