



SANITARY PRESSURE REDUCING VALVE P130G

DESCRIPTION

The ADCA P130G series direct acting, spring-loaded diaphragm sensing, balanced plug, pressure reducing valves are designed for use with clean air, nitrogen, carbon dioxide, oxygen, argon and other gases or liquids compatible with the construction materials and valve design.

This valve is specifically designed for the high purity gas systems found in the pharmaceutical, cosmetic, fine chemical and food & beverage processes.

MAIN FEATURES

Compact design. Completely machined from 316L stainless steel bar stock, no castings or forgings are used. FDA / USP Class VI compliant seals. No rising stem.

STANDARD SURFACE FINISH Internal wetted parts: $\leq 0,51$ micron Ra – SF1. External: $\leq 0,76$ micron Ra – SF3. Other surface conditions see IS PV20.00 E – Technical information. Ultrasonic cleaning.

| OPTIONS: | Self relieving. Leakage line connection 1/8" (captured vent). Gauge connection on body. Different soft valves for liquids and gases. | | | | | | | |
|-------------------------|--|--|--|--|--|--|--|--|
| USE: | Clean air, nitrogen, carbon dioxide, oxygen, argon and other gases or liquids compatible with the construction. | | | | | | | |
| MODELS: | P130G. | | | | | | | |
| SIZES: OUTLET SPRING | 11/2"; DN 32 and DN 40. | | | | | | | |
| RANGES: | 0,2 – 1,5 bar; 0,3 – 3 bar; 2 – 8 bar. | | | | | | | |
| CONNECTIONS: | Clamp ends 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: ORDER | Horizontal installation recommended. | | | | | | | |
| REQUIREMENTS: | Type of fluid. Maximum operating temperature. Inlet pressure and required outlet pressure Capacity (maximum and minimum). | | | | | | | |

| CE MARKING (PED – European Directive) | | | | | | | |
|---------------------------------------|----------|--|--|--|--|--|--|
| PN16 | Category | | | | | | |
| 11/2" ; DN 32 ; DN 40 | SEP | | | | | | |





Cutaway view with pressure gauge connection

| LIMITING CONDITIONS | | | | | | | | |
|---------------------------|---------|--|--|--|--|--|--|--|
| Valve model | P130G | | | | | | | |
| Body design conditions | PN16 | | | | | | | |
| Max. upstream pressure | 16 bar | | | | | | | |
| Max. downstream pressure | 8 bar | | | | | | | |
| Min. downstream pressure | 0,2 bar | | | | | | | |
| Max. design temperature * | 150 ºC | | | | | | | |

* Other on request.

VALSTEAM ADCA

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





| CAPACITIES | | | | | | | | | | | |
|------------|-----|-------|-----|-----|----------|-----|-------|-----|-----|--|--|
| | | BPE | | | DIN | | | | | | |
| Valve size | | 11/2" | | D | N 32 and | 40 | DN 32 | | | | |
| Kvs * | 4,2 | 4,8 | 6,3 | 4,2 | 4,8 | 6,3 | 4,2 | 4,8 | 6,3 | | |

| DIMENSIONS (mm) ASME BPE | | | | | | | | | | | | |
|--------------------------|------|----|-----|-----|------|---------|------|-----------|---|----------------|--|--|
| SIZE | A ** | В | с | ØD | Ø d1 | Ø d2 ** | Е | F | н | WEIGHT (kg) | | |
| 11/2" | 148 | 48 | 140 | 100 | 25 | 15,75 | 78,5 | 50,5 34,8 | | 4,99 | | |

| | DIMENSIONS (mm) DIN | | | | | | | | | | | | |
|------------|---------------------|----|-----|-----|------|---------|------|------|----|----------------|--|--|--|
| SIZE DN | A ** | в | с | ØD | Ø d1 | Ø d2 ** | Е | F | н | WEIGHT (kg) | | | |
| 32 | 133 | 48 | 140 | 100 | 25 | 15,75 | 78,5 | 50,5 | 32 | 4,98 | | | |
| 40 | 133 | 48 | 140 | 100 | 25 | 15,75 | 78,5 | 50,5 | 38 | 4,94 | | | |

Clamp ferrules DIN 32676 Series A; Tube weld DIN 11866 Series A (DIN 11850 Series 2).

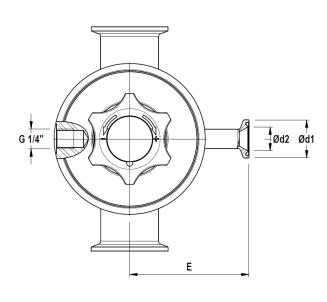
| DIMENSIONS (mm) ISO | | | | | | | | | | | |
|---------------------|------|----|--------------------|-----|----|-------|------|----------------|------|-----|--|
| SIZE DN | A ** | В | C Ø D Ø d1 Ø d2 ** | | Е | F | н | WEIGHT (kg) | | | |
| 32 | 133 | 48 | 140 | 100 | 25 | 15,75 | 78,5 | 64 | 42,4 | 5,1 | |

Clamp ferrules DIN 32676 Series B; Tube weld DIN 11866 Series B (ISO 1127 Series 1).

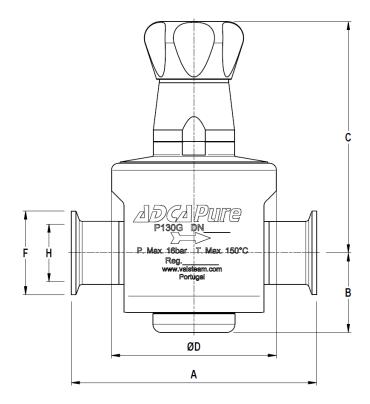
* Reduced Kvs on request.

** Special versions or non-standard sanitary clamp ferrules are available on request, both for the inlet/outlet and pressure gauge connection.

Valves with vinyl handwheel weights less 0,3 kg.



Pressure gauge connection. (Optional)



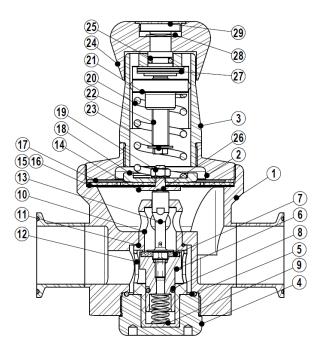


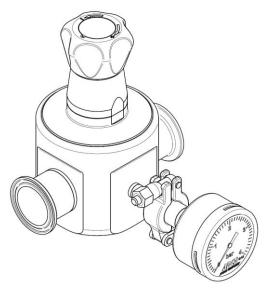


| MATERIALS | | | | | | | | | | |
|------------|-----------------------|-----------------------------------|--|--|--|--|--|--|--|--|
| POS. Nº | DESIGNATION | MATERIAL | | | | | | | | |
| 1 | Valve body | AISI 316L / 1.4404 | | | | | | | | |
| 2 | Cover | AISI 316L / 1.4404 | | | | | | | | |
| 3 | Spring cover | AISI 316L / 1.4404 | | | | | | | | |
| 4 | Seat cover | AISI 316L / 1.4404 | | | | | | | | |
| 5 | * O-ring | EPDM | | | | | | | | |
| 6 | * Piston | AISI 316L / 1.4404 | | | | | | | | |
| 7 | * Valve head | AISI 316L / 1.4404 ; Viton ; PTFE | | | | | | | | |
| 8 | * O-ring | EPDM | | | | | | | | |
| 9 | * Valve spring | AISI 316 / 1.4401 Electropolished | | | | | | | | |
| 10 | * Seat | AISI 316L / 1.4404 | | | | | | | | |
| 11 | * O-ring | EPDM | | | | | | | | |
| 12 | * Piston guide | PTFE | | | | | | | | |
| 13 | * Stem | AISI 316L / 1.4404 | | | | | | | | |
| 14 | Pusher disc | AISI 316L / 1.4404 | | | | | | | | |
| 15 | * Lower diaphragm | PTFE (Gylon) | | | | | | | | |
| 16 | * Upper diaphragm | EPDM | | | | | | | | |
| 17 | Washer | AISI 304 / 1.4301 | | | | | | | | |
| 18 | Spring plate | AISI 304 / 1.4301 | | | | | | | | |
| 19 | Nut | Stainless steel A2-70 | | | | | | | | |
| 20 | * Adjustment spring | AISI 302 / 1.4300 | | | | | | | | |
| 21 | Spring plate | AISI 304 / 1.4301 | | | | | | | | |
| 22 | Adjustment screw | Brass | | | | | | | | |
| 23 | Retaining washer | Stainless steel A2-70 | | | | | | | | |
| 24 | Handwheel | AISI 316L / 1.4404 | | | | | | | | |
| 24 | Tandwileei | Vinyl | | | | | | | | |
| 25 | O-ring | NBR | | | | | | | | |
| 26 | ** O-ring | EPDM | | | | | | | | |
| 27 | Bearing | Corrosion resistant steel | | | | | | | | |
| 28 | Ext. bowed shaft ring | Stainless steel | | | | | | | | |
| 29 | Cover nut | Plastic | | | | | | | | |

* 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.





Pressure gauge connection. (Optional)



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| | 11300 | | | | | | | | | | | | |
|---|----------|-------|------|-------|----|---|---|----------|---|---|---|----|---|
| Valve model | P3G | 1 | 3 | Т | Μ | Χ | Ι | Х | Х | Χ | D | 32 | Ε |
| P130G – AISI 316L / 1.4404 diaphragm sensing regulator | P3G | | | | | | | | | | | | |
| Outlet spring range | | | | | | | | | | | | | |
| 0,2 to 1,5 bar | | | | | | | | | | | | | |
| 0,3 to 3 bar | | | | | | | | | | | | | |
| 2 to 8 bar | | | | | | | | | | | | | |
| Flow capacity | | | | | | | | | | | | | |
| Kvs – 4,2 | | | 2 | | | | | | | | | | |
| Kvs – 4,8 | | | 3 | | | | | | | | | | |
| Kvs – 6,3 | | | 5 | | | | | | | | | | |
| Diaphragm material | | | | | | | | | | | | | |
| PTFE (Gylon) | | | | Т | | | | | | | | | |
| Valve head | | | | | | | | | | | | | |
| Metal to metal (non-standard) | | | | | Μ | | | | | | | | |
| EPDM | | | | | Ε | | | | | | | | |
| PTFE | | | | | Т | | | | | | | | |
| FPM / Viton | | | | | ۷ | | | | | | | | |
| Relieving | | | | | | | | | | | | | |
| Non-relieving | | | | | | Х | | | | | | | |
| Relieving (only for non-dangerous gases) | | | | | | R | | | | | | | |
| Relieving with captured vent | | | | | | L | | | | | | | |
| Regulating knob and top cap | | | | | | | | | | | | | |
| Stainless steel | | | | | | | - | | | | | | |
| Plastic | | | | | | | Ρ | | | | | | |
| Top cap (adjusting screw sealing) | | | | | | | Т | 1 | | | | | |
| Gauge port options | | | | | | | | | | | | | |
| Without gauge ports | | | | | | | | Х | | | | | |
| Tri-clamp gauge port on the left side (rel. to the flow direction) - Down | stream | pres | sure | Э | | | | 7 | | | | | |
| Tri-clamp gauge port on the right side (rel. to the flow direction) - Dow | /nstrean | n pre | essu | re | | | | 6 | | | | | |
| Tri-clamp gauge port on both sides – Downstream pressure | | | | | | | | 5 | | | | | |
| Threaded gauge port on the left side (rel. to the flow direction) - Dowr | nstream | pres | sur | е | | | | 4 | | | | | |
| Threaded gauge port on the right side (rel. to the flow direction) - Dow | vnstrear | n pre | อรรเ | ire | | | | 3 | | | | | |
| Threaded gauge port on both sides – Downstream pressure | | | | | | | | 2 | | | | | |
| Surface finish, special services and op | ptions | | | | | | | <u>.</u> | | | | | |
| None (fine machined) | | | | | | | | | х | | | | |
| Mechanical polishing | | | | | | | | | Р | | | | |
| Electropolishing | | | | | | | | | Е | | | | |
| Special features | | | | | | | | | | | | | |
| None | | | | | | | | | | Χ | | | |
| Degreased for oxygen | | | | | | | | | | 0 | | | |
| Pipe connection | | | | | | | | | | | | | |
| Clamp ferrule ASME BPE | | | | | | | | | | | D | | |
| Clamp ferrule DIN (DIN 32676-A) | | | | | | | | | | | F | | |
| Clamp ferrule ISO (DIN 32676-B) | | | | | | | | | | | Е | | |
| ETO according to ASME BPE | | | | | DI | | | | | | | | |
| ETO according to DIN 11966-A (DIN 11850-2) | | | | | | | | | | | | | |
| ETO according to ISO 1127-1 | | | | | | | | | | | | | |
| Size | | | | | | | | | | | | | |
| DN 32 | | | | | | | | | | | | 32 | |
| 11/2" or DN 40 | | | | | | | | | | | | 40 | |
| Special valves / Ext | ras | | | | | | | | | | | - | |
| Full description or additional codes have to be added in case of non-s | | com | bina | atior | 1 | | | | | | | | Е |