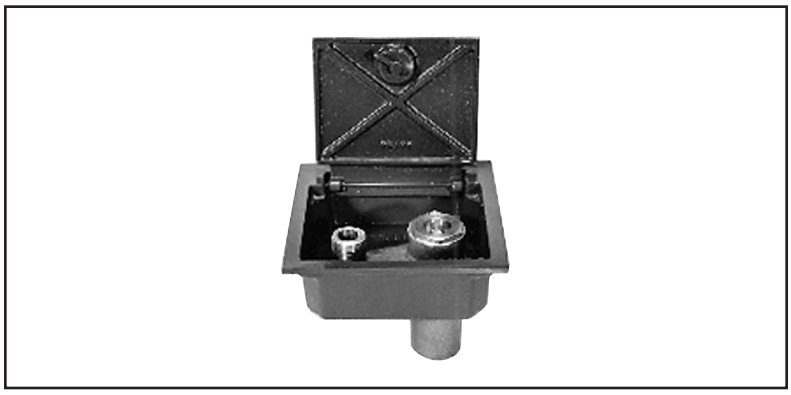
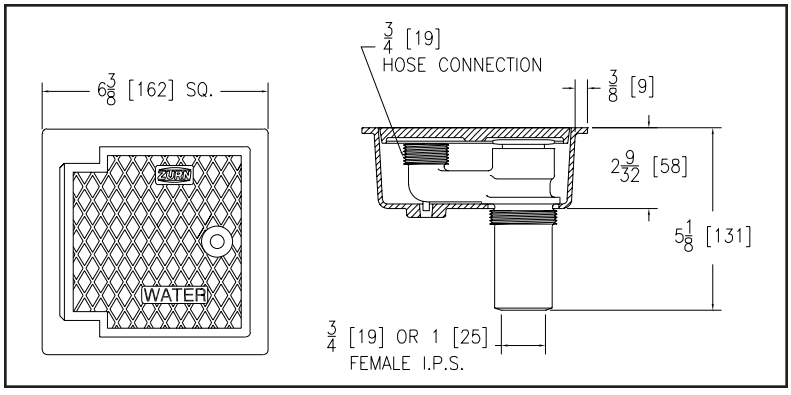
Z1375 GROUND HYDRANT – Encased, Moderate Climate, Interior Use





ENGINEERING SPECIFICATION: ZURN Z1375 Encased, moderate climate ground hydrant for flush with grade or finished floor installation. Complete with all bronze interior parts, replaceable bronze seat and seat washer, and non-turning operating coupling with free-floating compression closure valve. D.C.C.I. box and scoriated hinged cover with "WATER" cast on cover.

Z1375 Ground Hydrant

The Z1375 is an encased, moderate climate, interior use ground hydrant designed for applications such as garden areas, supermarkets, and malls.

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 with a maximum of two (2) turns.
- ***Operating Screw*** **–** Brass operating screw secured with polished brass face nut.
- ***Box and Cover*** **–** Dura-Coated cast iron box and hinged, scoriated cover with "WATER" stamping.
- ***Approximate Shipping Weight*** **–** 8 lbs. [4 kg]
- ***Operating Pressures*** **–** Minimum running pressure 8 psi. Maximum static pressure 125 psi.
- ***Water Temperature Range*** **–** Minimum 33°F. Maximum 130°F.

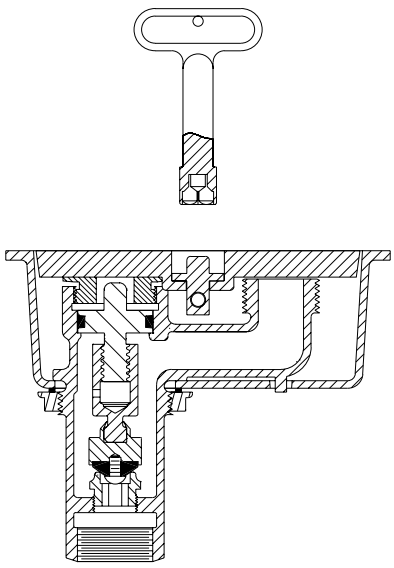
OPTIONS

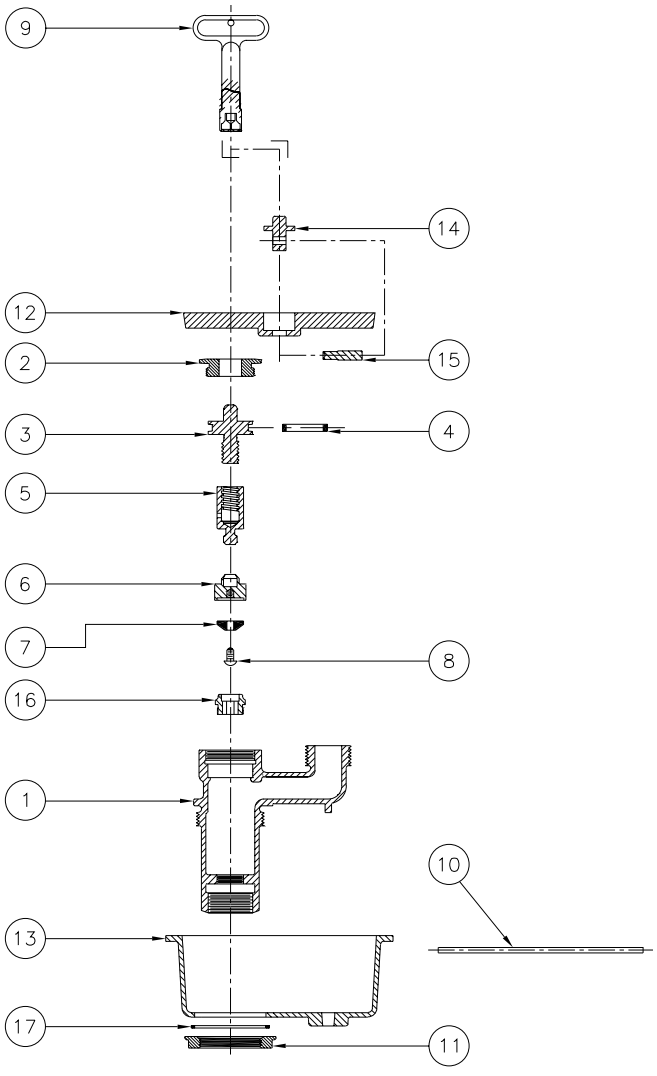
SUFFIXES

–DP14	1/4" [6 mm] IP Drain Port in Box
–HD	Heavy-Duty Cover (Cast Iron and -NB Only)
–NB	Polished Nickel Bronze Face
–PB	Polished Bronze Face
–RK	Hydrant Parts Repair Kit
–VB	3/4" [19 mm] Adapter Vacuum Breaker (Needs deeper box to accommodate vacuum breaker.)

Z1375 GROUND HYDRANT Parts Assembly and Parts List

Z1375 Parts Assembly





Z1375 Parts List

Item	Description	Qty.	Part No.
1	Head	1	25331-001
2	Face Nut	1	22156-002
*3	Operating Screw	1	25049-001
*4	O-Ring	1	23750-028
*5	Operating Coupling	1	25330-001
*6	Washer Guide	1	25050-001
*7	Washer	1	23075-001
*8	Screw #10-24 NC	1	14853-042
*9	Hydrant Key	1	59546-001
10	Hinge Pin	1	06567-050
11	Locknut	1	25242-001
12	Hydrant Cover	1	26135-001
13	Hydrant Body	1	25301-001
14	Locking Pin Mounting	1	25306-001
15	Locking Pin	1	25307-001
*16	Removable Seat	1	25262-001
17	Gasket	1	21425-060

*Items are available in -RK Repair Kit Option bag (#66955-205-9).

Z1375 GROUND HYDRANT Troubleshooting Guide

Z1375 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.
Hydrant exhibits low flow.	Water supply to hydrant is restricted.	Check water supply to ensure that all upstream valves are fully open.

Z1375 GROUND HYDRANT Service Guide

Z1375 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 (2) from head (1) by turning counterclockwise.

Step 3: Removing the Internal Operating Assembly
The internal operating assembly (3-8) can be removed by gripping the square end of the operating screw (3) 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 (3) from operating coupling (5) by turning clockwise and slip the old O-Ring (4) off, and replace with new O-Ring (4). Reinstall operating screw (3) into operating coupling (5) by turning counter-clockwise. (**Note:** Lubricate the operating screw (5) threads and the O-Ring (4) with Lubriplate FGL-2 if needed.)

If the hydrant shutoff washer was not the reason for service – skip to step 8.

Step 5: Replacing the Hydrant Shutoff Washer
Remove #10-24 NC x 3/8 screw (8) using a flat screwdriver and turning screw (8) counterclockwise, remove washer (7) and replace with new washer (7) and new screw (8) turning screw clockwise until tight.

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 (5) from rotating when hydrant is turned on and off. With operating screw (3) turned counterclockwise into operating coupling (5) until it stops, and making sure that a flat side or corner of operating coupling (5) lines up with appropriate boss, reinsert the internal operating assembly into the hydrant.

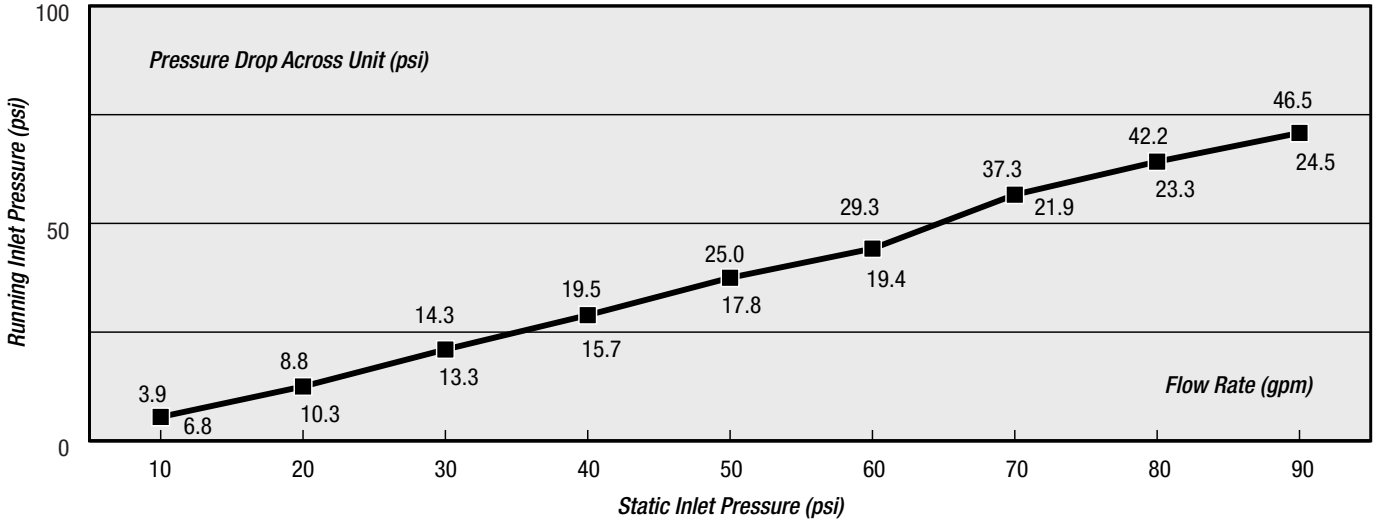
Step 7: Replacing the Face Nut
Insert face nut (2) into head (1), and rotate clockwise until hand tight, then using a crescent wrench or 1-1/2 inch open end wrench, snug nut (2) tight.

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

Z1375 GROUND HYDRANT 3/4" Hose Connection Chart and Graph

Z1375 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	5.5	1.5	6.8	3.9
20	12.5	3.7	10.3	8.8
30	21.0	6.7	13.3	14.3
40	28.9	9.5	15.7	19.5
50	37.5	12.5	17.8	25.0
60	44.2	14.9	19.4	29.3
70	56.6	19.3	21.9	37.3
80	64.2	21.9	23.3	42.2
90	70.8	24.3	24.5	46.5



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