

# MixRite



## Watch Guard Reservoir Float System and MixRite Water Driven Injectors

Watch Guard is the premier reservoir mounted float valve dilution system designed to deliver diluted solutions into any drum, tote or other reservoir. Attached to a standard water supply, Watch Guard automatically activates and keeps the reservoir filled ensuring a constant supply of diluted solution for the MixRite system.

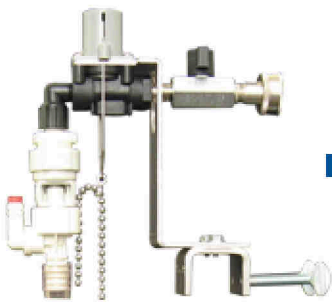
MixRite water driven injectors attach in-line to the irrigation system or water supply and use water pressure to accurately dilute solutions regardless of flow or pressure changes.

When the Watch Guard is used in combination with any MixRite, ultra lean dilutions as low as 5 parts per million are achievable.

### SPECIFICATIONS

PART #	FLOW RATE (GPM @ 40 psi)	INDUCTION		BACK FLOW PROTECTION	ON / OFF VALVE
		MIN	MAX		
440.23BT.ACID	4.0	387:1	7:1	ACTION GAP	YES

440.23BT.Acid

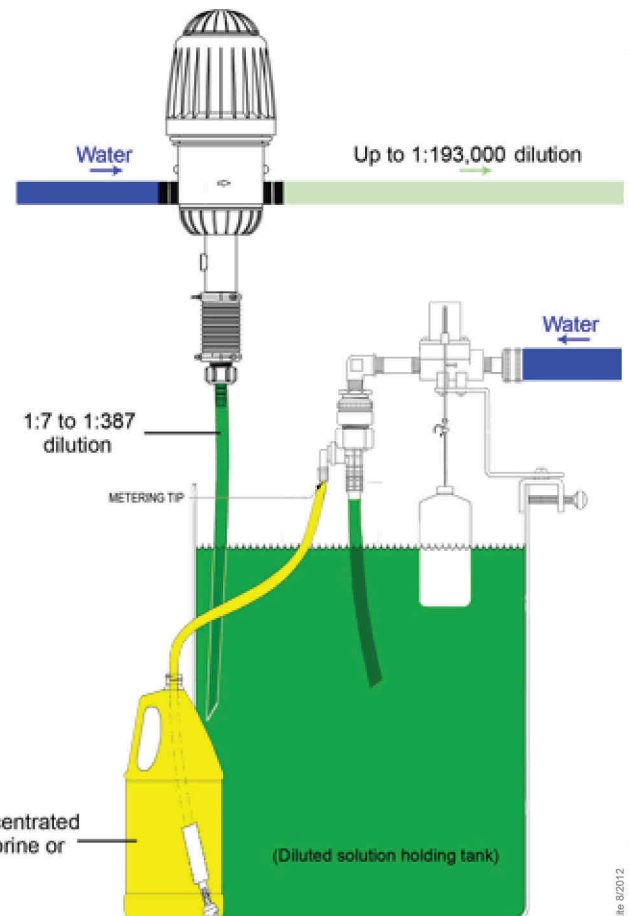


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## Ultra lean dilutions

- Achieve accurate ultra lean dilutions in 2 easy steps
- Effective with acid, chlorine and most any chemical
- Watch Guard is simple to mount on any drum, tote or other reservoir
- Automatically activates to keep reservoir full of diluted solution
- Metering tip included for dilutions from 1:7 to 1:387
- Includes ASSE 1055B approved action gap backflow preventer
- MixRite attaches in-line to the irrigation system / water supply
- Delivers accurate proportioning regardless of water flow or pressure changes
- Multiple models available for injection rates from .1% to 10% and water flow from .08 to 110 gallons per minute



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# Charts for 440-23BT-ACID

## 440-23BT-ACID Tip Chart

Metering Tip Color	Induction Ratios for Viscosities Shown					
	1 CPS		75 CPS		200 CPS	
	Oz/Gal	Ratio	Oz/Gal	Ratio	Oz/Gal	Ratio
Tan	0.33	387-1	0.26	500-1	0.12	1090-1
Orange	0.42	307-1	0.32	430-1	0.17	735-1
Turquoise	0.51	256-1	0.34	382-1	0.19	676-1
Pink	0.78	165-1	0.56	230-1	0.30	422-1
Clear	0.87	147-1	0.67	192-1	0.33	391-1
Brown	0.99	128-1	0.74	174-1	0.37	345-1
Red	1.37	93-1	0.91	141-1	0.44	289-1
White	1.52	84-1	1.04	128-1	0.48	264-1
Green	1.72	74-1	1.22	105-1	0.52	244-1
Blue	2.13	60-1	1.27	101-1	0.54	239-1
Yellow	3.05	42-1	1.71	75-1	0.56	229-1
Black	4.50	28-1	1.96	64-1	0.57	224-1
Purple	7.75	17-1	2.40	53-1	0.59	217-1
Gray	9.86	13-1	2.54	50-1	0.63	204-1
No Tip	19.63	7-1	3.60	40-1	0.67	190-1

## MixRite Dilution Ratios Combines with 440-23BT-ACID Unit

1. What is the dilution ratio you are trying to achieve?	Ratio	193500:1	128000:1	64000:1	46500:1	30000:1	6500:1	3500:1	0.2%	500-1
	Oz/Gal	1:1512	1:1000	1:500	1:363	1:234	1:51	1:27		
PPM	5	8	16	22	33	154	286			
Ratio	128871:1	85248:1	42624:1	30969:1	19980:1	4329:1	2331:1		0.3%	333-1
Oz/Gal	1:1007	1:666	1:333	1:242	1:156	1:34	1:18			
PPM	8	12	23	32	50	231	429			
Ratio	77400:1	51200:1	25600:1	18600:1	12000:1	2600:1	1400:1		0.5%	200-1
Oz/Gal	1:605	1:400	1:200	1:145	1:94	1:20	1:11			
PPM	13	20	39	54	83	385	714			
Ratio	49536:1	32768:1	16384:1	11904:1	7680:1	1664:1	896:1		0.8%	128-1
Oz/Gal	1:387	1:256	1:128	1:93	1:60	1:13	1:7			
PPM	20	31	61	84	130	601	1116			
Ratio	38700:1	25600:1	12800:1	9300:1	6000:1	1300:1	700:1		1.0%	100-1
Oz/Gal	1:302	1:302	1:302	1:302	1:302	1:302	1:302			
PPM	26	39	78	108	167	769	1429			
Ratio	30960:1	20480:1	10240:1	7440:1	4800:1	1040:1	560:1		1.25%	80-1
Oz/Gal	1:242	1:160	1:80	1:58	1:38	1:8	1:4			
PPM	32	49	98	134	208	962	1786			
Ratio	25542:1	16896:1	8448:1	6138:1	3960:1	858:1	462:1		1.5%	66-1
Oz/Gal	1:200	1:200	1:200	1:200	1:200	1:200	1:200			
PPM	39	59	118	163	253	1166	2165			
Ratio	22059:1	14592:1	7296:1	5301:1	3420:1	741:1	399:1		1.75%	57-1
Oz/Gal	1:172	1:114	1:57	1:41	1:27	1:6	1:3			
PPM	45	69	137	189	292	1350	2506			
Ratio	19350:1	12800:1	6400:1	4650:1	3000:1	650:1	350:1		2.0%	50-1
Oz/Gal	1:151	1:100	1:50	1:36	1:23	1:5	1:3			
PPM	52	78	156	215	333	1538	2857			
2. Use 440 Watch Guard with corresponding tip	(387-1)	(256-1)	(128-1)	(93-1)	(60-1)	(13-1)	(7-1)	Percentage	Ratio	
	Tan	Turquoise	Brown	Red	Blue	Gray	No Tip	570 or TF.002 Unit Dilution Ratio		
3. Set MixRite to the following ratio										
Metering Tip Color in 440.23BT.ACID with water thin Chemical										
Final Dilution with PPM is of the total chemical injected, not the active ingredient in chemical. For example, if chemical is 10% active ingredient and final dilution is 100 PPM, then active ingredient PPM is 10										



## Watch Guard and MixRite Dilution system



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