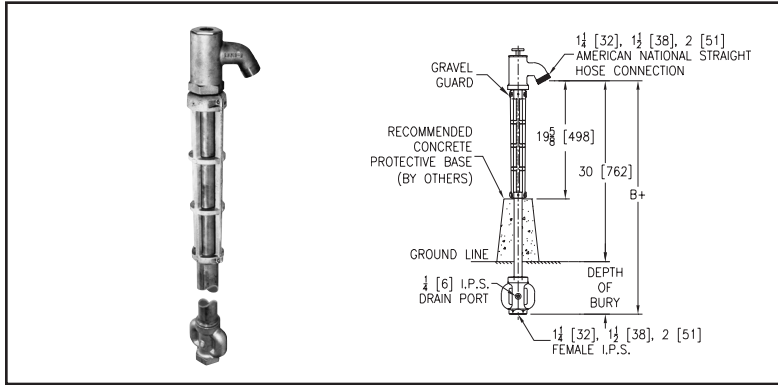


Z1390 POST HYDRANT – Exposed Head, Non-Freeze



ENGINEERING SPECIFICATION: ZURN Z1390 Exposed, non-freeze post hydrant. Complete with bronze casing and cast aluminum casing guard, all bronze interior parts, bronze seat and replaceable seat washer, and non-turning operating rod with free-floating compression closure valve with 1-1/4" [32 mm], 1-1/2" [38 mm], or 2" [51 mm] connection. "T" handle operating key included. Hydrant is equipped with a tapped 1/4" [19 mm] drain port in valve housing.

Notes:

1. 'B' Dimension based on outlet connection 30" [762 mm] above ground.
2. **Important:** Hydrant must be opened one turn to seal drain port during use.

Depth of Bury Feet [mm]	B+ Dimension Feet [mm]	Approx. Wt. Lbs. [Kg]
2 [610]	4-1/2 [1372]	57 [26]
3 [914]	5-1/2 [1676]	62 [28]
4 [1219]	6-1/2 [1981]	67 [30]
5 [1524]	7-1/2 [2286]	72 [33]
6 [1829]	8-1/2 [2591]	77 [35]
7 [2134]	9-1/2 [2896]	82 [37]
8 [2438]	10-1/2 [3200]	87 [39]
9 [2743]	11-1/2 [3505]	92 [42]
10 [3048]	12-1/2 [3810]	97 [44]

Z1390 Post Hydrant

The Z1390 is an exposed head, non-freeze post hydrant designed for use in areas such as parks and recreational facilities, gardens, farms, stables, agricultural, and industrial applications.

Hydrant Features

- **Certification** – IAPMO® listed.
- **Valve Seat** – Removable bronze valve seat with circular seating surface.
- **Valve** – One-piece assembly, replaceable, free-floating compression closure valve plunger operates the water flow and drainage with a maximum of five (5) turns.
- **Casing** – Threaded brass pipe nipple.
- **Casing Guard** – Cast aluminum guard provides damage protection to the casing.
- **Operating Screw** – Brass operating screw secured with polished brass face nut.
- **Operating Rod** – 1/2" [13 mm] solid brass.
- **Drainage** – Tapped, siphon-resistant drain port located in valve housing prevents sub-surface water contamination from entering the hydrant. **Important: Hydrant must be opened one complete turn to seal drain port during use.**
- **Depth of Bury** – Available from two (2) feet [610 mm] to ten (10) feet [3048] in one (1)-foot increments.
- **Operating Pressures** – Minimum running pressure 8 psi. Maximum static pressure 125 psi.
- **Water Temperature Range** – Minimum 33°F. Maximum 130°F.

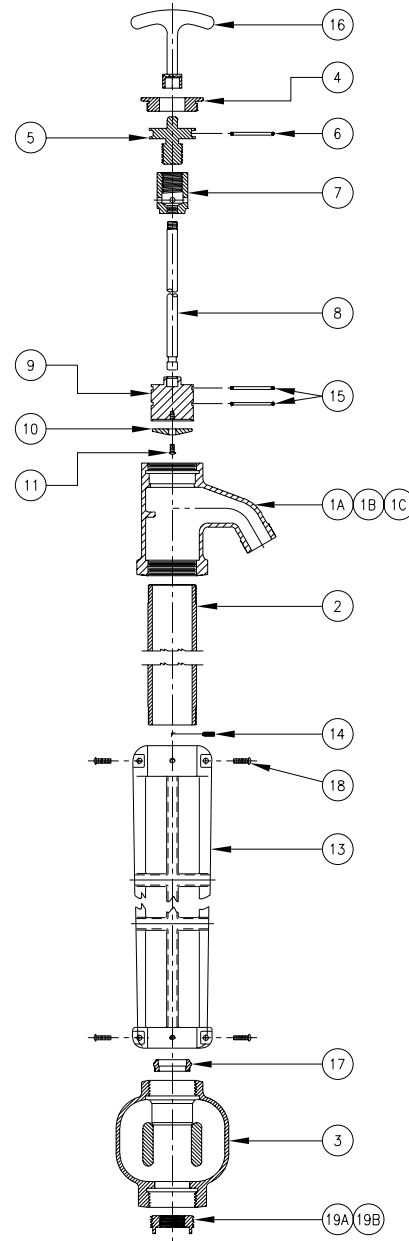
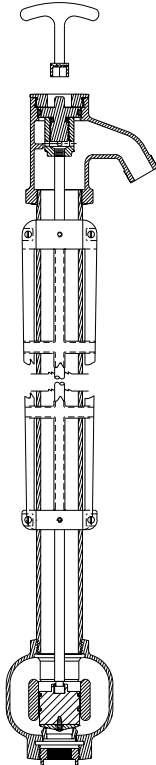
OPTIONS

SUFFIXES

- RK Hydrant Parts Repair Kit
- WH Wheel Handle

Z1390 POST HYDRANT Parts Assembly, Parts List, and Operating Rod Assemblies

Z1390 Parts Assembly

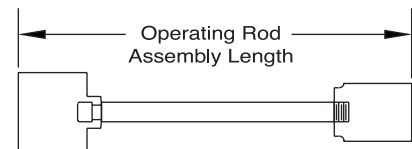


Z1390 Parts List

Item	Description	Qty.	Part No.
1A	Head – 1-1/4" Hose Connection	1	25519-003
1B	Head – 1-1/2" Hose Connection	1	25519-002
1C	Head – 2" Hose Connection	1	25519-001
2	Casing	1	25515-XXX
3	Valve Housing	1	25517-003
4	Face Nut	1	25505-001
*5	Operating Screw	1	25506-001
*6	O-Ring	1	23750-037
*7	Operating Coupling	1	25507-001
8	Operating Rod	1	25516-XXX
9	Washer Guide	1	31436-001
*10	Washer	1	25520-001
*11	Screw #10-24 NC	1	14853-042
13	Casing Guard	2	38489-001
14	Casing Guard Setscrew	2	18006-045
*15	O-Ring	2	23750-040
*16	Key	1	11600-001
*17	Removable Seat	1	25510-001
18	Screw #10-24 NC	4	14853-046
19A	1-1/2" x 2" Bushing	1	23471-007
19B	1-1/4" x 2" Bushing	1	23471-009

Operating Rod Assemblies

2' Bury	55"
3' Bury	67"
4' Bury	79"
5' Bury	91"
6' Bury	103"
7' Bury	115"
8' Bury	127"
9' Bury	139"
10' Bury	151"



*Items are available in -RK Repair Kit Option bag (#66955-200-9).

Z1390 POST HYDRANT Troubleshooting Guide

Z1390 Troubleshooting Guide

PROBLEM	CAUSE	SOLUTION
Hydrant will not operate when turned on.	Water supply is shut off.	Turn on water supply.
Cannot turn the hydrant on with key.	Hydrant hasn't been used for a long time – O-Ring has adhered to the operating screw and head.	Follow steps 1-2, 4, and 7-8 of the Service Guide.
Water does not shut off completely when hydrant is turned off.	Debris between seat and washer.	Follow steps 1-3 and 6-8 of the Service Guide. Clean by turning water supply on and flush hydrant.
	Washer is worn out.	Follow steps 1-3 and 5-8 of the Service Guide.
	Wire draw in seat.	Replace seat.
Water is flowing out of the hydrant drainage port when the hydrant is turned on.	Washer guide O-Rings are broken or missing.	Follow steps 1-3 and 5-8 of the Service Guide.
Hydrant exhibits low flow.	Water supply to hydrant is restricted.	Check water supply to ensure that all upstream valves are fully open.

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
 ⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov
 ⚠ **AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

Z1390 POST HYDRANT Service Guide

Z1390 Service Guide

Step 1: Shutting Off the Water Supply to the Hydrant

Locate the supply shut-off valve and rotate until water supply is off.

Step 2: Removing the Face Nut and Adjacent Components

Using crescent wrench or 1-1/2 inch open-end wrench, remove the face nut (4) from head (1) by turning counterclockwise.

Step 3: Removing the Internal Operating Assembly

The internal operating assembly (5-11 and 15) can be removed by gripping the square end of the operating screw (5) with a pair of pliers and pulling straight out.

If the operating screw O-Ring was not the reason for service – skip to step 5.

Step 4: Replacing the Operating Screw O-Ring

Remove the operating screw (5) from operating coupling (7) by turning clockwise and slip the old O-Ring (6) off, and replace with new O-Ring (6). Reinstall operating screw (5) into operating coupling (7) by turning counterclockwise. **(Note:** Lubricate the operating screw (5) threads and the O-Ring (6) with Lubriplate FGL-2 if needed.)

If the hydrant shutoff washer and washer guide O-Rings were not the reason for service – skip to step 8.

Step 5: Replacing the Hydrant Shutoff Washer and Washer Guide O-Rings

Remove #10-24 NC x 3/8 screw (11) using a flat screwdriver and turning screw (11) counterclockwise, remove washer (10) and replace with new washer (10) and new screw (11) turning screw clockwise until tight. Remove old O-Rings (15) and replace with new O-Rings (15). **(Note:** Lubricate the O-Rings (15) with Lubriplate FGL-2 if needed.)

Step 6: Replacing the Internal Operating Assembly

There is a flat or a V-notched boss inside of the hydrant head (1) that keeps the operating coupling (7) from rotating when hydrant is turned on and off. With operating screw (5) turned counterclockwise into operating coupling (7) until it stops, and making sure that a flat side or corner of operating coupling (7) lines up with appropriate boss, reinsert the internal operating assembly into the hydrant.

Step 7: Replacing the Face Nut

Insert face nut (4) into head (1), and rotate clockwise until hand tight, then using a crescent wrench or 1-1/2 inch open end wrench, snug nut (4) tight.

Step 8: Turning On the Water Supply

Locate the water supply shut-off valve and rotate until water supply is on.