

VALVES, CONTROLLERS AND ACCESSORIES



AUTOTROL RESIDENTIAL VALVES SERIES 255 WITH SERIES 400 CONTROLLER



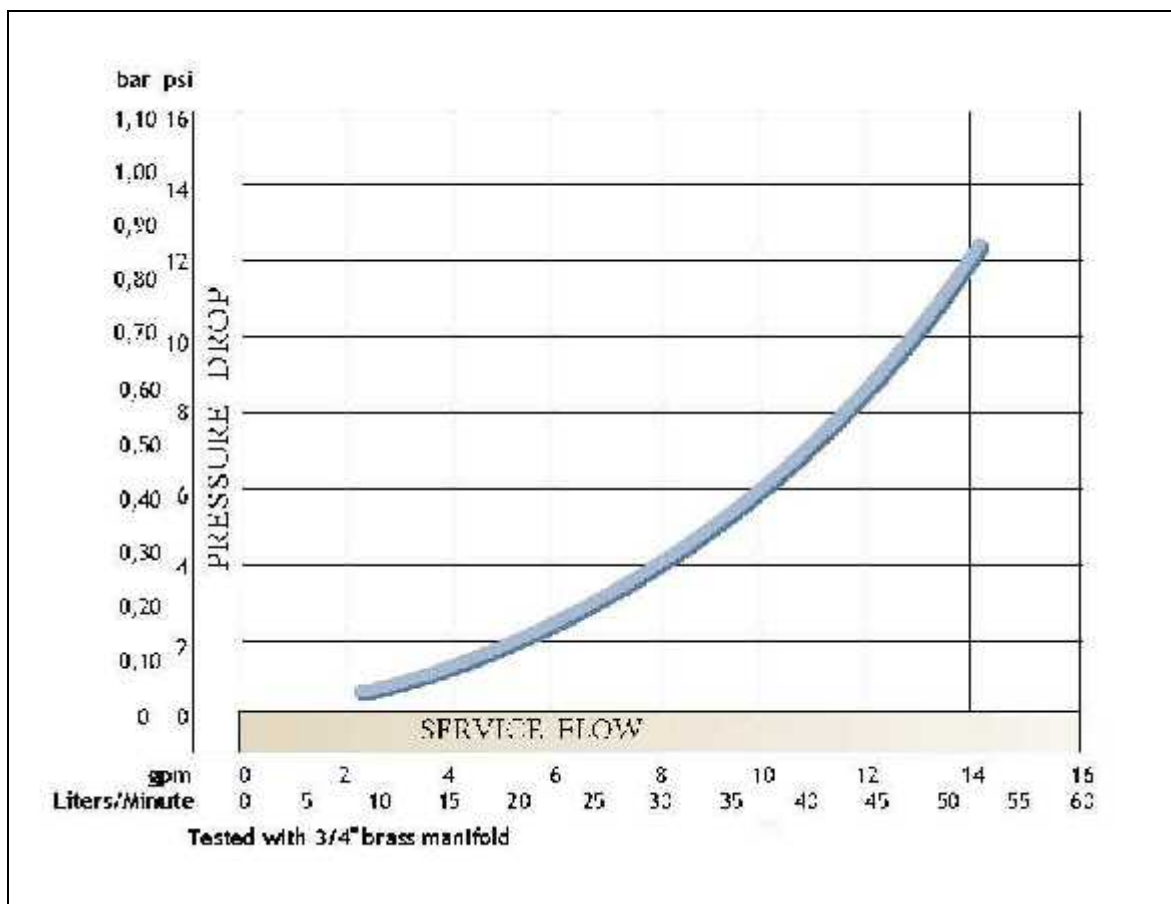
- for automatic and residential water softening systems;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate $K_v = 3,4$;
- backwash flow rate = 22,7 lpm @ Δp 1,72 bar;
- resin volume range = 5 ÷ 75 litres;
- available with series 400 controller (see 01-03-01-EN data sheet):
 - 440i electromechanical chronometric;
 - 450i electromechanical pulse;
 - 460i electronic volumetric;
- with European transformer 12/230V – 50Hz, except models with 450i pulse controller which need separate alimentation 24V – 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

AUTOTROL RESIDENTIAL VALVES SERIES 255 WITH SERIES 400 CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 255 WITH SERIES LOGIX CONTROLLER



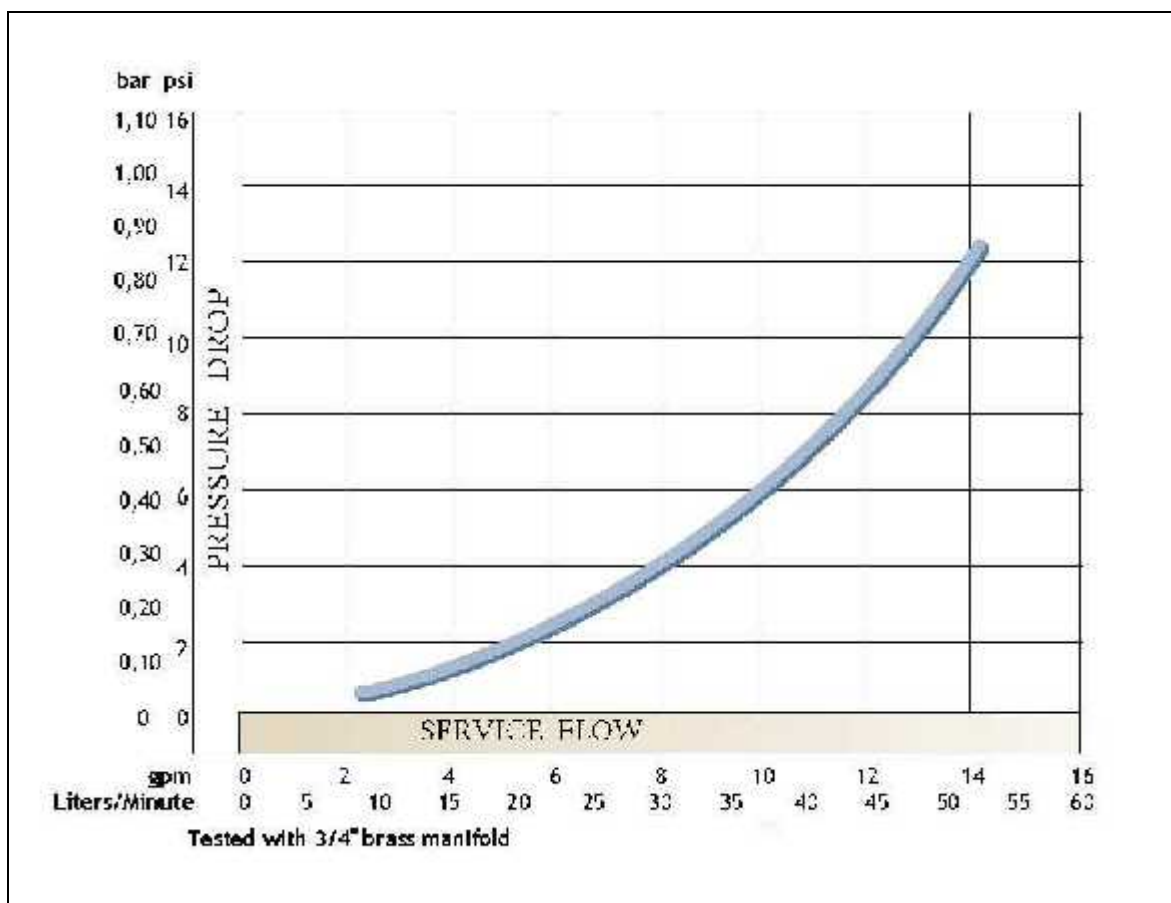
- for automatic and residential water softening systems;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate $K_v = 3,4$;
- backwash flow rate = 22,7 lpm @ Δp 1,72 bar;
- resin volume range = 5 ÷ 75 litres;
- available 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

AUTOTROL RESIDENTIAL VALVES SERIES 255 WITH SERIES LOGIX CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

RESIDENTIAL DUPLEX SYSTEMS WITH AUTOTROL VALVES SERIES 255 TWIN AND 764 CONTROLLER



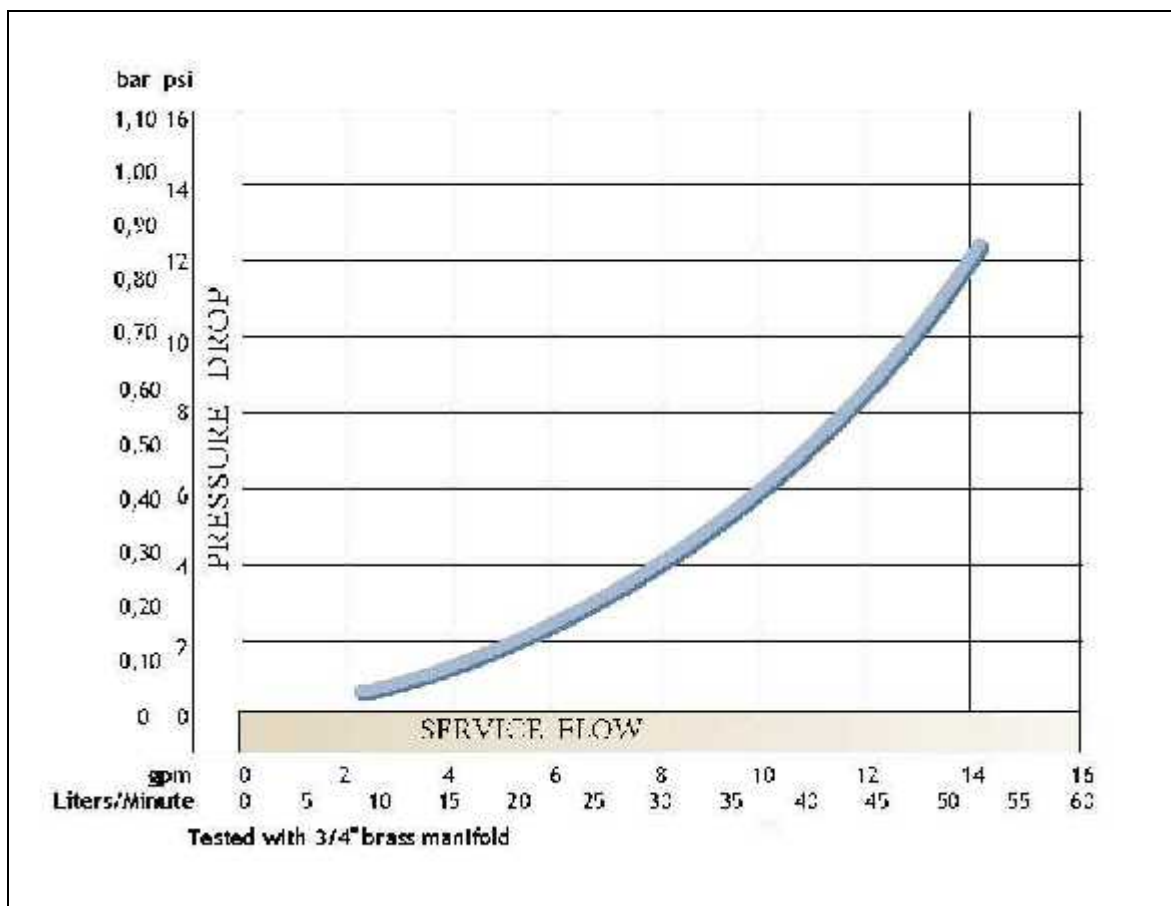
- for automatic and residential / commercial water softening systems;
- for twin alternating and twin parallel systems;
- consisting of n.2 valves (one “main” and another one “secondary”) with 764 electronic volumetric (see 01-03-02-EN data sheet);
- with European transformer 12/230V – 50Hz;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate for each tank $K_v = 3,4$;
- backwash flow rate for each tank = 22,7 lpm @ Δp 1,72 bar;
- resin volume range for each tank = 5 ÷ 75 litres;
- interconnection kit (REF. AV119, see 01-04-01-EN data sheet) and accessories (e.g. upper screen, etc.) not included, to order separately: see 01-04-05-EN data sheet.

CHARACTERISTICS

Pressure vessel connection	Threaded 2 ½ ”- 8 UN male
Drain line connection	Threaded ½ ” male, included in interconnection kit
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

RESIDENTIAL DUPLEX SYSTEMS WITH AUTOTROL VALVES SERIES 255 TWIN AND 764 CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 255 WITH 764 CONTROLLER FOR MULTITANK SYSTEMS



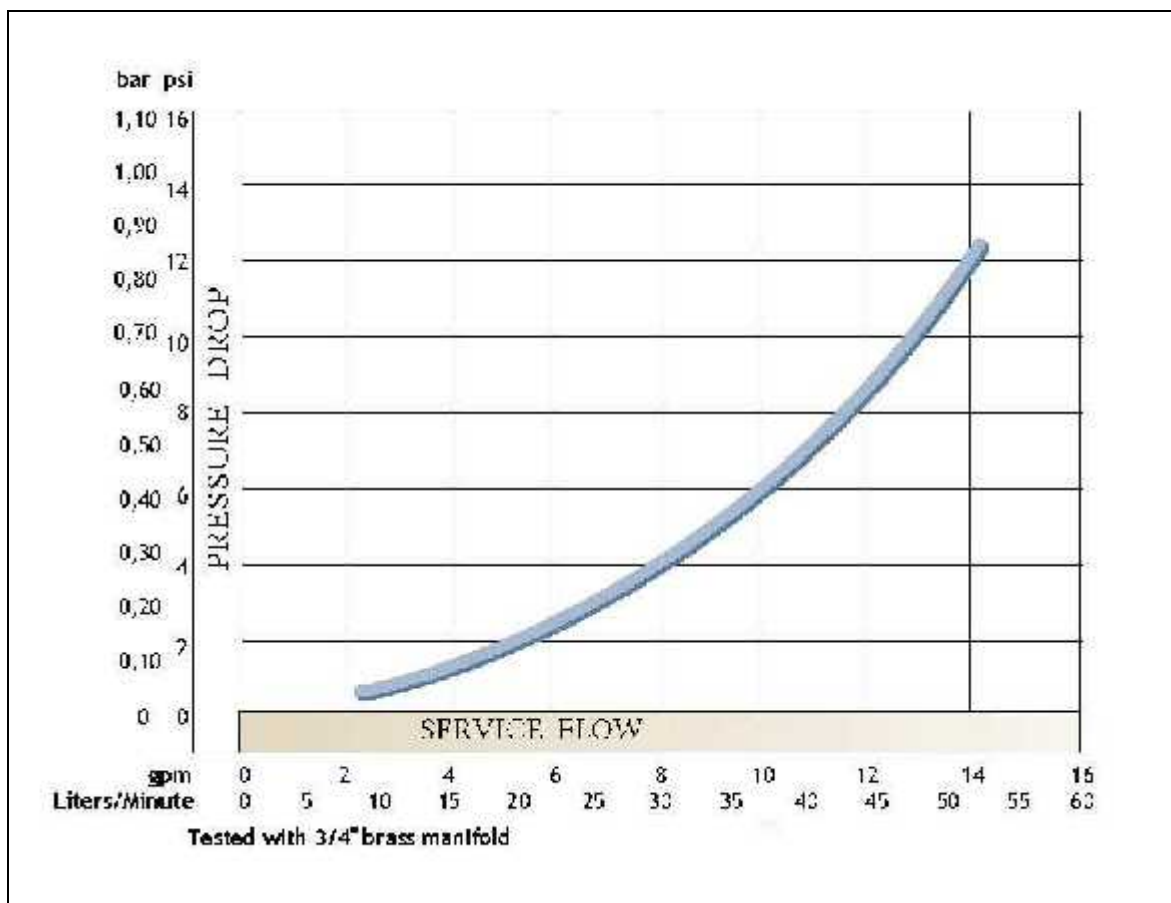
- for automatic and residential / commercial water softening systems;
- with electronic volumetric 764 controller (see 01-03-02-EN data sheet);
- for alternating systems;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate for each tank $K_v = 3,4$;
- backwash flow rate for each tank = 22,7 lpm @ Δp 1,72 bar;
- resin volume range for each tank = 5 ÷ 75 litres;
- with European transformer 12/230V – 50Hz for each valve;
- 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

AUTOTROL RESIDENTIAL VALVES SERIES 255 WITH 764 CONTROLLER FOR MULTITANK SYSTEMS

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 268 WITH SERIES 400 CONTROLLER



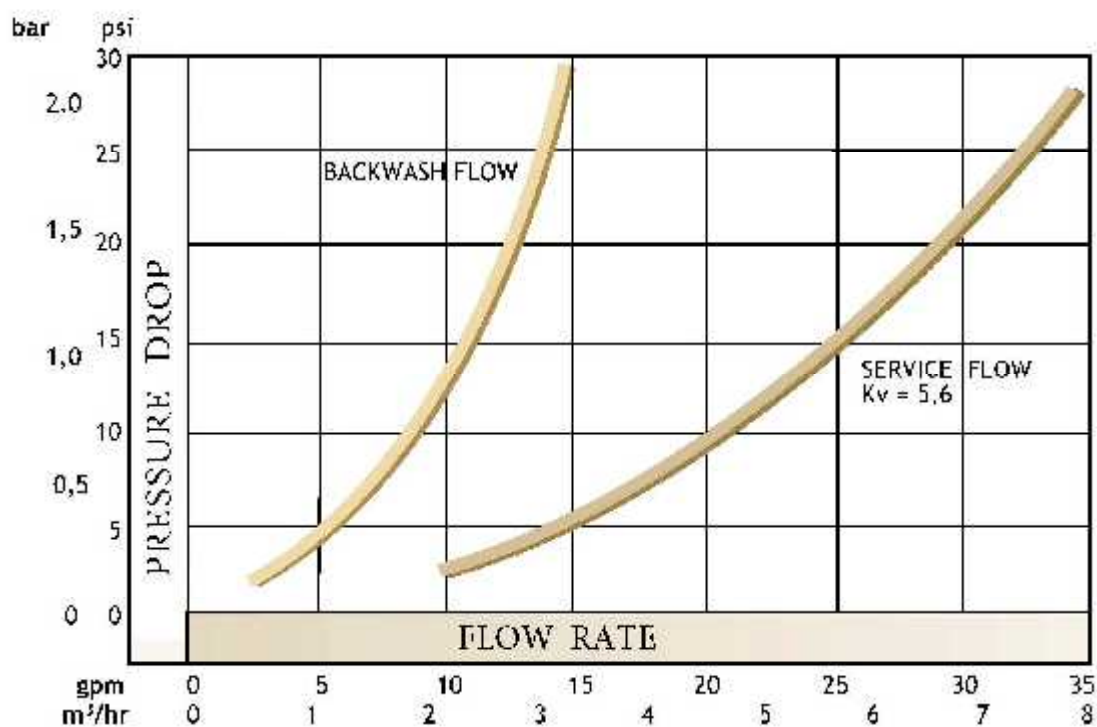
- for automatic and residential water softening systems;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate $K_v = 5,6$;
- backwash flow rate = 50,4 lpm @ Δp 1,7 bar;
- resin volume range = 30 ÷ 125 litres;
- available with series 400 controller (see 01-03-01-EN data sheet):
 - 440i electromechanical chronometric;
 - 450i electromechanical pulse;
 - 460i electronic volumetric;
- with European transformer 12/230V – 50Hz, except models with 450i pulse controller which need separate alimentation 24V – 50Hz;
- adapters and manifold kit not included, to order separately: see 01-04-02-EN and 01-04-05-EN data sheets;
- accessories (e.g. upper screen, etc.) not included;
- for 268FA/440i and 268FA/450i models see 01-01-07-EN data sheet.

CHARACTERISTICS

Pressure vessel connection	Threaded 2 ½ ”- 8 UN male
Drain line connection	Threaded ¾” NPT, male
Brine line connection	Threaded ⅜” NPT, male
Distributor tube O. D. diameter	1,05 ” (= 27 mm)
Distributor tube length above pressure vessel	29 ± 3 mm
Weight (valve + controller)	2,00 kg

AUTOTROL RESIDENTIAL VALVES SERIES 268 WITH SERIES 400 CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 263 WITH SERIES 400 CONTROLLER



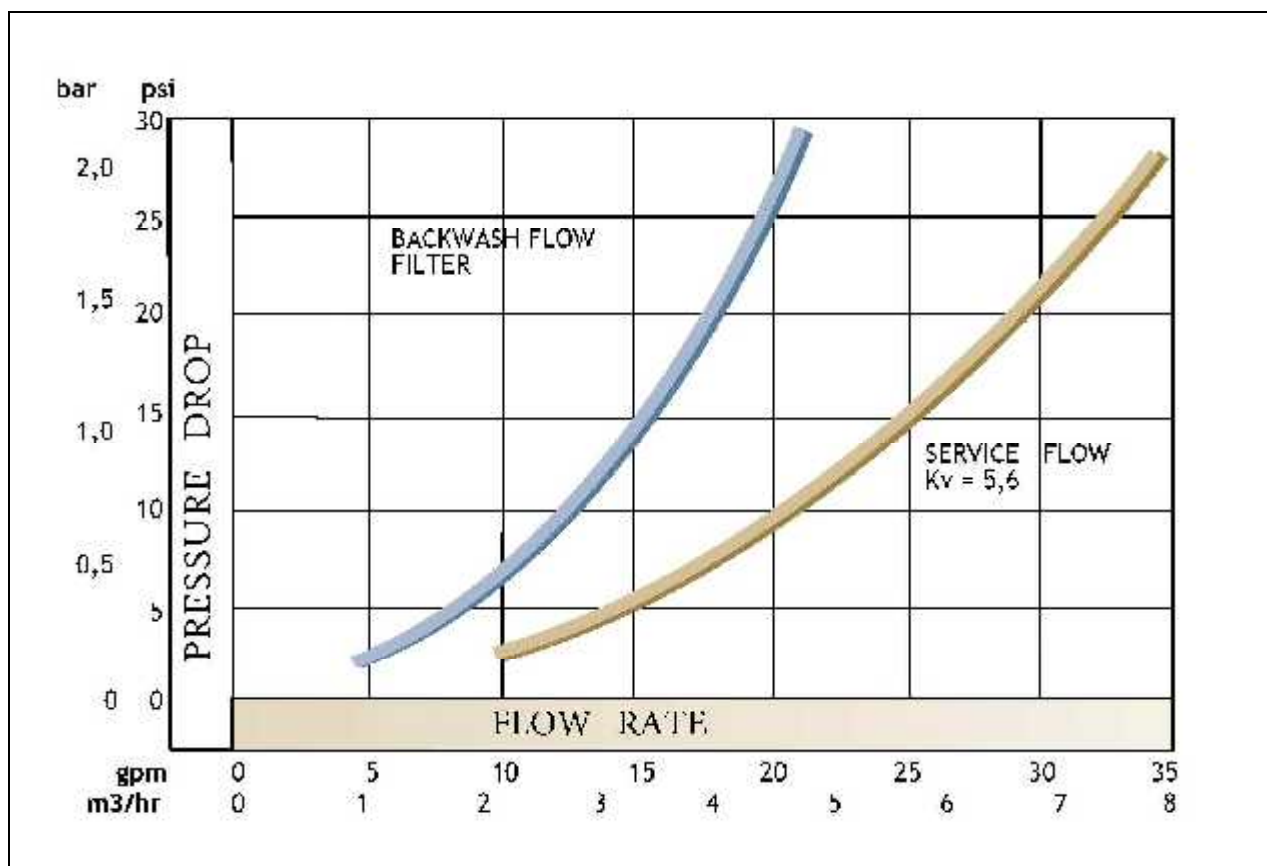
- for automatic and residential water filtration systems;
- available with series 400 controller (see 01-03-01-EN data sheet):
 - 440i electromechanical chronometric;
 - 450i electromechanical pulse;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate $K_v = 5,6$;
- backwash flow rate = 75,7 lpm @ Δp 1,72 bar;
- with European transformer 12/230V – 50Hz, except models with 450i pulse controller which need separate alimentation 24V – 50Hz;
- adapters and manifold kit not included, to order separately: see 01-04-02-EN and 01-04-05-EN data sheets;
- accessories (ex. upper screen, etc.) not included.

CHARACTERISTICS

Pressure vessel connection	Threaded 2 ½ ”- 8 UN male
Drain line connection	Threaded ¾” NPT, male
Distributor tube O. D. diameter	1,05 ” (= 27 mm)
Distributor tube length above pressure vessel	29 ± 3 mm
Weight (valve + controller)	2,00 kg

AUTOTROL RESIDENTIAL VALVES SERIES 263 WITH SERIES 400 CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 268FA WITH SERIES 400 CONTROLLER



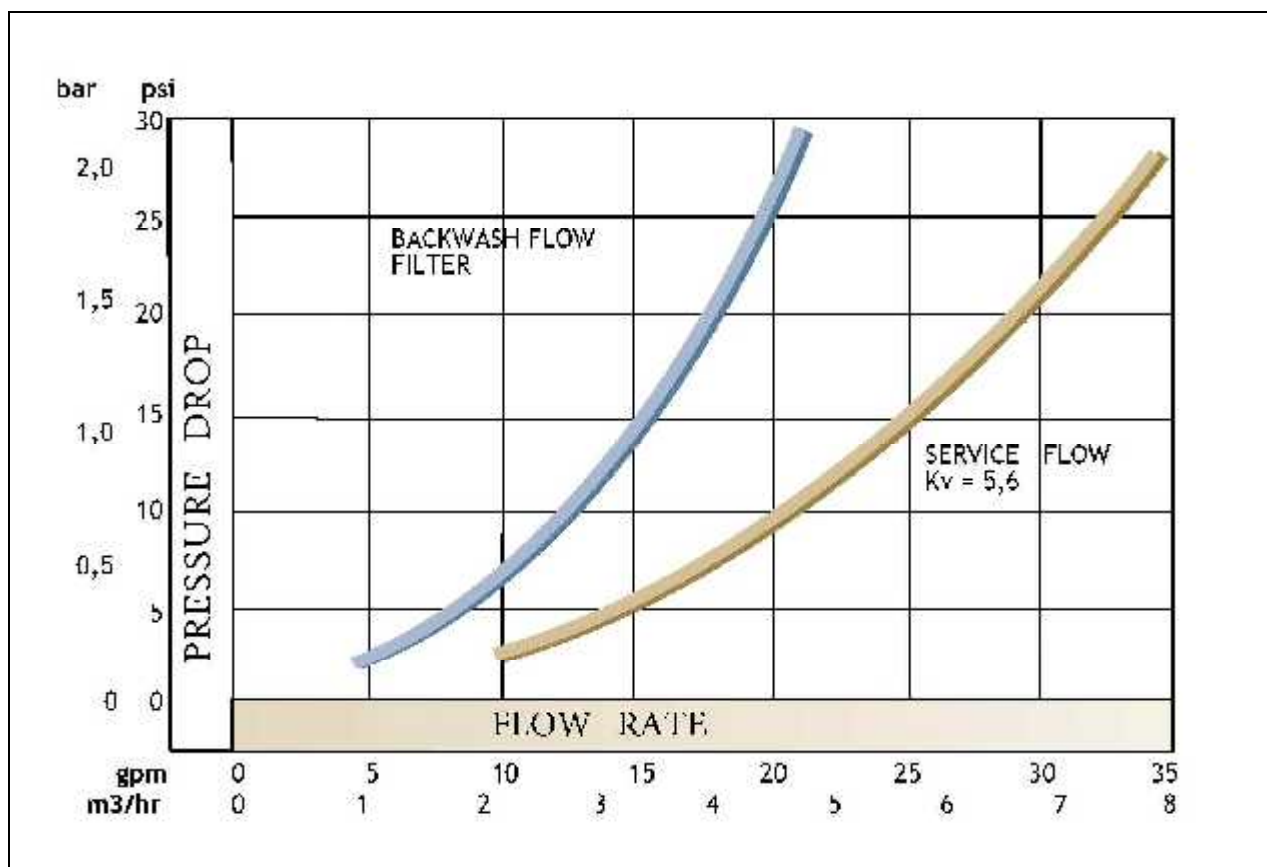
- for automatic and residential water 5 cycles iron removal systems;
- available with series 400 controller (see 01-03-01-EN data sheet):
 - 440i electromechanical chronometric;
 - 450i electromechanical pulse;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate $K_v = 5,6$;
- backwash flow rate = 50,4 lpm @ Δp 1,72 bar;
- with European transformer 12/230V – 50Hz;
- adapters and manifold kit not included, to order separately: see 01-04-02-EN and 01-04-05-EN data sheets;
- accessories (ex. upper screen, etc.) not included.

CHARACTERISTICS

Pressure vessel connection	Threaded 2 ½ ”- 8 UN male
Drain line connection	Threaded ¾” NPT, male
Distributor tube O. D. diameter	1,05 ” (= 27 mm)
Distributor tube length above pressure vessel	29 ± 3 mm
Weight (valve + controller)	2,00 kg

AUTOTROL RESIDENTIAL VALVES SERIES 268FA WITH SERIES 400 CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 268 WITH SERIES LOGIX CONTROLLER



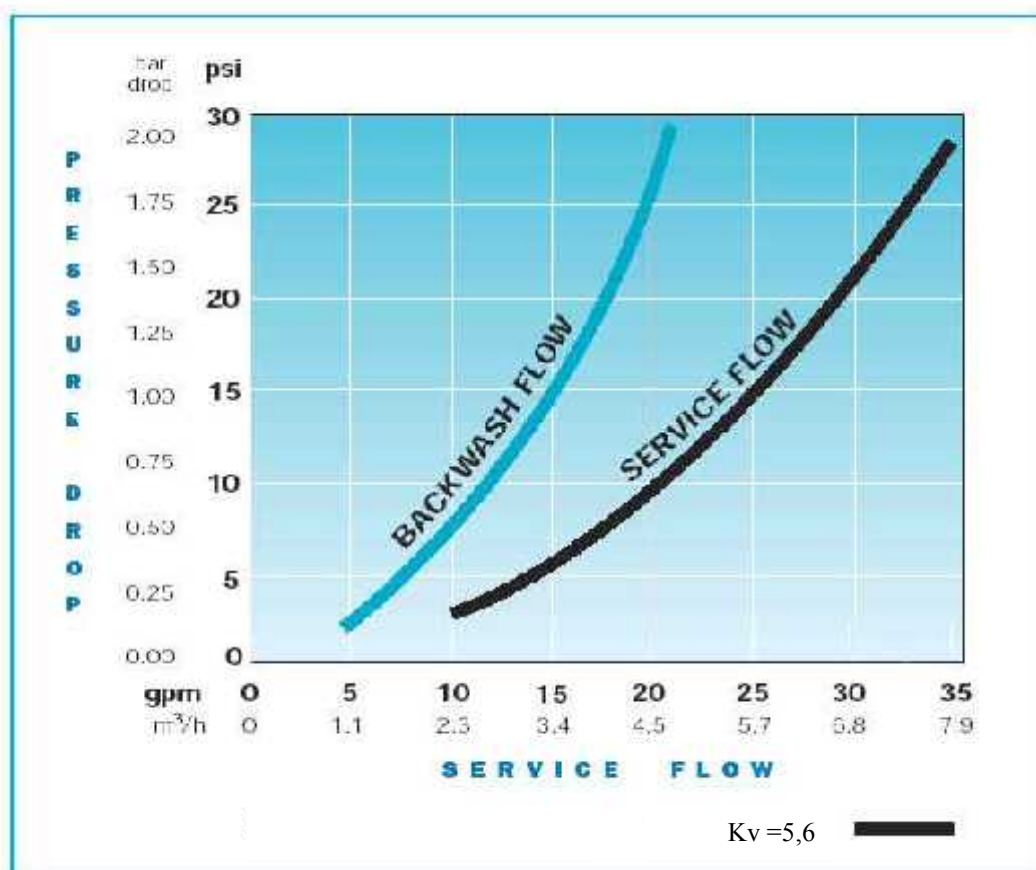
- for automatic and residential water softening systems;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate $K_v = 5,6$;
- backwash flow rate = 75,7 lpm @ Δp 1,72 bar;
- resin volume range = 30 ÷ 125 litres;
- available 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 01-04-02-EN and 01-04-05-EN data sheets;
- accessories (e.g. upper screen, etc.) not included;
- for 268FA/742 and 268FA/762 models see 01-01-10-EN data sheet.

CHARACTERISTICS

Pressure vessel connection	Threaded 2 ½" - 8 UN male
Drain line connection	Threaded ¾" NPT, male
Brine line connection	Threaded ¾" NPT, male
Distributor tube O. D. diameter	1,05" (= 27 mm)
Distributor tube length above pressure vessel	½" ± ½" (= 13 ± 13 mm)
Weight (valve + controller)	2,42 kg

AUTOTROL RESIDENTIAL VALVES SERIES 268 WITH SERIES LOGIX CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 263 WITH SERIES LOGIX CONTROLLER



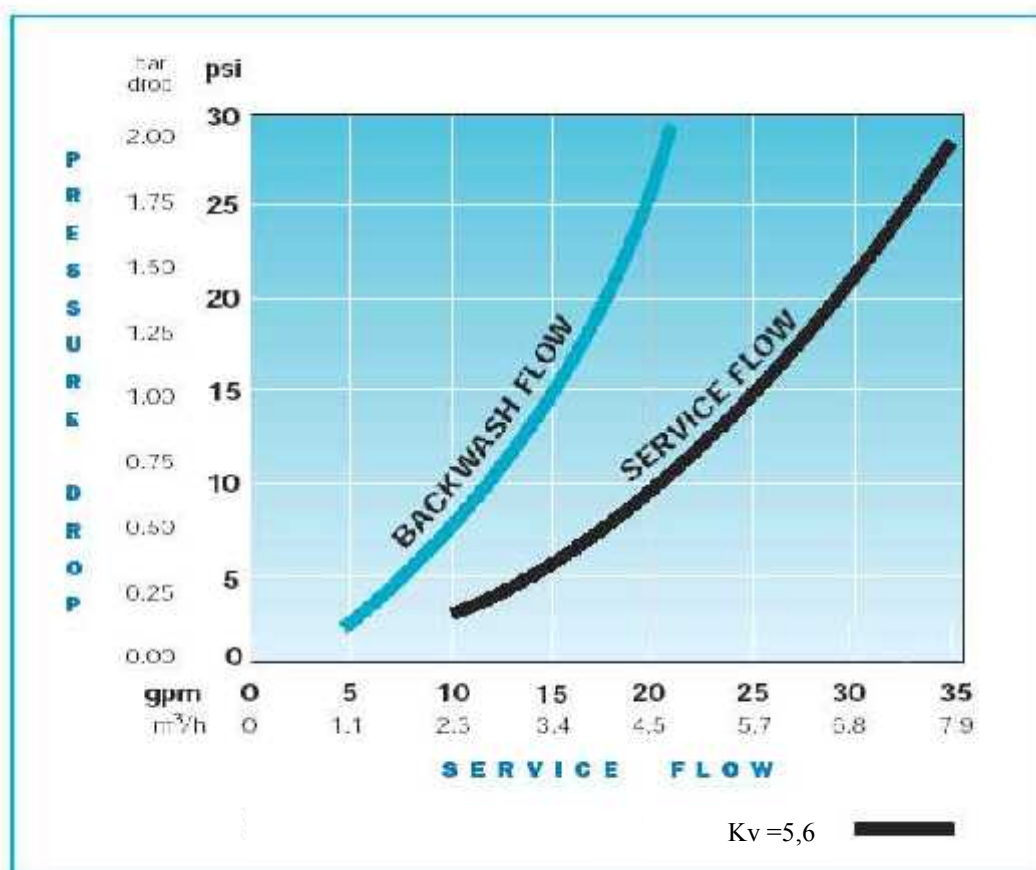
- for automatic and residential water filtration systems;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate $K_v = 5,6$;
- backwash flow rate = 75,7 lpm @ Δp 1,72 bar;
- available with series LOGIX controller (see 01-03-02-EN data sheet):
 - 740 F electronic chronometric;
 - 760 F electronic volumetric;
 - 742 F electronic chronometric programmable;
 - 762 F electronic volumetric programmable;
- with European transformer 12/230V – 50Hz;
- adapters and manifold kit not included, to order separately: see 01-04-02-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
Drain line connection	Threaded ¾” NPT, male
Distributor tube O. D. diameter	1,05 ” (= 27 mm)
Distributor tube length above pressure vessel	½” ± ½” (= 13 ± 13 mm)
Weight (valve + controller)	2,42 kg

AUTOTROL RESIDENTIAL VALVES SERIES 263 WITH SERIES LOGIX CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 268FA WITH SERIES LOGIX CONTROLLER



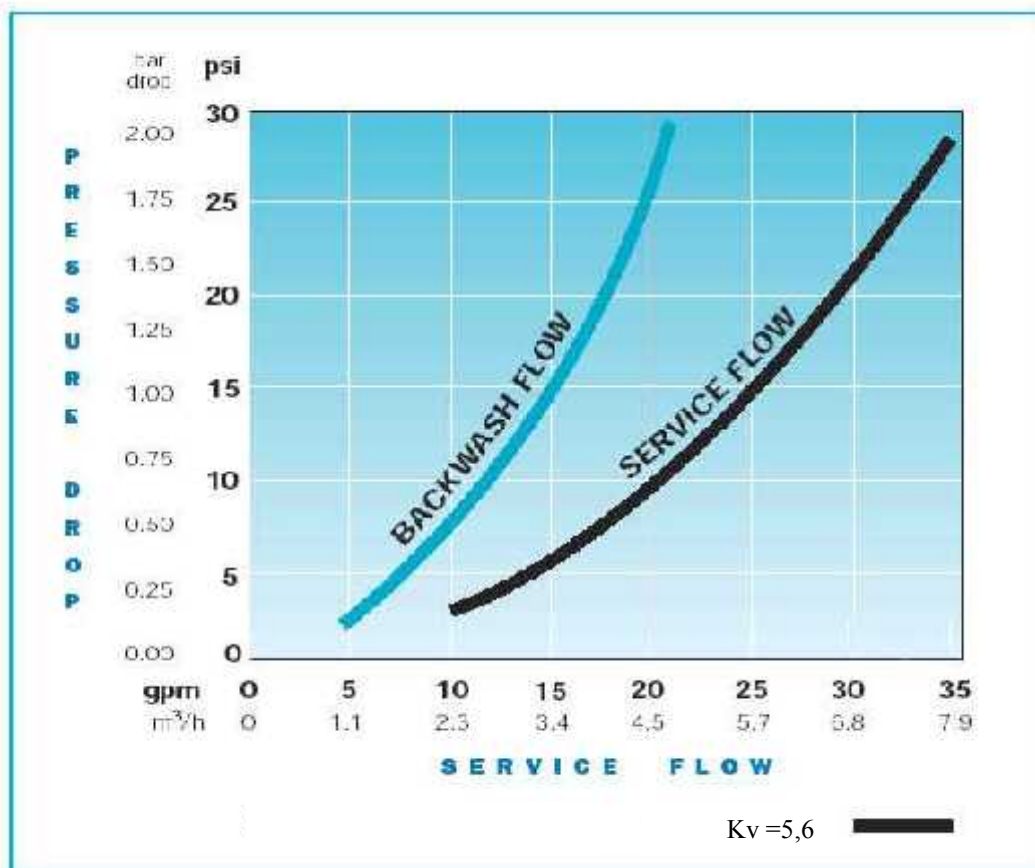
- for automatic and residential water 5 cycles iron removal systems;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate $K_v = 5,6$;
- backwash flow rate = 75,7 lpm @ Δp 1,72 bar;
- available with series LOGIX controller (see 01-03-02-EN data sheet):
 - 742 F electronic chronometric programmable;
 - 762 F electronic volumetric programmable;
- with European transformer 12/230V – 50Hz;
- adapters and manifold kit not included, to order separately: see 01-04-02-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
Drain line connection	Threaded ¾" NPT, male
Distributor tube O. D. diameter	1,05" (= 27 mm)
Distributor tube length above pressure vessel	½" ± ½" (= 13 ± 13 mm)
Weight (valve + controller)	2,42 kg

AUTOTROL RESIDENTIAL VALVES SERIES 268FA WITH SERIES LOGIX CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 278 WITH SERIES LOGIX CONTROLLER



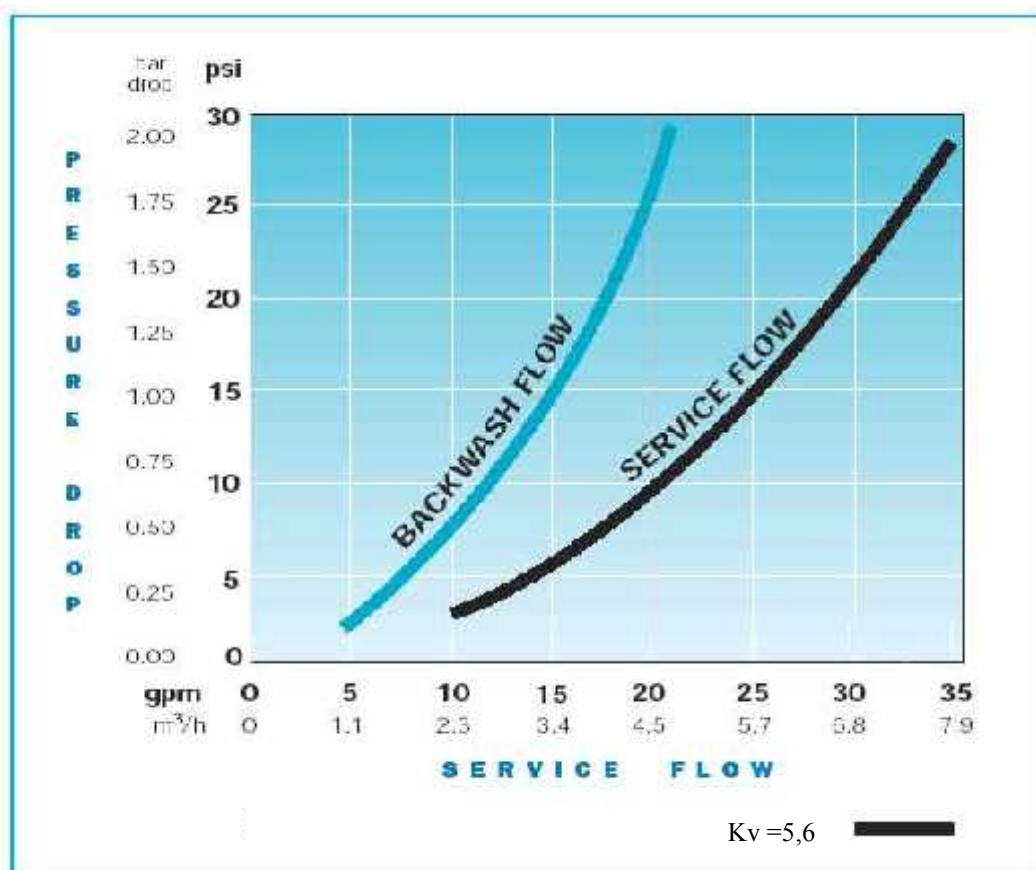
- for automatic water softening systems with high resin volume;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate $K_v = 5,6$;
- backwash flow rate = 75,7 lpm @ Δp 1,72 bar;
- resin volume range = 45 ÷ 225 litres;
- available with series LOGIX controller (see 01-03-02-EN data sheet):
 - 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 01-04-02-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
Drain line connection	Threaded ¾" NPT, male
Brine line connection	Threaded ¾" NPT, male
Distributor tube O. D. diameter	1,05" (= 27 mm)
Distributor tube length above pressure vessel	½" ± ½" (= 13 ± 13 mm)
Weight (valve + controller)	2,42 kg

AUTOTROL RESIDENTIAL VALVES SERIES 278 WITH SERIES LOGIX CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

RESIDENTIAL DUPLEX SYSTEMS WITH AUTOTROL RESIDENTIAL VALVES SERIES 278 TWIN AND 764 CONTROLLER



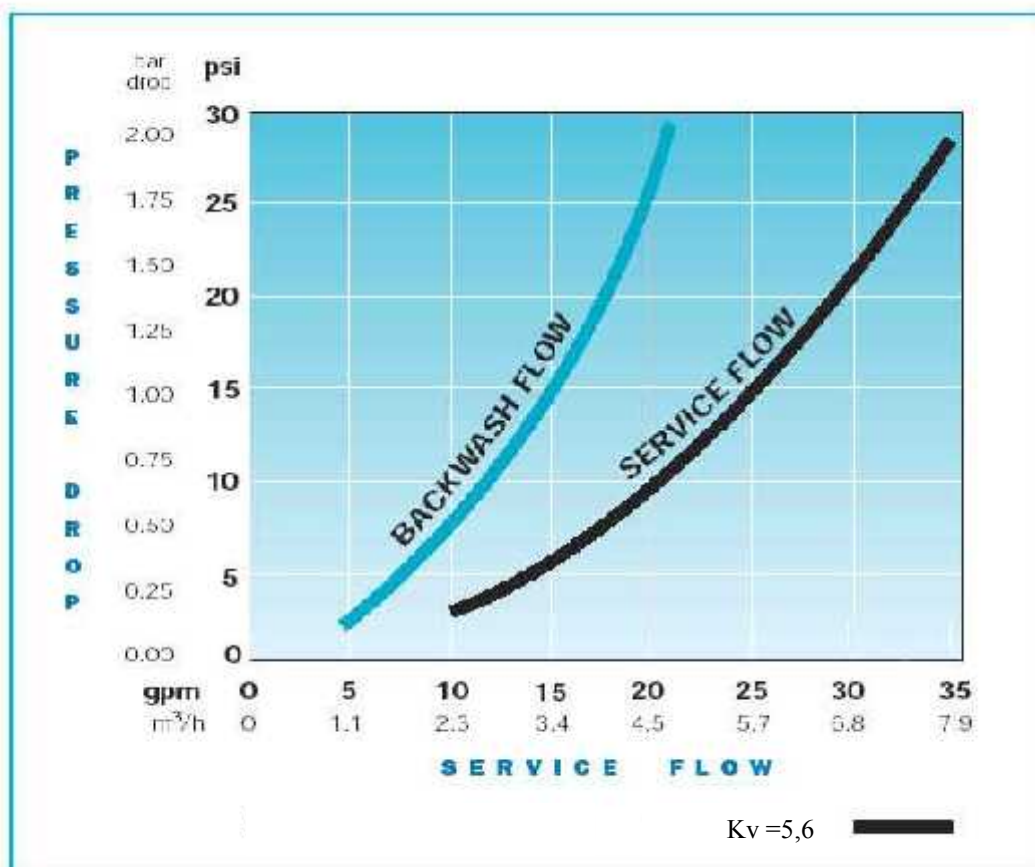
- for automatic and residential / commercial water softening systems;
- for twin alternating and twin parallel systems;
- consisting of n.2 valves (one “main” and another one “secondary”) with 764 electronic volumetric (see 01-03-02-EN data sheet);
- with European transformer 12/230V – 50Hz;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate for each tank $K_v = 5,6$;
- backwash flow rate for each tank = 75,7 lpm @ Δp 1,72 bar;
- resin volume range for each tank = 45 ÷ 225 litres;
- interconnection kit (see 01-04-03-EN data sheet) and accessories (e.g. upper screen, etc.) not included, to order separately: see 01-04-02-EN and 01-04-05-EN data sheets.

CHARACTERISTICS

Pressure vessel connection	Threaded 2 ½ ”- 8 UN male
Drain line connection	Threaded ¾” NPT, male
Brine line connection	Threaded ¾” NPT, male
Distributor tube O. D. diameter	1,05 ” (= 27 mm)
Distributor tube length above pressure vessel	½” ± ½” (= 13 ± 13 mm)
Weight (valve + controller)	2,42 kg

RESIDENTIAL DUPLEX SYSTEMS WITH AUTOTROL RESIDENTIAL VALVES SERIES 278 TWIN AND 764 CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL RESIDENTIAL VALVES SERIES 278 WITH 764 CONTROLLER FOR MULTITANK SYSTEMS



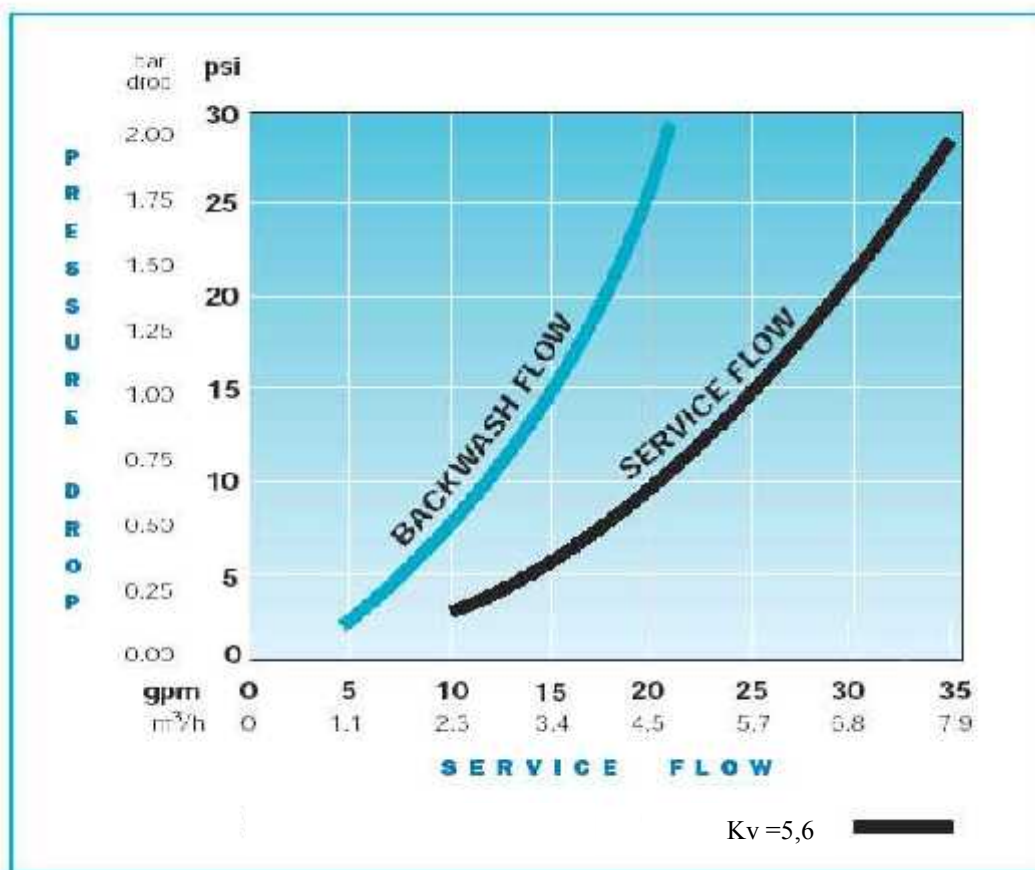
- for automatic and residential / commercial water softening systems;
- with electronic volumetric 764 controller (see 01-03-02-EN data sheet);
- for parallel systems;
- valve body in NSF listed Noryl plastic material;
- valve rubber compounded for cold water, NSF listed material;
- operating flow rate for each tank $K_v = 5,6$;
- backwash flow rate for each tank = 75,7 lpm @ Δp 1,72 bar;
- resin volume range for each tank = 45 ÷ 225 litres;
- with European transformer 12/230V – 50Hz for each valve;
- adapters and manifold kit not included, to order separately: see 01-04-02-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
Connessione linea di scarico	Threaded ¾” NPT, male
Brine line connection	Threaded ⅜” NPT, male
Distributor tube O. D. diameter	1,05 ” (= 27 mm)
Distributor tube length above pressure vessel	½” ± ½” (= 13 ± 13 mm)
Weight (valve + controller)	2,42 kg

AUTOTROL RESIDENTIAL VALVES SERIES 278 WITH 764 CONTROLLER FOR MULTITANK SYSTEMS

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

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

AUTOTROL INDUSTRIAL SOFTENING MAGNUM CV 1,5" VALVES WITH SERIES LOGIX CONTROLLER



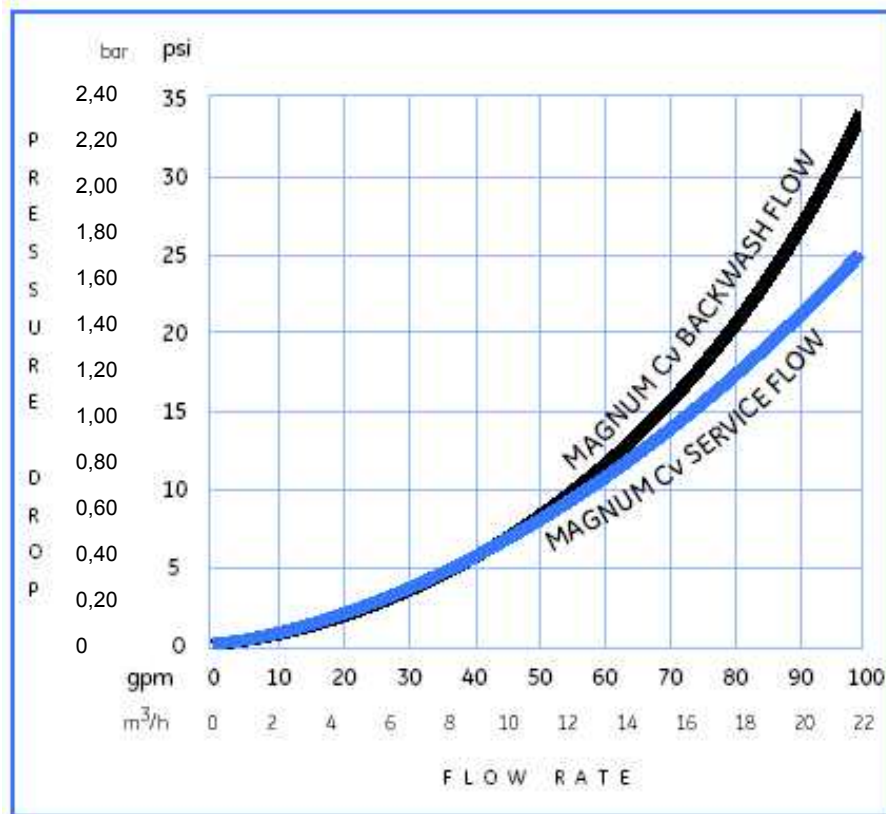
- for automatic and industrial water softening systems;
- valve body in NSF listed Noryl plastic material with 304 Stainless Steel tank adapter (for heavy applications, like iron removal using KMnO_4 or decarbonisation using HCl , the Noryl tank adapter is available on request);
- o-rings in EPDM material;
- operating flow rate $K_v = 17$;
- backwash flow rate = 337 lpm @ Δp 1,72 bar;
- resin volume range = 100 ÷ 700 litres;
- available with series LOGIX controller (see 01-03-02-EN data sheet):
 - 742 electronic chronometric programmable;
 - 762 electronic volumetric programmable;
- with European transformer 12/230V – 50/60 Hz;
- available with or without by-pass;
- adapters, manifold kit and accessories (e.g. upper screen, etc.) not included, to order separately: see 01-04-04-EN and 01-04-05-EN data sheets;
- brine tank refill system doesn't need a brine valve, but just an air-check;
- PVC 2" side mounting adapter available on demand (REF. CC084, see 01-04-04-EN data sheet).

CHARACTERISTICS

Pressure vessel connection	Threaded 4" - 8 UN male
Drain line connection	1,5" brass – NPT/BSPT male D50 CPVC to glue
Brine line connection	Threaded ¾" NPT male
Distributor tube O. D. diameter	1,5" (= 48,3 mm)
Pilot drain and auxiliary hydraulic out	¼" tube fitting
Distributor tube length above pressure vessel	16 ± 3 mm
Weight (valve + controller)	12,3 kg

AUTOTROL INDUSTRIAL SOFTENING MAGNUM CV 1,5" VALVES WITH SERIES LOGIX CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

Operating pressure	1,72 ÷ 6,90 bar
Water temperature	1°C ÷ 36°C

AUTOTROL INDUSTRIAL MAGNUM CV 1,5" VALVES FOR FILTRATION WITH SERIES LOGIX CONTROLLER



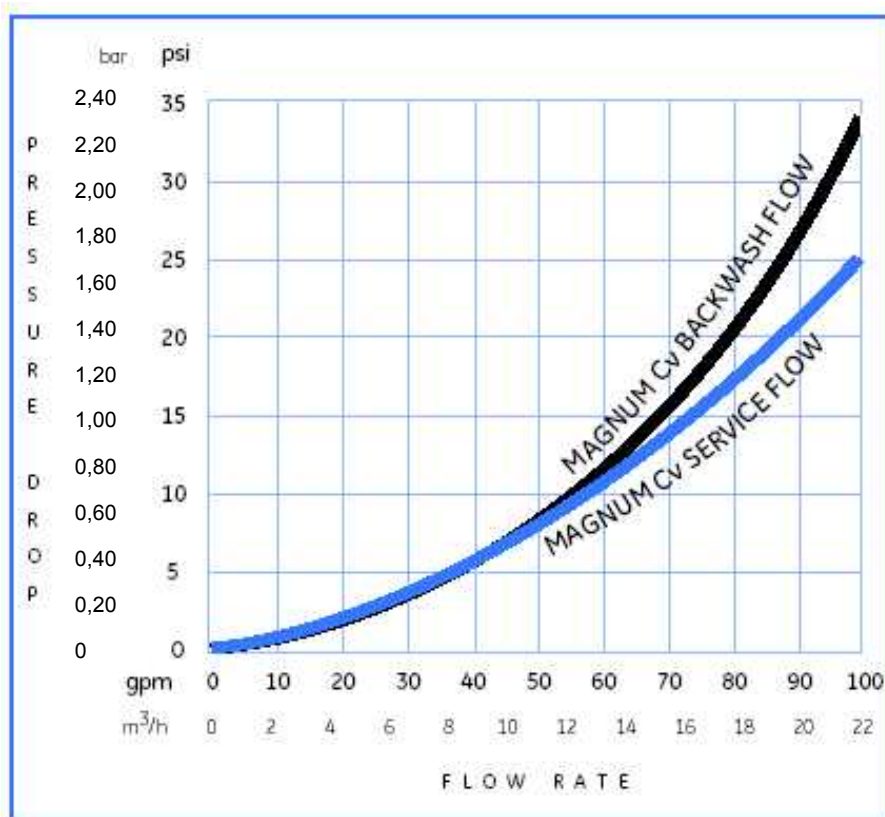
- for automatic and industrial water filtration systems;
- valve body in NSF listed Noryl plastic material with 304 Stainless Steel tank adapter (for heavy applications, like sea water, the Noryl tank adapter is available on request);
- o-rings in EPDM material;
- operating flow rate $K_v = 17$;
- backwash flow rate = 337 lpm @ Δp 1,72 bar;
- available with series LOGIX controller (see 01-03-02-EN data sheet):
 - 742 F electronic chronometric programmable;
 - 762 F electronic volumetric programmable;
- with European transformer 12/230V – 50/60 Hz;
- available with or without by-pass;
- adapters, manifold kit and accessories (e.g. upper screen, etc.) not included, to order separately: see 01-04-04-EN and 01-04-05-EN data sheets;
- PVC 2" side mounting adapter available on demand (REF. CC084, see 01-04-04-EN data sheet).

CHARACTERISTICS

Pressure vessel connection	Threaded 4 "- 8 UN male
Drain line connection	1,5" brass – NPT/BSPT male D50 CPVC to glue
Distributor tube O. D. diameter	1,5 " (= 48,3 mm)
Pilot drain and auxiliary hydraulic out	1/4" tube fitting
Distributor tube length above pressure vessel	16 ± 3 mm
Weight (valve + controller)	12,3 kg

AUTOTROL INDUSTRIAL MAGNUM CV 1,5" VALVES FOR FILTRATION WITH SERIES LOGIX CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

Operating pressure	1,72 ÷ 6,90 bar
Water temperature	1°C ÷ 36°C

AUTOTROL INDUSTRIAL SOFTENING MAGNUM IT 2" VALVES WITH SERIES LOGIX CONTROLLER



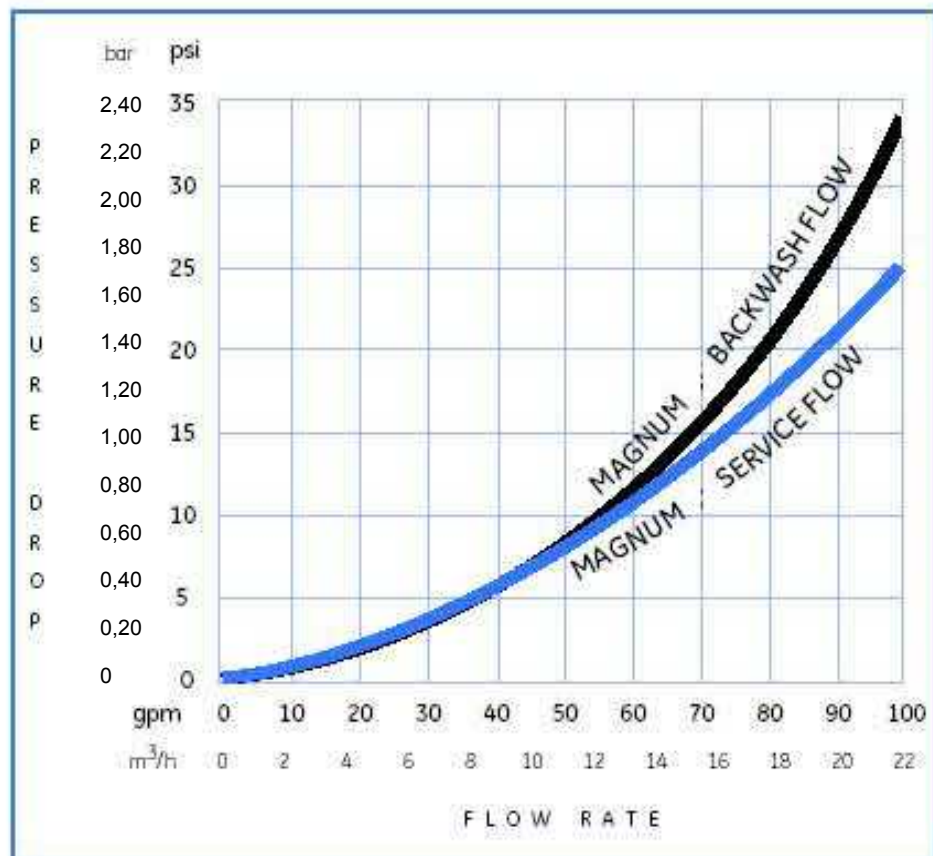
- for automatic and industrial water softening systems;
- valve body in NSF listed Noryl plastic material with 304 Stainless Steel tank adapter (for heavy applications, like iron removal using KMnO_4 or decarbonisation using HCl , the Noryl tank adapter is available on request);
- o-rings in EPDM material;
- operating flow rate $K_v = 17$;
- backwash flow rate = 337 lpm @ Δp 1,72 bar;
- resin volume range = 100 ÷ 700 litres;
- available with series LOGIX controller (see 01-03-02-EN data sheet):
 - 742 electronic chronometric programmable;
 - 762 electronic volumetric programmable;
- with European transformer 12/230V – 50/60 Hz;
- available with or without by-pass;
- adapters, manifold kit and accessories (e.g. upper screen, etc.) not included, to order separately: see 01-04-04-EN and 01-04-05-EN data sheets;
- brine tank refill system doesn't need a brine valve, but just an air-check;
- PVC 2" side mounting adapter available on demand (REF. CC084, see 01-04-04-EN data sheet).

CHARACTERISTICS

Pressure vessel connection	Threaded 4" - 8 UN male
Drain line connection	1,5" brass – NPT/BSPT male D50 CPVC to glue
Brine line connection	Threaded 3/4" NPT male
Distributor tube O. D. diameter	1,5" (= 48,3 mm)
Pilot drain and auxiliary hydraulic out	1/4" tube fitting
Distributor tube length above pressure vessel	16 ± 3 mm
Weight (valve + controller)	12,3 kg

AUTOTROL INDUSTRIAL SOFTENING MAGNUM IT 2" VALVES WITH SERIES LOGIX CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

Operating pressure	1,72 ÷ 6,90 bar
Water temperature	1°C ÷ 36°C

AUTOTROL INDUSTRIAL MAGNUM IT 2" VALVES FOR FILTRATION WITH SERIES LOGIX CONTROLLER



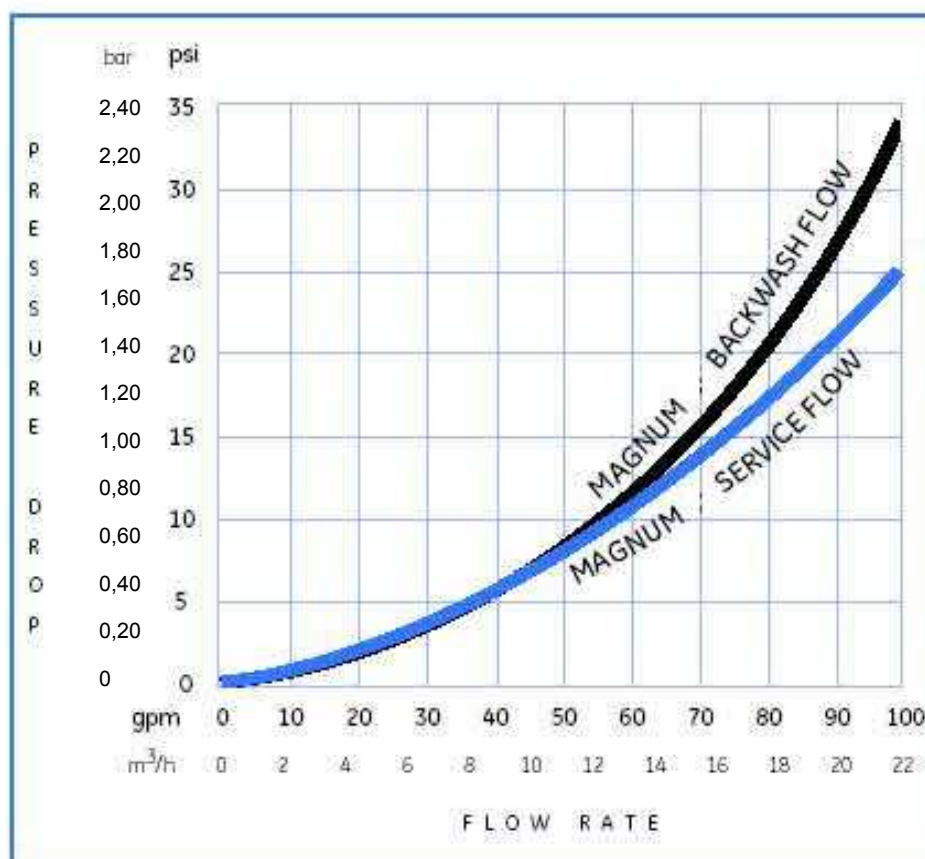
- for automatic and industrial water filtration systems;
- valve body in NSF listed Noryl plastic material with 304 Stainless Steel tank adapter (for heavy applications, like sea water, the Noryl tank adapter is available on request);
- o-rings in EPDM material;
- operating flow rate $K_v = 17$;
- backwash flow rate = 337 lpm @ Δp 1,72 bar;
- available with series LOGIX controller (see 01-03-02-EN data sheet):
 - 742 F electronic chronometric programmable;
 - 762 F electronic volumetric programmable;
- with European transformer 12/230V – 50/60 Hz;
- available with or without by-pass;
- adapters, manifold kit and accessories (e.g. upper screen, etc.) not included, to order separately: see 01-04-04-EN and 01-04-05-EN data sheets;
- PVC 2" side mounting adapter available on demand (REF. CC084, see 01-04-04-EN data sheet).

CHARACTERISTICS

Pressure vessel connection	Threaded 4 " - 8 UN male
Drain line connection	1,5" brass – NPT/BSPT male D50 CPVC to glue
Distributor tube O. D. diameter	1,5 " (= 48,3 mm)
Pilot drain and auxiliary hydraulic out	1/4" tube fitting
Distributor tube length above pressure vessel	16 ± 3 mm
Weight (valve + controller)	12,3 kg

AUTOTROL INDUSTRIAL MAGNUM IT 2" VALVES FOR FILTRATION WITH SERIES LOGIX CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

Operating pressure	1,72 ÷ 6,90 bar
Water temperature	1°C ÷ 36°C

INDUSTRIAL DUPLEX SYSTEMS WITH AUTOTROL SOFTENING MAGNUM IT 2" VALVES AND 764 CONTROLLER



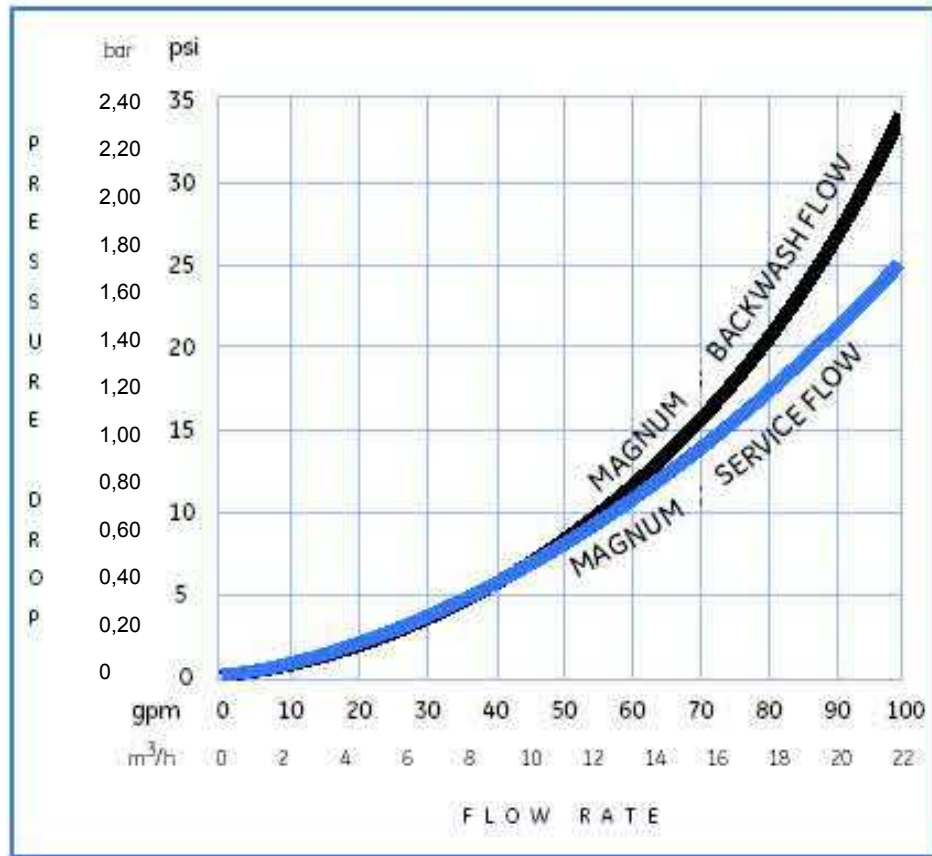
- for automatic and industrial water softening systems;
- for twin alternating and twin parallel systems;
- consisting of n.2 valves (one “main” and another one “secondary”) with 764 electronic volumetric (see 01-03-02-EN data sheet);
- valve body in NSF listed Noryl plastic material with 304 Stainless Steel tank adapter (for heavy applications, like iron removal using KMnO_4 or decarbonisation using HCl , the Noryl tank adapter is available on request);
- o-rings in EPDM material;
- operating flow rate for each tank $K_v = 17$;
- backwash flow rate for each tank = 337 lpm @ Δp 1,72 bar;
- resin volume range for each tank = 100 ÷ 700 litres;
- with European transformer 12/230V – 50/60 Hz;
- available with or without by-pass;
- adapters, manifold kit and accessories (e.g. upper screen, etc.) not included, to order separately: see 01-04-04-EN and 01-04-05-EN data sheets;
- brine tank refill system doesn't need a brine valve, but just an air-check;
- PVC 2" side mounting adapter available on demand (REF. CC084, see 01-04-04-EN data sheet);
- interconnection not included.

CHARACTERISTICS

Pressure vessel connection	Threaded 4 "- 8 UN male
Drain line connection	1,5" brass – NPT/BSPT male D50 CPVC to glue
Brine line connection	Threaded 3/4" NPT male
Distributor tube O. D. diameter	1,5 " (= 48,3 mm)
Pilot drain and auxiliary hydraulic out	1/4" tube fitting
Distributor tube length above pressure vessel	16 ± 3 mm
Weight (valve + controller)	12,3 kg

INDUSTRIAL DUPLEX SYSTEMS WITH AUTOTROL SOFTENING MAGNUM IT 2" VALVES AND 764 CONTROLLER

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

Operating pressure	1,72 ÷ 6,90 bar
Water temperature	1°C ÷ 36°C

AUTOTROL INDUSTRIAL SOFTENING MAGNUM IT 2" VALVES WITH 764 CONTROLLER FOR MULTITANK SYSTEMS



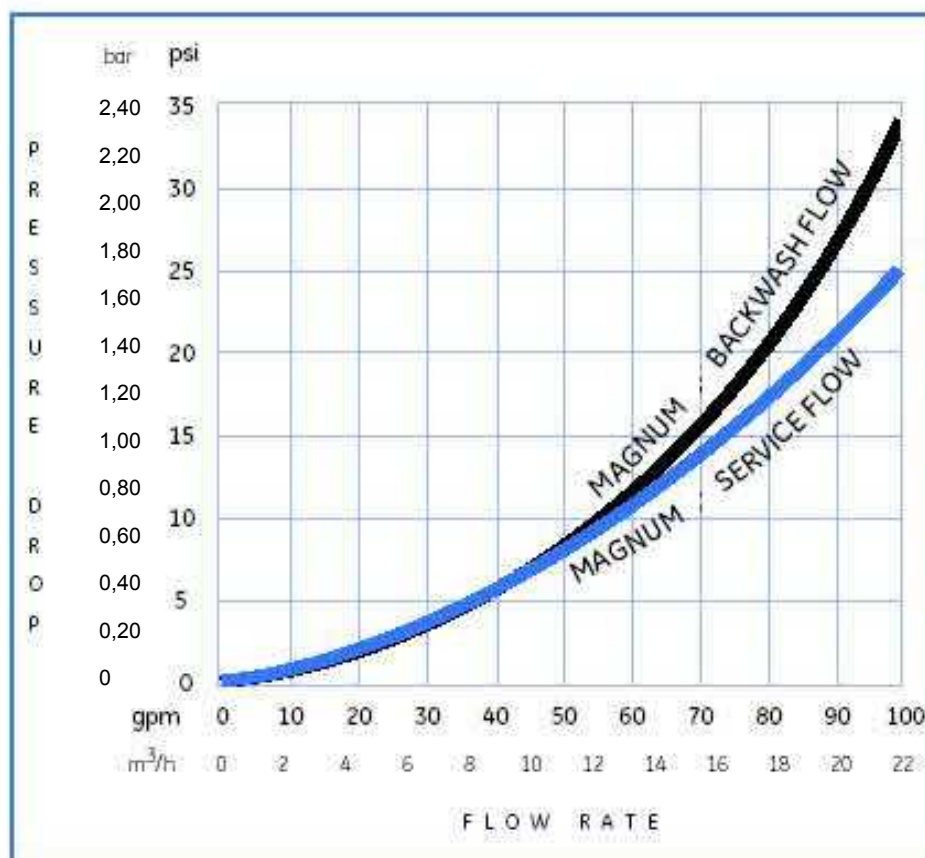
- for automatic and industrial water softening systems;
- with electronic volumetric 764 controller (see 01-03-02-EN data sheet);
- for parallel systems;
- valve body in NSF listed Noryl plastic material with 304 Stainless Steel tank adapter (for heavy applications, like iron removal using KMnO_4 or decarbonisation using HCl , the Noryl tank adapter is available on request);
- o-rings in EPDM material;
- operating flow rate for each tank $K_v = 17$;
- backwash flow rate for each tank = 337 lpm @ Δp 1,72 bar;
- resin volume range for each tank = 100 ÷ 700 litres;
- with European transformer 12/230V – 50/60 Hz for each valve;
- available with or without by-pass;
- adapters, manifold kit and accessories (e.g. upper screen, etc.) not included, to order separately: see 01-04-04-EN and 01-04-05-EN data sheets;
- brine tank refill system doesn't need a brine valve, but just an air-check;
- PVC 2" side mounting adapter available on demand (REF. CC084, see 01-04-04-EN data sheet);
- interconnection not included.

CHARACTERISTICS

Pressure vessel connection	Threaded 4" - 8 UN male
Drain line connection	1,5" brass – NPT/BSPT male D50 CPVC to glue
Brine line connection	Threaded 3/4" NPT male
Distributor tube O. D. diameter	1,5" (= 48,3 mm)
Pilot drain and auxiliary hydraulic out	1/4" tube fitting
Distributor tube length above pressure vessel	16 ± 3 mm
Weight (valve + controller)	12,3 kg

AUTOTROL INDUSTRIAL SOFTENING MAGNUM IT 2" VALVES WITH 764 CONTROLLER FOR MULTITANK SYSTEMS

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

Operating pressure	1,72 ÷ 6,90 bar
Water temperature	1°C ÷ 36°C

AUTOTROL INDUSTRIAL MAGNUM IT 2" VALVES FOR FILTRATION WITH 764 CONTROLLER WITH MULTITANK SYSTEMS



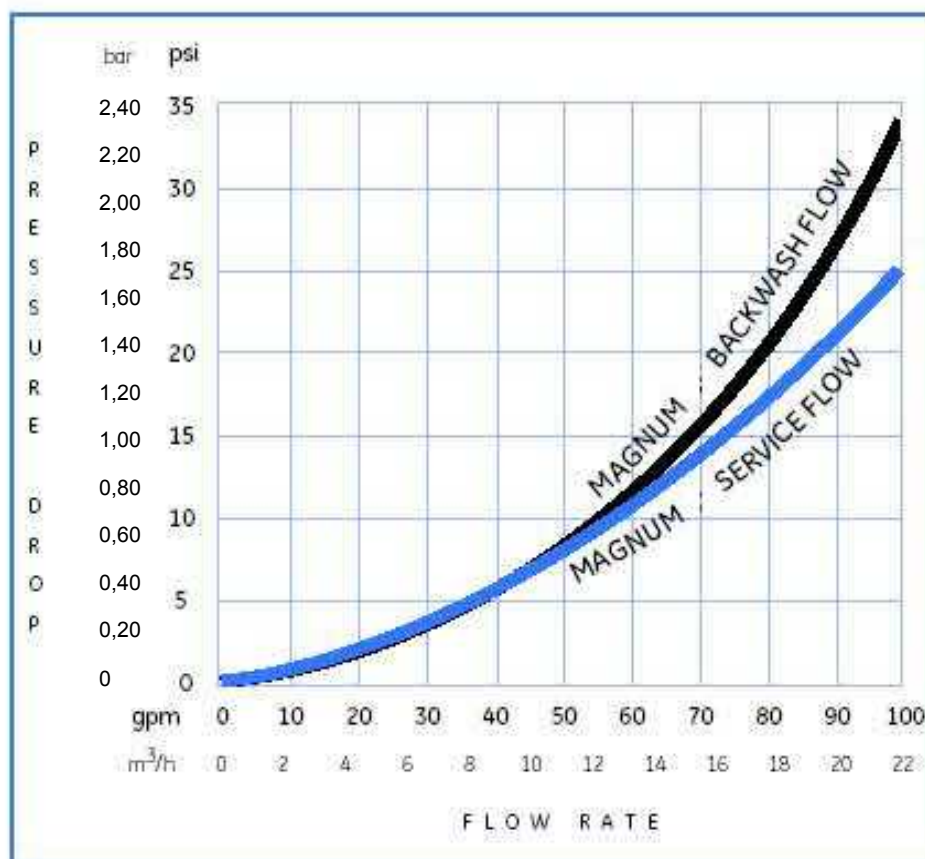
- for automatic and industrial water filtration systems;
- with electronic volumetric 764 F controller (see 01-03-02-EN data sheet);
- for parallel systems up to 6 tanks;
- valve body in NSF listed Noryl plastic material with 304 Stainless Steel tank adapter (for heavy applications, like sea water, the Noryl tank adapter is available on request);
- o-rings in EPDM material;
- operating flow rate for each tank $K_v = 17$;
- backwash flow rate for each tank = 337 lpm @ Δp 1,72 bar;
- with European transformer 12/230V – 50/60 Hz for each valve;
- available with or without by-pass;
- adapters, manifold kit and accessories (e.g. upper screen, etc.) not included, to order separately: see 01-04-04-EN and 01-04-05-EN data sheets;
- PVC 2" side mounting adapter available on demand (REF. CC084, see 01-04-04-EN data sheet);
- interconnection not included.

CHARACTERISTICS

Pressure vessel connection	Threaded 4 " - 8 UN male
Drain line connection	1,5" brass – NPT/BSPT male D50 CPVC to glue
Distributor tube O. D. diameter	1,5 " (= 48,3 mm)
Pilot drain and auxiliary hydraulic out	1/4" tube fitting
Distributor tube length above pressure vessel	16 ± 3 mm
Weight (valve + controller)	12,3 kg

AUTOTROL INDUSTRIAL MAGNUM IT 2" VALVES FOR FILTRATION WITH 764 CONTROLLER WITH MULTITANK SYSTEMS

PRESSURE DROP DIAGRAM



RECOMMENDED OPERATING CONDITIONS

Operating pressure	1,72 ÷ 6,90 bar
Water temperature	1°C ÷ 36°C

MAGNUMATIC SYSTEM FOR “HIGH FLOW” SOFTENING APPLICATIONS



Magnumatic system combines convenience and versatility of Autotrol Magnum multi-way valve, for controlling and programming regeneration sequences in water softening applications, with possibility to couple 2-Way Aquamatic valves 53x Series 2" and 3", that can meet up to 40 m³/h flow rate.

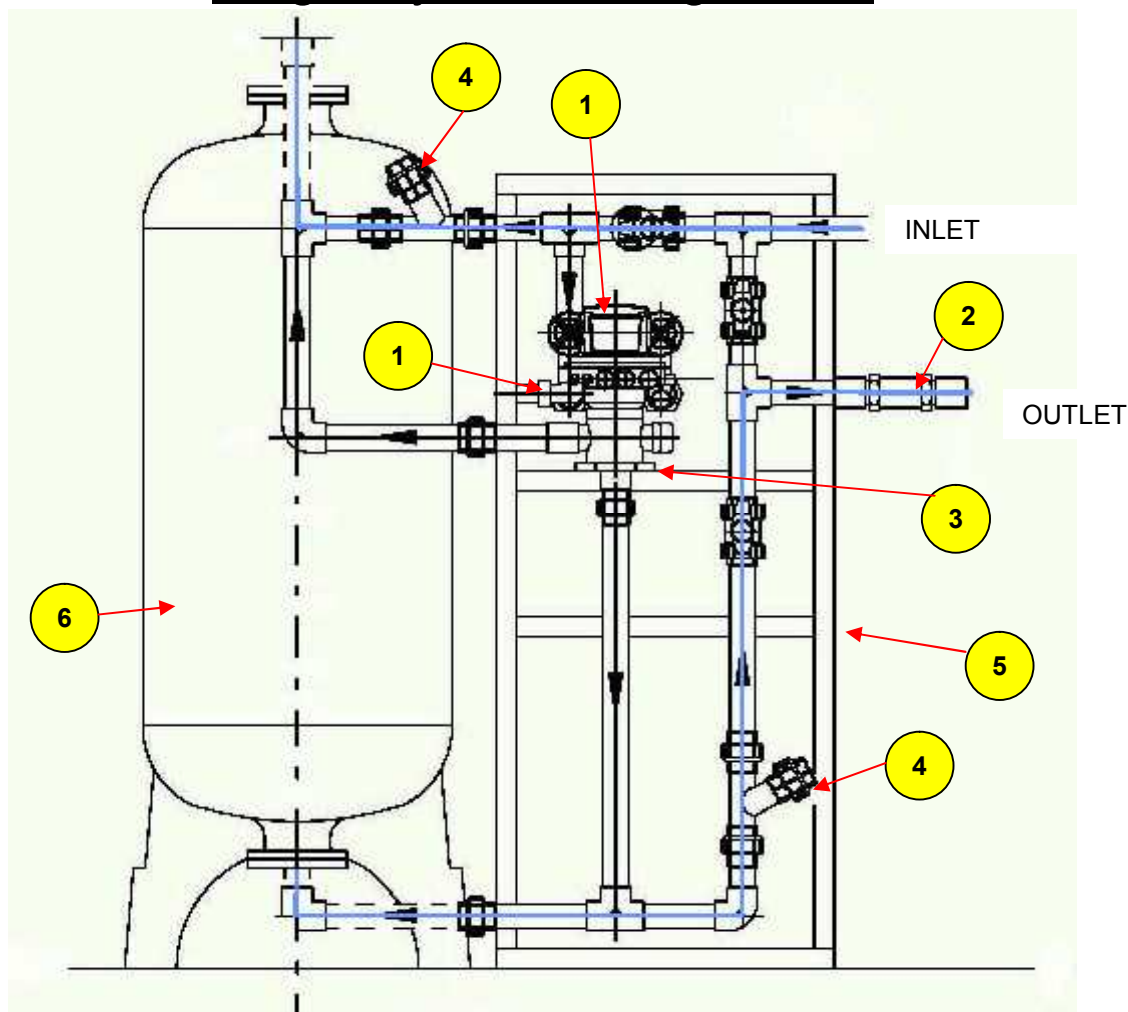
This solution is provided both for single and twin alternating softening applications and it always requires a Magnum side mount installation with a special adapter and relative connections to Aquamatic valves.

On demand we can provide the entire "Magnumatic Piping" PVC made, assembled on AISI 304 self-supporting skid, including manual valves as shown on attached diagrams.

Top and bottom PVC pipe connections in place implementation is charged to the Customer.

MAGNUMATIC SYSTEM FOR “HIGH FLOW” SOFTENING APPLICATIONS

Single System configuration



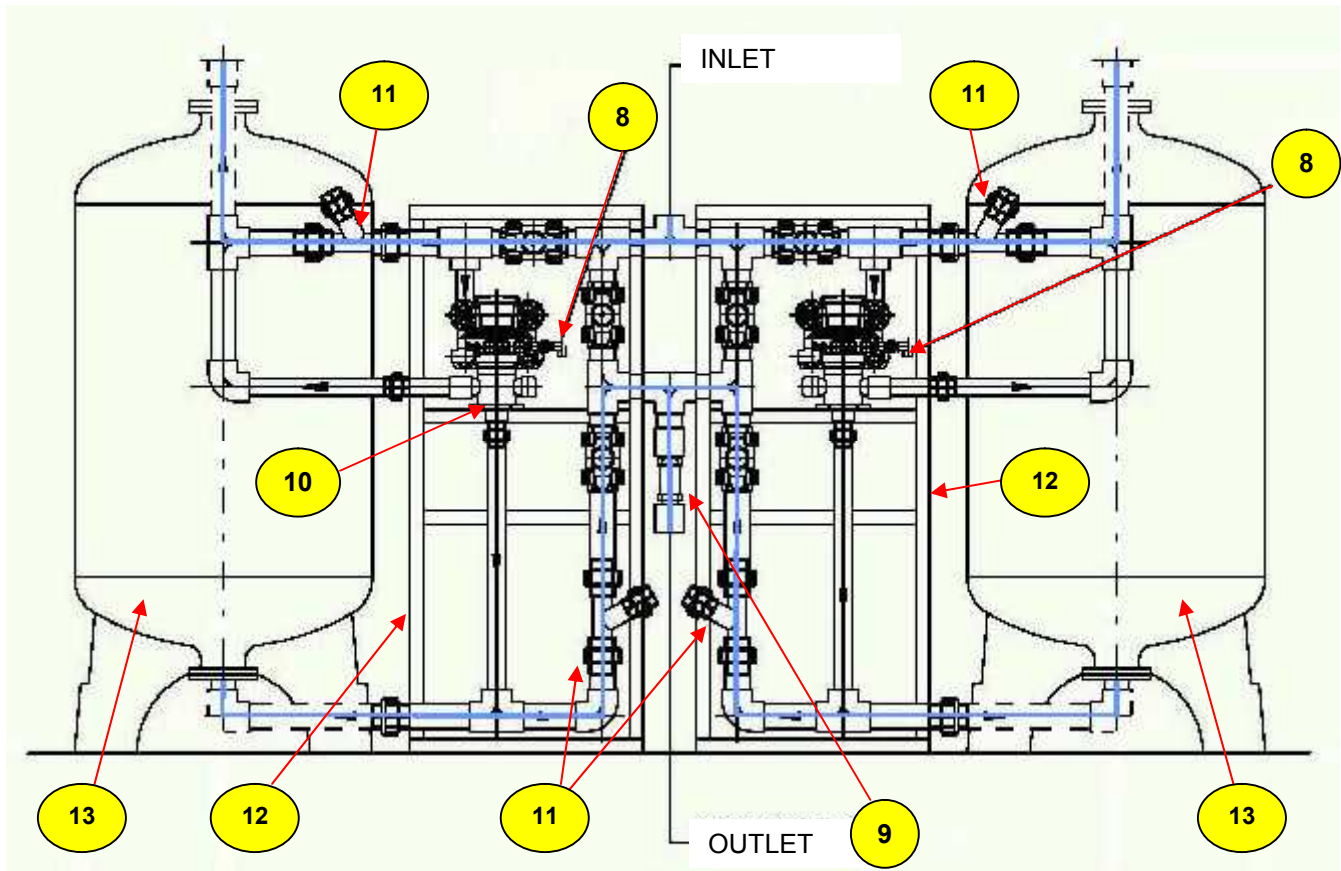
Single System consists of:

Item	Qty	Description
1a	1	742 30" MagnuMatic Valve System
1b	1	742 36" MagnuMatic Valve System
1c	1	742 42" MagnuMatic Valve System
1d	1	762 30" MagnuMatic Valve System
1e	1	762 36" MagnuMatic Valve System
1f	1	762 42" MagnuMatic Valve System
2	1	2" Flow meter
3	1	Side Mount PVC D.63 Adapter
4a	2	PLS K535 Aquamatic Valve
4b	2	PLS K537 Aquamatic Valve

Item	Qty	Description
5a	1	Right or left Single MagnuMatic Piping D.63/535
5b	1	Right or left Single MagnuMatic Piping D.75/535
5c	1	Right or left Single MagnuMatic Piping D.90/537
6a	1	30" Pressure Vessel
6b	1	36" Pressure Vessel
6c	1	42" Pressure Vessel
7a*	1	670 litres Brine Tank for 30" Pressure Vessel
7b*	1	920 litres Brine Tank for 36" and 42" Pressure Vessel

MAGNUMATIC SYSTEM FOR “HIGH FLOW” SOFTENING APPLICATIONS

Duplex System configuration



Duplex System consists of:

Item	Qty	Description
8a	1	764 30" Duplex MagnuMatic Valve System
8b	1	764 36" Duplex MagnuMatic Valve System
8c	1	764 42" Duplex MagnuMatic Valve System
9	1	2" Flow meter
10	2	Side Mount PVC D.63 Adapter
11a	4	PLS K535 Aquamatic Valve
11b	4	PLS K537 Aquamatic Valve
12a	1	Duplex MagnuMatic Piping D.63/535
12b	1	Duplex MagnuMatic Piping D.75/535
12c	1	Duplex MagnuMatic Piping D.90/537
13a	2	30" Pressure Vessel
13b	2	36" Pressure Vessel
13c	2	42" Pressure Vessel
14a*	1	920 litres Brine Tank for 30" Pressure Vessel
14b*	2	670 litres Brine Tank for 30" Pressure Vessel
14c*	2	920 litres Brine Tank for 36" and 42" Pressure Vessel

MAGNUMATIC SYSTEM FOR “HIGH FLOW” SOFTENING APPLICATIONS

Performance table

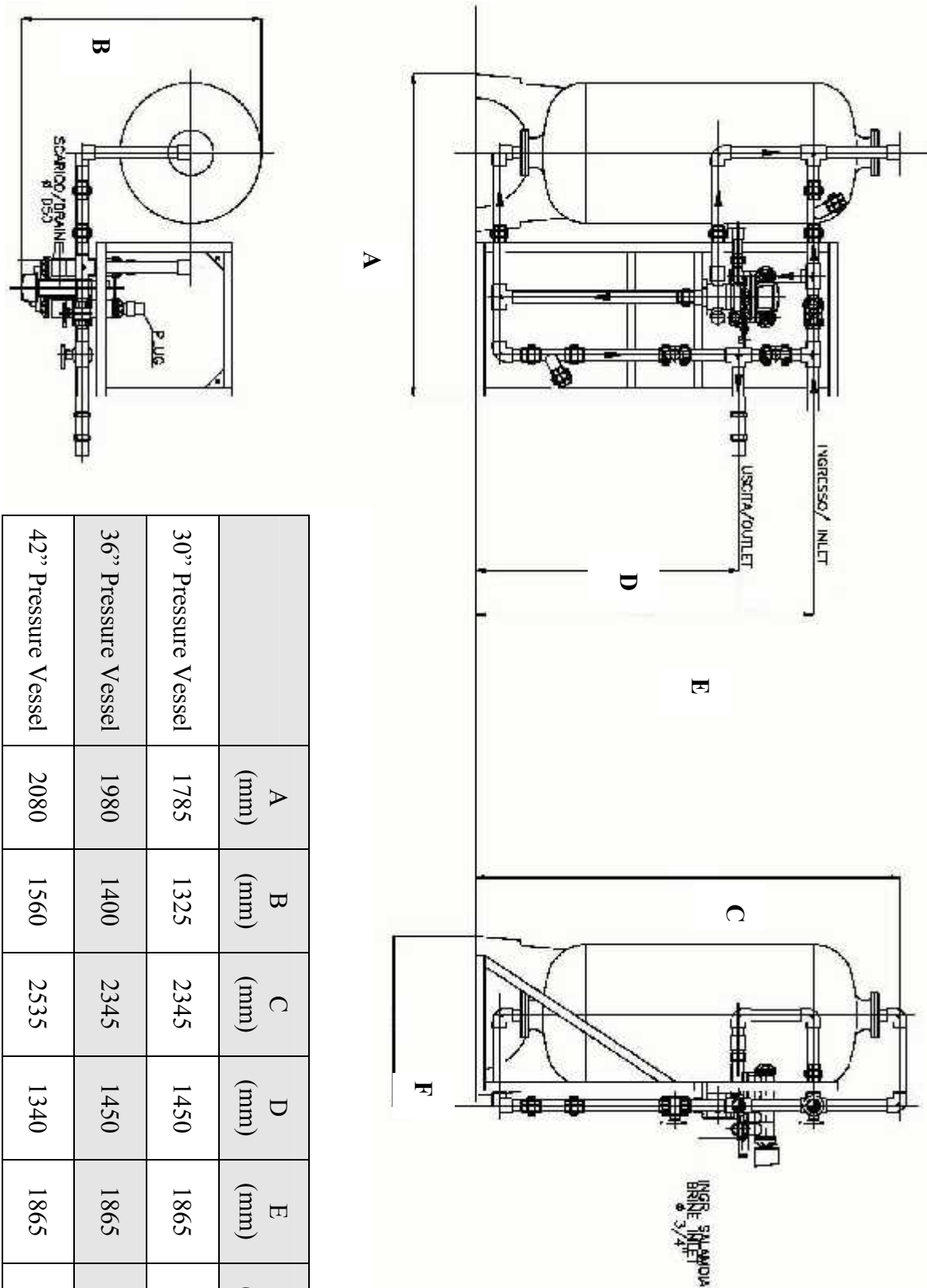
	Resin Volume [litres]	Filter sand and gravel 1,5÷2,4 mm [kg]	Min./Max Flow Rate [m ³ /h]	Cycle [m ³ /°F]	NaCl Consumption [kg]
30” pressure vessel	425	100	10 ÷ 22	2125 ÷ 2465	64 ÷ 85
36” pressure vessel	600	175	15 ÷ 28	3000 ÷ 3480	90 ÷ 120
42” pressure vessel	800	225	22 ÷ 40	4000 ÷ 4640	120 ÷ 160

Piping table

	Aquamatic	Max Flow Rate [m ³ /h]
Piping D.63	K535	22
Piping D.75	K535	28
Piping D.90	K537	40

MAGNUMATIC SYSTEM FOR “HIGH FLOW” SOFTENING APPLICATIONS

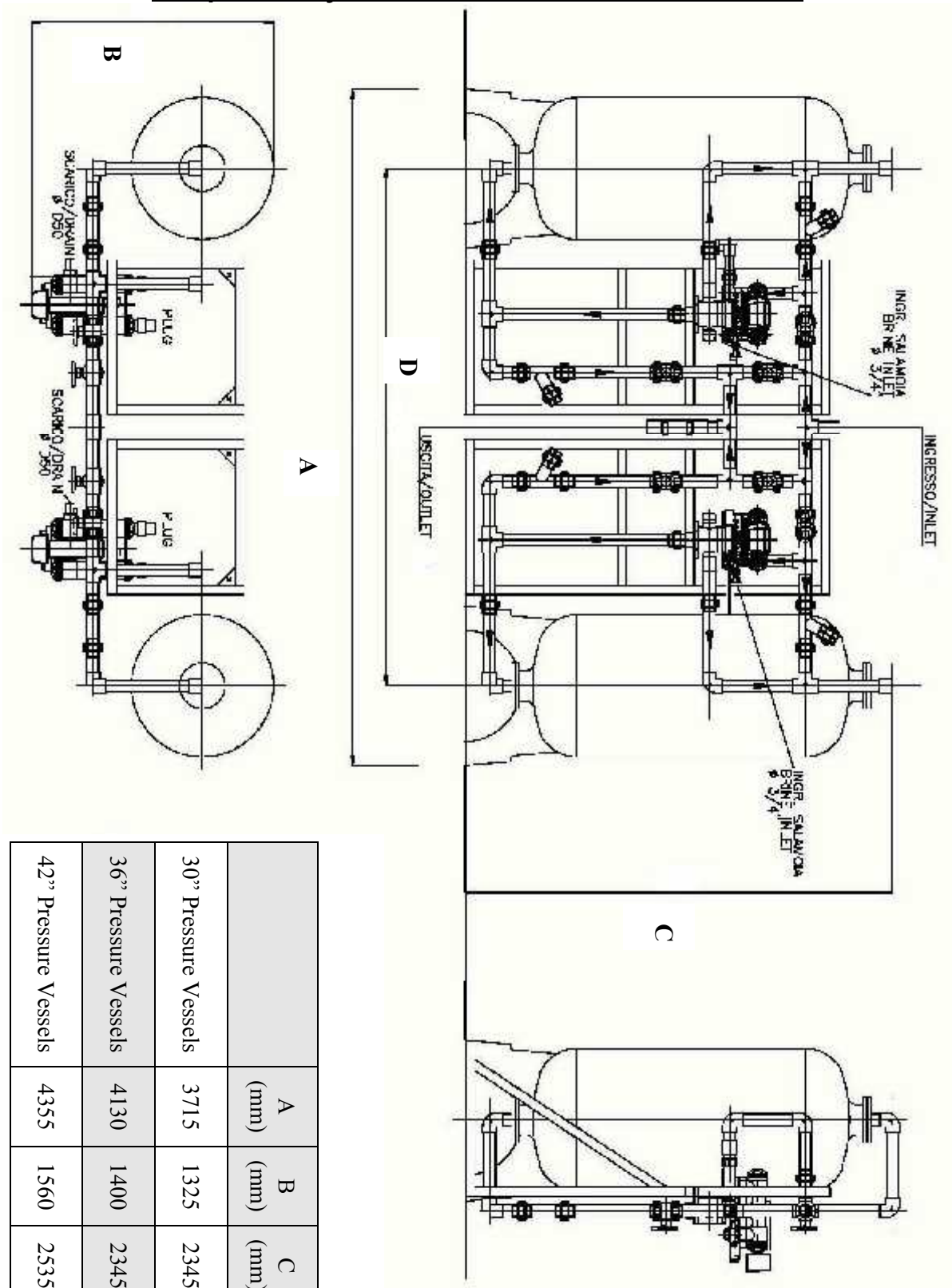
Single System overall dimensions



	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
30" Pressure Vessel	1785	1325	2345	1450	1865	935
36" Pressure Vessel	1980	1400	2345	1450	1865	1010
42" Pressure Vessel	2080	1560	2535	1340	1865	1225

MAGNUMATIC SYSTEM FOR “HIGH FLOW” SOFTENING APPLICATIONS

Duplex System overall dimensions



	A (mm)	B (mm)	C (mm)	D (mm)
30" Pressure Vessels	3715	1325	2345	2845
36" Pressure Vessels	4130	1400	2345	3170
42" Pressure Vessels	4355	1560	2535	3265

SERIES 400 CONTROLLERS FOR AUTOTROL VALVES SERIES 255 - 263 - 268

440i



450i



460i



CONTROLLERS FOR SOFTENERS CHARACTERISTICS

CHARACTERISTIC	440i	450i	460i
Controller type	Electromechanical	Electromechanical	Electronic
Regeneration mode	Chronometric: 7 or 6 days	Pulse	Volumetric
Regeneration frequency	Daily	Daily	Daily
Regeneration cycle length	59' or 119'	119'	59' or 119'
Cycle length	Fixed not modifiable	Fixed not modifiable	Fixed not modifiable
Salt setting	Pounds of salt	Pounds of salt	Pounds of salt

CONTROLLERS FOR FILTRATION CHARACTERISTICS

CHARACTERISTIC	440i	450i
Controller type	Electromechanical	Electromechanical
Backwash mode	Chronometric: 7 or 6 days	Pulse
Backwash frequency	Daily	Daily
Filter cycle length	Fixed not modifiable	Fixed not modifiable

LOGIX CONTROLLERS FOR AUTOTROL VALVES

SERIES 255 – 263 – 268 – 273 – 278 – 293 – 298



CONTROLLERS FOR SOFTENERS CHARACTERISTICS

CHARACT.	740 C	760 C	742 C	762 C	764
Controller type	Electronic	Electronic	Electronic	Electronic	Electronic
Regeneration mode	Chronometric	Volumetric	Chronometric	Volumetric	Volumetric
Regeneration frequency	Fixed day or 0,5 ÷ 99 days calendar override	0,5 ÷ 99 days calendar override	Fixed day or 0,5 ÷ 99 days calendar override	0,5 ÷ 99 days calendar override	0,5 ÷ 99 days calendar override
Adjustable regeneration time	Yes	Yes	Yes	Yes	Yes
Cycle length	Computer calculated	Computer calculated	Fully programmable	Fully programmable	Fully programmable
Salt setting	3 options	3 options	Fully adjustable	Fully adjustable	Fully adjustable

CONTROLLERS FOR FILTRATION CHARACTERISTICS

CHARACT.	740 F	760 F	742 F	762 F	764 F
Controller type	Electronic	Electronic	Electronic	Electronic	Electronic
Backwash mode	Chronometric	Volumetric	Chronometric	Volumetric	Volumetric
Backwash frequency	Fixed day or 0,5 ÷ 99 days calendar override	0,5 ÷ 99 days calendar override	Fixed day or 0,5 ÷ 99 days calendar override	0,5 ÷ 99 days calendar override	0,5 ÷ 99 days calendar override
Adjustable cycle time	Programmable backwash time	Programmable backwash time	Fully programmable	Fully programmable	Fully programmable
Filter cycle length	Computer calculated	Computer calculated	Fully adjustable	Fully adjustable	Fully adjustable

AUTOTROL VALVES SERIES 255 ACCESSORIES

256 BYPASS KITS

- with gaskets, brass adapters, screws and nuts.

REF.	IN/OUT CONNECTION	DRAIN LINE
AV028	¾"	½"
AV029	1"	½"



FEMALE MAINFOLD KITS

- with o-rings, screws and nuts.

REF.	IN/OUT CONNECTION	DRAIN LINE	MATERIAL
AV013	¾"	½"	NORYL
AV010	¾"	⅜"	BRASS
AV011	1"	½"	BRASS



AUTOTROL VALVES SERIES 255 ACCESSORIES

FEMALE MIXING MANIFOLD KITS

- with o-rings, screws and nuts.

REF.	CONNECTIONS IN/OUT	DRAIN LINE	MATERIAL
AV007	3/4"	3/8"	BRASS
AV012	1"	1/2"	BRASS



MALE MANIFOLD KITS

- in plastic material Noryl;
- with o-rings, screws and nuts.



REF.	CONNECTIONS IN/OUT	DRAIN LINE	OPTION
AV001	3/4"	3/4"	WITH TURBINE
AV001A	3/4"	3/4"	WITHOUT TURBINE
AV022	1"	1/2"	WITH TURBINE
AV022A	1"	1/2"	WITHOUT TURBINE

SLIM COVER FOR VALVE 255 LOGIX

- in plastic material.

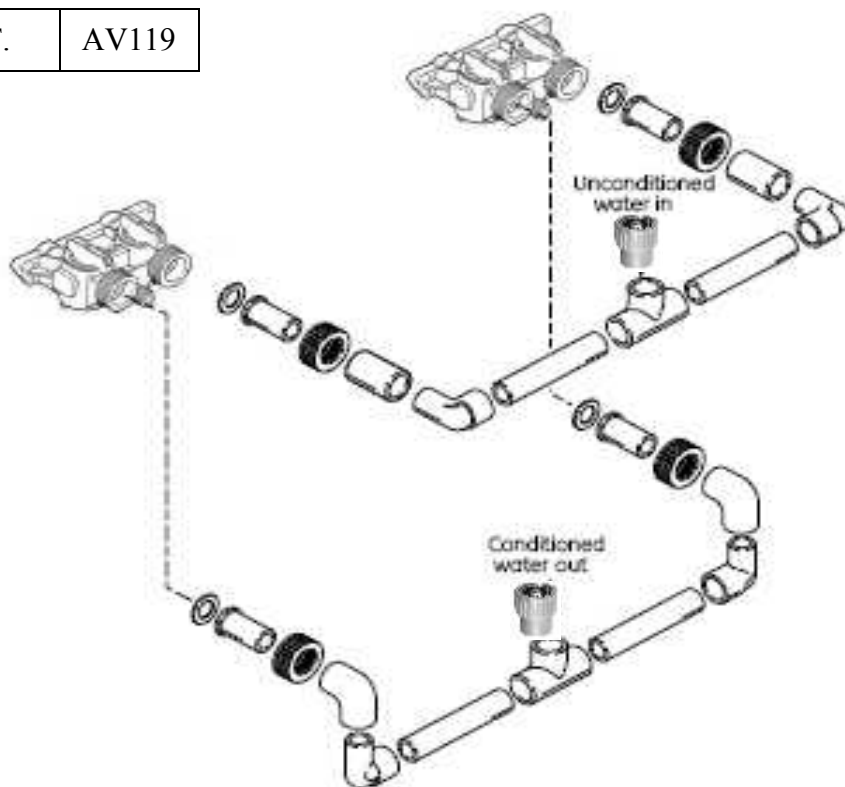
REF.	AW145
------	-------



AUTOTROL VALVES SERIES 255 ACCESSORIES

D. 32 INTERCONNECTION KIT FOR 255/764TWIN RESIDENTIAL DUPLEX SYSTEMS

REF.	AV119
------	-------



- special manifold for AUTOTROL 255 valves included;
- for twin alternating and twin parallel systems;
- consisting of:

QUANTITY	DESCRIPTION
2	Adapter PVC-U D = 32 mm - 1"
2	Tee connection PVC-U D = 32 mm
4	Elbow PVC-U D = 32 mm D1 = 25 mm
4	Tube PVC-U D = 32 mm
2	Elbow D = 32 mm
2	Coupling sleeve D = 32 mm
2	Manifold kit with adapter D. 32 to glue
2	256 by-pass with o-rings, screws and nuts

AUTOTROL VALVES SERIES 263 – 268 – 278 ACCESSORIES

1265 BYPASS KITS

- special manifold for AUTOTROL valves series 263, 268 and 278;
- with gaskets, brass adapters and nuts.

REF.	IN/OUT CONNECTION
AV039	1"
AV040	1 1/4"



MANIFOLD KITS

- special manifold for AUTOTROL valves series 263, 268 and 278;
- with 2 gaskets, 2 adapters and 2 nuts.

REF.	IN/OUT CONNECTION	MATERIAL ADAPTERS
AV030	3/4"	BRASS
AV031	1"	BRASS
AV032	D.32	PVC
AV038	1 1/4"	BRASS

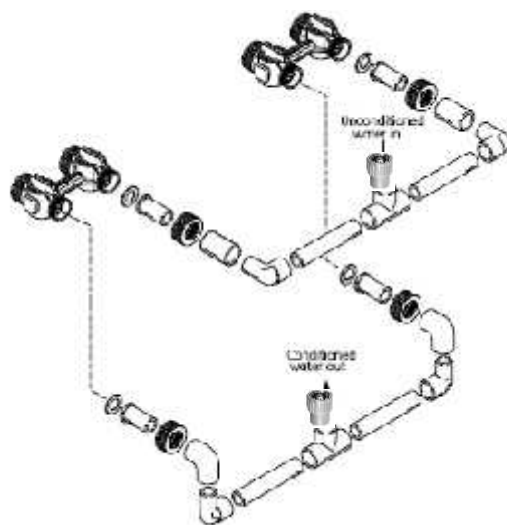


VALVES SERIES 278 ACCESSORIES D. 32 INTERCONNECTION KIT FOR 278/764TWIN RESIDENTIAL DUPLEX SYSTEMS

- special manifold for AUTOTROL 278 valves included;
- for twin alternating and twin parallel systems;
- with IN/OUT connection D.32;
- consisting of:

REF.	AV128
------	-------

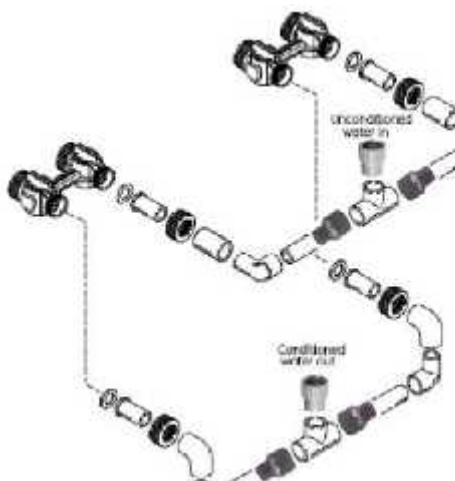
Q.TY	DESCRIPTION
2	Adapter PVC-U D = 32mm - 1"
2	Tee connection PVC-U D = 32 mm
4	Elbow PVC-U D = 32 mm D1 = 25 mm
4	Tube PVC-U D = 32 mm
2	Elbow D = 32 mm
2	Coupling sleeve D = 32 mm
2	Manifold kit with adapter D. 32 to glue
2	1265 by-pass with o-rings, screws and nuts



D. 40 INTERCONNECTION KIT FOR 278/764TWIN RESIDENTIAL DUPLEX SYSTEMS

REF.	AV129
------	-------

- special manifold for AUTOTROL 278 valves included;
- for twin alternating and twin parallel systems;
- with IN/OUT connection D.40;
- consisting of:



Q.TY	DESCRIPTION
2	Adapter PVC-U D = 40mm - 1 1/4"
2	Tee connection PVC-U D = 40 mm
4	Reducing socket PVC-U D = 40 mm D2 = 32 mm
4	Elbow PVC-U D = 32 mm D1 = 25 mm
4	Tube PVC-U D = 32 mm
2	Elbow D = 32 mm
2	Coupling sleeve D = 32 mm
2	Manifold kit with adapter D. 32 to glue
2	1265 by-pass with o-rings, screws and nuts

AUTOTROL VALVES MAGNUM ACCESSORIES

MAGNUM SIDE MOUNTING ADAPTER

REF.	CC084
------	-------

- in PVC material, 2" BSPT.



MANIFOLD KITS

- with 3 nuts, 3 gaskets and 3 adapters.

REF.	IN/OUT CONNECTION	MATERIAL ADAPTER	FOR AUTOTROL VALVE
CC080	1 1/2" BSPT	STAINLESS STEEL	MAGNUM CV 1,5" SERIES
CC081	D.50	PVC	MAGNUM CV 1,5" SERIES
CC082	2" BSPT	STAINLESS STEEL	MAGNUM IT 2" SERIES
CC083	D.63	PVC	MAGNUM IT 2" SERIES

REF.	CC080
------	-------



REF.	CC081
------	-------



REF.	CC082
------	-------



REF.	CC083
------	-------



- kit of nut and screw to install on 255 and 268 valves for blending of hard and softened water;
- insert the nut into the blending valve orifice located near the bypass flapper (fig.1). Insert the screw through the top plate and the nut, and the screw until it touch the bypass flapper (fig. 2);
- tightening the screw will force the bypass flapper open witch will blend hard water into the softened water supply (fig. 3). Loosening the screw will allow the bypass flapper to close reducing the blending;
- test the water and adjust the screw until the desired hardness level is reached.

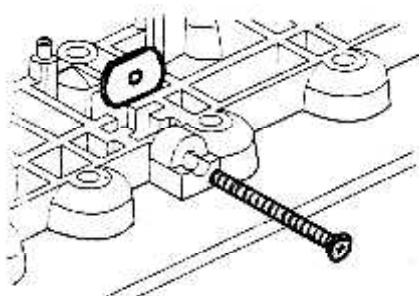


Fig. 1

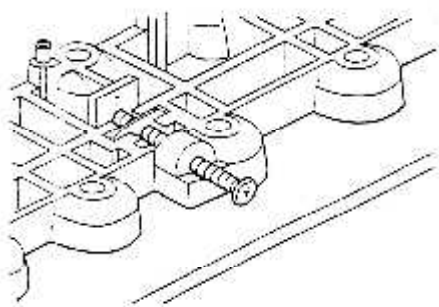


Fig. 2

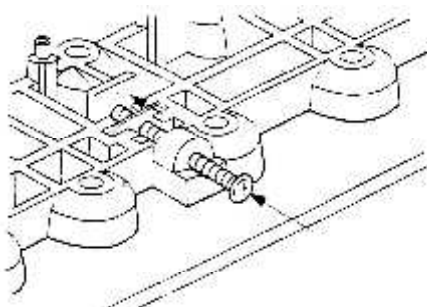


Fig. 3

REF.	DESCRIPTION
AV037	Kit for 255-268 series 700 valve and for 255 series 400 valve
AV043	Kit for 268 series 400 valve

VALVES ACCESSORIES

TWIST LOCK UPPER SCREENS



- in ABS;
- max diameter 60 mm, length 64 mm;
- slots 0,3 mm.

REF.	FOR TUBE (inch)	FOR AUTOTROL VALVE
AV070	$1\frac{3}{16}$ "	255
AV071	1,05"	255, 263, 268

UPPER SCREEN



- upper screen to glue for tube 1,05";
- in ABS;
- diameter max. 60 mm, length 64 mm;
- slots 0,3 mm.

REF.	AV073
------	-------

UPPER SCREENS TO GLUE

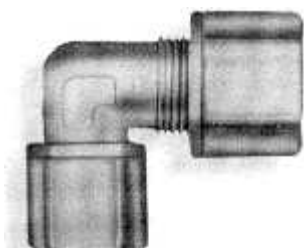


- in ABS;
- diameter 88 mm;
- slots 0,3 mm.

REF.	LENGTH (mm)	FOR TUBE (mm)	FOR AUTOTROL VALVE
CF010	98	41,8 (1 1/4")	180 old model
CF013	98	48,3	180 new model
CC050	150	48,3	Magnum
PV407	150	41,8 (1 1/4")	Adapter 4" – PV402

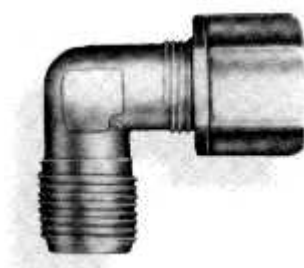
VALVES ACCESSORIES

FITTINGS FOR VALVES



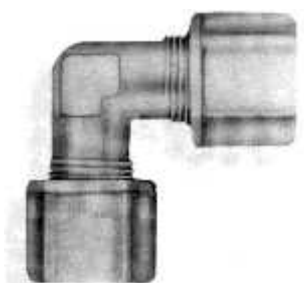
- elbow fittings for $\frac{3}{8}$ " tubing;
- material PP.

REF.	THREADED CONNECTION (inch)	FOR AUTOTROL VALVE
AV150	$\frac{1}{4}$ " F	255
AV154	$\frac{3}{8}$ " F	168 - 268



- elbow fitting for $\frac{3}{8}$ " tubing;
- threaded connection $\frac{1}{4}$ " M;
- material PP;
- for Autotrol valve 155.

REF.	AV151
------	-------

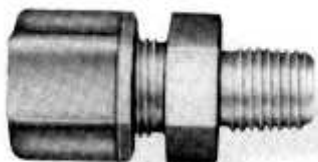


- union elbow for $\frac{3}{8}$ " tubing;
- material PP.

REF.	AV155
------	-------

VALVES ACCESSORIES

FITTINGS FOR VALVES



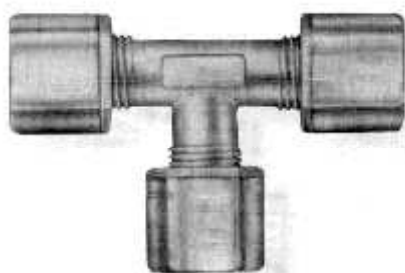
- straight fittings for $\frac{3}{8}$ " tubing;
- material PP.

REF.	THREADED CONNECTION (inch)
AV161	$\frac{1}{8}$ " M
AV152	$\frac{1}{4}$ " M
AV153	$\frac{3}{8}$ " M



- bulkhead union for $\frac{3}{8}$ " tubing;
- material PP.

REF.	AV156
------	-------



- union TEE for $\frac{3}{8}$ " tubing;
- material PP.

REF.	AV158
------	-------