

Gear drive pop-up sprinkler **HYDRA-2-S**



Application:
golf tees, golf greens, parks,
private gardens

Technical data

Nozzle variations: 4 - 9 mm
No. of nozzles: with 3 and 4 nozzles
Operating pressure: 4,0 - 7 bar
Casting range: 14,5 - 25 m
Flow rate: 2,5 - 11,3 m³/h
Trajectory: 25°
Inlet: 1" female thread
 Inlet bushing made of brass

Benefits

- Central flow system reduces hydraulic friction and improves the performance efficiency
- Both left(+/-90°) and right(30-330°) sectors are adjustable
- Arc can be adjusted also with sprinkler in operation
- Closed case rotor
- Rotation speed adjustable (130 - 280 sec/360°)
- Tail nozzle 4,2 mm for apron irrigation - casting range 10-11 m
- High endurance ball bearings used inside the sprinkler
- All parts can be serviced from the top of the sprinkler without the need for digging
- Flushing techniques ensure positive pop-up and pop-down
- Manual control and pressure regulation can be adjusted from the top of the sprinkler (ON-OFF- AUTO)

NEW AT HYDRA-2-S/SVAC

- Improved sand protection
- Improved short range distribution uniformity of the nozzle 6 and 7 under low pressure conditions down to 5 bar
- Cover form-fitted to the body and secured with a screw
- Easier installation and maintenance using the CID (Coil integrated decoder)
- Form-fitting fixation of the riser inlet filter

| sprinkler type Regnertyp | inlet Anschlußgewinde | body height Einbauhöhe | pop-up height Aufstiegshöhe | minimum pressure Mindestdruck | exposed surface Ø Außen-Ø Gehäuse | cap Ø Außen-Ø Kopf |
|-----------------------------|--------------------------|---------------------------|--------------------------------|----------------------------------|--------------------------------------|-----------------------|
| HYDRA-2-S | 1" IG / female | 274 mm | 80 mm | 3,5 bar | 115 mm | 60 mm |
| HYDRA-2-S VAC | 1" IG / female | 344 mm | 80 mm | 3,5 bar | 162 mm | 60 mm |

Types available

- Full and part circle sprinkler with
- stopp valve (H)
 - back nozzle (D)
 - valve-in-head (VAC)
 - valve-in-head and decoder (CID)

Standard nozzle preset

HYDRA-2-S with 3 nozzles

| Betriebs- druck operating pressure | Düse/nozzle 4 mm/ 0,16" | | Düse/nozzle 5 mm/ 0,20" | | Düse/nozzle 6 mm/ 0,24" | | Düse/nozzle 7 mm/ 0,28" | | Düse/nozzle 8 mm/ 0,32" | | Düse/nozzle 9 mm/ 0,35" | | Düse/nozzle | | Düse/nozzle | | Düse/nozzle | | Düse/nozzle | | |
|---|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|-------------|---|-------------|---|-------------|---|-------------|---|--|
| | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | |
| 2,5 bar | | | | | | | | | | | | | | | | | | | | | |
| 3,0 bar | | | | | | | | | | | | | | | | | | | | | |
| 3,5 bar | | | | | | | | | | | | | | | | | | | | | |
| 4,0 bar | 2,5 | 14,5 | 3,2 | 16,0 | 4,1 | 16,5 | 5,1 | 18,0 | 6,2 | 20,0 | 7,5 | 21,0 | | | | | | | | | |
| 4,5 bar | | | | | | | | | | | | | | | | | | | | | |
| 5,0 bar | 2,8 | 15,5 | 3,6 | 17,0 | 4,6 | 18,0 | 5,7 | 19,5 | 6,9 | 21,5 | 8,3 | 22,5 | | | | | | | | | |
| 5,5 bar | | | | | | | | | | | | | | | | | | | | | |
| 6,0 bar | 3,0 | 16,5 | 3,9 | 18,0 | 5,0 | 19,5 | 6,2 | 21,0 | 7,6 | 23,0 | 9,1 | 24,0 | | | | | | | | | |
| 7,0 bar | 3,3 | 17,0 | 4,3 | 18,5 | 5,4 | 20,5 | 6,7 | 22,0 | 8,2 | 24,0 | 9,9 | 25,0 | | | | | | | | | |
| 8,0 bar | | | | | | | | | | | | | | | | | | | | | |

HYDRA-2-S with 4 nozzles

| Betriebs- druck operating pressure | Düse/nozzle 4 mm/ 0,16" | | Düse/nozzle 5 mm/ 0,20" | | Düse/nozzle 6 mm/ 0,24" | | Düse/nozzle 7 mm/ 0,28" | | Düse/nozzle 8 mm/ 0,32" | | Düse/nozzle 9 mm/ 0,35" | | Düse/nozzle | | Düse/nozzle | | Düse/nozzle | | Düse/nozzle | | |
|---|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|-------------|---|-------------|---|-------------|---|-------------|---|--|
| | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | m³/h | m | |
| 2,5 bar | | | | | | | | | | | | | | | | | | | | | |
| 3,0 bar | | | | | | | | | | | | | | | | | | | | | |
| 3,5 bar | | | | | | | | | | | | | | | | | | | | | |
| 4,0 bar | 3,6 | 14,5 | 4,3 | 16,0 | 5,2 | 16,5 | 6,1 | 18,0 | 7,3 | 20,0 | 8,5 | 21,0 | | | | | | | | | |
| 4,5 bar | | | | | | | | | | | | | | | | | | | | | |
| 5,0 bar | 4,0 | 15,5 | 4,8 | 17,0 | 5,8 | 18,0 | 6,9 | 19,5 | 8,1 | 21,5 | 9,5 | 22,5 | | | | | | | | | |
| 5,5 bar | | | | | | | | | | | | | | | | | | | | | |
| 6,0 bar | 4,3 | 16,5 | 5,2 | 18,0 | 6,3 | 19,5 | 7,5 | 21,0 | 8,9 | 23,0 | 10,4 | 24,0 | | | | | | | | | |
| 7,0 bar | 4,7 | 17,0 | 5,7 | 18,5 | 6,8 | 20,5 | 8,1 | 22,0 | 9,6 | 24,0 | 11,3 | 25,0 | | | | | | | | | |
| 8,0 bar | | | | | | | | | | | | | | | | | | | | | |

Radius derived from tests under real conditions, with rotating sprinkler installed at ground level (sprinkler model without valve)
Wurfweite gemessen unter natürlichen Bedingungen, mit drehendem Regner auf Bodenhöhe installiert (Regner-Modell ohne Ventil)

Garantie: 5 Jahre
Warranty: 5 years