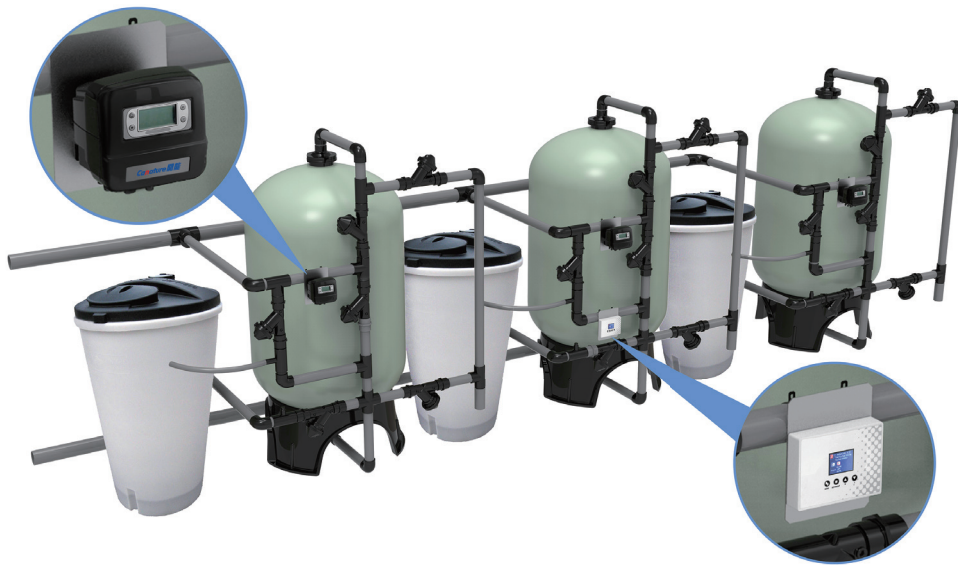


# MVS Multi-valves Control System

MVS stager controller specialized in softener and filter system automatic control for commercial and industrial application, flexible in system design and operation adjustment, free maintenance and troubleshooting, lower cost and competitive especially in larger system more than 2" size.

Meanwhile, MTSC work as a system controller to communicate with several MVS stager controllers between multi tanks, intelligent operate system follow by different mode: Parallel unit, Alternating, Twin Alternating and Parallel Series Regen. An optimum regeneration logic control can make a best system efficiency achievement.

## MVS Triplex System



|                             |       |       |       |      |       |        |
|-----------------------------|-------|-------|-------|------|-------|--------|
| Flow rate m <sup>3</sup> /h | 10~12 | 15~20 | 20~30 | 0~50 | 50~75 | 75~100 |
| Tank Diameter (Φ1)mm        | 750   | 900   | 1200  | 1500 | 1800  | 2000   |
| Brine Tank Diameter(Φ2)mm   | 750   | 1000  | 1200  | 1500 | 1600  | 1800   |
| Tank Height (H)mm           | 2300  | 2550  | 2600  | 2600 | 3900  | 4000   |
| Pipe Size (D)mm             | DN40  | DN50  | DN65  | DN80 | DN100 | DN150  |



MTSC System controller



MVS Stager controller

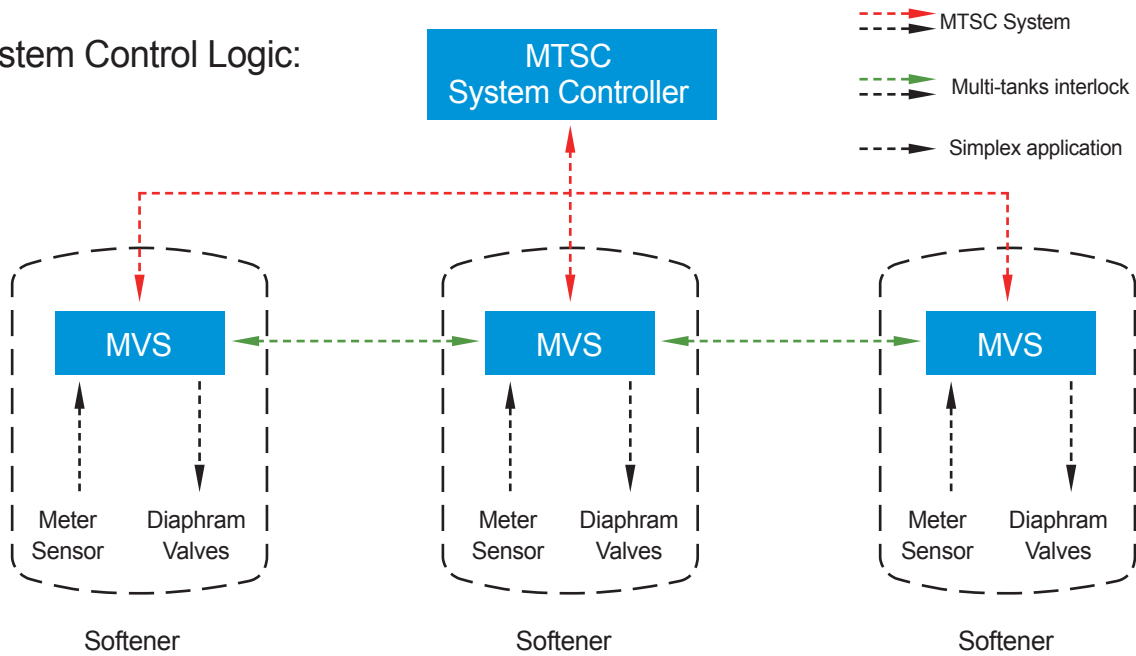


Flow Sensor



Diaphragm Valve

## System Control Logic:



## MVS typical application:

(SV-Service; STY-Standby; BW-Backwash; BR-Brine Draw; SR-Slow Rinse; FR-Fast Rinse; ReF-Refill; B-Rcy-Brine Recycle)

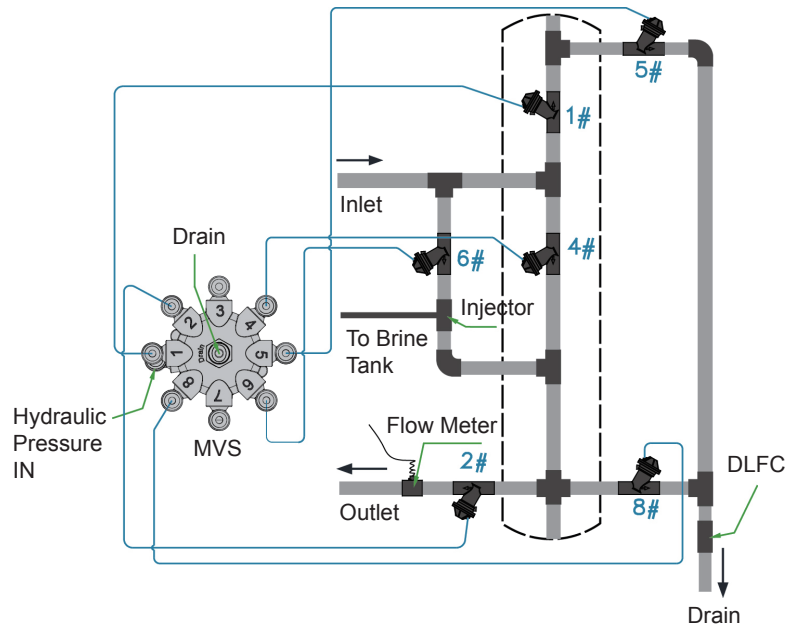
| App                  | Model. | MVS Stager control cycles |      |      |      |       |       |           |
|----------------------|--------|---------------------------|------|------|------|-------|-------|-----------|
| Single Filter        | 501#   | SV                        | BW   |      |      |       |       | FR        |
| Single Softener(DF)  | 502#   | SV                        | STY  |      | BW   |       | BR+SR | FR        |
| Single Softener (UF) | 505#   | SV                        | STY  |      | BW   | BR+SR |       | FR        |
| Multi Filters        | 508#   | SV                        | 1#BW | 2#BW | 3#BW | 4#BW  | 5#BW  | 6#BW 7#BW |

## MVS APPLICATION

- T Mode : Single Tank Timer Control ( MVS )
- Q Mode: Single Tank Meter Control ( MVS )
- C3 Mode: Triplex Tanks alternative locking ( MVS×3 )
- TA Mode: Twin Tanks meter control, one service one standby ( MTSC+MVS×2 )
- D3 Mode: Triplex tanks meter control, two service one standby. ( MTSC+MVS×3 )
- F2 Mode: Twin tanks meter control, same time service, regeneration one by one ( MTSC+MVS×2 )
- E3 Mode: Triplex tanks meter control, same time service, separate regeneration. ( MTSC+MVS×3 )

Single tank Flow rate

| MVS505:Up Flow Regen.Softener |             |       |
|-------------------------------|-------------|-------|
| Position                      | Cycle       | Open  |
| A                             | Service     | 1#、2# |
| B                             | Standby     | 2#    |
| C                             |             |       |
| D                             | Backwash    | 4#、5# |
| E                             | Brine+Rinse | 5#、6# |
| F                             |             |       |
| G                             |             |       |
| H                             | Fast Rinse  | 1#、8# |



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