

Clack® Control Valves

In our 11th year.

Clack versus Fleck and GE ¾" and 1" Control Valve Comparison



WS1 • WS1CS



WS1EE



WS1TC

SPECIFICATIONS	CLACK WS1 SERIES	FLECK 5600	FLECK 2510	FLECK 2750	FLECK 9000	FLECK 9100	GE 255	GE 263/268
Control Valve Size	1"	¾"	¾"	1"	¾"	¾"	¾"	1"
Service @ 1 bar/ 15 psi drop	27 gpm (1)	20 gpm	19 gpm	26 gpm	18 gpm with ¾" Mechanical Meter 19 gpm with ¾" Electronic Meter 21 gpm with 1" Mechanical Meter	18 gpm with ¾" Mechanical Meter 19 gpm with ¾" Electronic Meter 21 gpm with 1" Mechanical Meter	15.5 gpm	25 gpm
Backwash @ 1.7 bar/ 25 psi drop	27 gpm (2)	7 gpm	17 gpm	25 gpm	8.5 gpm	8.5 gpm	6 gpm	20 gpm
Tank Applications: Softener (3) Filter (4)	6" - 21" dia. 6" - 21" dia.	6" - 12" dia. 8" - 10" dia.	6" - 16" dia. 8" - 16" dia.	10" - 24" dia. 10" - 21" dia.	6" - 16" dia. NA	6" - 16" dia. NA	6" - 14" dia. 6" - 10" dia.	7" - 14" dia. 7" - 18" dia.
Meter Specification	.25 - 27 gpm ± 5% Accuracy	.25 - 15 gpm ± 5% Accuracy	.25 - 15 gpm ± 5% Accuracy	.25 - 15 gpm with ¾" Mechanical Meter .7 - 40 gpm with 1" Mechanical Meter	.25 - 15 gpm with ¾" Mechanical Meter .7 - 40 gpm with 1" Mechanical Meter	.25 - 15 gpm with ¾" Mechanical Meter .7 - 40 gpm with 1" Mechanical Meter	Not Listed	Not Listed
Twin Capability	Yes - WS1EE	NA	Yes	Yes	Yes	Yes	Yes	Yes

1. Includes meter and bypass
2. Includes bypass
3. Softener tank size calculated @ 5 gpm of backwash per square foot of bed depth
4. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area

All the data acquired for Fleck and GE Control Valves was taken from manufacturers specification sheets from their respective websites on February 10, 2011.

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Clack versus Fleck and GE 1.25" Control Valve Comparison



WS1.25 • WS1.25CS



WS1.25EE



WS1.25TC

SPECIFICATIONS	CLACK WS1.25 SERIES	FLECK 7000	GE 273/278
Control Valve Size	1.25"	1.25"	1"
Service @ 15 psi drop	34 gpm (1)	27.7 gpm - Standard Piston 35.8 gpm - High Flow Piston 36.7 gpm - Filter Piston	25 gpm
Backwash @ 25 psi drop	32 gpm (2)	7.4 gpm - Standard Piston 15.8 gpm - High Flow Piston 31.3 gpm - Filter Piston	20 gpm
Tank Applications: Softener (3) Filter (4)	6" - 21" dia. 6" - 24" dia.	8" - 24" dia. 8" - 24" dia.	7" - 21" dia. 7" - 18" dia.
Meter Specification	.25 - 34 gpm ± 5% Accuracy	2 - 40 gpm +5 / -8% Accuracy	.50 - 25 gpm ± 3% Accuracy
Twin Capability	Yes - WS1.25EE	NA	Yes

1. Includes meter and bypass
2. Includes bypass
3. Softener tank size calculated @ 5 gpm of backwash per square foot of bed depth
4. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area

All the data acquired for Fleck and GE Control Valves was taken from manufacturers specification sheets from their respective websites on February 10, 2011.

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Clack versus Fleck and GE 1.5" Control Valve Comparison



WS1.5EE

SPECIFICATIONS	CLACK WS1.5EE	FLECK 2850	FLECK 9500	GE MAGNUM Cv
Control Valve Size	1.5"	1.5"	1.5"	1.5"
Service @ 15 psi drop	65 gpm	51 gpm	38 gpm	76 gpm
Backwash @ 25 psi drop	55 gpm	49 gpm	16 gpm	89 gpm
Tank Applications:				
Softener (1)	12" - 24" dia.	10" - 30" dia.	10" - 24" dia.	14" - 36" dia.
Filter (2)	12" - 30" dia.	10" - 24" dia.		14" - 36" dia.
Meter Specification	.5 - 75 gpm ± 5% Accuracy	1.5 - 75 gpm ± 5% Accuracy	1.5 - 75 gpm	5 - 225 gpm 2" Flow Meter ± 3% Accuracy
Twin Capability	Yes	Yes	Yes	Yes

1. Softener tank size calculated @ 5 gpm of backwash per square foot of bed depth
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area

All the data acquired for Fleck and GE Control Valves was taken from manufacturers specification sheets from their respective websites on February 10, 2011.

Clack® Control Valves

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Clack versus Fleck and GE 2" Control Valve Comparison



WS2EE



WS2EE/QC



WS2H

SPECIFICATIONS	CLACK WS2EE	CLACK WS2EE/QC	CLACK WS2H	FLECK 2900	FLECK 3150	GE MAGNUM IT
Control Valve Size	2"	2"	2"	2"	2"	2"
Service @ 15 psi drop	115 gpm	125 gpm	125 gpm (1)	106 gpm Downflow Regeneration	95 gpm	76 gpm
Backwash @ 25 psi drop	80 gpm	85 gpm	125 gpm	36 gpm Downflow Regeneration 26 gpm Upflow Regeneration	105 gpm	89 gpm
Tank Applications: Softener (2)	12" - 48" dia.	12" - 48" dia.	18" - 63" dia.	14" - 36" dia.	24" - 48" dia. (Top Mount) 24" - 63" dia. (Side Mount)	14" - 36" dia.
Filter (3)	12" - 36" dia.	12" - 36" dia.	18" - 48" dia.	14" - 30" dia.	24" - 42" dia.	14" - 36" dia.
Meter Specification	1.5 - 150 gpm ± 5% Accuracy	1.5 - 150 gpm ± 5% Accuracy	1.5 - 125 gpm ± 5% Accuracy	3 - 150 gpm ± 5% Accuracy	3 - 150 gpm ± 5% Accuracy	2 - 80 gpm ± 3% Accuracy
Multi-Tank Capability	Twin	Twin	Quad	Quad	Twin	Twin

1. Includes meter
2. Softener tank size calculated @ 5 gpm of backwash per square foot of bed depth
3. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area

All the data acquired for Fleck and GE Control Valves was taken from manufacturers specification sheets from their respective websites on February 10, 2011.

Clack® Control Valves

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Clack versus Fleck 3" Control Valve Comparison



WS3

SPECIFICATIONS	CLACK WS3	FLECK 3900
Control Valve Size	3"	3"
Service @ 15 psi drop	250 gpm	250 gpm
Backwash @ 25 psi drop	220 gpm	100 gpm
Tank Applications:		
Softener (1)	18" - 96" dia. (3)	24" - 48" dia.
Filter (2)	18" - 63" dia.	24" - 42" dia.
Meter Specification	3.5 - 350 gpm ± 5% Accuracy	7 - 300 gpm ± 5% Accuracy
Multi-Tank Capability	Quad	Quad

1. Softener tank size calculated @ 5 gpm of backwash per square foot of bed depth
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area
3. Brine Pump necessary for tanks larger than 63" diameter

All the data acquired for the Fleck 3900 Control Valve was taken from manufacturers specification sheet from their website on February 10, 2011.