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Fire Protection Indicator Post

The 813 Series Indicator Post is designed to operate non-rising stem gate valves used in the control of underground water supply for automatic sprinklers, water spray deluge, foam-water deluge, and standpipe fire protection systems. It allows for the operation of underground valves while providing an above ground visual indication as to whether or not the valves are open or shut. With this indicator post, valves can be locked into a particular position and operated from outside of the protected property, which makes prompt valve operations possible in case of emergency.

The 813 Series Indicator Post features a telescopic stem that can be adjusted to its final position without field cutting the stem. It permits 1) easier setting of the OPEN and SHUT target plates (before the post is extended to its final position); 2) easier adjustment of the post length during the initial installation; and 3) ready re-adjustment of the post length if the position of the final grade has been modified.

The 813 Series Indicator Post will accommodate 4"–12" post indicator valves (PIV) requiring 14 to 43 turns to open that are listed or approved for fire protection system services. It is manufactured for use with left-hand opening valves by default but can be special ordered for right-hand opening valves or converted in the field for such use by changing the left-hand opening post head to a right-hand opening post head. This indicator post is designed to withstand up to 900 ft. lbs. of operating torque.

The 813 Series Indicator Post accepts direct attachment of a ½" NPT mounting electric supervisory switching device which can be used by proprietary and central stations to monitor the open position of the indicator post. Detailed information on attaching a UL/FM approved supervisory control valve switch (supplied by customer) is given in the technical data section.

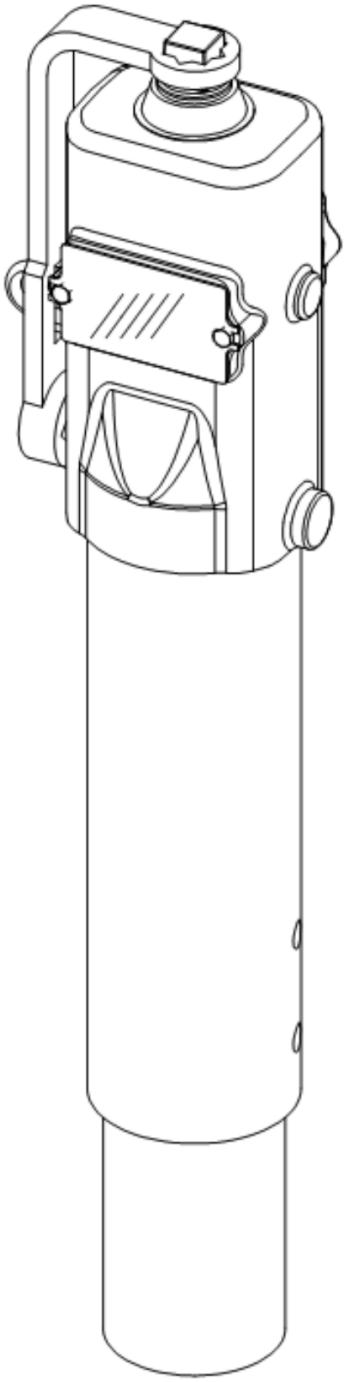

Fig. 813-A

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Fire Protection Indicator Post

The 813 Series Indicator Post is bolted directly onto the stuffing box flange of 4"–12" post indicator valves (PIV) employing 2" operating nuts. The bell attaches to a PIV mounting flange having four bolt holes spaced at 90° on a 10½" diameter bolt circle. The bell has ¾" clearance holes for the mounting bolts.

The 813 Series Indicator Post has a threaded sleeve which can readily accommodate field positioning of the OPEN and SHUT targets for 4"–12" PIVs requiring 14 to 43 turns to open.

The 813 Series Indicator Post (Fig. 813-B) is available in six different "order lengths" (Table 1). Each length allows for adjustment of dimension "L". The post head can be adjusted relative to the lower barrel by using the two set screws located at the base of the upper barrel. The stem requires no field cutting within the indicated adjustment range of each "order length"

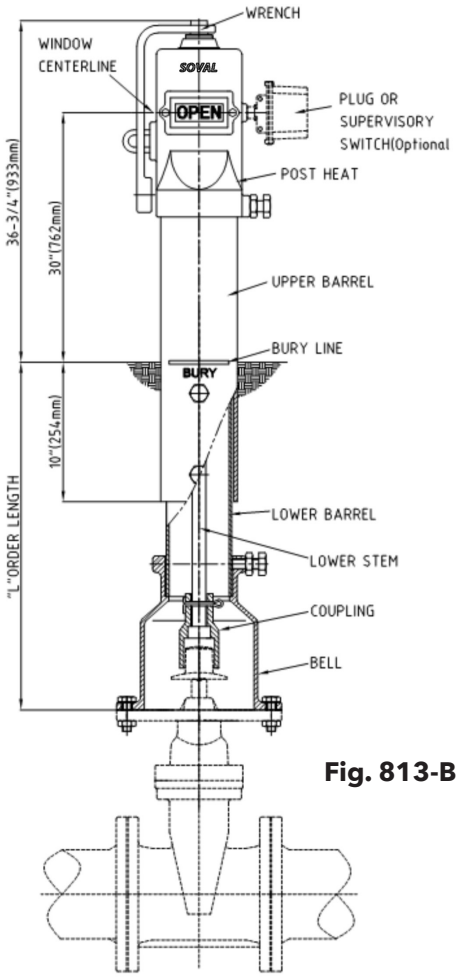

Fig. 813-B

Table 1 Dimension "L"

ORDER LENGTH	MIN	MAX
A	18.25"	39.50"
B	36.00"	60.50"
C	57.00"	81.50"
D	78.00"	102.25"
E	99.00"	123.50"
F	120.00"	144.50"

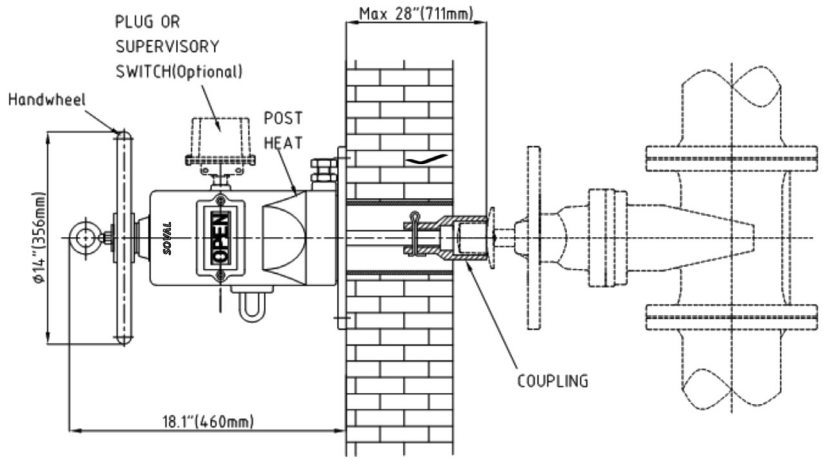

Fig. 813-C

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Fire Protection Indicator Post

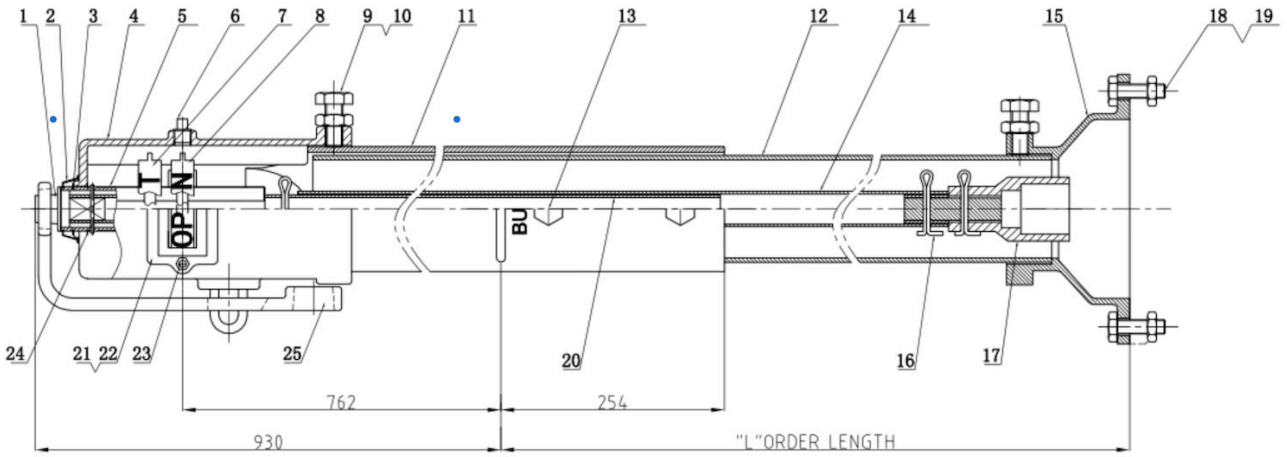

Fig. 813-D

OPERATING NUT / POST HEAD / UPPER BARREL / WRENCH:
INTERNALLY AND EXTERNALLY RED EPOXY SPRAY PAINTING. RAL3000

LOWER BARREL:
INTERNALLY AND EXTERNALLY BLACK EPOXY SPRAY PAINTING

BELL:
INTERIOR AND EXTERIOR IS BLACK FUSION BONDED EPOXY POWDER COATED (FBE)

Table 2 813IP Part Names & Materials

NO.	PART NAME	MATERIAL	ASTM SPEC.
1	OPERATING NUT	DUCTILE IRON	ASTM A536 65-45-12
2	WEATHER CAP	POLYETHYLENE	
3	RETAINING RING	STAINLESS STEEL	ANSI 302
4	POST HEAD	CAST IRON	ASTM A126 CLB
5	THREADED SLEEVE	AL	
6	PIPE PLUG	CARBON STEEL	
7	"SHUT" TARGET	CAST AL	
8	"OPEN" TARGET	CAST AL	
9	BOLT	CARBON STEEL/ZINC PLATED	ASTM A307B
10	NUT	CARBON STEEL/ZINC PLATED	ASTM A307B
11	UPPER BARREL	CARBON STEEL	ASTM A53 GR.B
12	LOWER BARREL	CARBON STEEL	ASTM A53 GR.B
13	BOLT	CARBON STEEL/ZINC PLATED	ASTM A307B
14	LOWER STEM	CARBON STEEL	ASTM A513
15	BELL	CAST IRON	ASTM A126 CLB
16	COTTER PIN	STAINLESS STEEL	ANSI 304
17	COUPLING	DUCTILE IRON	ASTM A536 65-45-12
18	BOLT	CARBON STEEL/ZINC PLATED	ASTM A307B
19	NUT	CARBON STEEL/ZINC PLATED	ASTM A307B
20	UPPER STEM	CARBON STEEL	ASTM A513
21	WINDOW	MOLDED PLASTIC	
22	GASKET	PTFE	
23	BOLT	CARBON STEEL/ZINC PLATED	ASTM A307B
24	SPRING PIN	STAINLESS STEEL	ANSI 304
25	WRENCH	DUCTILE IRON	ASTM A536 65-45-12

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Fire Protection Indicator Post

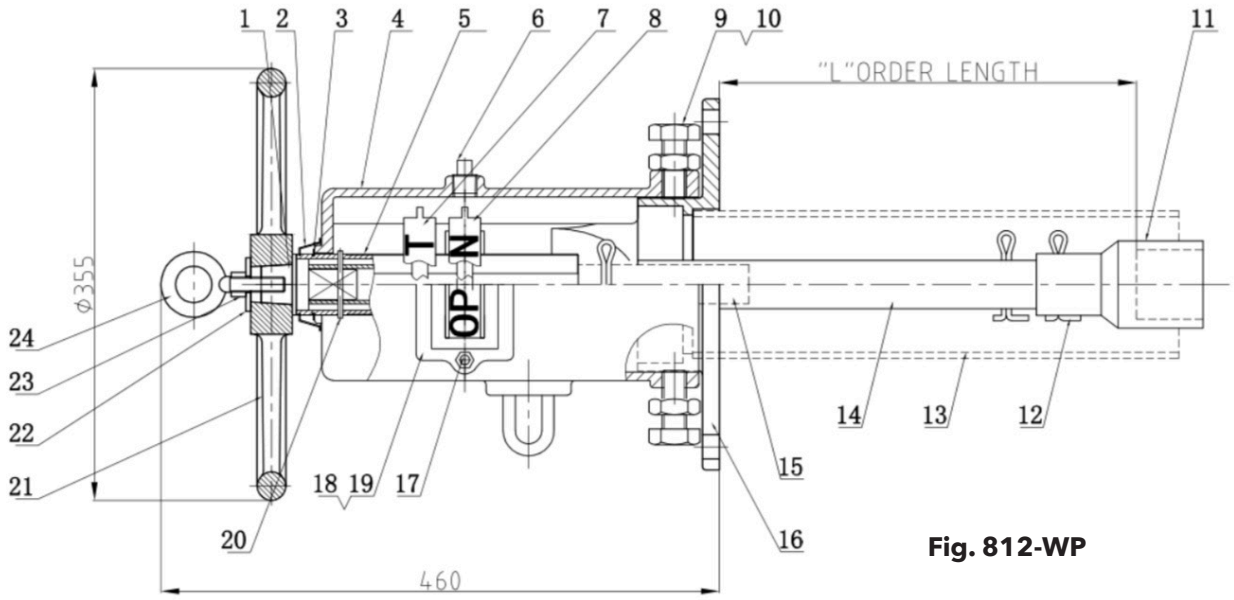

Fig. 812-WP

OPERATING NUT / POST HEAD / HAND WHEEL:
INTERNALLY AND EXTERNALLY RED EPOXY SPRAY PAINTING, RAL3000.

ORDER LENGTH: MAX 800MM.

Table 3 812-WP Part Names & Materials

NO.	PART NAME	MATERIAL	ASTM SPEC.
1	OPERATING NUT	DUCTILE IRON	ASTM A536 65-45-12
2	WEATHER CAP	POLYETHYLENE	
3	RETAINING RING	STAINLESS STEEL	ANSI 302
4	POST HEAD	CAST IRON	ASTM A126 CLB
5	THREADED SLEEVE	AL	
6	PIPE PLUG	CARBON STEEL	
7	"SHUT" TARGET	CAST AL	
8	"OPEN" TARGET	CAST AL	
9	BOLT	CARBON STEEL/ZINC PLATED	ASTM A307B
10	NUT	CARBON STEEL/ZINC PLATED	ASTM A307B
11	COUPLING	DUCTILE IRON	ASTM A536 65-45-12
12	COTTER PIN	STAINLESS STEEL	ANSI 304
13	LOWER BARREL	CARBON STEEL	ASTM A53 GR.B
14	LOWER STEM	CARBON STEEL	ASTM A513
15	UPPER STEM	CARBON STEEL	ASTM A513
16	BELL	CAST IRON	ASTM A126 CLB
17	BOLT	CARBON STEEL/ZINC PLATED	ASTM A307B
18	WINDOW	MOLDED PLASTIC	
19	GASKET	PTFE	
20	SPRING PIN	STAINLESS STEEL	ANSI 304
21	HANDWHEEL	DUCTILE IRON	ASTM A536 65-45-12
22	WASHER	CARBON STEEL/ZINC PLATED	ASTM A307B
23	NUT	CARBON STEEL/ZINC PLATED	ASTM A307B
24	EYE BOLT	CARBON STEEL/ZINC PLATED	ASTM A307B

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Fire Protection Indicator Post

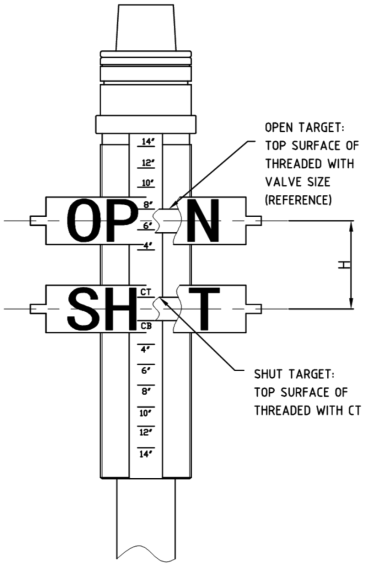
INSTALLATION INSTRUCTIONS

Post Targets must be positioned for use with the appropriate number of turns to open the post indicator valve. Improper positioning of Targets can result in an erroneous indication of the open or shut position of the valve.
NOTE: Targets for the 813-IP or 812-WP Indicator Post have been factory set for use with 6" gate valves.

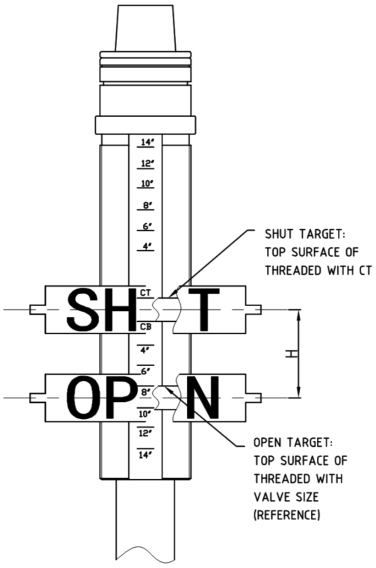
INSTASLLING THE POST

1. Check the total number of turns on valve.
2. Close the valve completely.
3. Loosen Post Head Bolts (9, 10). Lift Post Head/Upper Stem assembly.
4. Remove Wrench (25) or Hand Wheel (21), and Retaining Ring (3). Lift Post Head clear of Upper Stem assembly.
5. Position Target per figure on right. Set it to SHUT, then set to OPEN the Target top surface of threaded with valve size. Check the dimensional "H" ("H" in inches=number of turns to open valve / 14).
6. Replace Retaining Ring (3), Weather Cap (2), and put Post Head/ Upper Stem assembly installed on Upper Barrel. Tighten Post Head Bolts (9,10) with a torque of 40 to 60 ft. lbs.
7. Using Wrench (25) or Hand Wheel (21), open and close the valve and ensure that the SHUT and OPEN Targets are clearly in view in Windows in their respective positions and that there is no feeling of binding of the Upper or Lower Stem assemblies. Count and compare the turns to open/close with the valve manufacturer's specification to verify full valve opening. NOTE: If there is any indication of binding of the internal operating parts, the vertical alignment of Indicator Post must be corrected. If Target Plates are not properly in view, completely close the PIV and then repeat step 5.
8. Loosen both Bolts (13) at the base of Upper Barrel (11). Slide Post Head up until the bury line of Post Head coincides with the planned finished grade. Tighten both Bolts (13) with a torque of 40 to 60 ft. lbs. When properly installed, the center line of Target Windows should be 30 inches above the finish grade.

FOR ANTICLOCKWISE OPEN



FOR CLOCKWISE OPEN



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CARE AND MAINTENANCE

The 813/812-WP Series Indicator Posts do not require any regular scheduled maintenance.

It is recommended that they be locked in the fully open position on fire protection system water control valves. Monthly visual inspections are also recommended as follows:

1. Check that Post Head, Upper Barrel, and Windows are not damaged.
2. Check that Targets indicate that the valve is open.
3. Check that Wrench is in place on Indicator Post and that it is properly locked in the OPEN position.

In addition, on a quarterly basis, the Indicator Posts should be closed two turns and then reopened tightly. This confirms that the PIV is in the fully open position; it properly engages with the Post; and that the supervisory switch contacts (if applicable) properly changed position. Any damaged parts must be replaced immediately. The Posts should be physically tested to verify that the valve is in the fully open position; there are no damaged parts or signs of tampering; and that the position of the valve is properly established.

Fire protection systems must be inspected by qualified inspectors. Before closing a fire protection system main valve for maintenance work on either the Indicator Post or the system it controls, advance permission must be obtained from the appropriate authorities and all personnel who may be affected by such shutdown must be notified.