

Stager Controller data sheet	REF.	DATE
	MSC-500S	12-Nov-12

Stager Controller Function

- Password setting
- Calendar
- Regeneration stage and Regeneration time indication
- Can be initiated manually or through remote control. timer initiation and interval initiation.



Stager Controller available

- Manual step by step initiation (only for system commissioning)
- Reset Function
- Stages (1-8) and stage duration (5-9999Sec) settings
- System working stage indication (service or regeneration stage indication)
- Data Protection after power cut. Setting and data can be stored for 3 years
- Waterproof and ratproof enclosure

Stager Controller working principle

The stager may be manually operated or driven by an electric motor that operated through an adjustable timer or flowmeter program. The stager functions by opening and closing its ports. Singly or combination in a sequence that fit the need of the system. The positions in the sequence correspond to the number of stager in the process. The port that are opened allow the pressurized fluid to flow to and operate some diaphragm valves. while venting other valves - allowing them to return to their normal positions.



The stagers can use either hydraulic or penumatic control fluid. Continuous electrical power is not required to maintain the positions of the valves such as in a solenoid operated system. Greatly avoid avoid the system breakdown because of power failiure.

All types of complex application can be controlled by stager controller system through correct design and combination of the stagers.

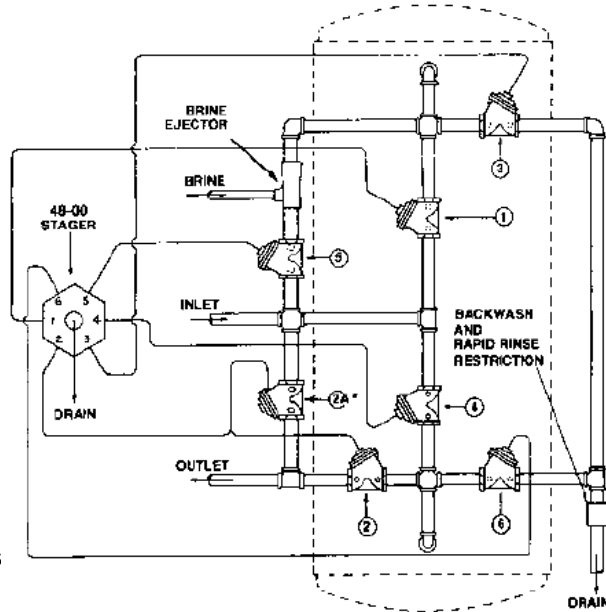
Stageer Controller specifications

- Automatic restoration function
- Waterproof enclosure (waterproof and shockproof)
- Power supply : 220VAC/50Hz
- Timer initiaion setting : any time of the day 7 days one week
- 8 stages available with duration with duration from 5 to 9999 seconds for each stage
- Manually initiation
- Service / regeneration light indication
- Auxillary signal output

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Next is Typical Circuit Application for the stager controller for softener function

Stager position	4	Service
Valves Open	1,2	
Stager position	1	Backwash
Valves Open	3,4 (2A)	
Stager position	2	Brine
Valves Open	5,2 (2A)	
Stager position	3	Fast Rinse
Valves Open	6,1 (2A)	



Stager Controller Technical figures

- Electrical Supply 220 VAC/50Hz, 10W
- Remote control signal : at least 2 seconds / dry contr.
- Pressure port size : 1/8" G thread
- Control Fluid : hydraulic or pneumatic (100 micro filter is recommended for system)
- Control fluid pressure : 0.2 - 0.8 Mpa
- Temperature 4-60 C
- Enclosure size : 270 mm x 170 mm x 105 mm

Stager Controller applications:

Application	ID	Stage program
Filter	501	Service - Backwash - Rinse
Co-current regeneration softener	502	Service - Backwash - Brine + slow wash - Rinse
Filter	503	Service - Backwash
Counter - current regeneration softener	505	Service - Backwash - Brine + slow wash - Rinse
3 Tanks filter	506	Service - 1#Backwash - 2#Backwash - 3#Backwash
4 Tanks Filter	507	Service - 1#Backwash ----- 4#Backwash
5 Tanks Filter	508	Service - 1#Backwash ----- 5#Backwash
2 tanks filter (1 service / 1 stand bye)	523	1#Service - 1#Backwash - 2#Service - 2#Backwash
Co-current regeneration softener	524	Service- Backwash- Brine- slow wash - rinse - refill
Co-current regeneration softener	525	Service- Backwash- Brine- slow wash - rinse
Co-current regeneration softener	526	Service- Backwash- Brine - rinse - refill
2 tanks parallel filter	527	Service - Backwash1 - rinse 1 - backwash2 - rinse 2
Filter	528	Service - drain - air flush - backwash - rinse