

Nozzle Size Recommendations

SINGLE PAD





DOUBLE PAD



TRIPLE PAD



NOZZLE NUMBER			PADS
2	1/32"	(0.79 mm)	 Mini 12  Mini 24
3	3/64"	(1.19 mm)	
4	1/16"	(1.59 mm)	
5	5/64"	(1.98 mm)	
6	3/32"	(2.38 mm)	
7	7/64"	(2.78 mm)	
8	1/8"	(3.18 mm)	
9	9/64"	(3.57 mm)	
10	5/32"	(3.97 mm)	
11	11/64"	(4.37 mm)	
12	3/16"	(4.76 mm)	
13	13/64"	(5.16 mm)	
14	7/32"	(5.56 mm)	
15	15/64"	(5.95 mm)	
16	1/4"	(6.35 mm)	
17	17/64"	(6.75 mm)	
18	9/32"	(7.14 mm)	
19	19/64"	(7.54 mm)	
20	5/16"	(7.94 mm)	
21	21/64"	(8.33 mm)	
22	11/32"	(8.73 mm)	
23	23/64"	(9.13 mm)	
24	3/8"	(9.53 mm)	
25	25/64"	(9.92 mm)	
26	13/32"	(10.32 mm)	

Divide higher flows into multiple streams to widen the wetted footprint

Single Pads - Concave, Flat, & Convex

CONCAVE



1 **LDNPHDC** (above)
C = Concave (blue)
 (Standard 33 grooves)
 Nozzles #10 - #26

2 **LDNPHDCMG**
C = Concave (blue)
MG = Medium Groove
 (33 grooves)
 Nozzles #10 - #26

3 **LDNPHDCDG**
C = Concave (blue)
DG = Deep Groove
 (24 grooves)
 Nozzles #10 - #26

4 **LDNPHDMC**
M = Mini
C = Concave (blue)
 (24 grooves)
 Nozzles #4 - #9.5

5 **LDNPHDCS**
C = Concave (blue)
S = Smooth
 Nozzles #4 - #14.5

6 **LDNPHDMC12**
M = Mini
C = Concave (blue)
12 = 12 grooves
 Nozzles #2 - #5

7 **LDNPHDPCD17**
PC = Part Circle (170°)
C = Concave (blue)
DG = Deep Groove
17 = 17 grooves
 Nozzles #6 - #18

FLAT



1 **LDNPHDF** (above)
F = Flat (black)
 (Standard 33 grooves)
 Nozzles #10 - #26

2 **LDNPHDFMG**
F = Flat (black)
MG = Medium Groove
 (33 grooves)
 Nozzles #10 - #26

3 **LDNPHDFDG**
F = Flat (black)
DG = Deep Groove
 (24 grooves)
 Nozzles #10 - #26

4 **LDNPHDMF**
M = Mini
F = Flat (black)
 (24 grooves)
 Nozzles #4 - #9.5

5 **LDNPHDFS**
F = Flat (black)
S = Smooth
 Nozzles #4 - #14.5

6 **LDNPHDMF12**
M = Mini
F = Flat (black)
12 = 12 grooves
 Nozzles #2 - #5

CONVEX



1 **LDNPHDV** (above)
V = Convex (green)
 (Standard 33 grooves)
 Nozzles #10 - #26

3 **LDNPHDVDG**
V = Convex (green)
DG = Deep Groove
 (24 grooves)
 Nozzles #10 - #26

4 **LDNPHDMV**
M = Mini
V = Convex (green)
 (24 grooves)
 Nozzles #4 - #9.5

5 **LDNPHDVS**
V = Convex (green)
S = Smooth
 Nozzles #4 - #14.5

6 **LDNPHDMV12**
M = Mini
V = Convex (green)
12 = 12 grooves
 Nozzles #2 - #5

Maximum Spacing Recommendation:
 Above crop canopy = 11 ft (3.4 m) for Concave or Flat
 Above crop canopy = 10 ft (3 m) Convex
 Below crop canopy = 7 ft (2.1 m) Concave, Flat, or Convex

Chemigation Pad Inserts

INSERT



- ① **LDNPHDCM11**
CM11 = CM1
 Corn Chem
 Insert (red)
 Nozzles #5 - #9



- ② **LDNPHDCM25**
CM25 = CM2
 Corn Chem
 Insert (maroon)
 Nozzles #10 - #26



- ③ **LDNPHDCT56**
CT56 = Cotton
 Chem Insert
 (white)
 Nozzles #5 - #24

CONCAVE



- ① **LDNPHDCB11**
C = Concave (blue)
 (Standard 33 grooves)
B11 = CM1 Corn Chem
 Insert (red)



- ② **LDNPHDCB25**
C = Concave (blue)
 (Standard 33 grooves)
B25 = CM2 Corn Chem
 Insert (maroon)



- ③ **LDNPHDCB56**
C = Concave (blue)
 (Standard 33 grooves)
B56 = Cotton Chem
 Insert (white)

FLAT



- ① **LDNPHDFB11**
F = Flat (black)
 (Standard 33 grooves)
B11 = CM1 Corn Chem
 Insert (red)



- ② **LDNPHDFB25**
F = Flat (black)
 (Standard 33 grooves)
B25 = CM2 Corn Chem
 Insert (maroon)



- ③ **LDNPHDFB56**
F = Flat (black)
 (Standard 33 grooves)
B56 = Cotton Chem
 Insert (white)

CONVEX



- ① **LDNPHDVB11**
V = Convex (green)
 (Standard 33 grooves)
B11 = CM1 Corn Chem
 Insert (red)



- ② **LDNPHDVB25**
V = Convex (green)
 (Standard 33 grooves)
B25 = CM2 Corn Chem
 Insert (maroon)

Nozzle sizes for pads above are based on the recommended range for pad insert on the left.

Double & Triple Pad Assemblies



1 LDNPHD2CC

2 = Double Pad
C = Concave (*blue*)
 (33 grooves)
 with 0.198" hole
C = Concave (*blue*)
 (33 grooves)
 Nozzles #15 - #19

2 LDNPHD2CF

2 = Double Pad
C = Concave (*blue*)
 (33 grooves)
 with 0.198" hole
F = Flat (*black*)
 (33 grooves)
 Nozzles #15 - #19

3 LDNPHD2FF

2 = Double Pad
F = Flat (*black*)
 (33 grooves)
 with 0.198" hole
F = Flat (*black*)
 (33 grooves)
 Nozzles #15 - #19

4 LDNPHD3CFF

3 = Triple Pad
C = Concave (*blue*)
 (33 grooves)
 with 0.289" hole
F = Flat (*black*)
 (33 grooves)
 with 0.198" hole
F = Flat (*black*)
 (33 grooves)
 Nozzles #20 - #26

Above pad assemblies also available with LEPA or chemigation inserts. Consult factory for part numbers.

LEPA Bubble Pad Insert (use with Shroud)



LDNSCUP3 = LDN Shroud with clips

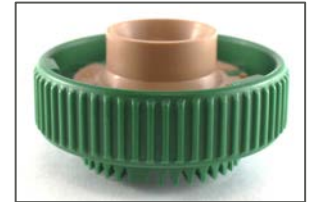
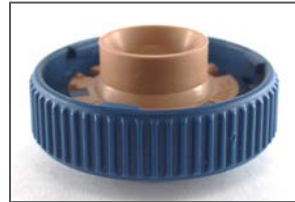
CONCAVE



FLAT



CONVEX



INSERTS



- 1 **LDNPHDB**
B = Bubble
 Insert (beige)
 Nozzles #5 - #24



- 2 **LDNPHDCM11**
CM11 = CM1
 Corn Chem
 Insert (red)
 Nozzles #5 - #9



- 3 **LDNPHDCM25**
CM25 = CM2
 Corn Chem
 Insert (maroon)
 Nozzles #10 - #26

- 1 **LDNPHDCBB** (above)
C = Concave (blue)
 (Standard 33 grooves)
BB = Bubble
 Insert (beige)

- LDNPHDMCBB**
M = Mini
C = Concave (blue)
 (24 grooves)
BB = Bubble
 Insert (beige)



- 2 **LDNPHDCB11**
C = Concave (blue)
 (Standard 33 grooves)
B11 = CM1 Corn Chem
 Insert (red)



- 3 **LDNPHDCB25**
C = Concave (blue)
 (Standard 33 grooves)
B25 = CM2 Corn Chem
 Insert (maroon)

- 1 **LDNPHDFBB** (above)
F = Flat (black)
 (Standard 33 grooves)
BB = Bubble
 Insert (beige)

- LDNPHDMFBB**
M = Mini
F = Flat (black)
 (24 grooves)
BB = Bubble
 Insert (beige)



- 2 **LDNPHDFB11**
F = Flat (black)
 (Standard 33 grooves)
B11 = CM1 Corn Chem
 Insert (red)



- 3 **LDNPHDFB25**
F = Flat (black)
 (Standard 33 grooves)
B25 = CM2 Corn Chem
 Insert (maroon)

- 1 **LDNPHDVBB** (above)
V = Convex (green)
 (Standard 33 grooves)
BB = Bubble
 Insert (beige)

- LDNPHDMVBB**
M = Mini
V = Convex (green)
 (24 grooves)
BB = Bubble
 Insert (beige)



- 2 **LDNPHDVB11**
V = Convex (green)
 (Standard 33 grooves)
B11 = CM1 Corn Chem
 Insert (red)



- 3 **LDNPHDVB25**
V = Convex (green)
 (Standard 33 grooves)
B25 = CM2 Corn Chem
 Insert (maroon)

Nozzle sizes for pads above are based on the recommended range for pad insert on the left.

Wide Spray Bubble Assemblies



- ① **LDNDAHDCWSB**
 (above)
C = Concave (blue)
 (33 grooves)
WSB = Wide Spray
 Bubble Insert (green)
 Nozzles #4.5 - #15

- ② **LDNDAHDMCWSB**
M = Mini
C = Concave (blue)
 (24 grooves)
WSB = Wide Spray
 Bubble Insert (green)
 Nozzles #4.5 - #15



- ① **LDNDAHDFWSB**
 (above)
F = Flat (black)
 (33 grooves)
WSB = Wide Spray
 Bubble Insert (green)
 Nozzles #4.5 - #15

- ② **LDNDAHDMFWSB**
M = Mini
F = Flat (black)
 (24 grooves)
WSB = Wide Spray
 Bubble Insert (green)
 Nozzles #4.5 - #15

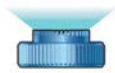


- ① **LDNDAHVDWSB**
 (above)
V = Convex (green)
 (33 grooves)
WSB = Wide Spray
 Bubble Insert (green)
 Nozzles #4.5 - #15

- ② **LDNDAHDMVWSB**
M = Mini
V = Convex (green)
 (24 grooves)
WSB = Wide Spray
 Bubble Insert (green)
 Nozzles #4.5 - #15

LEPA UP3[®] Bubbler Pad Assemblies

CONCAVE



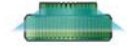
- 1 **LDNPHDCUP3B**
C = Concave (blue) (33)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #10 - #26
- 2 **LDNPHDCMGUP3B** (above)
C = Concave (blue)
MG = Medium Groove (33)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #10 - #26
- 3 **LDNPHDCDGUP3B**
C = Concave (blue)
DG = Deep Groove (24)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #4 - #26
- 4 **LDNPHDMCUP3B**
M = Mini, C = Concave (blue) (24)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #4 - #9.5
- 5 **LDNPHDCSUP3B**
C = Concave (blue)
S = Smooth
UP3B = UP3 Bubbler Pad As'bly
Nozzles #4 - #14.5
- 6 **LDNPHDMC12UP3B**
M = Mini, C = Concave (blue)
12 = 12 grooves
UP3B = UP3 Bubbler Pad As'bly
Nozzles #2 - #5

FLAT



- 1 **LDNPHDFUP3B**
F = Flat (black) (33)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #10 - #26
- 2 **LDNPHDFMGUP3B** (above)
F = Flat (black)
MG = Medium Groove (33)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #10 - #26
- 3 **LDNPHDFDGUP3B**
F = Flat (black)
DG = Deep Groove (24)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #4 - #26
- 4 **LDNPHDMFUP3B**
M = Mini, F = Flat (black) (24)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #4 - #9.5
- 5 **LDNPHDFSUP3B**
F = Flat (black)
S = Smooth
UP3B = UP3 Bubbler Pad As'bly
Nozzles #4 - #14.5
- 6 **LDNPHDMF12UP3B**
M = Mini, F = Flat (black)
12 = 12 grooves
UP3B = UP3 Bubbler Pad As'bly
Nozzles #2 - #5

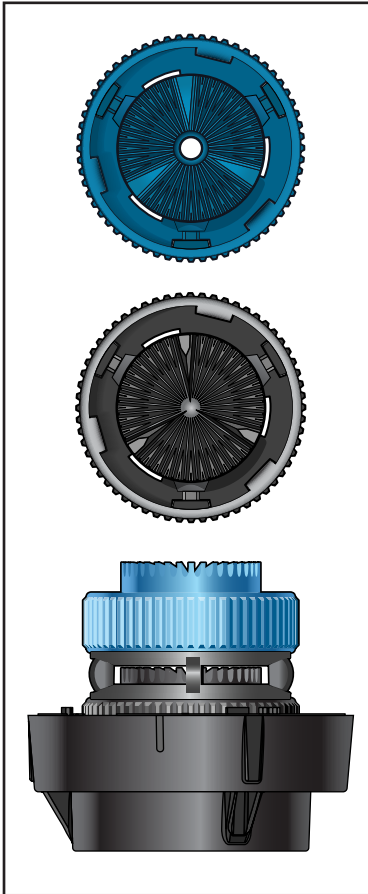
CONVEX



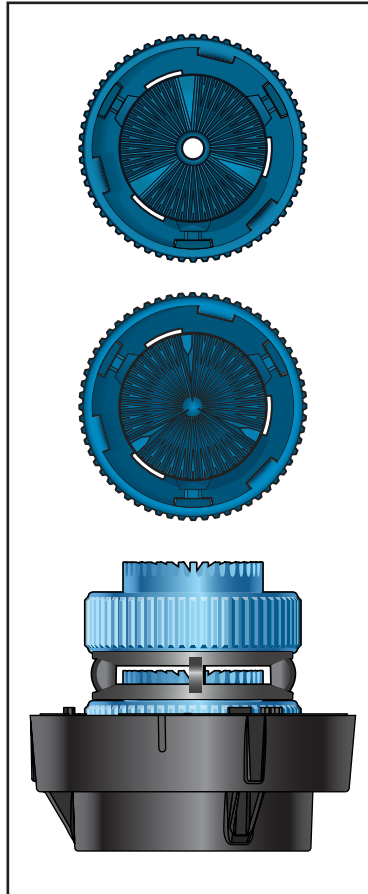
- 1 **LDNPHDVUP3B** (above)
V = Convex (green) (33)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #10 - #26
- 3 **LDNPHDVDGUP3B**
V = Convex (green)
DG = Deep Groove (24)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #4 - #26
- 4 **LDNPHDMVUP3B**
M = Mini, V = Convex (green) (24)
UP3B = UP3 Bubbler Pad As'bly
Nozzles #4 - #9.5
- 5 **LDNPHDVSUP3B**
V = Convex (green)
S = Smooth
UP3B = UP3 Bubbler Pad As'bly
Nozzles #4 - #14.5
- 6 **LDNPHDMV12UP3B**
M = Mini, V = Convex (green)
12 = 12 grooves
UP3B = UP3 Bubbler Pad As'bly
Nozzles #2 - #5

LEPA UP3[®] Bubbler Pad Assemblies - Double & Triple

DOUBLE

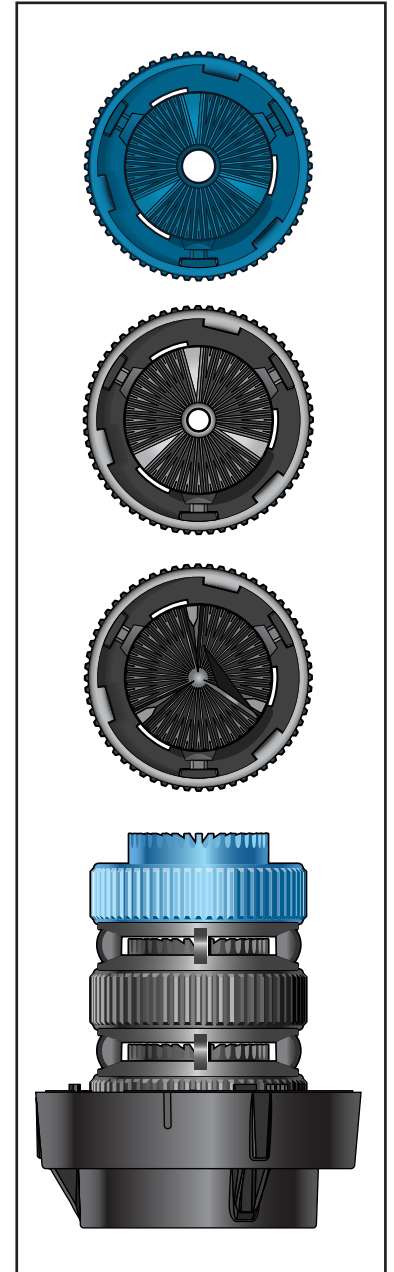


① **LDNPHD2CFUP3B**
2 = Double Pad
C = Concave (*blue*) (33)
 with 0.198" hole
F = Flat (*black*) (33)
UP3B = UP3 Bubbler
 Pad Assembly
 Nozzles #15 - #26



② **LDNPHD2CCUP3B**
2 = Double Pad
C = Concave (*blue*) (33)
 with 0.198" hole
C = Concave (*blue*) (33)
UP3B = UP3 Bubbler
 Pad Assembly
 Nozzles #15 - #26

TRIPLE



③ **LDNPHD3CFFUP3B**
3 = Triple Pad
C = Concave (*blue*) (33)
 with 0.298" hole
F = Flat (*black*) (33)
 with 0.198" hole
F = Flat (*black*) (33)
UP3B = UP3 Bub. Pad As'by
 Nozzles #20 - #26