

ENGINEERING DATA



Smith &
Loveless, Inc.®

14040 Santa Fe Trail Drive
Lenexa, Kansas 66215-1284

PISTA® Grit Removal System
Certified Field Test Results
August 2012
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SMITH & LOVELESS INC. PISTA® GRIT CHAMBER CERTIFIED FIELD TEST RESULTS						
PISTA® 360™ Grit Chamber w/ V-FORCE BAFFLE™ (Model B)			Grit Removal Performance Capabilities			
State	Peak Flow		50-Mesh (300 Microns)	70-Mesh (210 Microns)	100-Mesh (150 Microns)	140-Mesh (105 Microns)
	(MGD)	(m³/s)				
Arkansas	50	2.19	99.5	96.5	95.4	95.7
Arkansas	50	2.19	98.5	95.6	95.9	97.7
Arkansas	50	2.19	97.7	95.2	95.5	95.9
Florida	7	0.31	98.7	96.7	96.1	95.7
Florida	7	0.31	99.9	99.9	99.9	99.4
Florida	7	0.31	99.2	97.6	96.9	96.6
Florida	7	0.31	99.5	98.5	97.2	96.2
Florida	7	0.31	99.9	99.2	98.0	95.9
Florida	7	0.31	99.9	99.9	99.2	96.2
Michigan	12	0.31	99.9	99.9	99.6	99.4
Missouri	12	0.31	95.1	95.4	95.1	95.8

Performance Capabilities:

- 95% of Grit 140 Mesh (105 Microns) and Larger

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SMITH & LOVELESS INC. PISTA® GRIT CHAMBER CERTIFIED FIELD TEST RESULTS					
PISTA® 360™ Grit Chamber Weir/ PISTA® 270™ Grit Chamber			Grit Removal Performance Capabilities		
State	Peak Flow		50-Mesh (300 Microns)	70-Mesh (210 Microns)	100-Mesh (150 Microns)
	(MGD)	(m³/s)			
Alabama	7	0.3	99.8	91.6	80.7
Alaska	70	3.1	98.5	92.7	89.5
Arizona	20	0.9	99.8	95.4	82.1
Arizona	50	2.2	98.4	88.0	81.8
Arizona	20	0.9	98.0	86.0	79.0
Australia	20	0.9	99.8	92.0	79.2
California	70	3.1	95.0	85.4	71.3
California	30	1.3	95.2	-	84.0
Colorado	30	1.3	99.9	98.8	97.2
Connecticut	50	2.2	99.3	93.5	85.6
Connecticut	4	0.2	96.1	98.7	95.7
Connecticut	20	0.9	98.3	93.0	78.7
Connecticut	50	2.2	97.7	89.5	79.6
Florida	7	0.3	96.7	99.1	91.8
Florida	4	0.2	97.2	92.9	82.4
Florida	30	1.3	98.2	84.2	88.8
Florida	4	0.2	95.8	85.0	75.9
Florida	30	1.3	99.4	96.3	88.9
Florida	50	2.2	98.1	94.7	87.5
Florida	50	2.2	98.3	93.0	78.7
Florida	30	1.3	99.3	97.0	90.7
Florida	20	0.9	99.8	99.5	95.6
Georgia	30	1.3	98.7	95.6	87.5
Illinois	20	0.9	98.8	91.7	80.7
Illinois	12	0.5	95.0	89.8	80.0
Illinois	30	1.3	96.0	88.0	74.4
Illinois	20	0.9	99.5	98.0	91.4
Illinois	50	2.2	97.2	92.3	87.2
Iowa	50	2.2	99.8	97.6	96.04
Kansas	12	0.5	99.1	95.2	88.2
Kentucky	50	2.2	95.1	91.5	76.1
Maine	50	2.2	95.9	87.7	82.3
Maryland	2.5	0.1	96.0	86.6	72.2
Maryland	7	0.3	95.1	90.1	85.5
Maryland	12	0.5	99.8	97.7	93.7
Maryland	12	0.5	96.67	-	78.4
Michigan	12	0.5	99.9	99.9	99.7
Montana	12	0.5	99.1	93.7	86.3
Montana	12	0.5	99.6	90.4	78.9
Nevada	50	2.2	98.0	93.0	77.0

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SMITH & LOVELESS INC. PISTA® GRIT CHAMBER CERTIFIED FIELD TEST RESULTS (Continued)

PISTA® 360™ Grit Chamber Weir/ PISTA® 270™ Grit Chamber		Grit Removal Performance Capabilities			
State	Peak Flow		50-Mesh (300 Microns)	70-Mesh (210 Microns)	100-Mesh (150 Microns)
	(MGD)	(m³/s)			
New York	2.5	0.1	98.6	85.7	81.1
Oregon	30	1.3	95.1	87.2	85.0
Pennsylvania	20	0.9	99.8	93.9	91.0
Pennsylvania	12	0.5	98.3	85.6	65.8
South Carolina	30	1.3	95.0	87.0	77.0
Texas	50	2.2	96.2	93.8	95.1
Texas	30	1.3	99.4	94.2	86.5
Texas	30	1.3	99.0	96.7	91.0
Texas	50	2.2	95.7	89.4	75.6
Texas	30	1.3	96.1	88.5	78.1
Utah	7	0.3	99.5	85.5	70.7
Virginia	70	3.1	99.9	-	98.6
Washington	20	0.9	98.0	93.5	87.2
Wisconsin	1	0.1	99.0	98.8	94.3
Wisconsin	70	3.1	95.0	86.2	68.4
Wisconsin	2.5	0.1	94.8	87.5	83.2
Wisconsin	20	0.9	95.8	95	94.4
Wisconsin	12	0.5	99.4	97.0	88.1

Performance Capabilities:

- 95% of Grit 50 Mesh (300 Microns) and Larger
- 85% of Grit 70 Mesh (210 Microns) and Larger, but less than 50 Mesh (300 Microns)
- 65% of Grit 100 Mesh (150 Microns), but less than 70 Mesh (210 Microns)