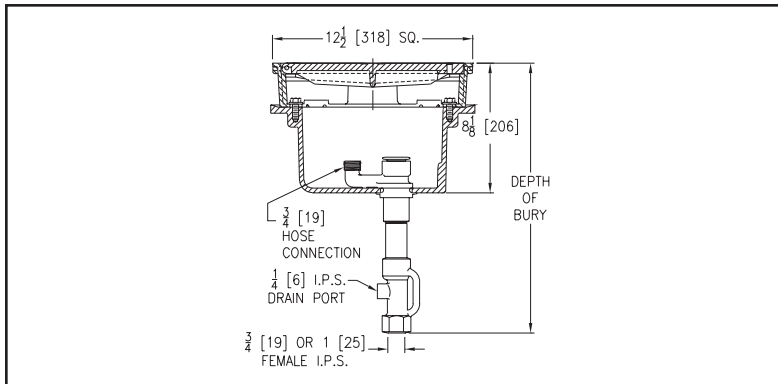


Z1370 GROUND HYDRANT – Encased, Hose Storage, Non-Freeze



ENGINEERING SPECIFICATION: ZURN Z1370 Encased, non-freeze ground hydrant for flush with grade or finished floor installation. Complete with bronze casing, all bronze interior parts, bronze seat and replaceable seat washer, and non-turning operating rod with free-floating compression closure valve. Cast iron box provides hose storage and is complete with scoriated hinged cover with operating key lock. Hydrant is equipped with a tapped 1/4" [6 mm] drain port in valve housing. (Hose should always be disconnected for storage.)

Important – Hydrant must be opened one turn to seal drain port during use.

Depth of Bury Feet [mm]	2' [610]	3' [914]	4' [1219]	5' [1524]	6' [1829]	7' [2134]	8' [2438]	9' [2743]	10' [3048]
Approx. Weight Lbs. [Kg]	81 [37]	85 [39]	89 [40]	93 [42]	97 [44]	101 [46]	105 [48]	109 [49]	113 [51]

Z1370 Ground Hydrant

The Z1370 is an encased, non-freeze ground hydrant designed for applications such as parks, recreational areas, garden areas, and industrial facilities.

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 two and three-quarter (2-3/4) turns.
- **Casing** – Threaded brass pipe nipple.
- **Operating Screw** – Brass operating screw secured with polished brass face nut.
- **Operating Rod** – 3/8" [10 mm] solid brass.
- **Box and Cover** – Cast iron box and hinged, scoriated cover with operating key lock provides hose storage area. (Hose should always be disconnected for storage.)
- **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 mm] in one (1)-foot [30 m] increments.
- **Operating Pressures** – Minimum running pressure 8 psi. Maximum static pressure 125 psi.
- **Water Temperature Range** – Minimum 33°F. Maximum 130°F.

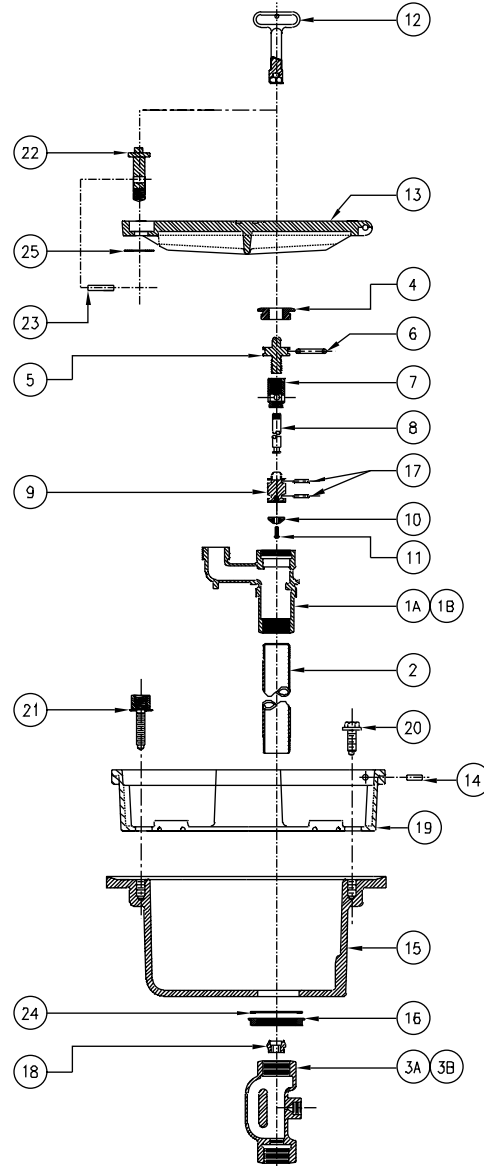
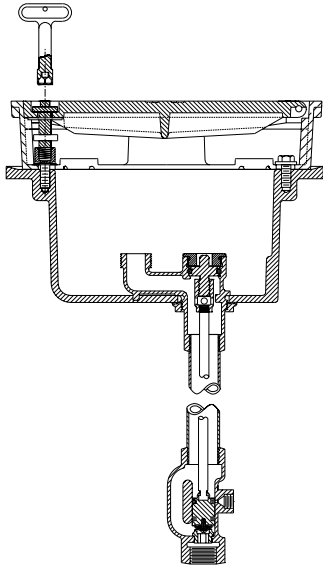
OPTIONS

SUFFIXES

- DP12** 1/2" [13 mm] IP Drain Port in Box
- DP14** 1/4" [6 mm] IP Drain Port in Box
- DP38** 3/8" [10 mm] IP Drain Port in Box
- NB** Polished Nickel Bronze Face
- PB** Polished Bronze Face
- RB** Plain Bronze Face
- RK** Hydrant Parts Repair Kit
- WR** "WATER" Cast on Cover

Z1370 GROUND HYDRANT Parts Assembly, Parts List, and Operating Rod Assemblies

Z1370 Parts Assembly

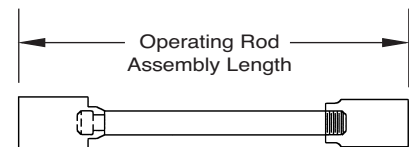


Z1370 Parts List

Item	Description	Qty.	Part No.
1A	Head – 3/4" Hose Connection	1	25302-001
1B	Head – 1" Hose Connection	1	25303-001
2	Casing	1	50270-XXX
3A	Valve Housing – 3/4" Female NPT Inlet	1	25324-003
3B	Valve Housing – 1" Female NPT Inlet	1	25324-004
4	Face Nut	1	22156-002
*5	Operating Screw	1	25049-001
*6	O-Ring	1	23750-028
*7	Operating Coupling	1	25147-001
8	Operating Rod	1	33375-XXX
9	Washer Guide	1	25323-001
*10	Washer	1	23075-001
*11	Screw #10-24 NC	1	14853-042
*12	Key	1	59546-001
13	Hydrant Cover	1	61755-003
14	Hinge Pin	2	06567-065
15	Hydrant Body	1	32714-013
16	Locknut	1	25242-001
*17	O-Ring	2	23750-036
*18	Removable Seat	1	25262-001
19	Frame	1	56499-002
20	Cap Screw – 3/8-16 NC	3	26050-043
21	Locking Coupling	1	56711-001
22	Locking Pin Screw	1	56712-001
23	Locking Pin	1	25307-001
24	Gasket	1	21425-060
25	Washer	1	14858-005

Operating Rod Assemblies

2' Bury	14-3/4"
3' Bury	26-3/4"
4' Bury	38-3/4"
5' Bury	50-3/4"
6' Bury	62-3/4"
7' Bury	74-3/4"
8' Bury	86-3/4"
9' Bury	98-3/4"
10' Bury	110-3/4"



*Items are available in -RK Repair Kit Option bag (#66955-204-9).

Z1370 GROUND HYDRANT Troubleshooting Guide

Z1370 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.

Z1370 GROUND HYDRANT Service Guide

Z1370 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 17) 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 (17) and replace with new O-Rings (17). **(Note:** Lubricate the O-Rings (17) 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.

⚠ **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

Z1370 GROUND HYDRANT 3/4" Hose Connection Chart and Graph

Z1370 Ground Hydrant – 3/4" Hose Connection				
Static Pressure (psi)	Running Inlet Pressure (psi)	Running Outlet Pressure (psi)	Flow Rate (gpm)	Pressure Drop Across Unit (psi)
10	5.3	0.7	5.3	4.7
20	13.5	2.3	8.4	11.2
30	21.9	4.1	10.7	17.8
40	30.4	6.0	12.6	24.4
50	39.1	8.1	14.3	31.0
60	46.6	9.9	15.6	36.7
70	57.9	12.4	17.4	45.5
80	66.2	14.8	18.6	51.4
90	73.7	16.0	19.6	57.7

