

# AUTOTROL RESIDENTIAL VALVES SERIES 255 WITH SERIES LOGIX CONTROLLER



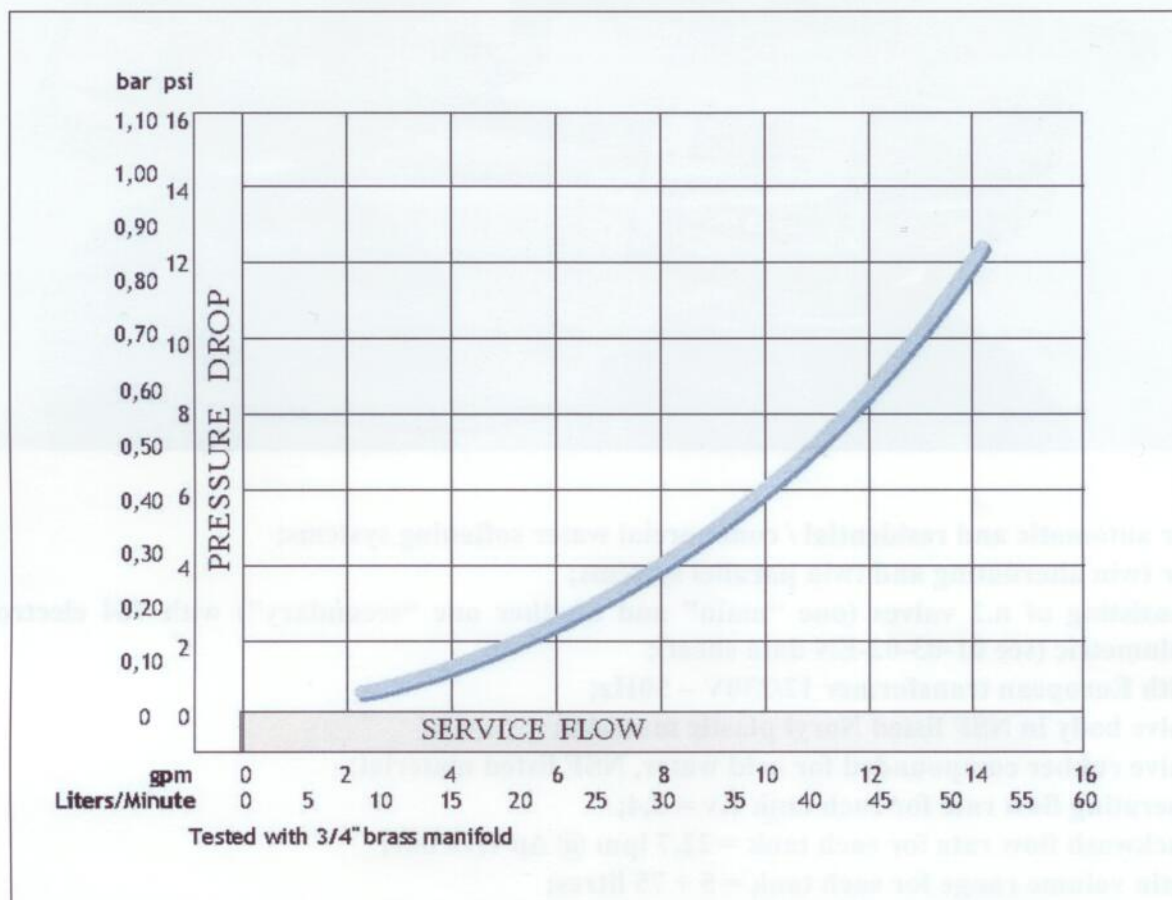
- for automatic and residential water softening systems;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate  $K_v = 3,4$ ;
- backwash flow rate = 22,7 lpm @  $\Delta p$  1,72 bar;
- resin volume range = 5 ÷ 75 litres;
- available with series LOGIX controller (see 01-03-02-EN data sheet):
  - 740 C electronic chronometric;
  - 760 C electronic volumetric;
  - 742 C electronic chronometric programmable;
  - 762 C electronic volumetric programmable;
- with European transformer 12/230V – 50Hz;
- adapters and manifold kit not included, to order separately: see 01-04-01-EN and 01-04-05-EN data sheets;
- accessories (e.g. upper screen, etc.) not included.

## CHARACTERISTICS

|                                               |                           |
|-----------------------------------------------|---------------------------|
| Pressure vessel connection                    | Threaded 2 ½" - 8 UN male |
| Brine line connection                         | Threaded ¼" NPT male      |
| Distributor tube O. D. diameter               | 1,05" (= 27 mm)           |
| Distributor tube length above pressure vessel | 29 ± 3 mm                 |
| Weight (valve + controller)                   | 1,8 kg                    |

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## PRESSURE DROP DIAGRAM



## RECOMMENDED OPERATING CONDITIONS

|                    |                 |
|--------------------|-----------------|
| Operating pressure | 1,38 ÷ 8,27 bar |
| Water temperature  | 2°C ÷ 38°C      |

## TEST KIT FOR HARDNESS



- kit for hardness testing with indicator and titrant complete with test tube;
- definition 0,5 °F;
- number of tests 400°F.

REF.

AV200



- kit for hardness testing with single reagent packaged in blister, with test tube;
- available for definition with French (REF. AV202) or German (REF. AV207) degrees.

| REF.  | DEFINITION | NUMBER OF TESTS |
|-------|------------|-----------------|
| AV202 | 1°F        | 700°F           |
| AV207 | 1°D        | 600°D           |



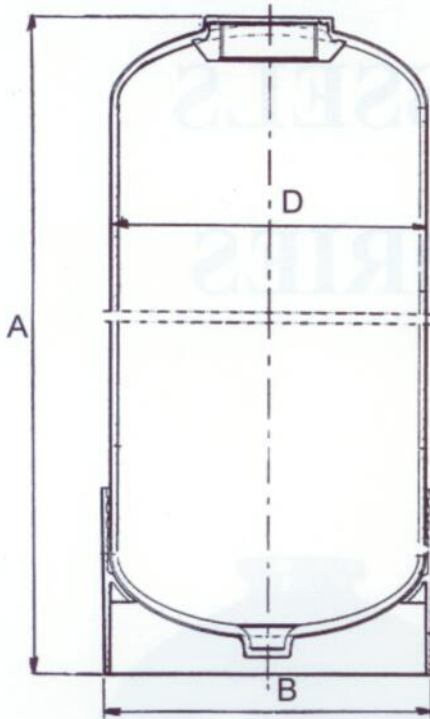
- kit for hardness testing with single reagent packaged in blister, with test tube;
- available for definition with French (REF. AV201) or German (REF. AV206) degrees.

| REF.  | DEFINITION | NUMBER OF TESTS |
|-------|------------|-----------------|
| AV201 | 1°F        | 350°F           |
| AV206 | 1°D        | 300°D           |

# PRESSURE VESSELS AND ACCESSORIES



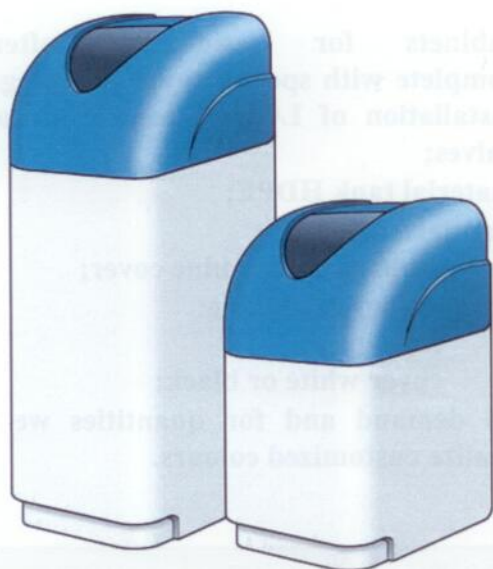
## WAVE CYBER RESIDENTIAL PRESSURE VESSELS WITH BASE



- composite pressure vessels PE liner reinforced with fiberglass and epoxy resin;
- for industrial and potable water treatment systems;
- European 97/23/EC Directive compliant for pressure equipment (PED);
- TUV certification for contact with drinking water following EC directives and KTW recommendations;
- D.M. n.174 dated 06/04/2004 compliant about materials suitable for contact with water for human consumption;
- max operating pressure 10 bar;
- max operating temperature 50°C;
- top connection threaded 2 ½" – 8NPSM or 4" – 8UN;
- cycle test 250.000 times from 0,7 to 10 bar;
- burst test to 4 times max operating pressure;
- blue colour;
- warranty 5 years.

| REF.  | MODEL   | VOLUME (liters) | DIAMETER (mm) | A (mm)   | B (mm) | CONNECTION (inch) |
|-------|---------|-----------------|---------------|----------|--------|-------------------|
| PV029 | 6 x 13  | 4,3             | 155           | 332 ± 4  | 164    | 2 ½"              |
| PV028 | 6 x 18  | 6,7             | 155           | 459 ± 4  | 164    | 2 ½"              |
| PV026 | 6 x 35  | 13,7            | 155           | 891 ± 4  | 164    | 2 ½"              |
| PV027 | 7 x 13  | 5,8             | 182           | 334 ± 4  | 189    | 2 ½"              |
| PV030 | 7 x 17  | 8,3             | 182           | 430 ± 4  | 189    | 2 ½"              |
| PV025 | 7 x 24  | 12,6            | 182           | 612 ± 4  | 189    | 2 ½"              |
| PV031 | 7 x 30  | 16,2            | 182           | 764 ± 4  | 189    | 2 ½"              |
| PV032 | 7 x 35  | 19,1            | 182           | 898 ± 4  | 189    | 2 ½"              |
| PV033 | 7 x 44  | 24,3            | 182           | 1129 ± 5 | 189    | 2 ½"              |
| PV034 | 8 x 13  | 7,7             | 207           | 335 ± 4  | 214    | 2 ½"              |
| PV035 | 8 x 17  | 11,0            | 207           | 432 ± 4  | 214    | 2 ½"              |
| PV039 | 8 x 24  | 16,6            | 207           | 612 ± 4  | 214    | 2 ½"              |
| PV036 | 8 x 30  | 21,4            | 207           | 762 ± 4  | 214    | 2 ½"              |
| PV037 | 8 x 35  | 24,8            | 207           | 898 ± 4  | 214    | 2 ½"              |
| PV038 | 8 x 44  | 32,1            | 207           | 1126 ± 5 | 214    | 2 ½"              |
| PV041 | 9 x 17  | 13,7            | 233           | 431 ± 4  | 240    | 2 ½"              |
| PV040 | 9 x 30  | 26,6            | 233           | 766 ± 5  | 240    | 2 ½"              |
| PV042 | 9 x 35  | 31,6            | 233           | 896 ± 4  | 240    | 2 ½"              |
| PV043 | 9 x 42  | 38,2            | 233           | 1074 ± 5 | 240    | 2 ½"              |
| PV044 | 9 x 48  | 44,6            | 233           | 1228 ± 5 | 240    | 2 ½"              |
| PV047 | 10 x 17 | 16,8            | 258           | 436 ± 4  | 264    | 2 ½"              |
| PV045 | 10 x 19 | 19,2            | 258           | 487 ± 4  | 264    | 2 ½"              |
| PV052 | 10 x 22 | 22,9            | 258           | 559 ± 4  | 264    | 2 ½"              |
| PV055 | 10 x 24 | 25,1            | 258           | 605 ± 4  | 264    | 2 ½"              |
| PV046 | 10 x 30 | 32,4            | 258           | 766 ± 4  | 264    | 2 ½"              |
| PV048 | 10 x 35 | 38,4            | 258           | 897 ± 4  | 264    | 2 ½"              |
| PV049 | 10 x 44 | 50              | 258           | 1126 ± 5 | 264    | 2 ½"              |
| PV059 | 10 x 47 | 54              | 258           | 1188 ± 5 | 264    | 2 ½"              |
| PV050 | 10 x 54 | 62              | 258           | 1386 ± 5 | 264    | 2 ½"              |
| PV051 | 10 x 54 | 62              | 258           | 1382 ± 5 | 264    | 4"                |
| PV053 | 12 x 48 | 79,5            | 310           | 1232 ± 6 | 310    | 2 ½"              |
| PV054 | 12 x 52 | 87              | 310           | 1338 ± 6 | 310    | 2 ½"              |
| PV056 | 13 x 44 | 85              | 336           | 1145 ± 6 | 338    | 2 ½"              |
| PV057 | 13 x 54 | 106             | 336           | 1398 ± 6 | 338    | 2 ½"              |
| PV058 | 13 x 54 | 106             | 336           | 1393 ± 6 | 338    | 4"                |

## CABINETS FOR SOFTENERS CRYSTAL SERIES



- cabinets for residential softeners, complete with salt lid and cover of exclusive design with clear insert;
- materials: tank and salt lid in HDPE, cover in polystyrene;
- standard colours:
  - white tank and blue cover;
  - almond tank and brown cover;
- other colours available:
  - tank grey;
  - cover white or black;
- on demand and for quantities we can realize customized colours.

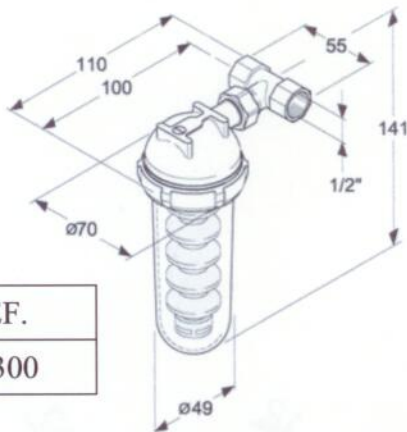
| REF.  | MODEL        | WIDTH (mm) | LENGTH (mm) | HEIGHT (mm) | WITH TANK | COLOURS      |
|-------|--------------|------------|-------------|-------------|-----------|--------------|
| PA210 | MINI CRYSTAL | 320        | 500         | 670         | -         | WHITE BLUE   |
| PA211 | MINI CRYSTAL | 320        | 500         | 670         | 7 x 17    | WHITE BLUE   |
| PA212 | MINI CRYSTAL | 320        | 500         | 670         | 8 x 17    | WHITE BLUE   |
| PA213 | MINI CRYSTAL | 320        | 500         | 670         | 9 x 17    | WHITE BLUE   |
| PA214 | MINI CRYSTAL | 320        | 500         | 670         | 10 x 17   | WHITE BLUE   |
| PA230 | MINI CRYSTAL | 320        | 500         | 670         | -         | ALMOND BROWN |
| PA231 | MINI CRYSTAL | 320        | 500         | 670         | 7 x 17    | ALMOND BROWN |
| PA232 | MINI CRYSTAL | 320        | 500         | 670         | 8 x 17    | ALMOND BROWN |
| PA233 | MINI CRYSTAL | 320        | 500         | 670         | 9 x 17    | ALMOND BROWN |
| PA234 | MINI CRYSTAL | 320        | 500         | 670         | 10 x 17   | ALMOND BROWN |
| PA235 | MAXI CRYSTAL | 320        | 500         | 1140        | -         | WHITE BLUE   |
| PA236 | MAXI CRYSTAL | 320        | 500         | 1140        | 7 x 35    | WHITE BLUE   |
| PA237 | MAXI CRYSTAL | 320        | 500         | 1140        | 8 x 35    | WHITE BLUE   |
| PA238 | MAXI CRYSTAL | 320        | 500         | 1140        | 9 x 35    | WHITE BLUE   |
| PA239 | MAXI CRYSTAL | 320        | 500         | 1140        | 10 x 35   | WHITE BLUE   |
| PA255 | MAXI CRYSTAL | 320        | 500         | 1140        | -         | ALMOND BROWN |
| PA256 | MAXI CRYSTAL | 320        | 500         | 1140        | 7 x 35    | ALMOND BROWN |
| PA257 | MAXI CRYSTAL | 320        | 500         | 1140        | 8 x 35    | ALMOND BROWN |
| PA258 | MAXI CRYSTAL | 320        | 500         | 1140        | 9 x 35    | ALMOND BROWN |
| PA259 | MAXI CRYSTAL | 320        | 500         | 1140        | 10 x 35   | ALMOND BROWN |

### ACCESSORIES:

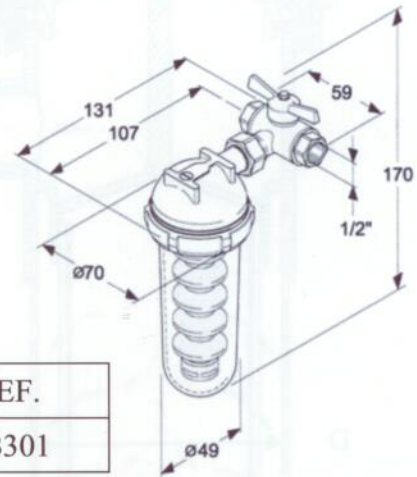
| REF.  | DESCRIPTION         | DIAMETER (mm) | HEIGHT (mm) |
|-------|---------------------|---------------|-------------|
| PA003 | BRINE WELL FOR MINI | 100           | 342         |
| PA005 | BRINE WELL FOR MAXI | 100           | 820         |

# POLYPHOSPHATE PROPORTIONING FEEDERS

- proportional dosage to water flow through Venturi system;
- neutralizes the precipitation of calcium and magnesium carbonate up to 70°C making a protective coat over metallic share in contact with water;
- average dosage 3 ppm of P<sub>2</sub>O<sub>5</sub>;
- chrome plated brass head, trogamid sump;
- each feeder includes a polyphosphate package.



REF.  
FB300

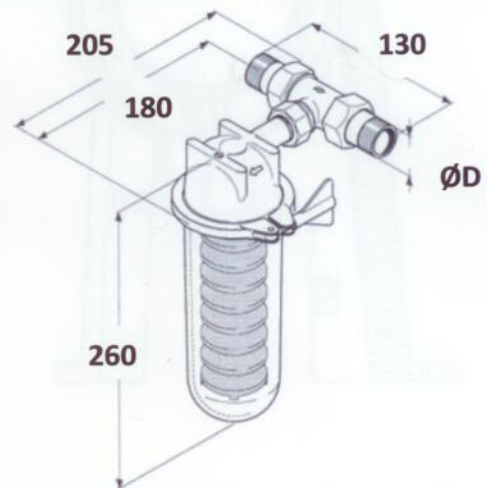


REF.  
FB301

- IN-OUT connections 1/2" F;
- max operating pressure 10 bar;
- max operating temperature 40°C;
- flow rate 1.500 l/h;
- polyphosphate refill 80 g.

| REF.  | MODEL       | BY-PASS OPTION  |
|-------|-------------|-----------------|
| FB300 | DP 12 OR    | WITHOUT BY-PASS |
| FB301 | DP 12 OR BP | WITH BY-PASS    |

| REF.  | MODEL     | IN-OUT CONNECTIONS | FLOW (l/h) |
|-------|-----------|--------------------|------------|
| FB302 | DP 34 OR  | 3/4" M             | 2500       |
| FB303 | DP 1 OR   | 1" M               | 3500       |
| FB304 | DP 114 OR | 1 1/4" M           | 4400       |



- max operating pressure 10 bar;
- max operating temperature 40°C;
- N.2 polyphosphate refills 400 g.

Available polyphosphate packages as spare.

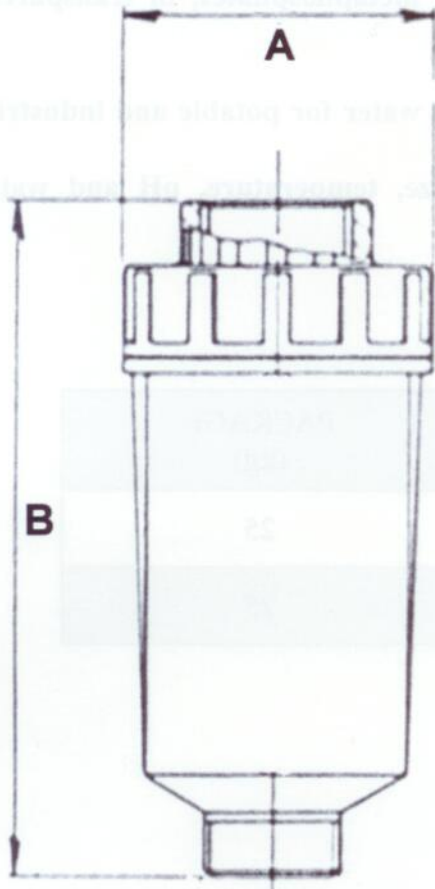
NOTE: PF/H type for hard water (> 15°F)

PF/S type for soft or softened (3 ÷ 15° F)

| REF.  | DESCRIPTION                             | PACKAGE (g) |
|-------|-----------------------------------------|-------------|
| FB340 | Polyphosphate PF/H for hard water       | 160         |
| FB341 | Polyphosphate PF/H for hard water       | 400         |
| FB342 | Polyphosphate PF/H for hard water       | 1000        |
| FB343 | Polyphosphate PF/S for soft or softened | 160         |
| FB344 | Polyphosphate PF/S for soft or softened | 400         |
| FB345 | Polyphosphate PF/S for soft or softened | 1000        |

# POLYPHOSPHATE CRYSTALS FEEDER

- polyphosphate crystals feeder antiscald;
- particular suitable for washing machines – dish washers – boilers;
- initial filling of polyphosphate included;
- max operating pressure 7 bar;
- max operating temperature 45° C;
- for specific refill see 07-03-03-EN data sheet.



| REF.  | CONNECTIONS<br>(inch) | A<br>(mm) | B<br>(mm) | POLYPHOSPHATE FILLING<br>(g) |
|-------|-----------------------|-----------|-----------|------------------------------|
| FB308 | 3/4"                  | 55        | 125       | 130                          |