

# AUTOMATIC SINGLE SOFTENER SYSTEMS

In Automatic Multimedia Filter Systems are using FRP tanks.

Control systems are generally Fleck Control Valves. Other brands such as Autotrol or Siata etc. can be used upon request.



AQUALINE RESIN



INDION RESIN



APPLICATION SCHEME

## SINGLE SOFTENER

Water softening process is a typical ion exchange method. Ion exchange is accomplished by passing water having suitable velocity through the resin bed and  $\text{Na}^+$  inside the resin will be exchanged with  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  in the inlet water that cause hardness. After certain amount of time or quantity of water passed through resin media, resin particles are completely covered with hardness minerals. At this time a regeneration step is required to continue softening process. In regeneration step, brine solution will be given over the resin, calcium ( $\text{Ca}^{2+}$ ) and Magnesium ( $\text{Mg}^{2+}$ ) ions leave the resin and sodium ( $\text{Na}^+$ ) ions again combine to resin due to affinity and the resin will be ready for the next service.



## FLECK VALVES



9000



9100



9500



2910



3150



3900

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MODEL	TANK SIZE	SYSTEM CONNECTION	SERVICE FLOW m <sup>3</sup> /hour Max speed = 40m <sup>3</sup> /m <sup>3</sup> -resin.hour	MINERAL RESIN (lt)
FLECK 5600 VOLUMETRIC VALVE (OPEN CABINET)				
SC - 8	8" x 17"	1"	0,32	8
SC - 15	7" x 35"	1"	0,6	15
SC - 20	8" x 35"	1"	0,8	20
SC - 25	9" x 35"	1"	1	25
SC - 30	10" x 35"	1"	1,2	30
FLECK 5600 VOLUMETRIC VALVE (SWAN CABINET)				
SC - 8	8" x 17"	1"	0,32	8
SC - 15	7" x 35"	1"	0,6	15
SC - 20	8" x 35"	1"	0,8	20
SC - 25	9" x 35"	1"	1	25
SC - 30	10" x 35"	1"	1,2	30
FLECK 5600 VOLUMETRIC VALVE				
S - 8	8" x 17"	1"	0,32	8
S - 15	7" x 35"	1"	0,6	15
S - 20	8" x 35"	1"	0,8	20
S - 25	9" x 35"	1"	1	25
S - 30	10" x 35"	1"	1,2	30
S - 50	10" x 54"	1"	2	50
S - 60	12" x 48"	1"	2,4	60
FLECK 7700 VOLUMETRIC VALVE				
S - 50	10" x 54"	1 1/4"	2	50
S - 60	12" x 48"	1 1/4"	2,4	60
S - 80	13" x 54"	1 1/4"	3,2	80
S - 100	14" x 65"	1 1/4"	4	100
S - 150	16" x 65"	1 1/4"	6	150
S - 200	18" x 65"	1 1/4"	6	200
S - 250	21" x 62"	1 1/4"	8	250
S - 300	24" x 72"	1 1/4"	8	300
FLECK 2750 VOLUMETRIC VALVE				
S - 50	10" x 54"	1"	2	50
S - 60	12" x 48"	1"	2,4	60
S - 80	13" x 54"	1"	3,2	80
S - 100	14" x 65"	1"	4	100
S - 150	16" x 65"	1"	5,9	150
S - 200	18" x 65"	1"	5,9	200
S - 250	21" x 62"	1"	5,9	250
S - 300	24" x 72"	1"	5,9	300
FLECK 2850 VOLUMETRIC VALVE				
S - 100	14" x 65"	1 1/2"	4	100
S - 150	16" x 65"	1 1/2"	6	150
S - 200	18" x 65"	1 1/2"	8	200
S - 250	21" x 62"	1 1/2"	10	250
S - 300	24" x 72"	1 1/2"	12	300
S - 500	30" x 72"	1 1/2"	12	500
FLECK 2910 VOLUMETRIC VALVE				
S - 250	21" x 62"	2"	10	250
S - 300	24" x 72"	2"	12	300
S - 500	30" x 72"	2"	20	500
S - 750	36" x 72"	2"	20	750
FLECK 3150 VOLUMETRIC VALVE				
S - 300	24" x 72"	2"	12	300
S - 500	30" x 72"	2"	20	500
S - 750	36" x 72"	2"	24	750
S - 900	42" x 72"	2"	24	900
FLECK 3900 VOLUMETRIC VALVE				
S - 900	42" x 72"	3"	36	900
S - 1200	48" x 72"	3"	48	1200

FRP tank brand is WCY; resin brand is Aqualine. System prices are changeable in case of changing tank, mineral and valve brand.