CONTROL VALVES



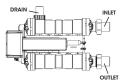
AUTOTROL MAGNUM IT COMMERCIAL SOFTENER VALVES







Top View (FOR REF. ONLY)



Magnum IT Top View



Magnum IT 764
Twin Alternating

configuration available.

Top mount or side mount

Optional

Valve Connections

Brine Line 3/4 inch NPT

Pilot Drain & Aux

(AI) = UA-3023732

(AI) = UA-3023736

Hydraulic Output 1/4 inch tube fitting

Flow Rates (Valve Only)

 Service @ 15 psi (1.03 bar) drop
 76 gpm (17.3 m³/hr)

 Backwash @ 25 psi (1.72 bar) drop
 89 gpm (20.2 m³/hr)

 Service
 Cv = 19.5 (Kv = 17)

 Backwash
 Cv = 17.8 (Kv = 19.9)

Design Specifications

Softener Control Valves

Configuration Matrix	Description	Regen. Cycle	Valve I/O Size	Riser Pilot	Approx. Ship.Wt.
MI74S-(BP)(IN)(BW)(AI)	Magnum IT 742 Electronic Time Clock Control	7 or 99 Day*	1.5" or 2"	1.5"	28 lbs.
MI76S-(BP)(IN)(BW)(AI)	Magnum IT 764 Electronic Metered Control SIngle Tank or Multi-Single Lockout Capable Recommended max. 4 units linked with UA-3020228	Demand	1.5" or 2"	1.5"	28 lbs.
UA-3020228	Lockout Cable - one less required than units linked	_	_	_	_
MI76TS-N(IN)(BW)(AI)	Magnum IT 764MS Twin Valves with Alternating or Parallel Master and Slave Controls with Lockout Cable, No Untreated Water Bypass	Demand	1.5" or 2"	1.5"	57 lbs.

Pilot feed adapter for low pressure applications (< 25 PSI) available. (P/N: UA-1040668) 50 Hz available.

^{* &}quot;7 Day" denotes day of the week; "99 Day" denotes number of days between regenerations (1-99 days)

ncluded Softener Control Valve Options				
Option Code (x)	Description			
Must choose from the following bypass options for all softener valves with 742 & 764 controllers				
(BP) = H	Untreated Water Bypass (Not available for 764MS Twin Valve Controls)			
(BP) = N	No Untreated Water Bypass (Required for 764MS Twin Valve Controls)			
Must choose from the foll	lowing injector size options for <u>all</u> softener valve configurations			
(IN) = 14, 16, 18, 21, 24, 30, 36	Injector Nozzle: Value = Tank Diameter (Softener Applications Only)			
Must choose from the foll	lowing backwash options for <u>all</u> softener valve configurations			
(BW) = 05 to 40	Internal Backwash Flow Control: 5 gpm to 40 gpm (Increments of 1 gpm)			
(BW) = 41 to 89	External Backwash Flow Control: Up to 89 gpm @ 25 psid (Increments of 1 gpm)			
Must choose from the following plumbing adapter kit options for all Magnum IT softener valve configurations				
(AI) = UA-3023849	(2) 2" S.S. NPT Adapter w/ Zinc Diecast Nut, (1) 1.5" S.S. NPT Adapter w/ Glass Filled Noryl Nut			
(AI) = UA-3023674	(2) 2" S.S. BSP Adapter w/ Zinc Diecast Nut, (1) 1.5" S.S. BSP Adapter w/ Glass Filled Noryl Nut			
(AI) = UA-1040784	(2) 2" CPVC Spigot Adapter w/ Zinc Diecast Nut, (1) 1.5" CPVC Spigot Adapter w/ Glass Filled Noryl Nut			

Water Quality.

1.5" S.S. NPT Reducer w/ Zinc Diecast Nut, (3) 1.5" S.S. NPT Adapter w/ Glass Filled Noryl Nut

1.5" S.S. BSP Reducer w/ Zinc Diecast Nut, (3) 1.5" S.S. BSP Adapter w/ Glass Filled Noryl Nut

CONTROL VALVES



AUTOTROL MAGNUM IT COMMERCIAL FILTER VALVES

Filter Control Valves

Configuration Matrix	Description	Regen. Cycle	Valve I/O Size	Riser Pilot	Approx. Ship.Wt.
MI74F-(BP)(BW)(AI)	Magnum IT 742F Electronic Time Clock Control	7 or 99 Day*	1.5" or 2"	1.5"	28 lbs.
MI76F-(BP)(BW)(AI)	Magnum IT 764F Electronic Metered Control SIngle Tank or Multi-Single Lockout Capable Recommended max. 4 units linked with UA-3020228	Demand	1.5" or 2"	1.5"	28 lbs.
UA-3020228	Lockout Cable - one less required than units linked	_	_	_	_
MI76TF-N(BW)(AI)	Magnum IT 764FMS Twin Valves with Alternating or Parallel Master and Slave Controls with Lockout Cable, No Unfiltered Water Bypass	Demand	1.5" or 2"	1.5"	57 lbs.

Pilot feed adapter for low pressure applications (< 25 PSI) available. (P/N: UA-1040668) 50 Hz available.

Included Filter Central Valve Options

included riller Control valve Options			
Option Code (x)	Description		
Must choose from the following bypass options for all filter valves with 742F & 764F controllers			
(BP) = U	Unfiltered Water Bypass (Not available for 764FMS Twin Valve Controls)		
(BP) = F	No Unfiltered Water Bypass (Required for 764FMS Twin Valve Controls)		
Must choose from the following backwash options for <u>all</u> filter valve configurations			
(BW) = 05 to 40	Internal Backwash Flow Control: 5 gpm to 40 gpm (Increments of 1 gpm)		
(BW) = 41 to 89	External Backwash Flow Control: Up to 89 gpm @ 25 psid (Increments of 1 gpm)		
Must choose from the following plumbing adapter kit options for all Magnum IT filter valve configurations			
(AI) = UA-3023849	(2) 2" S.S. NPT Adapter w/ Zinc Diecast Nut, (1) 1.5" S.S. NPT Adapter w/ Glass Filled Noryl Nut		
(AI) = UA-3023674	(2) 2" S.S. BSP Adapter w/ Zinc Diecast Nut, (1) 1.5" S.S. BSP Adapter w/ Glass Filled Noryl Nut		
(AI) = UA-1040784	(2) 2" CPVC Spigot Adapter w/ Zinc Diecast Nut, (1) 1.5" CPVC Spigot Adapter w/ Glass Filled Noryl Nut		
(AI) = UA-3023732	1.5" S.S. NPT Reducer w/ Zinc Diecast Nut, (3) 1.5" S.S. NPT Adapter w/ Glass Filled Noryl Nut		
(AI) = UA-3023736	1.5" S.S. BSP Reducer w/ Zinc Diecast Nut, (3) 1.5" S.S. BSP Adapter w/ Glass Filled Noryl Nut		

Transformer Specifications

All controllers require the use of a Magnum IT supplied transformer.

Output Voltage 12 Volt - AC 400mA Input Options 115 Volt - AC 50/60 Hz 230 Volt - AC 50/60 Hz 100 Volt - AC 50/60 Hz

E MAIL: info@swtwater.com

Plug Options (1) Indoor North America (P/N UA-44149)

(I) Indoor North America 230V (P/N UA-44193)

(I) Outdoor North America (P/N UA-44156)

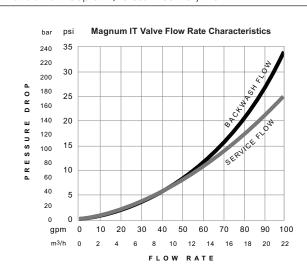
(1) Japan (P/N UA-1000810)

(a) Australia (P/N UA-1000812)

United Kingdom (P/N UA-1000813)

Mainland Europe (P/N UA-1000814)

Additional transformers may be available — call for more information.



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