

PILOT OPERATED PRESSURE REDUCING VALVES PRV47 (Steel) PRV47I (St.Steel)

DESCRIPTION

The ADCA PRV47 pilot operated pressure reducing valves are designed for use on steam, compressed air, nitrogen and other gases compatible with the construction and they can be installed on pressure reducing stations throughout all industries.

Connections are flanged or threaded.

MAIN FEATURES

Robust totally steel or stainless steel construction.

Suitable for dead end conditions.

Guided piston and valve stem

Hardened plug

- OPTIONS:**
- Soft faced valve plug for gases and steam
 - Special pressure top for low pressures
 - Drain connection in bottom cover
 - Stellited plug and seat
- USE:**
- Saturated steam, compressed air and other gases (Group 2) compatible with the construction (except oxygen).

- AVAILABLE MODELS:**
- PRV47 - standard model for steam
 - PRV47G -compressed air and gases

- VALVE SIZES:** DN15 to DN50
- CONNECTIONS:** Flanged DIN or ANSI
Threaded BSP, NPT, SW.

- INSTALLATION:** Horizontal installation.
An "Y" strainer, steam separator and steam trap should be provided upstream the valve.
See IMI, installation and maintenance instructions.

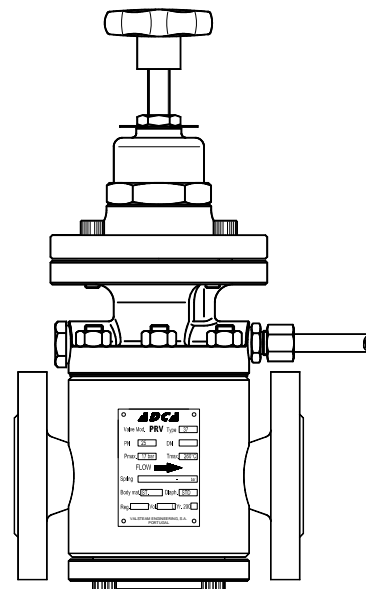
ORDER

- REQUIREMENTS:** Type of fluid
Maximum operating temperature
Inlet and outlet pressure
Flow rate (maximum and minimum)

HOW TO SELECT: Never size the valve according to the pipe diameter in which it has to be fitted but according to the required actual flow of fluid.

Refer to valve calculation table or consult the factory.

| CE MARKING (PED - European Directive 97/23/EC) | |
|--|--------------------------|
| PN 40 | Category |
| DN15 to DN32 | SEP - art. 3, paragraph3 |
| DN40 to DN50 | 1 (CE Marked) |



- VALVE LIMITING CONDITIONS:**
- Body design conditions: PN40
 - 40 bar at 120°C
 - 32 bar at 239°C
 - 28 bar at 300°C
 - Min.working temperature: -10°C
 - Maximum upstream pressure (steam) : 25 bar
 - Maximum upstream pressure (air) : 31 bar
 - Maximum downstream pressure: 17 bar
 - Minimum downstream pressure : 0,35 bar*
 - * 0,07 bar with low pressure top (limited at 7 bar inlet).
- Pressure and temperature may change if soft seating or piston rings are used.

USEFUL NOTES ON VALVE AND PIPE SIZING

A special low pressure top assembly should be fitted for outlet pressures from 0,07 up to 0,5 bar (Fig.2).
Two regulators in parallel should be used on larger systems where minimum flow is less than 10% of maximum. If the flow is unknown it is possible to estimate it based on pipe sizing or equipment heat requirement - please consult.

The balance pipe connection is recommend to enter downstream pipe at a minimum of 1 meter from valve.
A spool piece can be supplied to house the balancing pipe.

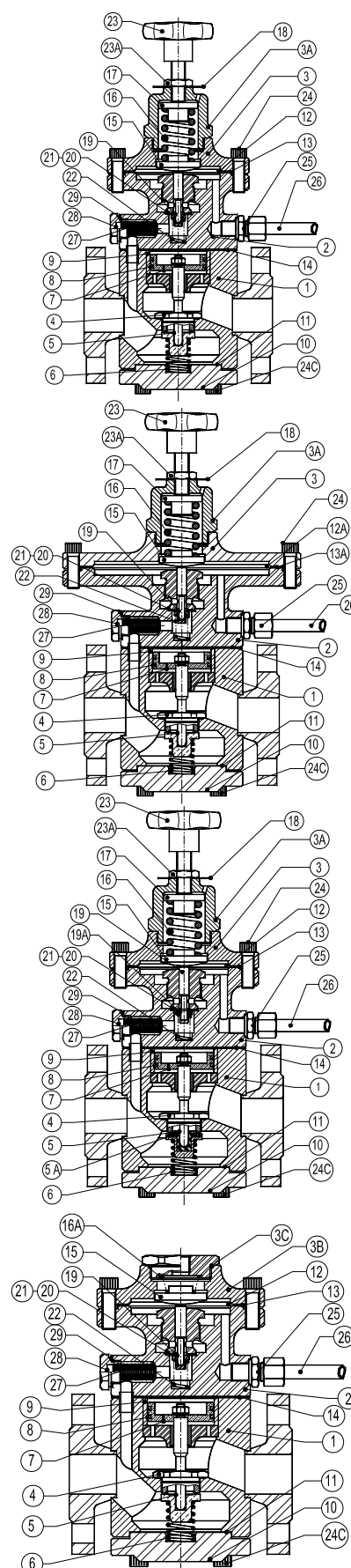
INSTALLATION

Installation instructions are available (IMI-PRV47) and typical assembling drawing. Special assembling design may be produced on request.

MATERIALS - PRV47 Steel construction

| POS. | DESIGNATION | MATERIAL |
|------|----------------------------|----------------------------------|
| 1 | VALVE BODY | ST 52.3(1.0570) / C22.8 (1.0460) |
| 2 | PILOT VALVE BODY | ST.STEEL (1.4308) |
| 3 | TOP COVER | CK45 (1.1191) |
| 3A | COVER NUT | CK45 (1.1191) |
| 3B | TOP COVER | CK45 (1.1191) |
| 3C | COVER NUT | CK45 (1.1191) |
| 4 | *MAIN VALVE SEAT | ST.STEEL |
| 5 | *MAIN VALVE | HARDENED ST.STEEL |
| 5A | *MAIN VALVE (SOFT) | SS316 W/ PTFE/GR; RULON,... |
| 6 | *MAIN VALVE SPRING | ST.ST. AISI 302 |
| 7 | *PISTON | BRASS/BRONZE |
| 8 | *PISTON RINGS | BRONZE / FKM / EPDM / NBR |
| 9 | PISTON LINER | ST.STEEL |
| 10 | BOTTOM COVER | ST 52.3 (1.0570) |
| 11 | *BOTTOM COVER GASKET | ST.ST/GRAPHITE |
| 12 | *DIA PHRAGM | ST.STEEL |
| 12A | *LOW PRESSURE DIA PHRAGM | ST.STEEL |
| 13 | *DIA PHRAGM GASKET | ST.STEEL/GRAPHITE |
| 13A | *DIA PHRAGM GASKET | ST.STEEL/GRAPHITE |
| 14 | *PILOT VALVE GASKET | ST.STEEL/GRAPHITE |
| 15 | LOWER SPRING CARRIER | BRASS |
| 16 | *ADJUSTMENT SPRING | STEEL |
| 16A | DIA PHRAGM SPRING | STAINLESS STEEL |
| 17 | TOP SPRING CARRIER | BRASS |
| 18 | SPRING IDENT. PLATE | ALUMINIUM |
| 19 | *PILOT VALVE | ST.STEEL |
| 19A | *PILOT VALVE (SOFT) | PTFE/GR; RULON, ETC |
| 20 | *PILOT VALVE SEAT | ST.STEEL |
| 21 | *PILOT VALVE GASKET | COPPER |
| 22 | *PILOT VALVE SPRING | ST.STEEL |
| 23 | HANDWHEEL | PLASTIC/ST.STEEL |
| 23A | LOCKNUT | ST.STEEL |
| 24 | BOLTS | STEEL 10.9 |
| 24C | BOLTS | STEEL 10.9 |
| 25 | COMPRESSION FITTING | PLATED CARBON STEEL |
| 26 | BALANCE PIPE | COPPER |
| 27 | *PILOT VALVE STRAINER | ST.STEEL |
| 28 | STRAINER NUT | ST.STEEL (1.4301) |
| 29 | GASKET | COPPER |
| 100 | | ADCA P-10 |
| 102 | ** STEAM TRAP | ADCA TH-21 |
| 103 | ** GLOBE VALVE | ADCA GV 32B |
| 104 | ** DRAIN CONNECTION NIPPLE | STEEL DN1/2" x 3/8" |
| 105 | SOLENOID VALVE | BRASS |
| 106 | SUSTAINING VALVE | ADCA PS15 |
| 107 | STRAINER | ADCA IS100I-ST.STEEL |

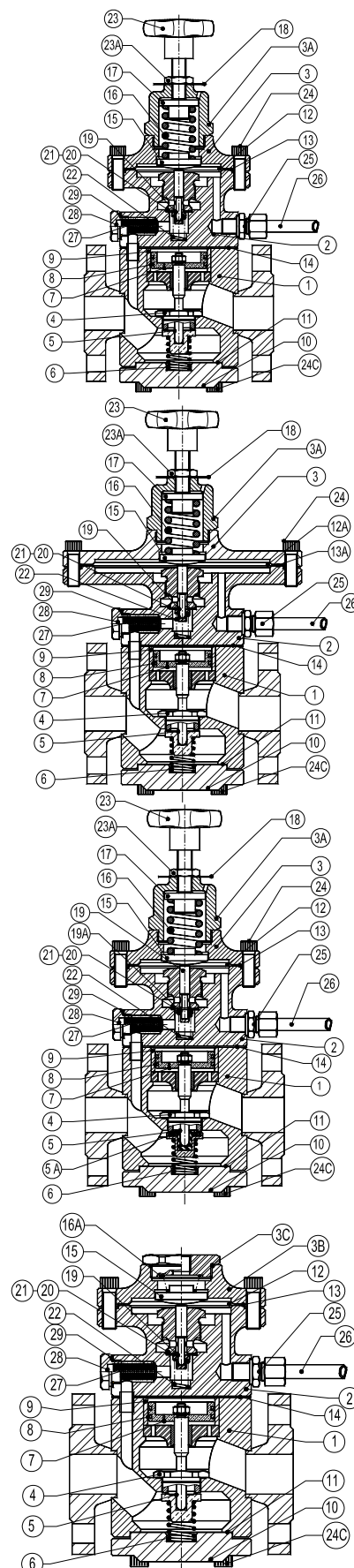
* Available spare parts; **Not included, supplied loosed on request



MATERIALS - PRV47I Stainless steel construction

| POS. | DESIGNATION | MATERIAL |
|------|-----------------------------------|-------------------------------|
| 1 | VALVE BODY | ST.STEEL (1.4401) |
| 2 | PILOT VALVE BODY | ST.STEEL (1.4308) |
| 3 | TOP COVER | ST.STEEL (1.4401) |
| 3A | COVER NUT | ST.STEEL (1.4401) |
| 3B | TOP COVER | ST.STEEL (1.4401) |
| 3C | COVER NUT | ST.STEEL (1.4401) |
| 4 | *MAIN VALVE SEAT | ST.STEEL |
| 5 | *MAIN VALVE | HARDENED ST.STEEL |
| 5A | *MAIN VALVE (SOFT) | SS317 W/ PTFE/GR / RULON,... |
| 6 | *MAIN VALVE SPRING | ST.ST. AISI 302 |
| 7 | *PISTON | STAINLESS STEEL |
| 8 | *PISTON RINGS | BRONZE / FKM/ EPDM / NBR |
| 9 | PISTON LINER | ST.STEEL (1.4401) |
| 10 | *BOTTOM COVER | ST.STEEL (1.4401) |
| 11 | *BOTTOM COVER GASKET | ST.ST/GRAPHITE / PTFE |
| 12 | *DIAPHRAGM | ST.STEEL |
| 12A | *LOW PRESSURE DIAPHRAGM | ST.STEEL |
| 13 | *DIAPHRAGM GASKET | ST.STEEL/GRAPHITE |
| 13A | *DIAPHRAGM GASKET | ST.STEEL/GRAPHITE |
| 14 | *PILOT VALVE GASKET | ST.STEEL/GRAPHITE |
| 15 | LOWER SPRING CARRIER | BRASS / ST.STEEL |
| 16 | *ADJUSTMENT SPRING | STEEL / ST.STEEL |
| 16A | DIAPHRAGM SPRING | STAINLESS STEEL |
| 17 | TOP SPRING CARRIER | BRASS |
| 18 | SPRING IDENT. PLATE | ALUMINIUM / ST.STEEL |
| 19 | *PILOT VALVE | ST.STEEL |
| 19A | *PILOT VALVE (SOFT) | PTFE/GR; RULON, ETC |
| 20 | *PILOT VALVE SEAT | ST.STEEL |
| 21 | *PILOT VALVE GASKET | COPPER / PTFE |
| 22 | *PILOT VALVE SPRING | ST.STEEL |
| 23 | HANDWHEEL | PLASTIC/ST.STEEL |
| 23A | LOCKNUT | ST.STEEL |
| 24 | BOLTS | ST.STEEL A-4 |
| 24C | BOLTS | ST.STEEL A-4 |
| 25 | COMPRESSION FITTING | STAINLESS STEEL |
| 26 | BALANCE PIPE | STAINLESS STEEL |
| 27 | *PILOT VALVE STRAINER | ST.STEEL |
| 28 | STRAINER NUT | ST.STEEL (1.4301) |
| 29 | GASKET | COPPER / PTFE |
| 100 | ** PRESSURE REGULATOR (Relieving) | ADCA P-10 |
| 102 | ** STEAM TRAP | ADCA TH-21 |
| 103 | ** GLOBE VALVE | ADCA GV32B |
| 104 | ** DRAIN CONNECTION NIPPLE | STAINLESS STEEL DN1/2" x 3/8" |
| 105 | SOLENOID VALVE | STAINLESS STEEL |
| 106 | SUSTAINING VALVE | ADCA PS15 - ST.STEEL |
| 107 | STRAINER | ADCA IS100I -ST.STEEL |

*Available spare parts; **Not included, supplied lost on request.



| PRESSURE RANGES IN bar | | |
|------------------------|------------------------|-------------------------|
| SPRING COLOUR | GREEN W/1 Diaphragm | BLACK W/2 Diaphragms |
| Red. Pressure | 0,07 to 0,5 bar * | 2 to 17 bar ** |
| Red. Pressure | 0,35 to 4 bar ** | / |

* With low pressure top; **Standard diaphragm.

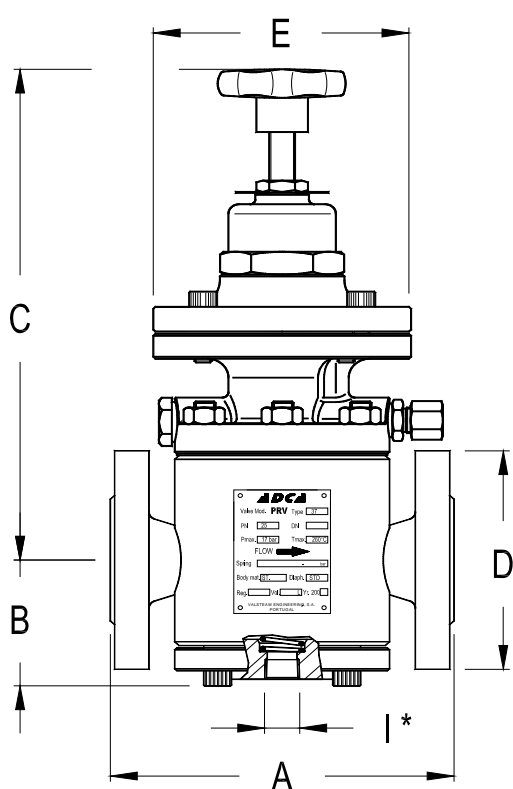
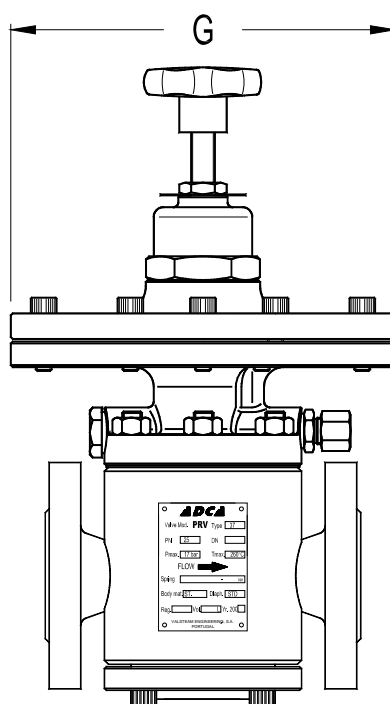
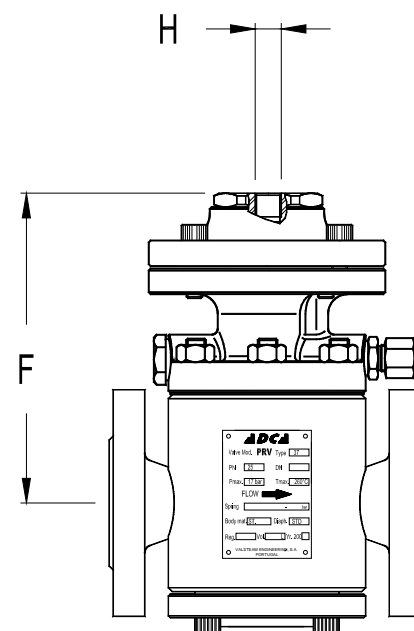

Fig.1

Fig.2

Fig.3

Fig.1 - Valve with standard diaphragm; Fig.2 - Valve with low pressure top; Fig.3 - Valve with compressed air top.

*** Drain connection (option) for steam trapping . This drain connection do not replace the separator but can be useful if for example the valve stop operation for large periods.**

| DIMENSIONS - VALVE BODY (mm) | | | | | | | | | | |
|------------------------------|---------------------|----|-----|-----|-----|-----|-----|------|------|---------------|
| DN | A DIN Flanges | B | C | D | E | F | G | H | I | WEIGHT Kgs |
| 15 | 150 | 56 | 275 | 95 | 120 | 162 | 195 | 1/4" | 3/8" | 13 |
| 20 | 150 | 56 | 287 | 105 | 120 | 174 | 195 | 1/4" | 3/8" | 13,5 |
| 25 | 160 | 56 | 287 | 115 | 120 | 174 | 195 | 1/4" | 3/8" | 14 |
| 32 | 180 | 68 | 299 | 140 | 120 | 186 | 195 | 1/4" | 3/8" | 18 |
| 40 | 200 | 75 | 307 | 150 | 130 | 194 | 195 | 1/4" | 3/8" | 22 |
| 50 | 230 | 84 | 323 | 165 | 160 | 210 | 195 | 1/4" | 3/8" | 31 |

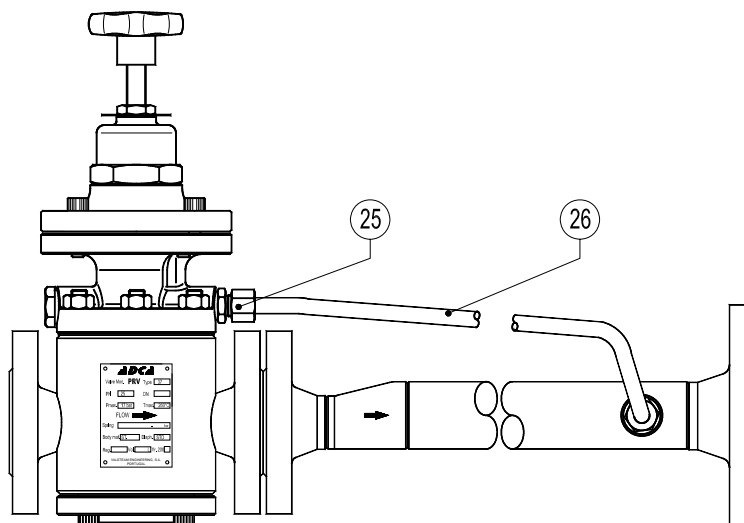


Fig.4

PRV 47 Standard for steam, compressed air or gases (Fig.4)

Description of operation: the high pressure upstream fluid is admitted to the valve and pilot valve. By compressing the regulating spring over the diaphragm, the pilot valve opens admitting regulated pressure on the top of the piston, which opens the main valve allowing the flow. The downstream pressure is then transmitted through the balance pipe, acting on the underside of the diaphragm.

Any downstream pressure increase deflects the diaphragm and the pilot valve closes, thus shutting off regulated gas to the piston which in turn closes the main valve assisted by the upstream pressure and loading spring. When the correct downstream pressure is achieved, the valve opens again, repeating the already described operation.

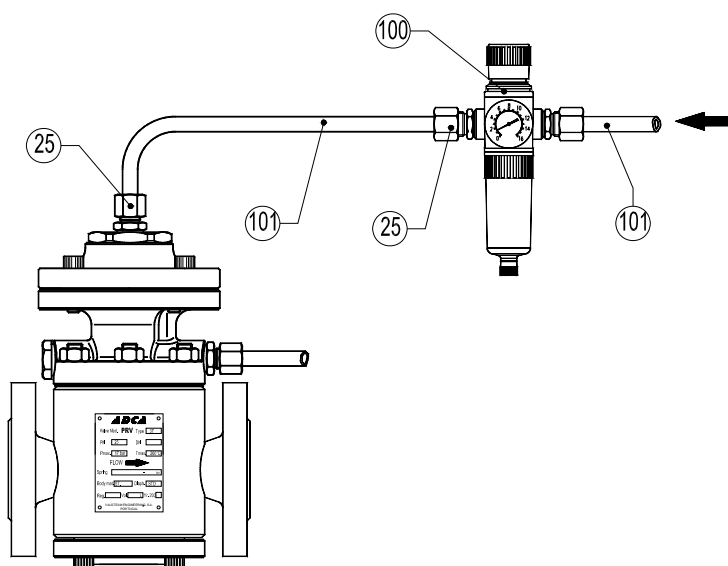


Fig.5

PRV47 valve with compressed air top for remote control (Fig.5)

The regulating spring force is placed by a compressed air signal.

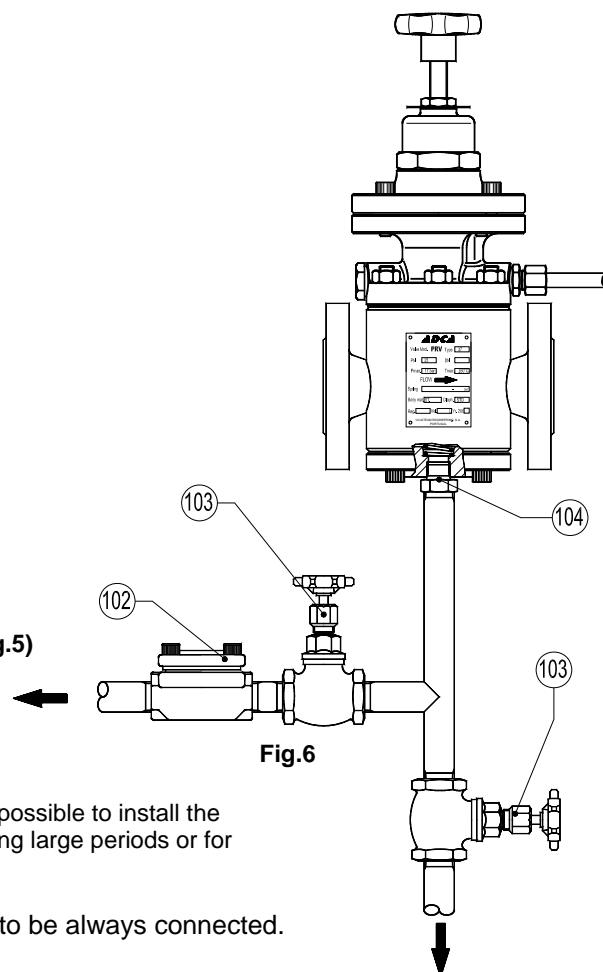


Fig.6

PRV47 with drain connection (Fig.6)

The optional drain connection is specially recommended when it is not possible to install the humidity separator close to the valve, when the valve is on no-flow during large periods or for system cleaning during start up.

Important: the balance pipe nr.26 (supplied with the valve) has to be always connected.

PRV47E with solenoid valve for electric remote control (Fig.7)

This valve version operates like the standard valve but it allows a remote control closure by means of a switching or timer control. When closing the solenoid valve, the pressure signal to the pilot valve is interrupted and thus also the main valve remains closed.

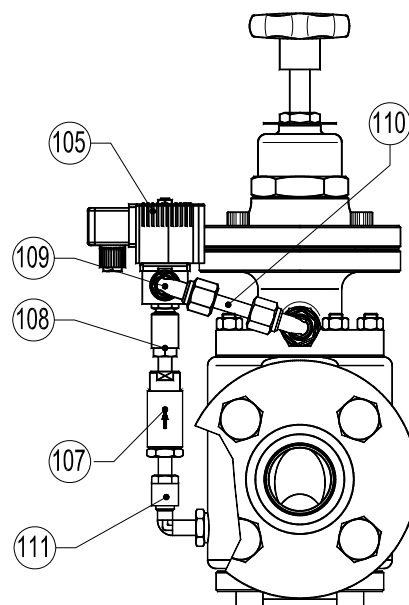


Fig.7

PRS47 pressure reducing and sustaining valve (Fig.8)

This version is a combination of pressure reducing valve and pressure sustaining valve. Compressing the spring of the PS15 (nr.106) pressure sustaining valve the same is closed until a desired set pressure, interrupting the signal to the PRV47 pilot valve and consequently it will remain closed. Since the pressure supply to the PS15 valve reaches the desired set pressure it will allow the flow and fluid signal to the PRV47 pilot valve, it will then work as already described.

PS47 pressure sustaining valve (available on request)

The pressure sustaining valves are particularly recommended in those systems where a limited flow rate is available and it is necessary to guarantee the supply to some critical process applications. Installing this valve in the supply of non-critical application limited to the minimum required pressure, they will close in case of excess of consumption and consequent pressure drop in the system, keeping the remaining flow available for the critical application. In general this valve maintains the upstream pressure under control.

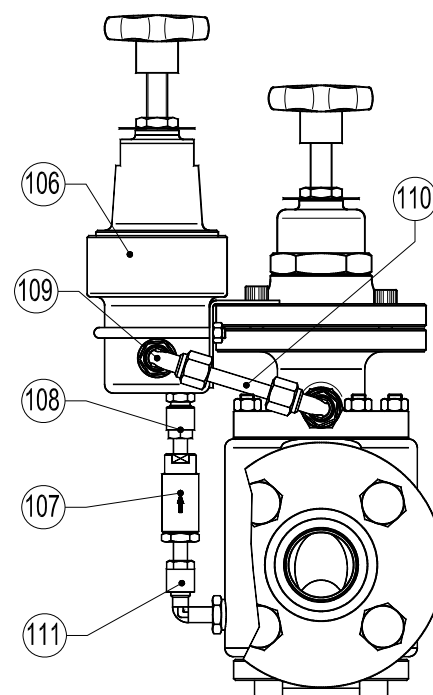


Fig.8



STEAM EQUIPMENT

| PRV 47 - STEAM CAPACITY TABLE (Kg/h) | | | | | | | | PRV 47 - COMP. AIR CAPACITY TABLE (Nm ³ /h-0°C-1,013bar) | | | | | | | |
|--|---------------|-----------------|------|------|------|------|------|---|---------------|----------------|------|------|------|------|-------|
| INLET bar | OUTLET bar | SATURATED STEAM | | | | | | INLET bar | OUTLET bar | COMPRESSED AIR | | | | | |
| | | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 | | | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 |
| 0,7 | 0,35 | 40 | 75 | 125 | 190 | 280 | 480 | 0,7 | 0,35 | 15 | 31 | 50 | 70 | 111 | 191 |
| 1 | 0,4 | 45 | 95 | 160 | 240 | 355 | 620 | 1 | 0,4 | 16 | 33 | 51 | 79 | 113 | 194 |
| | 0,6 | 40 | 83 | 140 | 210 | 308 | 535 | | 0,6 | 27 | 55 | 90 | 138 | 199 | 343 |
| 2 | 0,4 ÷ 1 | 75 | 150 | 250 | 380 | 545 | 960 | 2 | 0,4 ÷ 1 | 60 | 122 | 201 | 307 | 444 | 763 |
| | 1,2 | 65 | 138 | 230 | 345 | 515 | 900 | | 1,2 | 54 | 109 | 180 | 276 | 399 | 686 |
| 3 | 1,6 | 50 | 105 | 175 | 265 | 393 | 685 | 3 | 1,6 | 45 | 91 | 150 | 230 | 333 | 572 |
| | 0,4 ÷ 1,5 | 100 | 200 | 335 | 510 | 750 | 1310 | | 0,4 ÷ 1,5 | 120 | 240 | 300 | 460 | 666 | 1150 |
| 4 | 2 | 85 | 170 | 290 | 450 | 660 | 1155 | 4 | 2 | 105 | 210 | 251 | 384 | 555 | 1050 |
| | 2,2 | 80 | 165 | 277 | 416 | 613 | 1050 | | 2,2 | 48 | 93 | 152 | 232 | 334 | 570 |
| 5 | 2,6 | 60 | 127 | 203 | 315 | 467 | 818 | 5 | 2,6 | 45 | 61 | 101 | 154 | 223 | 384 |
| | 0,4 ÷ 2 | 125 | 250 | 420 | 630 | 920 | 1580 | | 0,4 ÷ 2 | 150 | 238 | 499 | 739 | 1089 | 1825 |
| 6 | 2,5 | 114 | 225 | 385 | 580 | 850 | 1465 | 6 | 2,5 | 135 | 208 | 449 | 568 | 978 | 1635 |
| | 3,2 | 92 | 183 | 309 | 482 | 708 | 1205 | | 3,2 | 119 | 177 | 398 | 492 | 867 | 1444 |
| 7 | 3,6 | 68 | 137 | 237 | 353 | 536 | 932 | 7 | 3,6 | 60 | 124 | 202 | 154 | 444 | 763 |
| | 0,4 ÷ 2 | 150 | 310 | 512 | 755 | 1114 | 1895 | | 0,4 ÷ 2 | 180 | 360 | 505 | 768 | 1110 | 1908 |
| 8 | 3 | 144 | 295 | 488 | 743 | 1095 | 1835 | 8 | 3 | 165 | 330 | 556 | 691 | 997 | 1716 |
| | 4 | 115 | 225 | 373 | 578 | 846 | 1430 | | 4 | 151 | 298 | 404 | 613 | 885 | 1526 |
| 9 | 4,2 | 105 | 213 | 343 | 525 | 770 | 1342 | 9 | 4,2 | 136 | 285 | 383 | 582 | 840 | 1449 |
| | 0,4 ÷ 3 | 175 | 355 | 602 | 919 | 1358 | 2298 | | 0,4 ÷ 3 | 210 | 468 | 696 | 1046 | 1523 | 2580 |
| 10 | 4 | 159 | 314 | 538 | 827 | 1217 | 2142 | 10 | 4 | 195 | 437 | 646 | 969 | 1412 | 2389 |
| | 5 | 119 | 250 | 411 | 637 | 941 | 1644 | | 5 | 150 | 345 | 494 | 738 | 1079 | 1817 |
| 11 | 5,2 | 109 | 217 | 360 | 568 | 839 | 1465 | 11 | 5,2 | 135 | 315 | 443 | 664 | 968 | 1627 |
| | 0,4 ÷ 3,5 | 197 | 410 | 670 | 1005 | 1540 | 2644 | | 0,4 ÷ 3,5 | 240 | 480 | 804 | 1200 | 1740 | 2989 |
| 12 | 5 | 178 | 358 | 587 | 908 | 1345 | 2306 | 12 | 5 | 210 | 421 | 701 | 1046 | 1524 | 2640 |
| | 6 | 132 | 271 | 452 | 688 | 1027 | 1773 | | 6 | 150 | 301 | 499 | 756 | 1104 | 1829 |
| 13 | 6,2 | 122 | 251 | 416 | 635 | 934 | 1618 | 13 | 6,2 | 105 | 211 | 349 | 529 | 773 | 1280 |
| | 0,4 ÷ 4 | 225 | 471 | 778 | 1169 | 1759 | 3043 | | 0,4 ÷ 4 | 270 | 546 | 798 | 1353 | 1746 | 3411 |
| 14 | 5 | 221 | 339 | 730 | 1118 | 1659 | 2884 | 14 | 5 | 265 | 516 | 747 | 1276 | 1635 | 3220 |
| | 6 | 192 | 385 | 639 | 976 | 1451 | 2513 | | 6 | 225 | 449 | 710 | 1125 | 1635 | 2762 |
| 15 | 7 | 146 | 293 | 481 | 732 | 1085 | 1887 | 15 | 7 | 180 | 361 | 600 | 892 | 1296 | 2184 |
| | 7,2 | 137 | 274 | 453 | 692 | 1011 | 1782 | | 7,2 | 156 | 312 | 540 | 768 | 1128 | 1978 |
| 16 | 0,4 ÷ 5 | 251 | 518 | 856 | 1325 | 1923 | 3358 | 16 | 0,4 ÷ 5 | 301 | 612 | 1011 | 1507 | 2244 | 3789 |
| | 6 | 241 | 500 | 788 | 1222 | 1766 | 3095 | | 6 | 270 | 553 | 910 | 1359 | 1980 | 3474 |
| 17 | 7 | 206 | 398 | 679 | 1068 | 1559 | 2676 | 17 | 7 | 240 | 492 | 816 | 1230 | 1798 | 2970 |
| | 8 | 156 | 314 | 514 | 794 | 1142 | 2053 | | 8 | 180 | 360 | 598 | 903 | 1288 | 2247 |
| 18 | 8,2 | 145 | 292 | 483 | 741 | 1090 | 1888 | 18 | 8,2 | 165 | 329 | 547 | 826 | 1176 | 2056 |
| | 0,4 ÷ 5 | 275 | 561 | 944 | 1468 | 2127 | 3718 | | 0,4 ÷ 5 | 330 | 659 | 1116 | 1692 | 2412 | 4173 |
| 19 | 6 | 272 | 551 | 917 | 1419 | 2074 | 3619 | 19 | 6 | 314 | 628 | 1065 | 1615 | 2301 | 3983 |
| | 7 | 252 | 508 | 838 | 1268 | 1871 | 3249 | | 7 | 288 | 599 | 1004 | 1503 | 2202 | 3810 |
| 20 | 8 | 213 | 431 | 722 | 1118 | 1659 | 2831 | 20 | 8 | 240 | 492 | 806 | 1212 | 1770 | 3022 |
| | 9 | 163 | 333 | 548 | 843 | 1244 | 2152 | | 9 | 192 | 360 | 658 | 898 | 1350 | 2280 |
| 21 | 9,2 | 150 | 298 | 493 | 756 | 1143 | 1929 | 21 | 9,2 | 181 | 342 | 628 | 852 | 1283 | 2165 |
| | 1 ÷ 6 | 330 | 680 | 1124 | 1732 | 2541 | 4407 | | 1 ÷ 6 | 390 | 792 | 1300 | 1978 | 2844 | 4917 |
| 22 | 8 | 311 | 629 | 1023 | 1575 | 2332 | 4034 | 22 | 8 | 360 | 732 | 1219 | 1827 | 2622 | 4497 |
| | 10 | 265 | 533 | 812 | 1271 | 1867 | 3202 | | 10 | 270 | 553 | 910 | 1359 | 1980 | 3474 |
| 23 | 11 | 175 | 364 | 568 | 924 | 1350 | 2359 | 23 | 11 | 210 | 468 | 696 | 1046 | 1523 | 2580 |
| | 1 ÷ 8 | 408 | 839 | 1373 | 2138 | 3118 | 5403 | | 1 ÷ 8 | 480 | 972 | 1602 | 2427 | 3564 | 6072 |
| 24 | 12 | 339 | 656 | 1068 | 1629 | 2441 | 4250 | 24 | 12 | 375 | 762 | 1272 | 1923 | 2784 | 4692 |
| | 14 | 199 | 401 | 662 | 1017 | 1503 | 2619 | | 14 | 255 | 528 | 889 | 1332 | 1896 | 3398 |
| 25 | 1 ÷ 9 | 425 | 863 | 1460 | 2178 | 3165 | 5343 | 25 | 1 ÷ 9 | 540 | 912 | 1819 | 2737 | 3984 | 6818 |
| | 15 | 347 | 709 | 1190 | 1816 | 2694 | 4712 | | 15 | 315 | 708 | 1179 | 1764 | 2520 | 4418 |
| 26 | 16 | 207 | 416 | 717 | 1217 | 1608 | 2824 | 26 | 16 | 255 | 528 | 889 | 1332 | 1896 | 3398 |
| | 1 ÷ 12 | 541 | 1062 | 1774 | 2746 | 4001 | 6971 | | 1 ÷ 12 | 615 | 1254 | 2379 | 3153 | 4578 | 7911 |
| 27 | 15 | 459 | 931 | 1552 | 2335 | 3476 | 6184 | 27 | 15 | 534 | 900 | 1799 | 2707 | 3940 | 6738 |
| | 17 | 391 | 648 | 988 | 1748 | 2840 | 4698 | | 17 | 450 | 901 | 1497 | 2246 | 3336 | 5796 |
| 28 | 2,5 ÷ 12 | 685 | 1337 | 2191 | 3360 | 4971 | 8392 | 28 | 2,5 ÷ 12 | 780 | 1590 | 2689 | 3982 | 5790 | 9902 |
| | 15 | 680 | 1320 | 2183 | 3356 | 4877 | 8284 | | 15 | 756 | 1530 | 2548 | 3828 | 5616 | 9600 |
| 29 | 17 | 641 | 1256 | 2084 | 3156 | 4670 | 7866 | 29 | 17 | 720 | 1464 | 2412 | 3707 | 5310 | 9123 |
| | 5 ÷ 15 | 781 | 1521 | 3355 | 3864 | 5611 | 9862 | | 5 ÷ 15 | 870 | 1770 | 2910 | 4430 | 6390 | 10950 |
| 30 | 17 | 763 | 1471 | 3259 | 3768 | 5506 | 9652 | 30 | 17 | 840 | 1724 | 2820 | 4320 | 6180 | 10680 |

ORDERING CODES

| | | | | | | | |
|---|--------|---|----|---|----|---|----|
| Valve Model | VR.47 | E | S. | 1 | 1. | 1 | 15 |
| PRV47-standard steam use | VR.47 | | | | | | |
| PRV47G-compressed air and gases | VR.47G | | | | | | |
| Material Construction | | | | | | | |
| Standard steel construction | (1) | | | | | | |
| Stainless steel construction | I | | | | | | |
| Remote Control and Pilots | | | | | | | |
| Solenoid valve 220V for remote closure up to 10 bar-180°C | E | | | | | | |
| Pressure sustaining / reducing a) | S | | | | | | |
| Pressure sustaining / reducing / solenoid | | | | | | | |
| Diaphragm Type | | | | | | | |
| Standard diaphragm | S. | | | | | | |
| Low pressure diaphragm | L. | | | | | | |
| Outlet Pressure | | | | | | | |
| Green spring 0,35 to 4 bar - single diaphragm | 1 | | | | | | |
| Black spring 2 to 17 bar - double diaphragm | 4 | | | | | | |
| Pneumatic control top 0,35 to 4 bar - single diaphragm | 6 | | | | | | |
| Pneumatic control top 2 to 17 bar - double diaphragm | 7 | | | | | | |
| Piston Rings | | | | | | | |
| Bronze c) | (1) | | | | | | |
| FKM c) | V | | | | | | |
| EPDM c) | E | | | | | | |
| NBR c) | N | | | | | | |
| Drain Connection | | | | | | | |
| Standard valve | (1) | | | | | | |
| Drain connection DN 3/8" | D | | | | | | |
| Valve Plug | | | | | | | |
| Standard metal to metal with hardened plug | 1. | | | | | | |
| Stellited valve and plug | 2. | | | | | | |
| Soft plug - Virgin PTFE | 3. | | | | | | |
| Soft plug - PTFE/GR | 4. | | | | | | |
| Soft plug - Rulon | 5. | | | | | | |
| Connections | | | | | | | |
| Threaded connections BSP | 1 | | | | | | |
| Threaded connections NPT | 2 | | | | | | |
| DIN flanges PN40 | 6 | | | | | | |
| ANSI flanges 150# | 8 | | | | | | |
| ANSI flanges 300# | 9 | | | | | | |
| SIZE | | | | | | | |
| DN 1/2" or DN15 | 15 | | | | | | |
| DN 3/4" or DN20 | 20 | | | | | | |
| DN | | | | | | | |
| Special valves / Extras b) | | | | | | | E |

Remarks:

- (1) Omitted if standard valve is requested
- a) PS15 Sustaining valve standard spring : 0,2 to 10 bar
- b) Full description or additional codes has to be added in case of a non-standard combination
- c) Valve limited to maximum operating temperature materials