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- Real counter-current regeneration softener
- Salt saving up to 50%
- Water saving up to 30%
- Reduce secondary pollution of water



# Advantage of Multi-valve System

- Counter-current Regeneration Full Bed Technology The real counter-flow regeneration technology saves water up to 50% and saves salt up to 30%.
- Flow Control Technology

  Adopt flow rate measuring method to precisely measure total water output, increase the utilization efficiency of resin, save water and salt.
- Flexibility to Select Different Processes

  Counter-current softening, co-current softening, sand filtration or activated carbon filtration can be selected flexibly.
- Wide Scope of Applications and High Flow Rate
  Meet various flow rate requirements via changing valve sizes.
- ✓ Professional Control System, Easy Operation Specially designed controllers for softening systems are easy to manage.
- ➤ Easy After-sales Service and Low Cost of Maintenance
  The control is separated from the system, once there is a
  malfunction of the system, just need to change the relevant
  part(s) to repair the control system at site. Professional service
  engineer or return-to-factory repair is not needed.









Specially designed multifunctional controller for softening, filtration and demineralization processes is easy to operate. Pulse signal type flow sensor with very high measuring accuracy (up to ±4%) and very good anti-interference capability.

All plastic double-chamber diaphragm valve with high flow rate and low pressure lose, air or water control, very good corrosion resistant performance could be used in demineralization systems. Use JKC flow controller to control multiple tanks and ensure continuous water output.

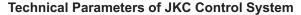
# Multi-valve System

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## **Technical Parameters of JKA Control System**

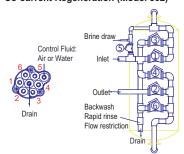
Item	Parameters			
Controller Power Supply Requirements	85-250 V/AC, 50/60 Hz, 4W			
Distributor Power Supply Requirements	110 V/AC 60Hz, 220 V/AC 50Hz			
Pressure of Control Source	2 - 8 bar ( 30-115psi )			
IP Rating	IP65			
Control Fluid of Distributor	Air / Water			
Working Temperature	4 - 60 °C ( 40 - 140 °F)			
Dimensions of Controller Enclosure	290mm×190mm×140mm (11.4"×7.5"×5.5")			



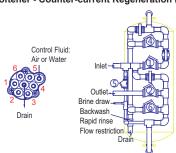
Item	Parameters
Instrument Power Supply Requirements	100 - 265V/AC, 5W
Signal Type	Square wave pulse input
Pulse Signal Voltage	5 - 24 V/DC
IP Rating	IP65
Working Temperature	4 - 60 °C ( 40 - 140 °F )
Dimensions of Controller Enclosure	234mm×163mm×105mm (9.2"×6.4"×4.1")

# **Multi-valve Softening System Application Diagrams**

Softener - Co-current Regeneration (Model 502)



Full Bed Softener - Counter-current Regeneration (Model 511)

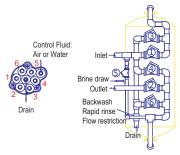




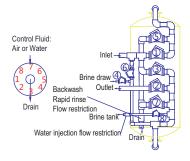
## **JKTT Flow Sensor Technical Parameters**

Item	Parameters			
Power Supply and Output Current	5-24V/DC, ≤20mA Long distance transmission capability			
The Longest Signal Transmission Distance	e 300m			
Impeller Material	PVDF			
Measurement Scope	1-5m/s ( 3.3 - 16.5 ft/s ) Design scope 1-3m/s( 3.3-10 ft/s )			
Pipe Size Range for Optimal Measuremen	nt DN40-DN100 ( 1 1/2" - 4" )			
Measurement Accuracy Grade	±4%			

### Softener - Counter-current Regeneration (Model 505)



Softener - Counter-current Regeneration with Brine Refill (Model 520)

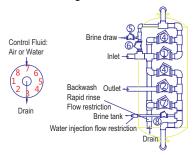


# Multi-valve System

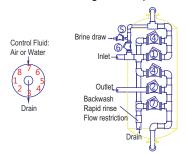
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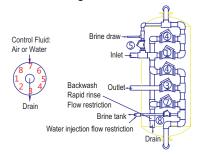
#### Softener - Co-current Regeneration with Brine Refill (Model 524)



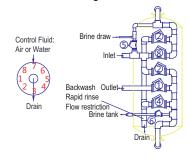
#### Softener - Co-current Regeneration (Model 525)



Softener - Co-current Regeneration with Brine Refill (Model 526)

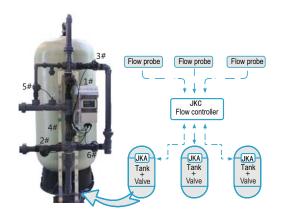


Softener - Co-curent Regeneration with Brine Reclaim (Model 529)



## **Recommended Multi-valve Softenting System Operation Modes**

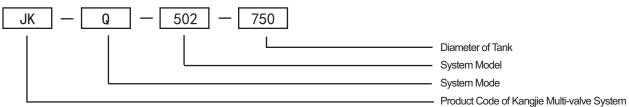
Control Method	System Mode	Tank Quantity	Time Control	Flow Control	Day of Week	Remote Control	Signal Output
Single Tank Softener ( JKA )	Q	1	√	√	<b>√</b>	√	√
Two Tank Alternating Softene ( JKC+Two JKA )	r D2	2	-	√	-	√	√
Two in Service One in Regeneration or Standby ( JKC+Three JKA )	D3	3	-	√	-	V	√
Two Tank Sequential Softene ( JKC+Two JKA )	r E2	2	-	√	-	$\checkmark$	$\checkmark$
Three Tank Sequential Softene ( JKC+Three JKA )	er E3	3	-	√	-	√	√



## Tank for Softening & Recommended Flow Rate

Diameter of Tank [mm (inch)]	750 (30)	900 (36)	1200 (48)	1500 (60)	1800 (72)
Recommended Flow Rate[m³/h(gpm)]	8-12 (35-53)	12-20 (53-88)	20-30 (88-132)	30-50 (132-220)	50-75(220-330)

## **Ordering Guide**



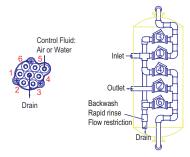
# Multi-valve System

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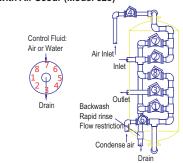


## **Multi-valve Filtration System Application Diagrams**

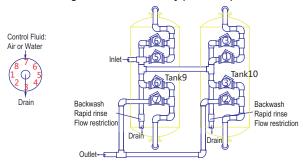
### Filter - Backwash & Rinse (Model 501)



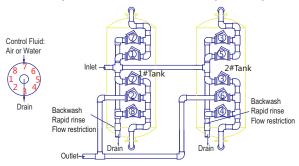
### Filter with Air Scour (Model 528)



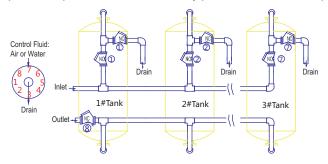
#### Two Tank Alternating Filter - Backwash Only (Model 523)



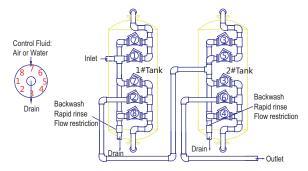
Two Tank Sequential Filter - Backwash & Rinse (Model 527)



#### Multiple Tank Sequential Filter - Backwash Only (Model 506/507/508/530/531)



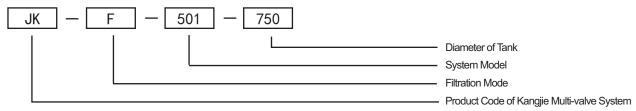
Two Tank in Series Filter - Backwash & Rinse (Model 535)



#### Tank for Filtration & Recommended Flow Rate

Diameter of Tank[mm (inch)]	750 (30)	900 (36)	1200 (48)	1500 (60)	1800 (72)
Recommended Flow Rate[m³/h(gpm)]	5-7 (22-31)	7-10 (31-44)	10-15 (44-66)	15-20 (66-88)	20-30 (88-132)

## **Ordering Guide**



# Multi-valve System