



**NDS**<sup>®</sup>

We put water in its place

# Downspout Solutions for Common Problems



# Downspout Problems

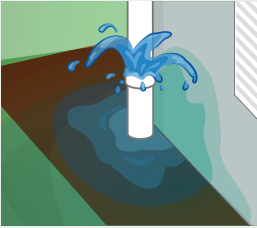
Downspout runoff close to a building foundation causes serious problems that are expensive to fix:

- Basement or crawlspace flooding
- Moisture issues in walls and foundations
- Unhealthy mold and mildew growth
- Flooding death of foundation plantings

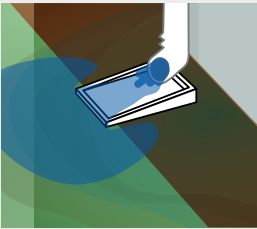


Visit [ndspro.com/home-drainage](https://www.ndspro.com/home-drainage) for installation videos and instructions on how to solve your drainage problem!

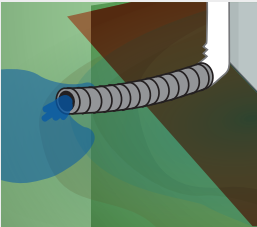
# Upgrade From These Problems With an NDS Downspout Solution



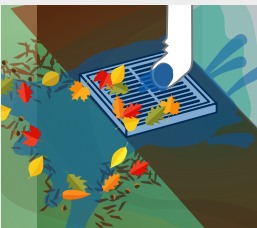
**Direct Transitions** without an overflow or cleanout are prone to clogs causing backups and flooding



**Downspout Aprons** don't move water far enough away from foundations and can add to erosion and flooding



**Above-Ground Pipes and Extensions** are unattractive and can be a serious maintenance and tripping hazard



**Flat Grates** cause splashing, can clog with debris and heavy-flows often overshoot the grate

**Address these issues today!**

NDS offers effective Downspout Solutions that provide real value and protection for your customers.



Visit [ndspro.com/submyourdesign](https://ndspro.com/submyourdesign) and the NDS Team will take out the guesswork on your next project.

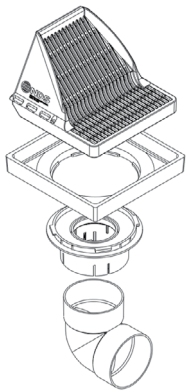
## Downspout Defender Grade

Self-cleaning Downspout Defender Grade prevents debris from entering and clogging the drainage system. Sidewalls prevent splashing and angled grate face accepts even the heaviest flows: 9" for downspouts 2" to 4" round or square; and 12" for downspouts up to 6". Use with basin and filter to prevent even the smallest debris from entering and clogging the drainage system, critical when dry wells or infiltration trenches are part of the downstream drainage system.

### With Low-Profile Adapter

#### Use when:

- Trees overhang the roof
- Gutters lack leaf screens



#### Downspout Defender

900DSG 9"x9"  
1200DSG 12"x12"

#### Low-Profile Adapter

930 9"x9"  
1230 12"x12"

#### Outlet Adapter

1243 Fits 3" and 4"  
pipe & fittings

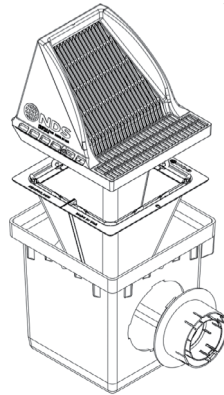
#### Fitting Elbow

3P02 3" S&D 90°  
4P02 4" S&D 90°  
4PVAF 4" S&D 0-90°

### With Catch Basin & Filter

#### Use when:

- Many trees overhang the roof
- Dry well or infiltration trench downstream



#### Downspout Defender

900DSG 9"x9"  
1200DSG 12"x12"

#### Catch Basin Filter

900F 9"x9"  
1200F 12"x12"

#### Catch Basin

900 9"x9"  
1200 12"x12"

#### Outlet Plug

1206 Fits catch basin  
openings

#### Outlet Adapter

1243 Fits 3" and 4"  
pipe & fittings  
1266 Fits 6" pipe



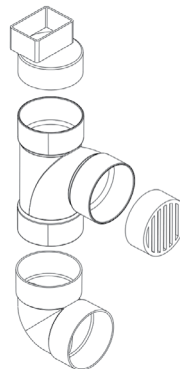
## Downspout Adapters with Overflow Cleanout

#### Use when:

- There is small chance of debris entering the system
- No trees overhanging the roof
- Gutters have leaf screens

NDS Downspout Adapters are available in straight and offset alignments and fit downspouts from 2" x 3" to 4" x 6" and round drainage pipes from 3" to 6".

An overflow will direct any backed-up flows away from the foundation wall. The grate can then be removed to clear the clog.



#### Downspout Adapter

9P03 (2"x3") 3" S&D  
9P04 (2"x3") 4" S&D  
9P13 (2"x4") 4" S&D

#### Sanitary Tee

3P03 3" S&D  
4P04 4" S&D

#### Fitting Grate

9P12 3" S&D  
9P11 4" S&D

#### Fitting Elbow

3P02 3" S&D 90°  
4P02 4" S&D 90°  
4PVAF 4" S&D 0-90°



# Complete Your System



## Drainage Pipe & Fittings

NDS Recommends smooth-interior SDR 35 sewer and drain pipe and fittings for landscape drainage projects.



## NDS Swivel-Fit™

This 4" variable-angled fitting allows for 0-90° turns in any direction along the run.



## Catch Basin Filters

Catch basin filters prevent fines from clogging downstream system components.



## Pop-Up Emitters

Discharge system water away from foundations and outdoor living spaces in a water-safe area downstream.

# Improve Your System



## Detention and Infiltration

Placed away from foundations, NDS Flo-Well® dry wells and EZflow infiltration trenches prevent excessive runoff by providing detention capacity and recharging ground water, a stormwater best management practice.



From online tools, training and field support for your next project, NDS has experts and resources ready to help you succeed:

- Tools and Calculators
- Informational Videos
- Home Drainage Center
- DesignWorx™
- Website Lead Referrals
- Preferred Partner Program
- Contractor Training and Certification



Download on the  
**App Store**



GET IT ON  
**Google Play**

## Get The App

New NDS app is the perfect tool for determining runoff and system requirements on the go. Search NDS Stormwater Drainage Tools.



**NDS**®  
We put water in its place