

1800 PCS

Pressure Compensating Screens

- Compensates for pressure variations.
- Eliminates fogging and water waste caused by high pressures.
- Nozzles can be matched with screens to create short-throw, reduced-radius patterns and/or flush-mounted bubblers.

Features

- New .08 GPM (0,02 m³/h; 0,01 l/s) and .25 GPM (0,06 m³/h; 0,02 l/s) screens allow greater flexibility in achieving 4', 6', and 7' radius patterns.
- Color-coded for easy identification.
- Use with all 1800 Series plastic nozzles (MPR, VAN, U-Series, Strips and Bubblers).
- Easily installed in new and retrofit applications. Simply replace standard screen with PCS screen.

** With a pressure compensator, outlet pressure will be reduced, but will fluctuate as the inlet pressure changes. A pressure compensator cannot maintain outlet pressure at a constant rate. A pressure regulator establishes and maintains a constant outlet pressure of 30 psi (2,1 bars) as long as the inlet pressure at the spray head is greater than 30 psi (2,1 bars).*

Operating Range

- Flow: 0.10 to 3.70 GPM (0,05 to 0,84 m³/h; 0,01 to 0,23 l/s)
- Pressure: 15 to 70 psi (1,0 to 4,8 bars)

Models

- PCS-008: 0.08 GPM (0,02 m³/h; 0,01 l/s) - Beige
- PCS-010: 0.1 GPM (0,02 m³/h; 0,01 l/s) - Purple
- PCS-020: 0.2 GPM (0,05 m³/h; 0,01 l/s) - Brown
- PCS-025: 0.25 GPM (0,06 m³/h; 0,02 l/s) - Pink
- PCS-030: 0.3 GPM (0,07 m³/h; 0,02 l/s) - Silver
- PCS-040: 0.4 GPM (0,09 m³/h; 0,03 l/s) - Orange
- PCS-060: 0.6 GPM (0,14 m³/h; 0,04 l/s) - Black
- PCS-090: 0.9 GPM (0,20 m³/h; 0,06 l/s) - White
- PCS-125: 1.25 GPM (0,28 m³/h; 0,08 l/s) - Green
- PCS-175: 1.75 GPM (0,40 m³/h; 0,11 l/s) - Yellow
- PCS-260: 2.6 GPM (0,59 m³/h; 0,16 l/s) - Blue
- PCS-370: 3.7 GPM (0,84 m³/h; 0,23 l/s) - Red

Recommended nozzle+PCS combinations to achieve 4', 6' and 7' radii*

Nozzle	PCS	ft.	m
5Q	Beige	4'	(1,2)
8Q-FLT	Pink	6'	(1,8)
8Q-FLT	Black	7'	(2,1)
8H-FLT	Pink	4'	(1,2)
8H-FLT	Silver	7'	(2,1)
8F-FLT	Black	4'	(1,2)
8F-FLT	White	7'	(2,1)

Note: radius reduction data tested at 30 psi (1,5 bars)

* Individual results may vary based on site conditions



● 1800 PCS Screens



1800 PCS Performance

	PCS-010		PCS-020		PCS-030		PCS-040		PCS-060		PCS-090		PCS-125		PCS-175		PCS-260		PCS-370	
	GPM	0.1	GPM	0.2	GPM	0.3	GPM	0.4	GPM	0.6	GPM	0.9	GPM	1.25	GPM	1.75	GPM	2.6	GPM	3.7
	m ³ /h (l/s)	0,02 (0,01)	m ³ /h (l/s)	0,05 (0,01)	m ³ /h (l/s)	0,07 (0,02)	m ³ /h (l/s)	0,09 (0,03)	m ³ /h (l/s)	0,14 (0,04)	m ³ /h (l/s)	0,20 (0,06)	m ³ /h (l/s)	0,28 (0,08)	m ³ /h (l/s)	0,40 (0,11)	m ³ /h (l/s)	0,59 (0,16)	m ³ /h (l/s)	0,84 (0,23)
	Color	Purple	Color	Brown	Color	Silver	Color	Orange	Color	Black	Color	White	Color	Green	Color	Yellow	Color	Blue	Color	Red
Distance	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters
U-12Q			2'	(0,6)	7'	(2,1)	12'	(3,7)												
U-12T					6'	(1,8)	8'	(2,4)	12'	(3,7)										
U-12H					3'	(0,9)	4'	(1,2)	7'	(2,1)	11'	(3,4)	12'	(3,7)						
U-12TT									6'	(1,8)	9'	(2,7)	11'	(3,4)	12'	(3,7)				
U-12TQ									5'	(1,5)	8'	(2,4)	12'	(3,7)						
U-12F							3'	(0,9)	6'	(1,8)	8'	(2,4)	9'	(2,7)	11'	(3,4)	12'	(3,7)		
U-15Q			2'	(0,6)	6'	(1,8)	11'	(3,4)	15'	(4,6)										
U15T									10'	(3,0)	13'	(4,0)	14'	(4,3)	15'	(4,6)				
U-15H					2'	(0,6)	3'	(0,9)	5'	(1,5)	9'	(2,7)	12'	(3,7)	15'	(4,6)				
U15TT													11'	(3,4)	12'	(3,7)	13'	(4,0)	14'	(4,3)
U15TQ													9'	(2,7)	11'	(3,4)	13'	(4,0)	14'	(4,3)
U-15F									4'	(1,2)	6'	(1,8)	7'	(2,1)	10'	(3,1)	13'	(4,0)	15'	(4,6)
4 (90°)			1'	(0,3)	3'	(0,9)	4'	(1,2)												
4 (180°)			1'	(0,3)	2'	(0,6)	3'	(0,9)	4'	(1,2)										
4 (270°)					1'	(0,3)	2'	(0,6)	4'	(1,2)										
4 (330°)					1'	(0,3)	2'	(0,6)	4'	(1,2)										
6 (90°)			1'	(0,3)	3'	(0,9)	6'	(1,8)												
6 (180°)					2'	(0,6)	4'	(1,2)	6'	(1,8)										
6 (270°)					0.5'	(0,2)	1'	(0,3)	3'	(0,9)	6'	(1,8)								
6 (330°)					0.5'	(0,2)	1'	(0,3)	3'	(0,9)	6'	(1,8)								
8 (90°)					1'	(0,3)	3'	(0,9)	8'	(2,4)										
8 (180°)					0.5'	(0,2)	2'	(0,6)	4'	(1,2)	8'	(2,4)								
8 (270°)							0.5'	(0,2)	3'	(0,9)	5'	(1,5)	8'	(2,4)						
8 (330°)							0.5'	(0,2)	3'	(0,9)	5'	(1,5)	8'	(2,4)						
10 (90°)					3'	(0,9)	5'	(1,5)	10'	(3,1)										
10 (180°)							1'	(0,3)	5'	(1,5)	7'	(2,1)	10'	(3,1)						
10 (270°)							1'	(0,3)	4'	(1,2)	6'	(1,8)	9'	(2,7)	10'	(3,1)				
10 (360°)					0.5'	(0,2)	1'	(0,3)	4'	(1,2)	6'	(1,8)	8'	(2,4)	10'	(3,1)				
12 (90°)			3'	(0,9)	8'	(2,4)	10'	(3,1)	12'	(3,7)										
12 (180°)					1'	(0,3)	2'	(0,6)	5'	(1,5)	8'	(2,4)	12'	(3,7)						
12 (270°)					0.5'	(0,2)	1'	(0,3)	3'	(0,9)	6'	(1,8)	8'	(2,4)	12'	(3,7)				
12 (360°)							1'	(0,3)	3'	(0,9)	5'	(1,5)	7'	(2,1)	12'	(3,7)				
15 (90°)					2'	(0,6)	5'	(1,5)	11'	(3,4)	15'	(4,6)								
15 (180°)					1'	(0,3)	3'	(0,9)	6'	(1,8)	9'	(2,7)	12'	(3,7)	15'	(4,6)				
15 (270°)											6'	(1,8)	8'	(2,4)	15'	(4,6)				
15 (360°)													8'	(2,4)	12'	(3,7)	14'	(4,3)	15'	(4,6)
18 (90°)					0.5'	(0,2)	2'	(0,6)	6'	(1,8)	12'	(3,7)	17'	(5,2)	18'	(5,5)				
18 (180°)							1'	(0,3)	3'	(0,9)	5'	(1,5)	9'	(2,7)	16'	(4,9)	18'	(5,5)		
18 (270°)							0.5'	(0,2)	1'	(0,3)	3'	(0,9)	5'	(1,5)	11'	(3,4)	15'	(4,6)	18'	(5,5)



Spray Heads

Performance data derived from tests that conform with ASAE Standards; ASAE S398.1. See page 6 for complete ASAE Test Certification Statement.

1800 PCS Performance

	GPM m ³ /h (l/s)	PCS-010 0.1 0,02 (0,01)		PCS-020 0.2 0,05 (0,01)		PCS-030 0.3 0,07 (0,02)		PCS-040 0.4 0,09 (0,03)		PCS-060 0.6 0,14 (0,04)		PCS-090 0.9 0,20 (0,06)		PCS-125 1.25 0,28 (0,08)		PCS-175 1.75 0,40 (0,11)		PCS-260 2.6 0,59 (0,16)		PCS-370 3.7 0,84 (0,23)	
		Purple		Brown		Silver		Orange		Black		White		Green		Yellow		Blue		Red	
Distance		feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters
MPR	5Q	5'	(1,5)																		
	5T	5'	(1,5)																		
	5H	4'	(1,2)	5'	(1,5)																
	5F					5'	(1,5)														
	8Q	4'	(1,2)	8'	(2,4)																
	8T			6'	(1,8)	7'	(2,1)	8'	(2,4)												
	8H			5'	(1,5)	7'	(2,1)	8'	(2,4)												
	8F					2'	(0,6)	3'	(0,9)	8'	(2,4)										
	10Q	2'	(0,6)	6'	(1,8)	8'	(2,4)	10'	(3,1)												
	10T			4'	(1,2)	9'	(2,7)	10'	(3,1)												
	10H			3'	(0,9)	6'	(1,8)	8'	(2,4)	10'	(3,1)										
	10F							1'	(0,3)	4'	(1,2)	8'	(2,4)	10'	(3,1)						
	12Q			3'	(0,9)	8'	(2,4)	11'	(3,4)	12'	(3,7)										
	12T			2'	(0,6)	6'	(1,8)	10'	(3,1)	11'	(3,4)	12'	(3,7)								
	12H					4'	(1,2)	6'	(1,8)	10'	(3,1)	12'	(3,7)								
	12TT					2'	(0,6)	4'	(1,2)	6'	(1,8)	9'	(2,7)	12'	(3,7)						
	12TQ					2'	(0,6)	3'	(0,9)	6'	(1,8)	8'	(2,4)	10'	(3,1)	12'	(3,7)				
	12F							2'	(0,6)	5'	(1,5)	7'	(2,1)	8'	(2,4)	12'	(3,7)				
	15Q			3'	(0,9)	5'	(1,5)	9'	(2,7)	12'	(3,7)	15'	(4,6)								
	15T					5'	(1,5)	7'	(2,1)	12'	(3,7)	14'	(4,3)	15'	(4,6)						
	15H					3'	(0,9)	4'	(1,2)	7'	(2,1)	11'	(3,4)	15'	(4,6)						
	15TT					1'	(0,3)	2'	(0,6)	4'	(1,2)	8'	(2,4)	10'	(3,1)	13'	(4,0)	15'	(4,6)		
	15TQ											6'	(1,8)	8'	(2,4)	14'	(4,3)	15'	(4,6)		
	15F											4'	(1,2)	6'	(1,8)	10'	(3,1)	12'	(3,7)	15'	(4,6)
Strip	16Q-SLA	1'	(0,3)	2'	(0,6)	8'	(2,4)	11'	(3,4)	16'	(4,9)										
	16H-SLA			0.5'	(0,2)	1'	(0,3)	4'	(1,2)	9'	(2,7)	12'	(3,7)	16'	(4,9)						
	16F-SLA							0.5'	(0,2)	2'	(0,6)	3'	(0,9)	6'	(1,8)	12'	(3,7)	16'	(4,9)		
	22Q-SS			2'	(0,6)	7'	(2,1)	12'	(3,7)	20'	(6,1)	22'	(6,7)								
	22H-SS					2'	(0,6)	4'	(1,2)	8'	(2,4)	14'	(4,3)	22'	(6,7)						
	22F-SS									2'	(0,6)	5'	(1,5)	7'	(2,1)	18'	(5,5)	22'	(6,7)		
Bubbler	5Q-B			2'	(0,6)	4'	(1,2)	5'	(1,5)												
	5H-B					1'	(0,3)	2'	(0,6)	5'	(1,5)										
	5F-B							1'	(0,3)	2'	(0,6)	3'	(0,9)	5'	(1,5)						
	5CST-B			1'	(0,3)	3'	(0,9)	5'	(1,5)												
Strip	15SQ									4' x 4'	(1,2 x 1,2)	7' x 7'	(2,1 x 2,1)	11' x 11'	(3,4 x 3,4)	15' x 15'	(4,6 x 4,6)	16' x 16'	(4,9 x 4,9)		
	9SST									7' x 12'	(2,1 x 3,7)	9' x 18'	(2,7 x 5,5)	9' x 18'	(2,7 x 5,5)						
	15CST							4' x 12'	(1,2 x 3,7)	4' x 24'	(1,2 x 7,3)	4' x 30'	(1,2 x 9,1)	4' x 30'	(1,2 x 9,1)						
	15SST							2' x 10'	(0,6 x 3,1)	3' x 20'	(0,9 x 6,1)	4' x 26'	(1,2 x 7,9)	4' x 30'	(1,2 x 9,1)						
	15EST					3' x 12'	(0,9 x 3,7)	4' x 15'	(1,2 x 4,6)												

Bold type indicates recommended nozzle/screen combination to achieve catalog performance at 30 psi (2,1 bars).

Note: Screens were tested at 50 psi (3,5 bars) for 10 minutes prior to taking distance measurements. Distances may vary slightly with higher pressures and longer run times.

Note: Refer to catalog notation for proper nozzle selection.

