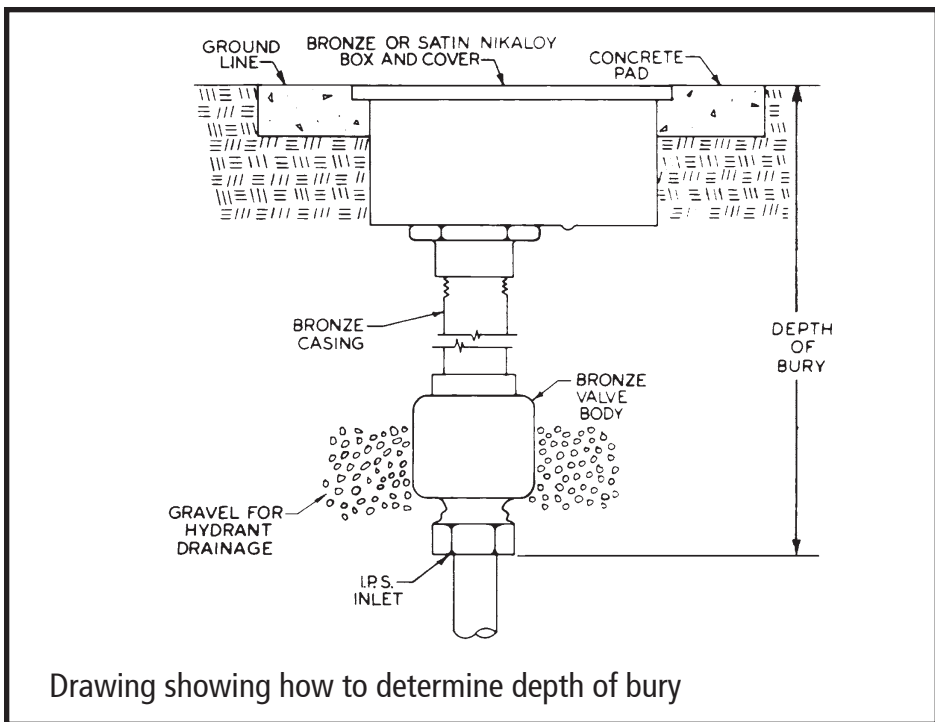
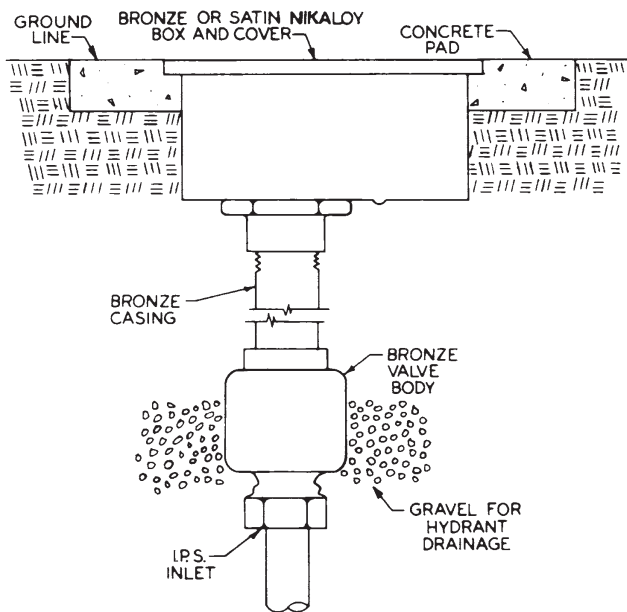


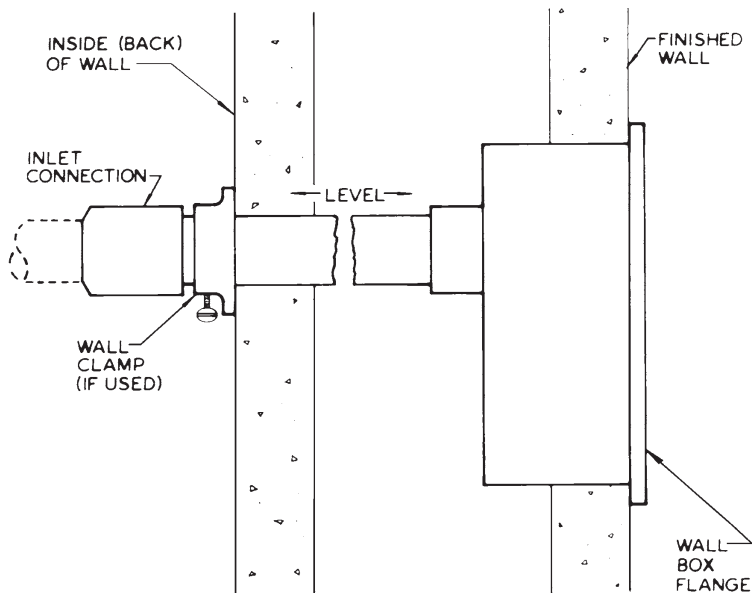
Drawing showing how to determine wall thickness



Drawing showing how to determine depth of bury



71600 Series Hydrant shown installed in a yard



71650 Series TRI-TEMP Hydrant shown installed in a block wall

**SPECIFICATION:**

JOSAM SERIES 71300 CHROME-PLATED HYDRANT/SILL-COCK, STAINLESS STEEL BOX, HINGED LATCHING COVER, 3/4" HPT OUTLET, INTEGRAL VACUUM BREAKER - BACKFLOW PREVENTER, AND 1/2" OR 3/4" INLET CONNECTION.

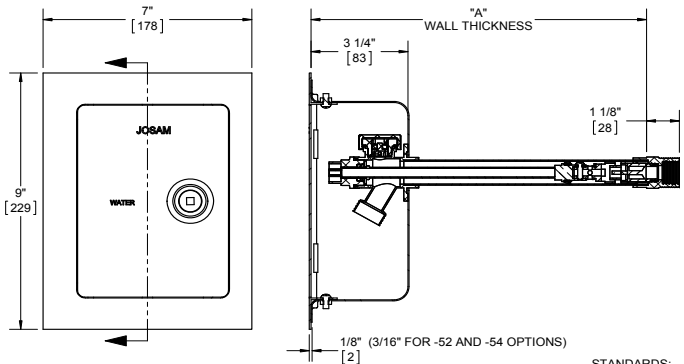
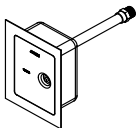
**HYDRANT**

**1/4 TURN, NON-FREEZE WITH BOX**

SERIES **71300**

HYDRANT APPROVED TO NSF/ANSI 61 FOR USE IN POTABLE WATER SYSTEMS.

RECOMMENDED MIN. WALL OPENING: 5-1/2" X 7-3/4"



STANDARDS:  
NSF/ANSI 61  
NSF/ANSI 372  
ASSE 1019  
ASME A112.18.1

**OPTIONS:**

|      |                                |
|------|--------------------------------|
| -52  | CAST SATIN FINISH BR FACE      |
| -54  | CAST SATIN FINISH NIKALOY FACE |
| -72  | WALL CLAMP                     |
| -81* | HOSE BIBB VACUUM BREAKER       |
| -91* | 1" HOSE PIPE THREADED OUTLET   |
| -95  | CYLINDER SECURED LOCK          |

\* -81 AND -91 CANNOT BE ORDERED TOGETHER

| MODEL        | A            |
|--------------|--------------|
| 71300-6-QTR  | 6-1/4 [159]  |
| 71300-7-QTR  | 7-1/4 [184]  |
| 71300-9-QTR  | 9-1/4 [235]  |
| 71300-11-QTR | 11-1/4 [286] |
| 71300-13-QTR | 13-1/4 [337] |
| 71300-15-QTR | 15-1/4 [387] |
| 71300-17-QTR | 17-1/4 [438] |

DATE OF LAST CHANGE: 04/29/15

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

**JOSAM COMPANY**  
MICHIGAN CITY, INDIANA

NOTES

**SPECIFICATION:**

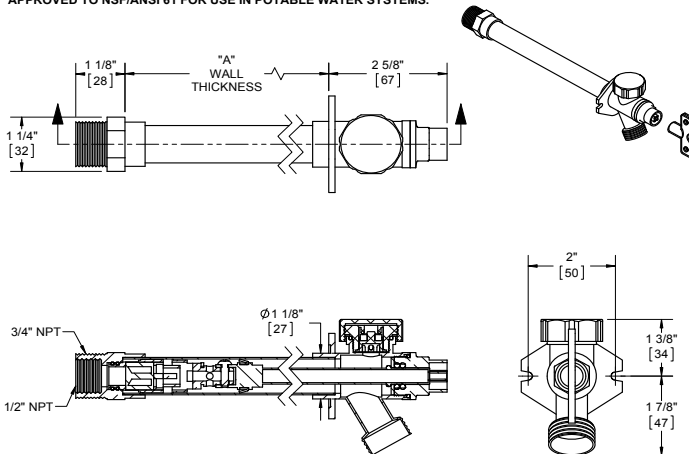
JOSAM SERIES 71350 CHROME-PLATED HYDRANT/SILL-COCK, 3/4" HPT OUTLET, INTEGRAL VACUUM BREAKER - BACKFLOW PREVENTER, AND 1/2" OR 3/4" INLET CONNECTION.

**HYDRANT**

**1/4 TURN, NON-FREEZE**

SERIES **71350**

APPROVED TO NSF/ANSI 61 FOR USE IN POTABLE WATER SYSTEMS.



STANDARDS:  
NSF/ANSI 61  
NSF/ANSI 372  
ASSE 1019  
ASME A112.18.1

**OPTIONS:**

|     |                              |
|-----|------------------------------|
| -72 | WALL CLAMP                   |
| -81 | HOSE BIBB VACUUM BREAKER     |
| -91 | 1" HOSE PIPE THREADED OUTLET |

| MODEL        | A        |
|--------------|----------|
| 71350-MC-QTR | 3 [76]   |
| 71350-4-QTR  | 4 [102]  |
| 71350-6-QTR  | 6 [152]  |
| 71350-8-QTR  | 8 [203]  |
| 71350-10-QTR | 10 [254] |
| 71350-12-QTR | 12 [305] |
| 71350-14-QTR | 14 [356] |

DATE OF LAST CHANGE: 04/29/15

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

**JOSAM COMPANY**  
MICHIGAN CITY, INDIANA

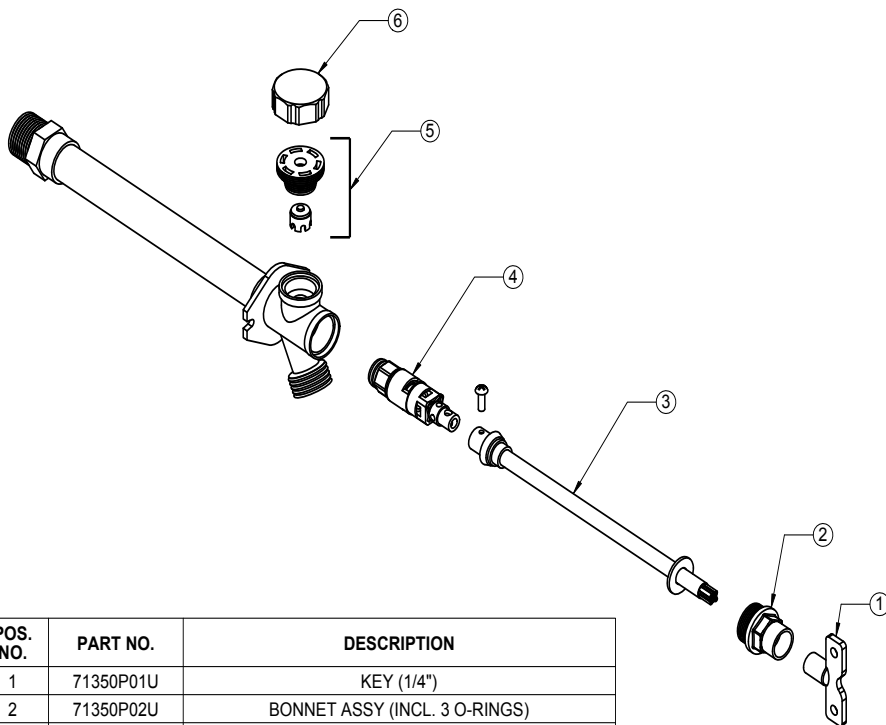
NOTES

**SPECIFICATION:**

JOSAM SERIES 71350 REPLACEMENT PARTS GUIDE.

**HYDRANT  
REPLACEMENT PARTS**

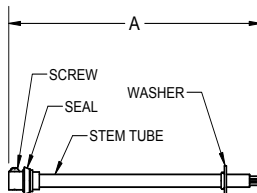
SERIES **71350**



| POS. NO. | PART NO.  | DESCRIPTION                                |
|----------|-----------|--|
| 1        | 71350P01U | KEY (1/4")                                 |
| 2        | 71350P02U | BONNET ASSY (INCL. 3 O-RINGS)              |
| 3        | SEE TABLE | STEM TUBE ASSY (INCL. WASHER, SEAL, SCREW) |
| 4        | 71350P04U | VALVE ASSY (INCL. 2 O-RINGS)               |
| 5        | 71350P05U | VACUUM BREAKER ASSY                        |
| 6        | 71350P06U | VACUUM BREAKER CAP                         |

**POS. NO. 3 - STEM TUBE ASSY - PART NOS.**

| 71350 MODEL  | 71300 MODEL  | A DIM. [mm]   | PART NO. |
|--------------|--------------|---------------|----------|
| 71350-MC-QTR | 71300-6-QTR  | 3-5/8" [92]   | 09600B   |
| 71350-4-QTR  | 71300-7-QTR  | 4-5/8" [117]  | 09600C   |
| 71350-6-QTR  | 71300-9-QTR  | 6-5/8" [168]  | 09600D   |
| 71350-8-QTR  | 71300-11-QTR | 8-5/8" [219]  | 09600E   |
| 71350-10-QTR | 71300-13-QTR | 10-5/8" [270] | 09600F   |
| 71350-12-QTR | 71300-15-QTR | 12-5/8" [321] | 09600G   |
| 71350-14-QTR | 71300-17-QTR | 14-5/8" [371] | 09600H   |



DATE OF LAST CHANGE: 10/31/14

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

**JOSAM COMPANY**  
MICHIGAN CITY, INDIANA

NOTES

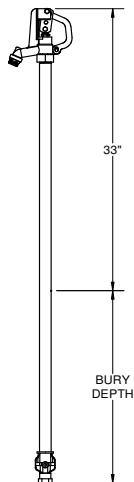
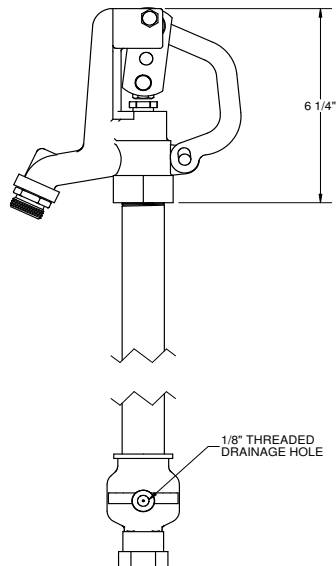
**SPECIFICATION:**

JOSAM SERIES 71400 FREEZELESS GROUND HYDRANT WITH CAST IRON HEAD, 3/4" FPT BRASS INLET AND BRASS HOSE ADAPTOR OUTLET, CAM-TYPE OPERATING CONTROL LEVER FOR FULL OR VARIABLE FLOW, STAINLESS STEEL OPERATING ROD AND ONE PIECE PLUNGER AND GALVANIZED STEEL PIPE.

**HYDRANTS**

**FREEZELESS GROUND HYDRANT**

SERIES **71400**



-91 1" HOSE PIPE THREADED OUTLET

| TYPE    | BURY SIZE | OVERALL LENGTH |
|---------|-----------|----------------|
| 71400-1 | 1' BURY   | 45"            |
| 71400-2 | 2' BURY   | 57"            |
| 71400-3 | 3' BURY   | 69"            |
| 71400-4 | 4' BURY   | 81"            |
| 71400-5 | 5' BURY   | 93"            |
| 71400-6 | 6' BURY   | 105"           |

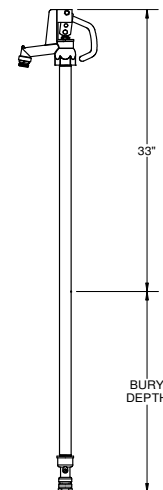
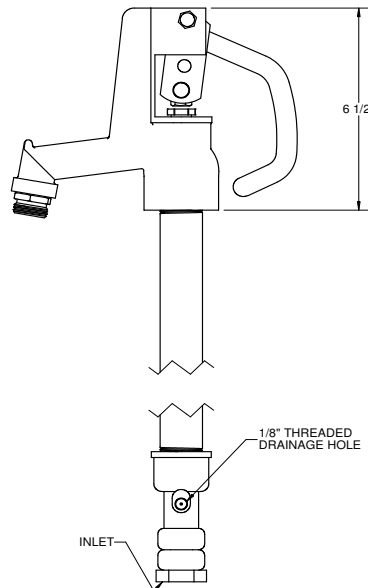
**SPECIFICATION:**

JOSAM SERIES 71450 FREEZELESS GROUND HYDRANT WITH HEAVY DUTY CAST IRON HEAD, 3/4" OR 1" FPT BRASS INLET AND BRASS HOSE ADAPTOR OUTLET, CAM-TYPE OPERATING CONTROL LEVER FOR FULL OR VARIABLE FLOW, STAINLESS STEEL OPERATING ROD, ONE PIECE PLUNGER AND GALVANIZED STEEL PIPE.

**HYDRANTS**

**FREEZELESS GROUND HYDRANT**

SERIES **71450**



| TYPE    | INLET SIZE | BURY SIZE | OVERALL LENGTH |
|---------|------------|-----------|----------------|
| 71450-1 | 3/4"       | 1' BURY   | 45"            |
| 71450-2 | 3/4"       | 2' BURY   | 57"            |
| 71450-3 | 3/4"       | 3' BURY   | 69"            |
| 71450-4 | 3/4"       | 4' BURY   | 81"            |
| 71450-5 | 3/4"       | 5' BURY   | 93"            |
| 71450-6 | 3/4"       | 6' BURY   | 105"           |

| TYPE    | INLET SIZE | BURY SIZE | OVERALL LENGTH |
|---------|------------|-----------|----------------|
| 71451-1 | 1"         | 1' BURY   | 45"            |
| 71451-2 | 1"         | 2' BURY   | 57"            |
| 71451-3 | 1"         | 3' BURY   | 69"            |
| 71451-4 | 1"         | 4' BURY   | 81"            |
| 71451-5 | 1"         | 5' BURY   | 93"            |
| 71451-6 | 1"         | 6' BURY   | 105"           |

DATE OF LAST CHANGE: 1/5/15  
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

**JOSAM COMPANY**  
MICHIGAN CITY, INDIANA

NOTES

DATE OF LAST CHANGE: 1/5/15  
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

**JOSAM COMPANY**  
MICHIGAN CITY, INDIANA

NOTES

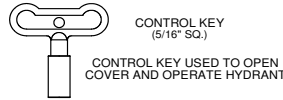
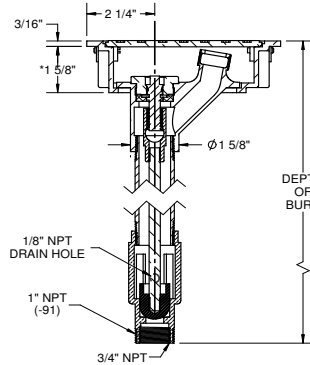
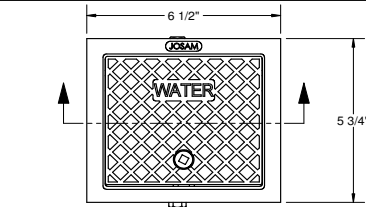
**SPECIFICATION:**

JOSAM 71600 SERIES CAST BRONZE NON-FREEZE YARD HYDRANT WITH SATIN NIKALLOY HINGED LATCHING COVER, INTEGRAL 3/4" OR 1" HPT OUTLET, BRONZE CASING, NEOPRENE PLUNGER, BRONZE OPERATING PARTS AND 3/4" FEMALE & 1" MALE NPT INLET CONNECTION

**HYDRANTS**

YARD TYPE, NON-FREEZE  
WITH BOX

SERIES **71600**



| -52 | SATIN FINISH FACE, CAST BRONZE BOX |
|-----|------------------------------------|
| -80 | NIKALLOY DEEP BOX (*2-5/8" DEEP)   |
| -81 | VACUUM BREAKER (UPC, ASSE 1011)    |
| -91 | 1" HOSE PIPE THREADED OUTLET       |
| -95 | CYLINDER VANDAL-PROOF LOCK         |
| -97 | 1/8" TAPPED DRAIN HOLE IN BOX      |

|  | TYPE    | DEPTH |
|--|---------|-------|
|  | 71600-2 | 2'    |
|  | 71600-3 | 3'    |
|  | 71600-4 | 4'    |
|  | 71600-5 | 5'    |
|  | 71600-6 | 6'    |

VAC BREAKER (-81) REQUIRES DEEP BOX (-80) FOR COVER TO CLOSE

DATE OF LAST CHANGE: 1/16/15

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

**JOSAM COMPANY**  
MICHIGAN CITY, INDIANA

NOTES

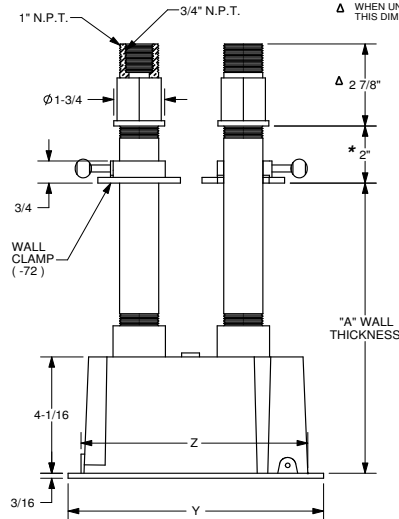
**SPECIFICATION:**

JOSAM 71650 SERIES TRI-TEMP CAST BRONZE NON-FREEZE WALL HYDRANT WITH SATIN NIKALLOY HINGED LATCHING COVER, BRONZE CASINGS, NEOPRENE PLUNGERS, REMOVABLE NYLON SEATS, BRONZE OPERATING PARTS AND 3/4" FEMALE & 1" MALE NPT INLET CONNECTIONS FOR HOT AND COLD WATER AND MIXING CHAMBER WITH 3/4" HPT OUTLET.

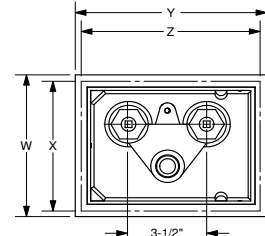
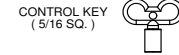
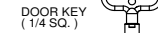
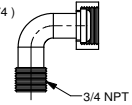
**HYDRANTS**

TRI-TEMP, NON-FREEZE W/BOX

SERIES **71650**

**\* AT WALL THICKNESS SPECIFIED**

## UNION ELBOW (-74)



| BOX TYPE      | W     | X     | Y     | Z     |
|---------------|-------|-------|-------|-------|
| DOMESTIC CAST | 7-1/4 | 6-3/4 | 9     | 8-1/2 |
| STANDARD      | 6-5/8 | 6-1/8 | 8-5/8 | 8-1/8 |

|  |     |                                   | TYPE     | A  |  | TYPE     | A  |
|--|-----|-----------------------------------|----------|----|--|----------|----|
|  | -72 | WALL CLAMP                        |          |    |  |          |    |
|  | -73 | SOLDER INLET ADAPTER              | 71650-6  | 6  |  | 71650-16 | 16 |
|  | -74 | UNION ELBOW ASSEMBLY              | 71650-8  | 8  |  | 71650-18 | 18 |
|  | -81 | VACUUM BREAKER ( W/STANDARD BOX ) | 71650-10 | 10 |  | 71650-20 | 20 |
|  | -91 | 1" HOSE PIPE THREADED OUTLET      | 71650-12 | 12 |  | 71650-22 | 22 |
|  | -95 | CYLINDER VANDAL-PROOF LOCK        | 71650-14 | 14 |  | 71650-24 | 24 |

DATE OF LAST CHANGE: 1/29/14

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

**JOSAM COMPANY**  
MICHIGAN CITY, INDIANA

NOTES

## HYDRASAN I® HYDRANT MAINTENANCE

HYDRASAN® I will seldom require service. However, continuous drainage from the outlet is a signal that inspection and possible replacement of certain parts are in order. A self-contained tool, Actuator Rod (3), when reversed, makes the job easy. The procedure for removal and replacement of hydrant sealing parts is as follows:

- A.** Shut off water in supply line to hydrant, and turn hydrant on to relieve pressure.
- B.** Use pliers. Firmly grip Cap Retainer (8) and turn counterclockwise to remove it, then remove Deflector Cap (7). Shut off hydrant as tight as possible with Control Key (1) and use an adjustable open end wrench or channel-lock type pliers to “break” Draw Nut (11) loose, then remove it with Control Key (1), turning counterclockwise until threads are free from Hydrant Head (12). Grasp Draw Nut (11) firmly and pull toward you to remove Actuator (2) and Actuator Rod (3).
- C.** Loosen Set Screw (13) with a  $\frac{3}{32}$ ” hex. key and separate Actuator (2) from Actuator Plug (21) on end of Actuator Rod (3).
- D.** Reverse Actuator Rod (3) and insert into hydrant as far as possible, using Control Key (1) secured to Actuator Rod (3) with Set Screw (14). With Actuator Plug (21) (hex.) on end of Actuator Rod (3) inserted in Hex. Hole (22) in Seat (15), which places Rod Extension (20) in Hole (23) in Shuttle (4), firmly rotate Control key (1) counterclockwise to unscrew Seat (15) and pull out entire Valve (15, 5 and 4).
- E.** Replace worn parts with new parts as required. Reassemble hydrant, reversing the procedure in Steps A through D to place it back in service. Be sure to make Cap Retainer (8) tight to prevent tampering.

**NOTE:** If pressure relief Valve “O” Ring (6) appears worn, it should be replaced when hydrant is apart. This part can be checked and, if necessary, replaced without turning off water supply to hydrant because the Pressure Assist Seal (Parts 4, 5, and 15) prevents any water from entering. This feature makes possible removal of all parts downstream (in front) of the Seal (or Valve) with water supply on.

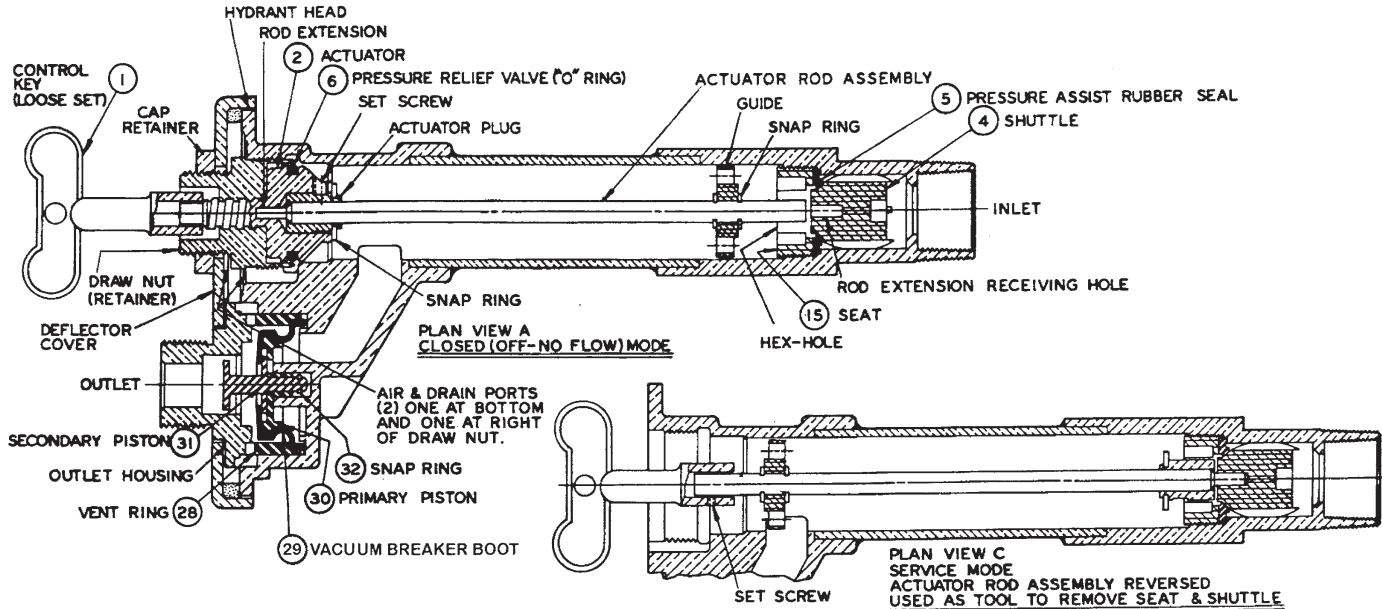
Should it ever be necessary to service the Vacuum Breaker-Backflow Preventer in the outlet of HYDRASAN I, the procedure for removal and replacement of operating parts is as follows:

- F.** After Deflector Cover (7) has been removed (see Maintenance Step B), remove the four housing retaining screws with a  $\frac{5}{32}$ ” hex. key and take off Outlet Housing (27). Lift out Vent Ring (28) and operating parts, Seal (29) Primary and Secondary Pistons (30 and 31). Inspect for wear.
- G.** Replace worn parts with new parts as required. Reassemble Vacuum Breaker-Backflow Preventer, reversing the procedure in Step F to place it back in service.

Service kits containing all parts necessary for this maintenance can be obtained through your plumbing supply dealer.

# Parts Drawings, HYDRASAN® Non-Freeze

Hydrant replacement parts are available in Repair Kits only. Kits #6, #7, #8 and #23 apply to the Non-Freeze HYDRASAN® Hydrants depicted below. See page 270 for parts included in kits. For replacement rod assemblies, contact your local representative.



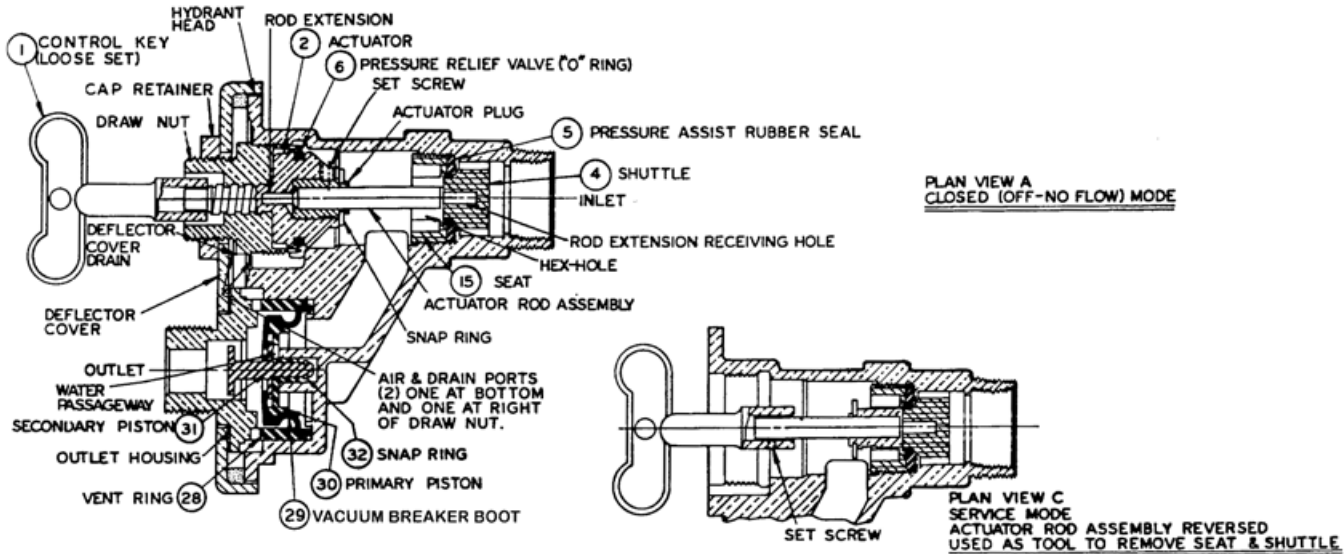
HYDRASAN® I 71000 & 71050 Series  
NON-FREEZE

 **WARNING:** Cancer and Reproductive Harm - [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)



## Parts Drawings, HYDRASAN® Mild Climate

Hydrant replacement parts are available in Repair Kits only. Kits #6, #9, #10 and #23 apply to the Mild-Climate HYDRASAN® Hydrants depicted below. See page 270 for parts included in kits. For replacement rod assemblies, contact your local representative.



HYDRASAN® I 71020 & 71070 Series  
MILD-CLIMATE

# Repair Kits • We recommend that a complete HYDRANT REPAIR KIT be installed when it becomes necessary to repair a hydrant.

| PART NO.         | ITEM  | QTY. | PART NO.         | ITEM                                  | QTY. | PART NO.         | ITEM                                   | QTY. |
|------------------|---|------|------------------|---------------------------------------|------|------------------|--|------|
| <b>71550P02U</b> | <b>KIT #2</b>                               |      | <b>71950P12U</b> | <b>KIT #12</b>                        |      | <b>71550P21U</b> | <b>KIT #21</b>                         |      |
| #1               | 5/16" Key                                   | 12   |                  | <b>For 1420N - 71950</b>              |      |                  | <b>For 1400N – 1410N Old Style</b>     |      |
|                  |   |      |                  |                                       |      |                  | <b>71550 – 71650 – Previous Design</b> |      |
| <b>71050P06U</b> | <b>KIT #6</b>                               |      | #1               | 5/16" Key                             | 1    | #1               | 5/16" Key                              | 1    |
| #4               | Shuttle                                     | 2    | #2               | Worm Stem                             | 1    | #2               | Worm Stem                              | 1    |
| #5/15            | Seal/Seat                                   | 2    | #3               | Brass Washer                          | 1    | #3               | Brass Washer                           | 1    |
| <b>71050P07U</b> | <b>KIT #7</b>                               |      | #5               | Packing                               | 1    | #4               | Packing Nut                            | 1    |
| #1               | 1/4" Key with set screw                     | 12   | #12              | Nylon Seat                            | 1    | #5               | Packing                                | 1    |
|                  | Allen Wrench                                | 12   | #15              | Plunger                               | 1    | #12              | Nylon Seat                             | 1    |
|                  |   |      |                  |                                       |      | #15              | Plunger                                | 1    |
| <b>71050P08U</b> | <b>KIT #8</b>                               |      | <b>71600P14U</b> | <b>KIT #14</b>                        |      | <b>71550P22U</b> | <b>KIT #22</b>                         |      |
|                  | <b>For HYDRASAN® I or II -- Non-Freeze</b>  |      |                  | <b>For 1430N Old Style 3/4" or 1"</b> |      |                  | <b>For 71500 – 71550 – 71650</b>       |      |
| #1               | 1/4" Key with set screw                     | 1    |                  | <b>1440N or 71700 3/4"</b>            |      |                  | <b>New Style</b>                       |      |
| #2               | Actuator                                    | 1    |                  | <b>71600 3/4" O.S.</b>                |      | #1               | 5/16" Key                              | 1    |
| #4               | Shuttle                                     | 1    | #1               | 5/16" Key                             | 1    | #2               | Worm Stem                              | 1    |
| #5               | Pressure Assist Rubber Seal                 | 1    | #2               | Worm Stem                             | 1    | #3               | Brass Washer                           | 1    |
| #6               | Pressure Relief Valve (O-Ring)              | 1    | #3               | Brass Washer                          | 1    | #6               | Worm Assy. Nut                         | 1    |
| #15              | Seat  | 1    | #5               | Packing                               | 1    | #12              | Nylon Seat                             | 1    |
|                  | Allen Wrench                                | 1    | #15              | Plunger                               | 1    | #15              | Plunger                                | 1    |
| <b>71070P09U</b> | <b>KIT #9</b>                               |      | <b>71600P15U</b> | <b>KIT #15</b>                        |      | #37              | Retainer Seal                          | 1    |
| #4               | Shuttle                                     | 2    |                  | <b>For 71600 3/4" or 1"</b>           |      | #38              | Worm Stem Seal                         | 1    |
| #5/15            | Seal/Seat                                   | 2    |                  | <b>New Style</b>                      |      | <b>71050P23U</b> | <b>KIT #23</b>                         |      |
| <b>71070P10U</b> | <b>KIT #10</b>                              |      | #1               | 5/16" Key                             | 1    |                  | <b>For HYDRASAN® I</b>                 |      |
|                  | <b>For HYDRASAN® I or II – Mild Climate</b> |      | #2               | Worm Stem                             | 1    | #28              | Vent Ring                              | 2    |
| #1               | 1/4" Key with set screw                     | 1    | #3               | Brass Washer                          | 1    | #29              | Boot for Vacuum Breaker                | 2    |
| #2               | Actuator                                    | 1    | #15              | Plunger                               | 1    | #30              | Primary Piston                         | 2    |
| #4               | Shuttle                                     | 1    | #37              | Nylon Seal                            | 1    | #31              | Secondary Piston                       | 2    |
| #5               | Pressure Assist Rubber Seal                 | 1    | #38              | Worm Stem Seal                        | 1    | #32              | Snap Ring                              | 2    |
| #6               | Pressure Relief Valve (O-Ring)              | 1    |                  |                                       |      |                  |  |      |
| #15              | Seat  | 1    |                  |                                       |      |                  |  |      |
|                  | Allen Wrench                                | 1    |                  |                                       |      |                  |  |      |



**WARNING:** Cancer and Reproductive Harm - [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)