

Pop-Up Drainage Emitters for 3 & 4 in. Fittings & Pipes

Part Numbers: 420, 321, 421, 430



(317) 346-4110

www.drainagesolutionsinc.com

DRAINAGE SOLUTIONS, INC

APPLICATION

- Provide a downstream point of release for collected and conveyed stormwater flows in a drainage system

FEATURES

- Spring-loaded cap on cover pops up as high as 1 in. once water pressure builds; automatically retracts when flow diminishes
- Outside flange of cover prevents turf grasses from growing over the cap
- Flat profile design reduces trip hazard posed by open drain; closed position keeps emitter flush to the ground and safe from lawn mower blades
- Cover connects to 3 in. and 4 in. S&D fitting hubs
- S&D elbows included with 321, 421 and 430 models have a small weep hole to drain out any residual water in the drainpipe following flow events to prevent stagnation or freezing in cold weather
- 124 adapter included with model 430 connects to 3 in. and 4 in. single-wall corrugated and DWV/Sch40 pipes
- Reinforced flange supports pedestrian traffic including lawn tractors when properly installed

OPERATING RANGE

- Low pressure gravity drainage systems less than 5 psi
- See Page 2 this document for outflow capacities

SPECIFICATIONS

- Cap and cover made of high-density polyethylene (HDPE) treated with UV inhibitors to prevent fading and cracking; slight color variations may occur
- S&D 90° elbows made of polyvinyl chloride (PVC)
- 1241 adapter made of polystyrene

Part Number 420

Spring-loaded emitter cap & cover only



Part Number 321

Includes 3 in. S&D 90° elbow with weephole



Part Number 421

Includes 4 in. S&D 90° elbow with weephole



Part Number 430

includes 3 in. S&D 90° elbow with weephole and NDS 1241 adapter to 3 in. and 4 in. single-wall corrugated and DWV/Schedule 40 pipes



Side View



Bottom View



Part Weights & Dimensions

Part Number	Weight (pounds)	Height (inches)	Width (inches)
420	0.3	2.25	6.50
321	0.6	5.50	6.63
421	0.8	6.75	7.31
430	1.3	6.38	9.38

Pop-Up Drainage Emitter Discharge Curves



NDS 3 in./4 in. Pop-up Emitter Outflow Capacity with S&D Elbows

