

- Rigid valve body made from Noryl®
- Patented unique appearance design
- Tested and Certified by NSF/ANSI Standard 44
- Tested and Certified by SGS-ROHS
- Tested and Certified by SGS-CE
- Complete sealing design
- Precision piston-seal-spacer assembly
- Low annual power consumption
- Full series DLFC/BLFC/Injector module





■ Full series DLFC/BLFC/Injector module



■ Straight or elbow drainage connector options



■ Other front cover options



■ Mix valve option



■ Plastic bypass option



- Precision piston-seal-spacer assembly
- Excellent gliding characteristics
- Hydraulically balanced
- Full series piston options

Model	
C-STC	C series Mechanical Softener Timer Control Valve
C-SMM	C series Mechanical Softener Meter Control Valve
C-FTC	C series Mechanical Filter Timer Control Valve
C-FMM	C series Mechanical Filter Meter Control Valve

Specification		
Flow Rate(50PSI/3.5bar)		
Valve Alone		
Continuous(15PSI/1bar Drop)	20GPM/76LPM	
Peak(25PSI/1.7bar Drop)	26GPM/98LPM	
Max Backwash(25PSI/1.7bar Drop)	7GPM/26LPM	
CV(1PSI/0.07bar Drop)	5.0	
Softener(15PSI/1bar Drop)		
8x44 0.75CF/21L resin	9.6GPM/36.5LPM	
9x48 1.0CF/29L resin	11.5GPM/43.5LPM	
10x54 1.5CF/43L resin	11.8GPM/44.5LPM	
12x48 2.0CF/57L resin	12.8GPM/48.5LPM	

Regeneration	
Downflow/Upflow	Downflow
Cycles	7
Adjustable cycles	Brine
Time available	180 Minutes
Flow Meter	
Accuracy range	0.25-15GPM/0.95-57LPM ± 5%
Capacity range	Standard: 125-2100Gallon/0.5m ³ -8m ³
	Extended: 625-10800Gallon/2.4m ³ -40m ³
Mounting & Shipping	
Inlet/Outlet	1" or 3/4" , NPT or BSP
Base	2-1/2" 8 NPSM
Distriutor pilot	1.05" OD
Drain line	1/2" ID
Brine line	3/8" OD
Height from top of tank	7.8"/198mm
Weight (single valve gross)	Time 2.7KG / Meter 2.9KG
Working	
Electrical rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	3VA
Water pressure	Hydrostatic: 300PSI/20bar
	Working: 20 - 120PSI / 1.4bar - 8bar
Temperature	1-43°C/34-110°F



F21 Mechanical Valve	
F21-STC	F21 Softener Timer
F21-SMM	F21 Softener Meter
F21-FTC	F21 Filter Timer
F21-FMM	F21 Filter Meter

F21

- Solid lead-free brass valve body for superior strength and durability
- NHWB piston option
- Time-tested hydraulically balanced piston, seal and spacer design
- Flanged valve body design for convenient maintainen

F21 Specifications		
Flow Rate (50PSI/3.5bar, Valve alone)		
Continuous (15PSI/1bar drop)	51GPM/193LPM	
Peak (25PSI/1.7bar drop)	66GPM/250LPM	
Max. Backwash (25PSI/1.7bar drop)	49GPM/185LPM	
CV (1PSI/0.07bar drop)	13.2	
Regeneration		
Downflow/Upflow	Downflow only	
Cycles	5	
Adjustable cycles	Mechanical	NXT
	All	All
Time available	164Minutes	0-999Minutes/Cycle
Meter		
	Mechanical	NXT
Accuracy	1.5-75GPM/5.7-284LPM ± 5%	
Capacity Range	Standard 625-10,125Gallon/2.5 - 40m ³	0-999,999,999
	Extended 3,125-53,125Gallon/12-200m ³	
Mounting & Shipping		
Inlet/Outlet	1-1/2"NPT	
Base	4" - 8 UN	
Distributor Pilot	1.96" OD	
Drain Line	1" NPT	
Brine Line	1/2" OD	
Height from top of tank	7-1/2"/190mm	
Weight (single valve gross)	Timer 10KG/Meter 12.5KG	
Working		
Electrical rating	220V, 110V, 24V - 50Hz, 60Hz	
Max. VA	74VA	
Pressure	Hydrostatic: 300PSI/20bar	
	Working: 20-120PSI/1.4-8bar	
Temperature	1-43°C / 34-110°F	



F31 Mechanical Valve	
F31-STC	F31 Softener Timer
F31-SMM	F31 Softener Meter
F31-FTC	F31 Filter Timer
F31-FMM	F31 Filter Meter

F31

- Incorporates 2 time-tested, hydraulically-balanced piston, seals and spacers
- For use with single or multiple tank systems
- Continuous flow rate of 106GPM
- Solid lead-free brass valve body for superior strength and durability
- NHWB piston option



F31 Specifications		
Flow Rate (50PSI/3.5bar, Valve alone)		
Continuous (15PSI/1bar drop)	106GPM/401LPM	
Peak (25PSI/1.7bar drop)	140GPM/530LPM	
Max. Backwash (25PSI/1.7bar drop)	25GPM/95LPM	
CV (1PSI/0.07bar drop)	27.5	
Regeneration		
Downflow/Upflow	Downflow or Upflow	
Cycles	5	
Adjustable cycles	Mechanical	NXT
	All	All
Time available	164Minutes	0-999Minutes/Cycle
Meter		
	Mechanical	NXT
Accuracy	3-150GPM/11.5-568LPM ± 5%	
Capacity Range	Standard 1,250-21,250Gallon/4.8 - 40m ³	0-999,999,999
	Extended 6,250-106,250Gallon/24-400m ³	
Mounting & Shipping		
Inlet/Outlet	2" NPT	
Base	4" 8 UN	
Distributor Pilot	1.96" OD	
Drain Line	3/4" NPT	
Brine Line	1/2" OD	
Height from top of tank	11.5"/290mm	
Weight (single valve gross)	Timer 16KG/Meter 19KG	
Working		
Electrical rating	220V, 110V, 24V - 50Hz, 60Hz	
Max. VA	74VA	
Pressure	Hydrostatic: 300PSI/20bar	
	Working: 20-120PSI/1.4-8bar	
Temperature	1-43°C / 34-110°F	

F41 Mechanical Valve	
F41-STC	F41 Softener Timer
F41-SMM	F41 Softener Meter
F41-FTC	F41 Filter Timer
F41-FMM	F41 Filter Meter

F41

- Fully adjustable 5-cycle controlled upflow backwash, downflow brining and slow rinse, rapid rinse, timed brine refill and downflow service.
- Solid lead-free brass valve body for superior strength and durability
- Time-tested hydraulically balanced piston, seal and spacer design
- Ideal for filter applications
- NHWB piston option

F41 Specifications		
Flow Rate (50PSI/3.5bar, Valve alone)		
Continuous (15PSI/1bar drop)	95GPM/360LPM	
Peak (25PSI/1.7bar drop)	124GPM/470LPM	
Max. Backwash (25PSI/1.7bar drop)	105GPM/398LPM	
CV (1PSI/0.07bar drop)	24.8	
Regeneration		
Downflow/Upflow	Downflow or Upflow	
Cycles	5	
Adjustable cycles	Mechanical	NXT
	All	All
Time available	164Minutes	0-999Minutes/Cycle
Meter		
	Mechanical	NXT
Accuracy	3-150GPM/11.5-568LPM ± 5%	
Capacity Range	Standard 1,250-21,250Gallon/4.8 - 40m ³	0-999,999,999
	Extended 6,250-106,250Gallon/24-400m ³	
Mounting & Shipping		
Inlet/Outlet	2" NPT	
Base	4" 8 UN	
Distributor Pilot	2.49" OD	
Drain Line	2" NPT	
Brine Line	1" NPT	
Height from top of tank	10"/254mm	
Weight (single valve gross)	Timer 19KG/Meter 22KG	
Working		
Electrical rating	220V, 110V, 24V - 50Hz, 60Hz	
Max. VA	85VA	
Pressure	Hydrostatic: 300PSI/20bar	
	Working: 20-120PSI/1.4-8bar	
Temperature	1-43°C / 34-110°F	



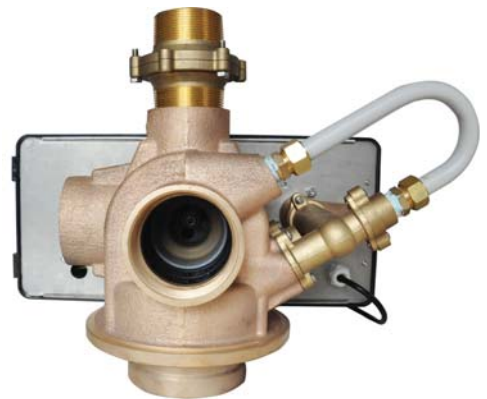
F41

F51 Mechanical Valve	
F51-STC	F51 Softener Timer
F51-SMM	F51 Softener Meter
F51-FTC	F51 Filter Timer
F51-FMM	F51 Filter Meter

F51

- Big backwash up to 35T/H
- Fully adjustable 5-cycle controlled upflow backwash, downflow brining and slow rinse, rapid rinse, timed brine refill and downflow service.
- Solid lead-free brass valve body for superior strength and durability
- Time-tested hydraulically balanced piston, seal and spacer design
- Ideal for filter applications
- NHWB piston option

F51 Specifications		
Flow Rate (50PSI/3.5bar, Valve alone)		
Continuous (15PSI/1bar drop)	160GPM/610LPM	
Peak (25PSI/1.7bar drop)	210GPM/800LPM	
Max. Backwash (25PSI/1.7bar drop)	160GPM/610LPM	
CV (1PSI/0.07bar drop)	42.0	
Regeneration		
Downflow/Upflow	Downflow or Upflow	
Cycles	5	
Adjustable cycles	Mechanical	NXT
	All	All
Time available	164Minutes	0-999Minutes/Cycle
Meter		
Mechanical	NXT	
Accuracy	5-260GPM/19-985LPM ± 5%	
Capacity Range	Standard 1,250-26,450Gallon/5 - 100m ³	0-999,999,999
	Extended 6,250-132,100Gallon/25-500m ³	
Mounting & Shipping		
Inlet/Outlet	2.5" BSPT	
Base	4"-8 UN	
Distributor Pilot	3.5" OD	
Drain Line	2" BSPT	
Brine Line	1" BSPT	
Height from top of tank	10.5"/265mm	
Weight (single valve gross)	Timer 22KG/Meter 25KG	
Working		
Electrical rating	220V, 110V, 24V - 50Hz, 60Hz	
Max. VA	171VA	
Pressure	Hydrostatic: 300PSI/20bar	
	Working: 20-120PSI/1.4-8bar	
Temperature	1-43°C / 34-110°F	



F61 Mechanical Valve

F61-STC	F61 Softener Timer
F61-SMM	F61 Softener Meter
F61-FTC	F61 Filter Timer
F61-FMM	F61 Filter Meter

F61

- Fully adjustable 5-cycle controlled upflow backwash, downflow brining and slow rinse, rapid rinse, timed brine refill and downflow service.
- Solid lead-free brass valve body for superior strength and durability
- Time-tested hydraulically balanced piston, seal and spacer design
- NHWB piston option



F61 Specifications

Flow Rate (50PSI/3.5bar, Valve alone)		
Continuous (15PSI/1bar drop)	250GPM/950LPM	
Peak (25PSI/1.7bar drop)	325GPM/1230LPM	
Max. Backwash (25PSI/1.7bar drop)	100GPM/380LPM	
CV (1PSI/0.07bar drop)	65.0	
Regeneration		
Downflow/Upflow	Downflow or Upflow	
Cycles	5	
Adjustable cycles	Mechanical	NXT
	All	All
Time available	164Minutes	0-999Minutes/Cycle
Meter		
	Mechanical	NXT
Accuracy	7-300GPM/26.5-1,135LPM ± 5%	
Capacity Range	Standard 3,750-63,750Gallon/14 - 204m ³	0-999,999,999
	Extended 18,750-318,250Gallon/70-1200m ³	
Mounting & Shipping		
Inlet/Outlet	3"BSPT	
Base	Flanged	
Distributor Pilot	3.5" OD	
Drain Line	2" NPT	
Brine Line	1" NPT	
Height from top of tank	15.3"/390mm	
Weight (single valve gross)	Timer 43KG/Meter 55KG	
Working		
Electrical rating	220V, 110V, 24V - 50Hz, 60Hz	
Max. VA	171VA	
Pressure	Hydrostatic: 300PSI/20bar	
	Working: 20-120PSI/1.4-8bar	
Temperature	1-43°C / 34-110°F	

