

570Z Series

0'-22' (0-6,7m) Radius



Category

- Sprinklers, Small Turf

Features

- Zero-flush seal prevents flushing on pop-up, enabling more sprinklers to be placed on the same zone
- Retraction flushing clears debris for reliable pop-down
- Low-pressure sealing at 15 PSI (1 Bar)
- Small, 2" (50mm) diameter black cap is less visible, reducing damage from exposure or vandals
- Accepts all Toro spray nozzles - including 570 MPR Plus, stream bubbler and low-angle nozzles and filter screens
- Accepts Maxijet® nozzles for low-application-rate irrigation
- Ratcheting riser feature for easy and reliable arc adjustment
- Side-inlet models available on both 6" (150mm) and 12" (300mm) sprinkler bodies for sandy soils or applications prone to high pressure surges and spikes
- Durable engineering plastic construction
- Stainless-steel retraction spring

Specifications

Featuring a low-pressure seal that flushes only upon retraction, 570Z models are ideal for small turf areas and intricate designs. Six distinct pop-up sprinkler bodies and a host of interchangeable nozzles provide unlimited design flexibility.

- Radius: 0 - 22' (0 - 6,7m)
- Flow Rate: 4.58 GPM (17,3 L/M)
- Operating pressure range: 20 - 75 PSI (1,4 – 5,2 Bar)
- Optimum operating pressure: 30 PSI (2,1 Bar)
- Recommended operating pressure range (COM models):
 - 2", 3", 4" & 6" models: 20 – 50 PSI
 - 50mm, 75mm, 100mm and 155mm models: 1,4 – 3,4 Bar
 - 12" models: 25 – 50 PSI
 - 300mm models: 1,7 – 3,4 Bar
- PCD nozzles: 30 - 75 PSI (2,1 – 5,2 Bar)
- Accepts all Toro spray, stream, flood and microspray nozzles
- Zero flush seal and cap configuration
- Exposed surface: 2" (50mm) cap diameter
- Body diameter:
 - 2", 3", 4", or 6" models: 1-3/8"
 - 50mm, 75mm, 100mm and 155mm models: 35mm
 - 12" models: 1-5/8"
 - 300mm models: 40mm
- Inlet size: 1/2" (12mm) NPT female thread
- Pop-up height:

	<u>Height</u>	<u>Pop-Up to Nozzle</u>
570Z-2P	4"	2"
570Z-3P	4-7/8"	3 1/4"
570Z-4P	6 1/4"	4 1/4"
570Z-6P	8 1/4"	6 1/4"
570Z-6P SI *	8 1/4"	6 1/4"
570Z-12P SI *	15 1/2"	12"

* Side Inlet = 4 3/4" from top of sprinkler to center of side inlet.

	<u>Height</u>	<u>Pop-Up to Nozzle</u>
570Z-2P	100mm	50mm
570Z-3P	125mm	80mm
570Z-4P	160mm	110mm
570Z-6P	210mm	160mm
570Z-6P SI *	210mm	160mm
570Z-12P SI *	395mm	300mm

* Side Inlet = 120mm from top of sprinkler to center of side inlet.

- Weight:

	<u>Ounces</u>	<u>Kilograms</u>
570Z-2P	1 oz.	.03 kg
570Z-3P	1 oz.	.03 kg
570Z-4P	1.3 oz.	.59 kg
570Z-6P	1.6 oz.	.73 kg
570Z-6P SI	1.7 oz.	.77 kg
570Z-12P SI	3.9 oz.	1.77 kg

Bidding Specifications

The sprinkler shall be of the fixed-spray type designed for in-ground installation. The sprinkler shall be capable of accepting all 570 series spray, stream, flood, and microspray nozzles and male-threaded risers and extenders. The sprinkler shall operate within a 20-75 PSI (1,4 – 5,2 Bar) pressure range.

The body and cap of the sprinkler shall be injection molded from ABS, a non-corrosive, impact-resistant, UV-resistant, heavy-duty plastic material. The sprinkler shall have a color-coded riser screen filter, stainless steel or plastic, appropriately sized to prevent entry of foreign material to the nozzle. All parts shall be removable through the top of the sprinkler case.

The sprinkler shall have a single-piece riser/body seal that flushes only upon retraction to clear any debris from around the riser, and a stainless-steel spring to ensure positive retraction. The seal shall have no flush during pop-up to allow the maximum number of sprinklers per station. The seal shall be a single piece injection molded from Alcryl, a synthetic rubber.

The sprinkler shall be capable of nozzle alignment via a two-piece ratcheting riser. The sprinkler shall be available in models with a check valve or standard models shall be capable of accepting a check valve that will prevent low-head drainage with elevation differences up to 7' (2,1m). A ½" (12mm) NPT plug shall be provided with all side inlet models to plug the unused inlet.

A biodegradable debris label shall be factory-installed to eliminate debris intrusion during installation and line flushing.

A purple effluent water use indicator shall be available and capable of snap fitting to all sprinkler caps.

570Z-2P

The sprinkler shall be of pop-up design with an overall body height of 4" (100mm), a body diameter of 1-3/8" (35mm), a cap diameter of 2" (50mm), and having a pop-up stroke of 2" (50mm).

570Z-3P

The sprinkler shall be of pop-up design with an overall body height of 4-7/8" (125mm), a body diameter of 1-3/8" (35mm), a cap diameter of 2" (50mm), and having a pop-up stroke of 3¼" (85mm).

570Z-4P

The sprinkler shall be of pop-up design with an overall body height of 6¼" (160mm), a body diameter of 1-3/8" (35mm), a cap diameter of 2" (50mm), and having a pop-up stroke of 4¼" (110mm).

570Z-6P and 570Z-6P SI

The sprinkler shall be of pop-up design with an overall body height of 8¼" (210mm), a body diameter of 1-3/8" (35mm), a cap diameter of 2" (50mm), and having a pop-up stroke of 6¼" (160mm).

570Z-12P SI

The sprinkler shall be of pop-up design with an overall body height of 15½" (395mm), a body diameter of 1-5/8" (40mm), a cap diameter of 2" (50mm), and having a pop-up stroke of 12" (300mm).

The sprinkler shall be developed and manufactured by an ISO 9001-certified facility. The sprinkler shall be a model number _____ and shall be manufactured by The Toro Company, Irrigation Division, Riverside, California, USA.

Recommended Installation Instructions

The 570Z Series is available in a 2", 3", 4", 6", or 12" (50, 75, 100, 150 or 300mm) pop-up with standard cap, seal, and nozzle parts. In addition, all have a similar family look.

Fixed sprays are used in many applications and thus several installations are possible.

For areas bordering hardscape features such as sidewalks, it is recommended that sprinklers be mounted on either swing joints or flexible poly pipe. The use of such mounting will allow lateral movement of the sprinkler without incurring damage in those areas where maintenance operations and traffic patterns may logically be assumed.

The use of Toro Super Funny Pipe will also accommodate the mounting of 6" (150mm) and 12" (300mm) sprinklers without the necessity for deep trenching.

The use of saddle tees will allow placement of sprinklers anywhere along a normal length of PVC pipe without cutting and may be a significant timesaver to the contractor.

Toro Super Funny Pipe and fittings are rated at 400 PSI (27,6 Bar) burst and may eliminate any clamping requirements. Normal clamping procedures should be specified for markets where poly pipe in larger sizes is the standard installation device.

Fixed sprays are often mounted on fixed risers. Such installation is appropriate for shrubs, ground cover or other areas where traffic or vandalism is not perceived to be a problem. Once again, saddle tees will allow easy sprinkler placement anywhere along a normal length of PVC pipe. The sprinkler can then be attached to the saddle tee via a threaded riser. The 12" (300mm) high-pop model may prove to be of particular benefit in areas of ivy, higher shrubs or where long-range maturity will produce taller plants. Both pop-up and fixed sprays should be placed perpendicular to finished grade for optimum performance.

All 570Z Series sprinklers flush only upon retraction. No flush during pop-up allows the maximum number of sprinklers according to the hydraulic capabilities of the zone. Flushing during retraction clears debris from around the riser, preventing scoring of the riser and ensuring positive retraction.

All 570Z sprinklers will accept any 570 nozzle. Thus, in a pop-up sprinkler mounted at grade, it is possible to specify flood bubbler, stream bubbler, stream spray, microspray, special pattern, adjustable arc or any standard 570 spray nozzle. This ability to mix and match allows specification of any odd-shape or standard sprinkler pattern with full confidence. It also allows system designs which reduce liability potential through the use of pop-up sprinklers in areas that have traditionally been covered with fixed risers and often reinforced with rebar.

In areas of high pressure, 30 - 75 PSI (2,1 – 5,2 Bar), a pressure-compensating nozzle should be specified. The use of pressure-compensating nozzles ensures that each nozzle is performing at its optimum pressure of 30 PSI (2,1 Bar). This standardizes performance along long laterals where elevation differences occur and will prevent fogging due to high pressures. Fixed sprays do not need to be mounted directly next to sidewalks, buildings or other hardscape features. Placement 1" - 2" (25 – 50mm) away will allow normal maintenance procedures and still accommodate at-head watering.

Specifying Information - 570Z Series		
570Z - X(X)P (SI) / (COM)		
Pop-Up Height	Optional	Optional
2—50 mm (2")	SI—Side Inlet (Optional for 150 mm (6") and 300 mm (12") Non-COM models)	COM—Check-O-Matic
3—75 mm (3")		
4—100 mm (4")		
6—150 mm (6")		
12—300 mm (12")		
For Example: When ordering a 150 mm (6"), 570 Series Sprinkler with a check valve, you would order: 570Z-6P-COM		

