

## Resilient-Seated Gate Valves with Vertical or Cross Wall Post Indicator

### IMPORTANT

Refer to Technical Data Sheet TFP2300 for warnings pertaining to regulatory and health information.

Scan the QR code or enter the URL in a web browser to access the most up-to-date electronic version of this document. Data rates may apply.



[docs.jci.com/tycofire/TFP1546](http://docs.jci.com/tycofire/TFP1546)

### General Description

TYCO Resilient-Seated Gate Valves with Vertical and Cross Wall Indicators are used in fire protection systems for on/off operation. The following end connection configurations are available:

- Flange x Flange
- Groove x Groove

The ductile iron body weighs approximately 50% less than conventional cast iron valves, which allows easier handling on site and reduced shipping costs.

The fully encapsulated EPDM ductile iron wedge ensures drop-tight sealing.

Valve components are either inherently corrosion-resistant or protected with fusion-bonded epoxy resin coating for a long, reliable service life.

This valve is one of the lightest, most durable gate valves on the market



today. Its design features and material selection criteria fulfill the need for a reliable, long life and easy to operate gate valve.

These valves are available with either vertical indicators for underground water supplies or cross wall indicators for interior water systems. Both indicators provide external visual indication of the open or shut valve condition as well as a locking mechanism to secure a particular wedge position.

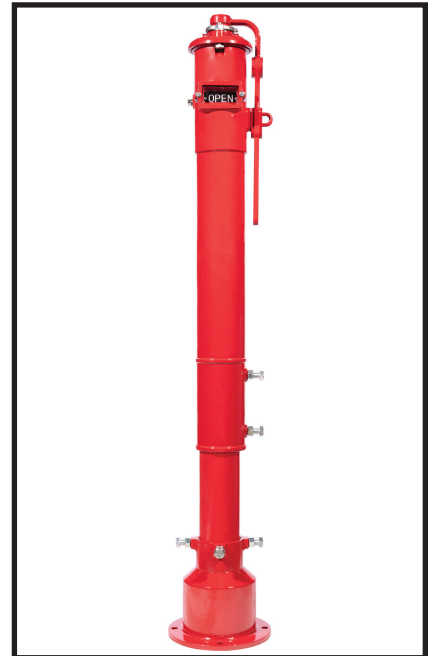
### NOTICE

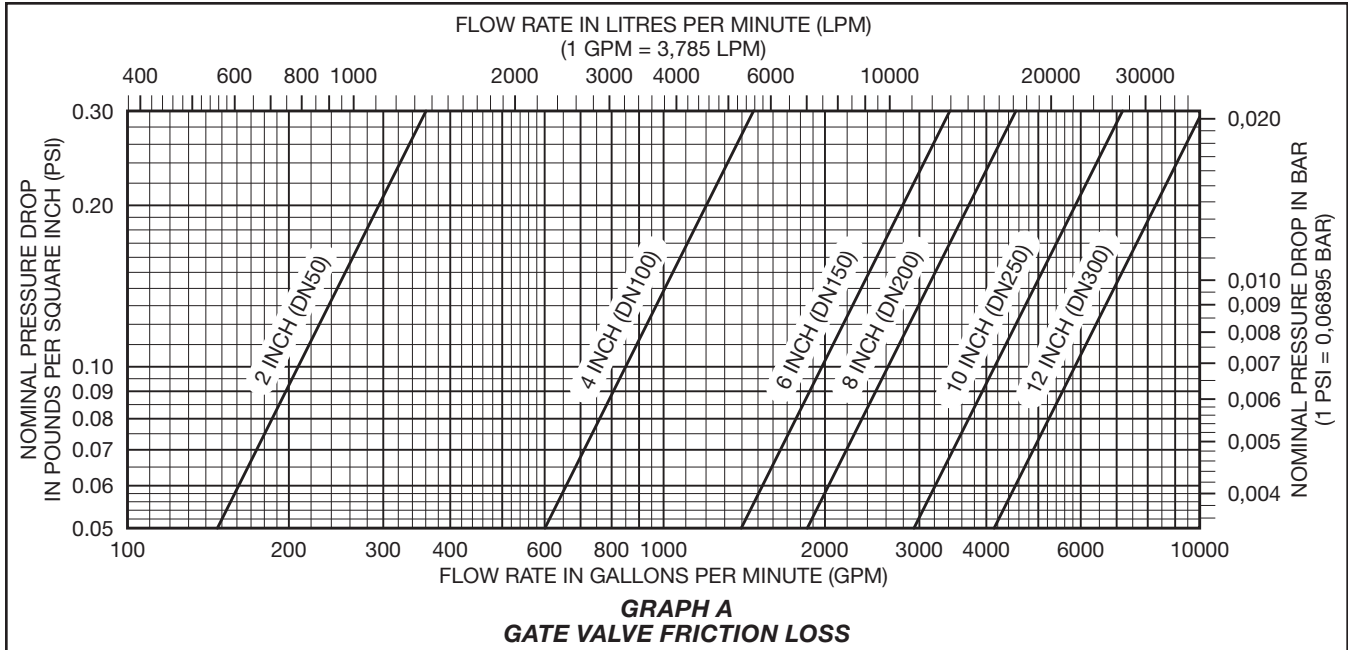
*Never remove any piping component nor correct or modify any piping deficiencies without first de-pressurizing and draining the system. Failure to do so may result in serious personal injury, property damage, and/or impaired device performance.*

*It is the designer's responsibility to select products suitable for the intended service and to ensure that pressure ratings and performance data are not exceeded. Material and gasket selection should be verified for compatibility with the specific application. Always read and understand the installation instructions.*

*TYCO Gate Valves described herein must be installed and maintained in compliance with this document, in addition to the standards of any other authorities having jurisdiction. Failure to do so may result in serious personal injury or impair the performance of these devices.*

*The owner is responsible for maintaining their mechanical system and devices in proper operating condition. The installing contractor or device manufacturer should be contacted with any questions.*





## Technical Data

### Sizes

2 in. to 24 in. (DN50 to DN600)

### Approvals

UL and ULC Listed  
 FM Approved  
 CE Certified  
 EAC Approved

**Note:** For valve and indicator post laboratory listings and approvals details, see Table A and B.

### UL, ULC, and FM Maximum Working Pressure

- 2 in. to 12 in. (DN200 to DN300): 300 psi (20,7 bar)
- 14 in. to 18 in. (DN350 to DN450): 250 psi (17,2 bar)
- 20 in. to 24 in. (DN500 to DN600): 200 psi (13,8 bar)

### Flanges

ASME B16.1/ASME B16.42  
 EN 1092-2/ISO 7005-2/  
 Drilled to ANSI Class 150, PN16, or AS2129 (Table E)

**Note:** For flange details, see Table C.

### Materials of Construction

See individual valve and indicator parts lists in Figures 1, 4, and 6.

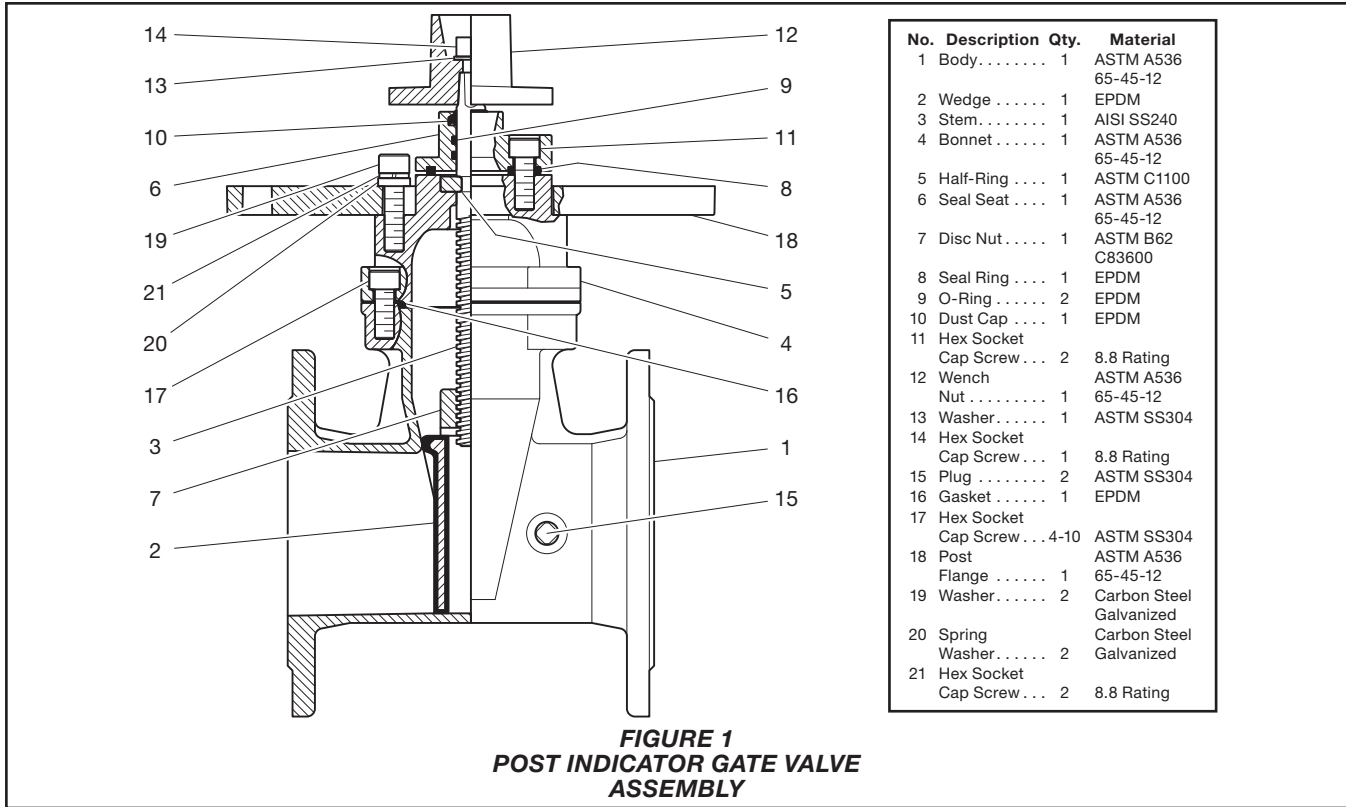
Nominal Valve Size ANSI in. DN	Laboratory					Nominal Valve Size ANSI in. DN	Laboratory				
	UL	ULC	FM	CE	EAC		UL	ULC	FM	CE	EAC
2 DN50	•	•	•	•	•	14 DN350	•	•	•	•	•
4 DN100	•	•	•	•	•	16 DN400	•	•	•	•	•
6 DN150	•	•	•	•	•	18 DN450	•	•	•	•	•
8 DN200	•	•	•	•	•	20 DN500	•	•	•	•	•
10 DN250	•	•	•	•	•	24 DN600	•	•	•	•	•
12 DN300	•	•	•	•	•						

**TABLE A  
GATE VALVE  
LABORATORY LISTINGS AND APPROVALS**

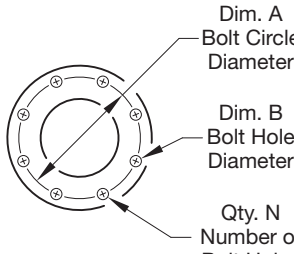
Model	Description	Nominal Valve Size Compatibility ANSI in. DN	Laboratory				
			UL	ULC	FM <sup>1</sup>	CE	EAC
TJUP	Vertical Type A	2 in. DN50	•	•		•	•
		4 in. to 12 in. DN100 to DN300	•	•	•	•	•
TJAP	Vertical Type B	14 in. to 24 in. DN350 to DN600	•	•	•	•	•
TJWP	Cross Wall	2 in. to 12 in. DN50 to DN300	•	•		•	•

**Notes:**  
 1. 4 in. (DN100) and larger valve sizes; FM Global does not approve Indicators for use with valve sizes 2 in. (DN50) and smaller produced by any manufacturer.

**TABLE B  
INDICATOR POST  
LABORATORY LISTINGS AND APPROVALS**



Nominal Valve Size	Nominal Dimensions in Inches (mm)								
	ANSI Class 150			ISO 7005-2 PN16			AS 2129 (Table E)		
	Dim. A	Dim. B	Qty. N	Dim. A	Dim. B	Qty. N	Dim. A	Dim. B	Qty. N
2 DN50	4.75 (120.7)	0.75 (19.0)	4	4.92 (125.0)	0.75 (19.0)	4	4.49 (114.0)	0.71 (18.0)	4
4 DN100	7.50 (190.5)	0.75 (19)	8	7.09 (180.0)	0.75 (19)	8	7.00 (178.0)	0.71 (18.0)	8
6 DN150	9.50 (241.5)	0.88 (22)	8	9.45 (240.0)	0.88 (23)	8	9.25 (235.0)	0.87 (22.0)	8
8 DN200	11.75 (298.5)	0.88 (22)	8	11.61 (295.0)	0.88 (23)	12	11.49 (292.0)	0.87 (22.0)	8
10 DN250	14.25 (362.0)	1.00 (25)	12	13.98 (355.0)	1.13 (28)	12	14.02 (356.0)	0.87 (22.0)	12
12 DN300	17.00 (432.0)	1.00 (25)	12	16.14 (410.0)	1.13 (28)	12	15.98 (406.0)	1.02 (26.0)	12
14 DN350	18.75 (476.3)	1.13 (28.6)	12	18.5 (470.0)	1.102 (28)	16	18.50 (470.0)	1.02 (26.0)	12
16 DN400	21.25 (539.8)	1.13 (28.6)	16	20.67 (525.0)	1.22 (31)	12	20.51 (521.0)	1.02 (26.0)	12
18 DN450	22.75 (577.9)	1.26 (32.0)	16	23.03 (585.0)	1.22 (31)	20	19.84 (504.0)	1.02 (26.0)	12
20 DN500	25.00 (635.0)	1.26 (32.0)	20	25.59 (650.0)	1.34 (34)	20	25.24 (641.0)	1.02 (26.0)	16
24 DN600	29.51 (749.5)	1.378 (35.0)	20	30.31 (770.0)	1.46 (37)	20	29.76 (756.0)	1.30 (33.0)	16



Dim. A  
Bolt Circle  
Diameter

Dim. B  
Bolt Hole  
Diameter

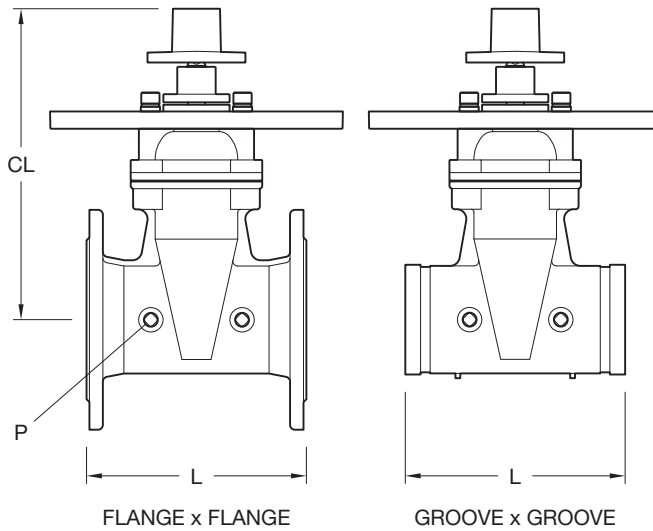
Qty. N  
Number of  
Bolt Holes

**NOTES**

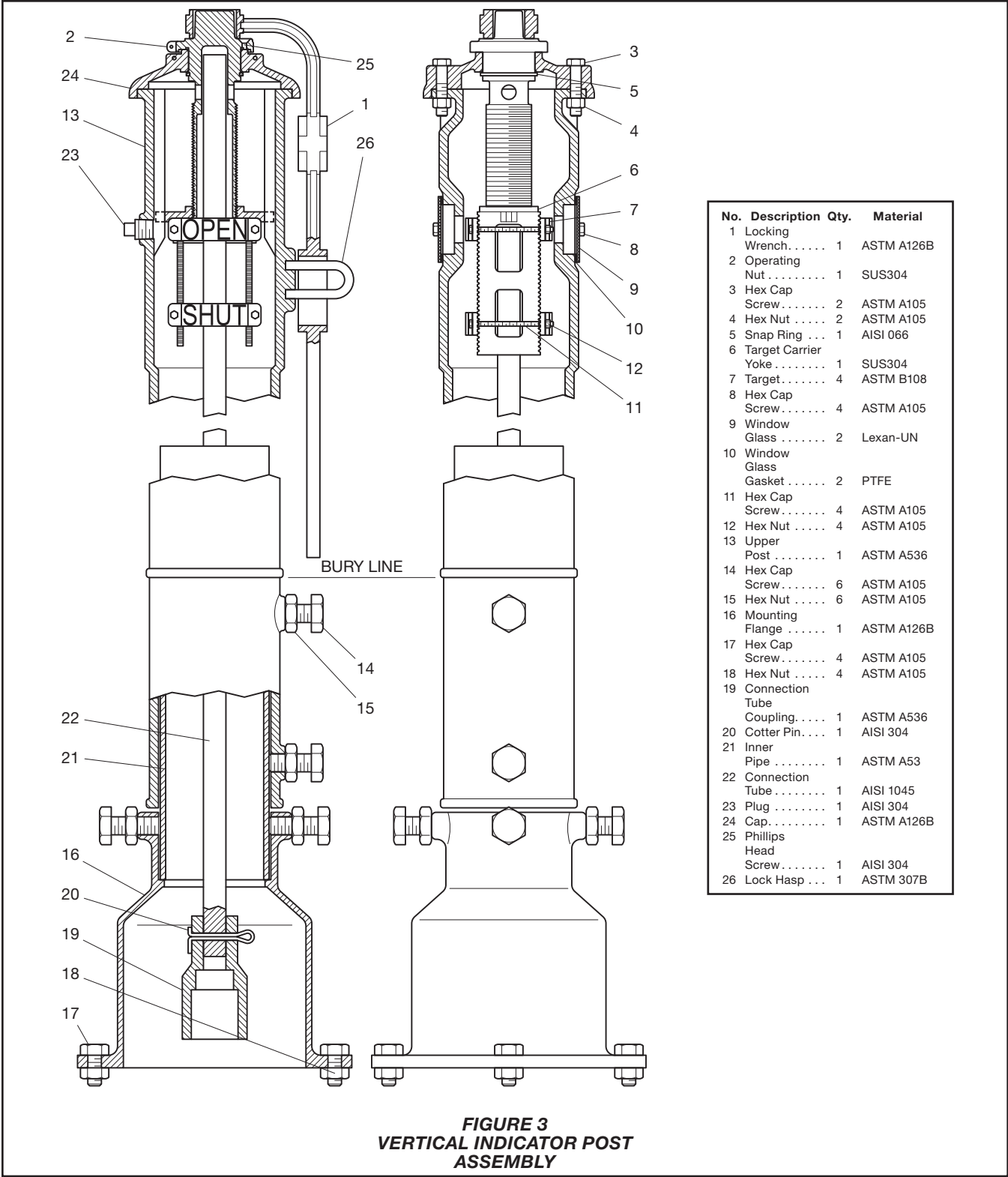
- ANSI 150 and BS10 Table E flanges feature raised faces
- ANSI 125 and PN16 flanges feature flat faces  
(ANSI 125 listed only for differentiation from ANSI 150, Gate Valves featuring ANSI 125 flanges are not available)

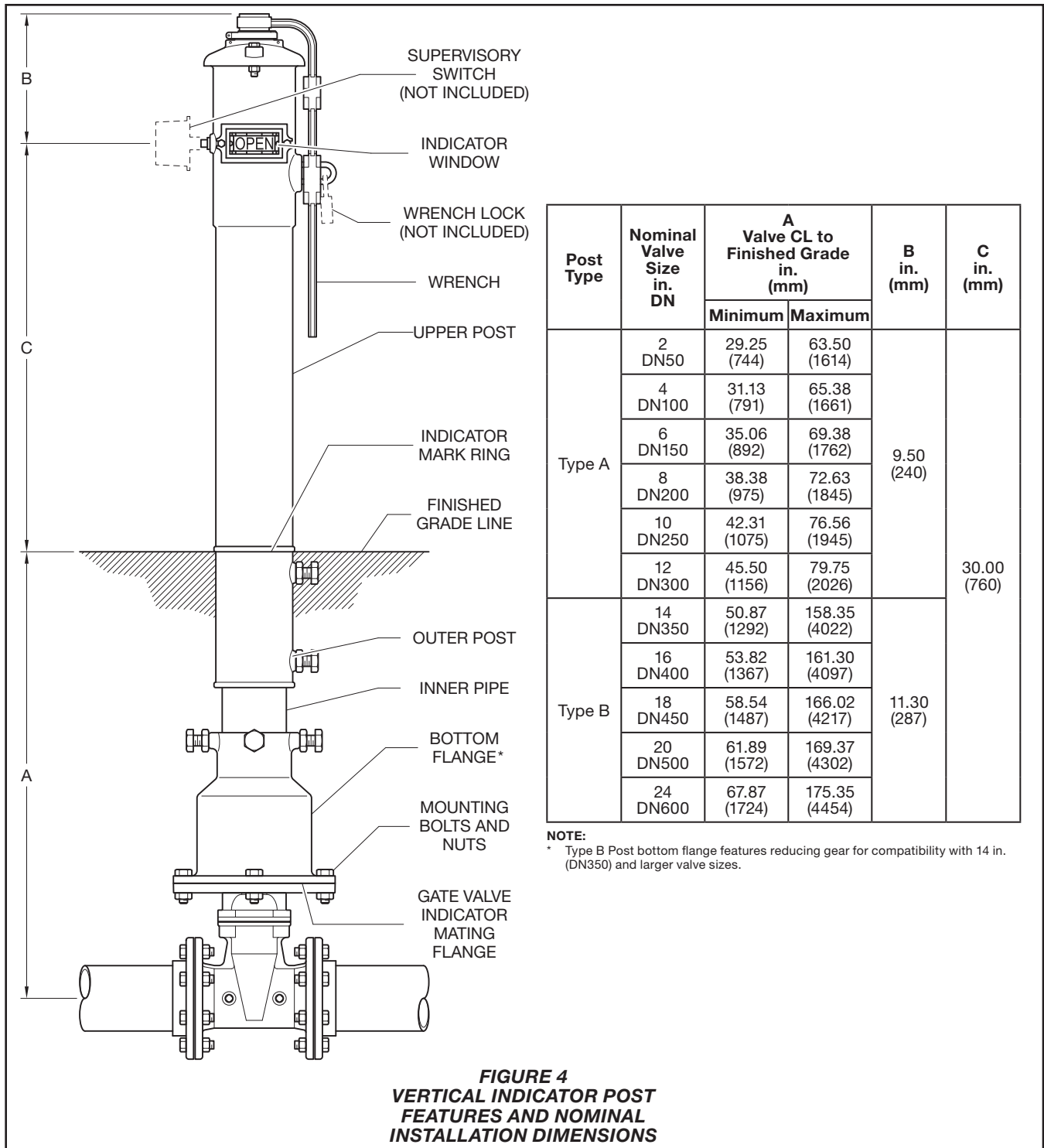
**TABLE C  
GATE VALVE SELECTION FLANGE DRILLING SPECIFICATIONS**

Nominal Valve Size	Nominal Pipe Size	Nominal Dimensions in. (mm)		P Tapping Boss Size ANSI in. NPT	Approx. Weight F x F lb (kg)	Approx. Weight G x G lb (kg)
		L	CL			
2 DN50	2.375 (60.3)	7.00 (178)	10.98 (279)	1/2	25.0 (11.34)	23.11 (10.49)
4 DN100	4.500 (114.3)	9.00 (229)	13.07 (332)		77.0 (35)	50.8 (23.1)
– DN150	6.500 (165.1)	10.50 (267)	17.17 (436)		110.0 (50)	101.4 (46.1)
6 DN150	6.625 (168.3)	10.50 (267)	17.17 (436)		110.0 (50)	101.4 (46.1)
8 DN200	8.625 (219.1)	11.50 (292)	20.47 (520)	3/4	196.2 (89)	200.6 (91)
10 DN250	10.750 (273.1)	13.00 (330)	24.41 (620)	1	271.7 (123.5)	260.7 (118.5)
12 DN300	12.750 (323.9)	14.00 (356)	26.38 (670)		408.9 (185.5)	393.5 (178.5)
14 DN350	14.000 (355.6)	15.00 (381.0)	33.94 (862)		506.0 (230)	–
16 DN400	16.000 (406.4)	15.98 (406.0)	36.93 (938)		712.8 (324)	–
18 DN450	18.000 (457.2)	17.00 (432.0)	41.61 (1057)		968 (440)	–
20 DN500	20.000 (508.0)	17.99 (457.0)	44.96 (1142)		1403.6 (638)	–
24 DN600	24.000 (609.6)	20.0 (508.0)	50.98 (1295)		1804 (820)	–

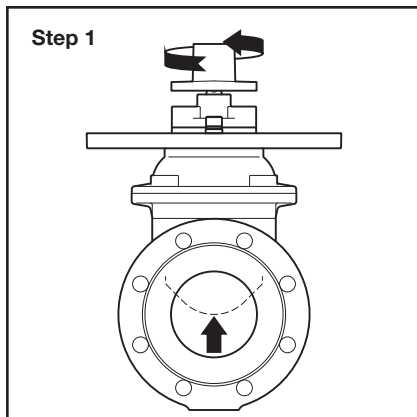


**FIGURE 2**  
**POST INDICATOR GATE VALVE**  
**NOMINAL DIMENSIONS**

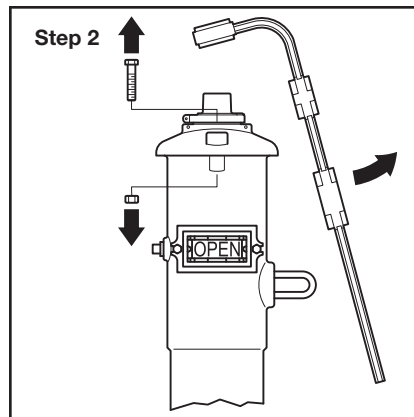




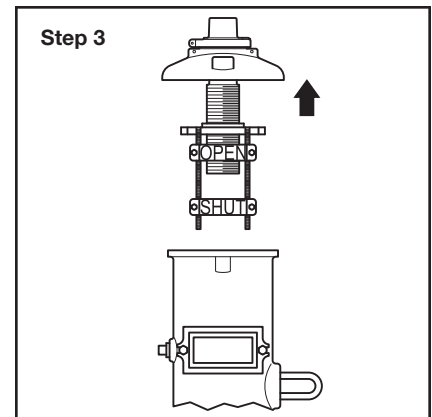
# Installation Vertical Indicator Post, 4 in. to 12 in. (DN100 to DN300) Valves



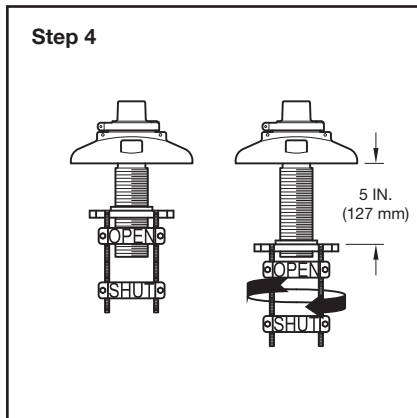
**Step 1.** Rotate the gate valve top cap clockwise to fully open the gate valve.



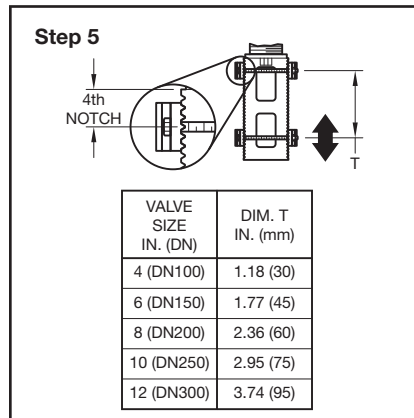
**Step 2.** Remove the indicator wrench and cap bolts and nuts.



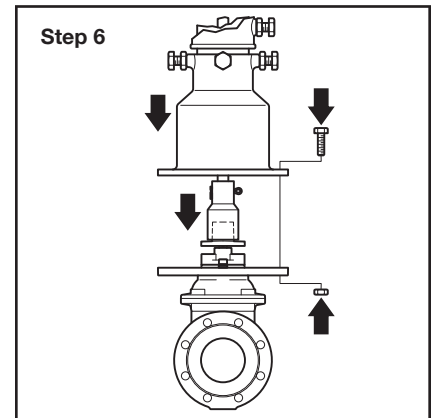
**Step 3.** Remove the cap assembly from the body cavity.



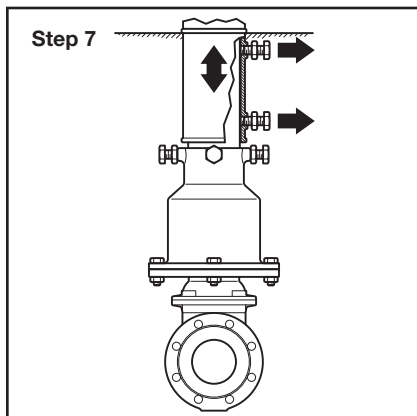
**Step 4.** Rotate the target carrier assembly around the operating nut stem to adjust the distance between the top surface of the carrier yoke and the bottom flange of the cap to 5 in. (127 mm).



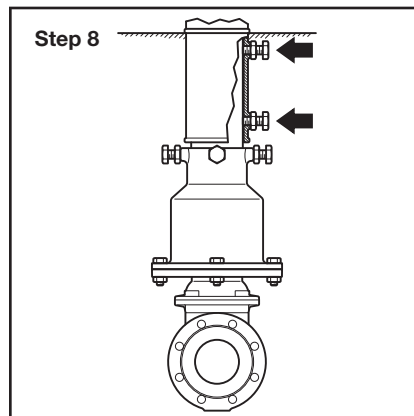
**Step 5.** Engage the middle tooth (centerline) of the OPEN target in the fourth notch in the serrated edge from the top surface of the carrier yoke. Locate the SHUT target per Dimension T in the table.



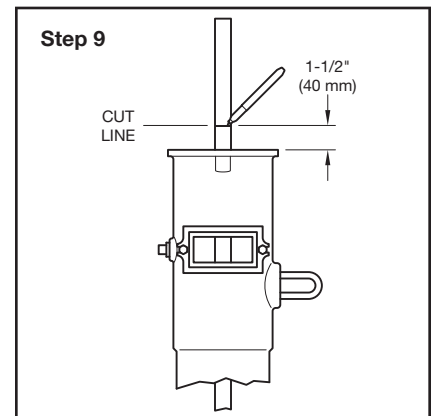
**Step 6.** Temporarily engage the connection tube coupling onto the gate valve top cap and attach the indicator to the gate valve mounting flange with bolts and nuts.



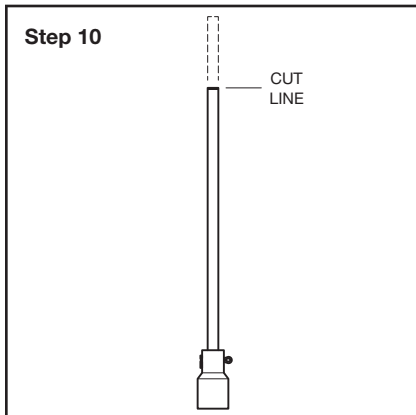
**Step 7.** Loosen the jam nuts and bolts to the free indicator outer pipe from the inner pipe. Adjust the outer pipe bury line even with finished grade.



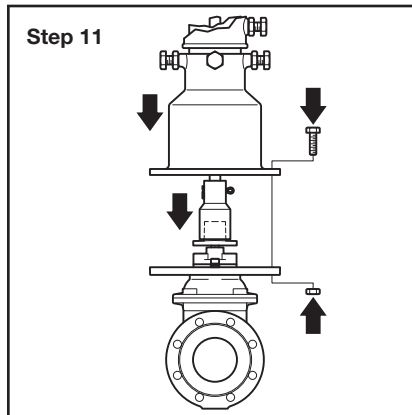
**Step 8.** Tighten the bolts and jam nuts to secure the outer pipe onto the inner pipe.



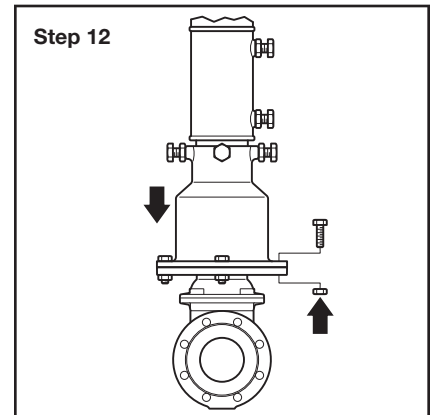
**Step 9.** Mark a cut line on the connection tube 1 1/2 in. (40 mm) above the top flange of the body.



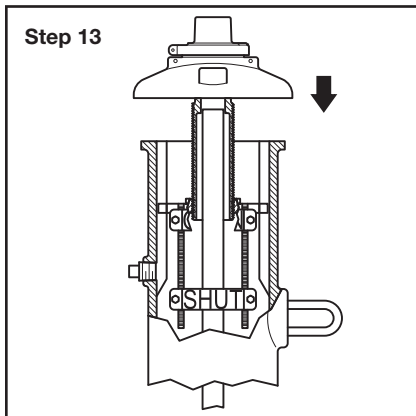
**Step 10.** Remove the connection tube from the body and cut at the cut line.



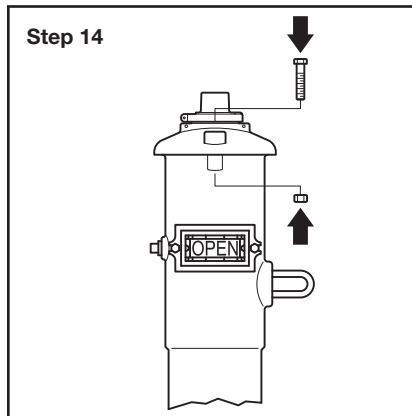
**Step 11.** Temporarily detach the indicator from the gate valve and raise to gain access to the gate valve top cap. Engage the connection tube coupling onto the gate valve top cap.



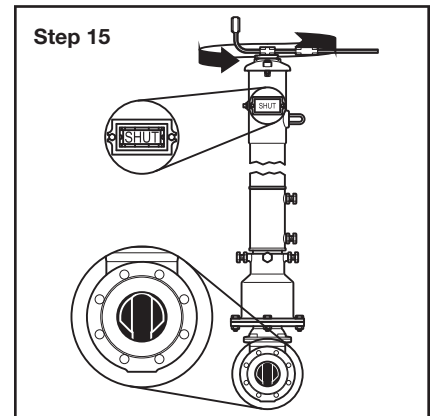
**Step 12.** Secure the indicator to the gate valve with bolts and nuts.



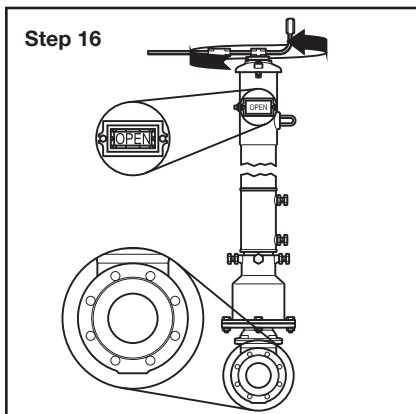
**Step 13.** Insert the cap assembly into the body cavity, aligning the carrier yoke keyway slots with the body keys, and square the hole in the operating nut stem with the connection tube.



**Step 14.** Secure the cap to the body with bolts and nuts.



**Step 15.** Attach the wrench to the operating nut and rotate counter-clockwise. Observe the gate valve waterway to verify the wedge is in the fully SHUT position. Observe the indicator to verify the SHUT targets are centered in the windows.

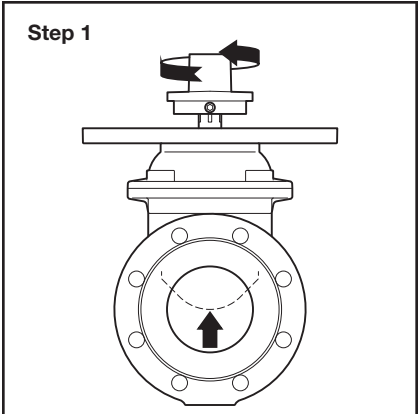


**Step 16.** Rotate the wrench clockwise. Observe the gate valve waterway to verify the wedge is in a fully OPEN position. Observe the indicator to verify the OPEN targets are centered in the windows.

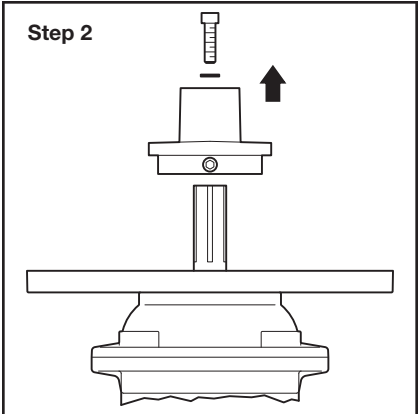
**Note:** Adjust the position of the targets on the carrier yoke as necessary if the conditions in steps 15 and 16 are not achieved. The gate valve must prevent flow when the indicator displays the SHUT condition. Similarly, the gate valve must allow full flow when the indicator displays the OPEN condition.



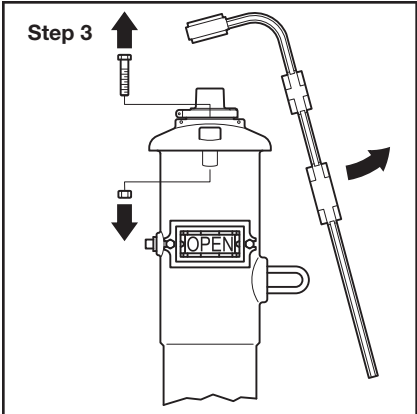
**Installation** Vertical Indicator Post, 14 in. to 24 in. (DN350 to DN600) Valves



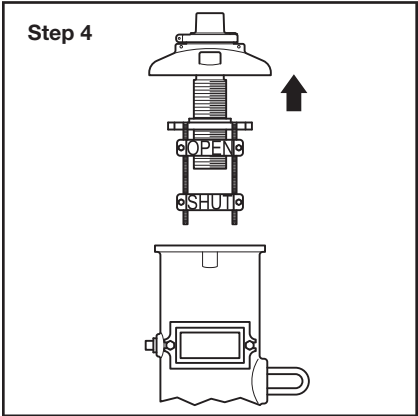
**Step 1.** Rotate the gate valve top cap clockwise to fully the open gate valve.



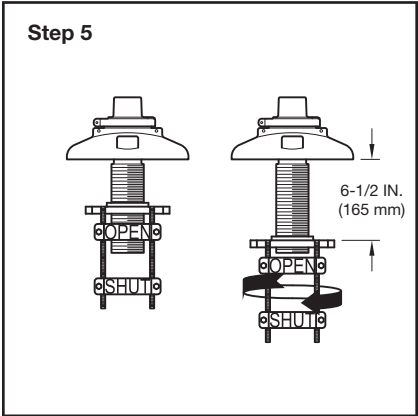
**Step 2.** Remove the top cap from the gate valve.



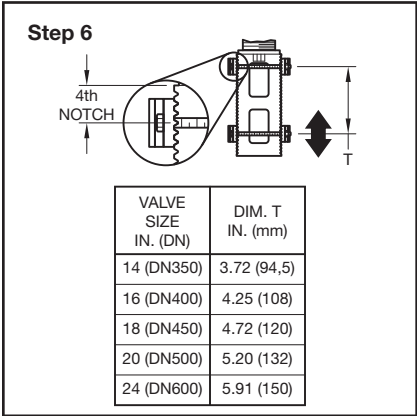
**Step 3.** Remove the indicator wrench and the cap bolts and nuts.



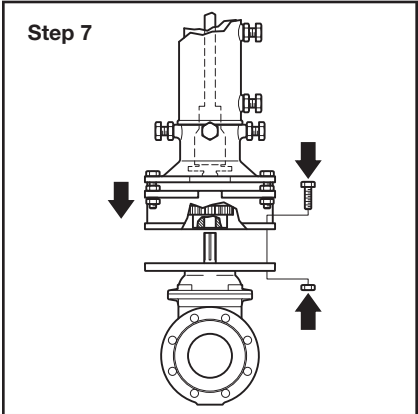
**Step 4.** Remove the cap assembly from the body cavity.



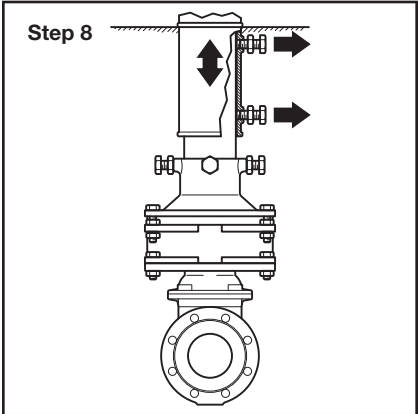
**Step 5.** Rotate the target carrier assembly around the operating nut stem to adjust the distance between the top surface of the carrier yoke and the bottom flange of the cap to 6 1/2 in. (165 mm).



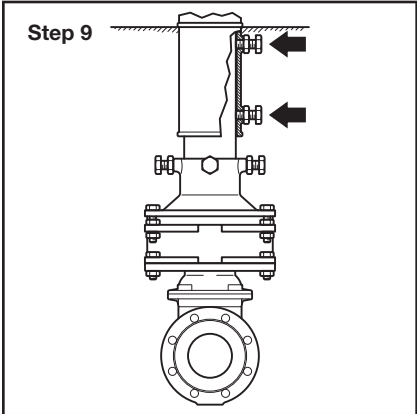
**Step 6.** Engage the middle tooth (centerline) of the OPEN target in the fourth notch in the serrated edge from the top surface of the carrier yoke. Locate the SHUT target per Dimension T in the table.



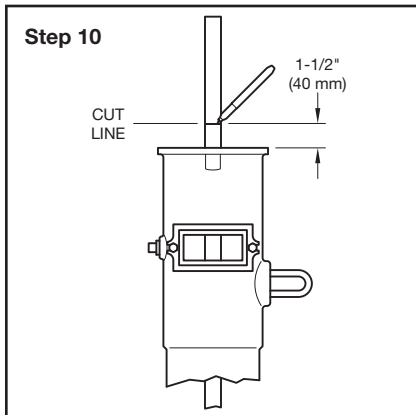
**Step 7.** Temporarily attach the indicator to the the gate valve mounting flange with bolts and nuts. Ensure the connection tube coupling remains engaged onto the reducing gear top cap.



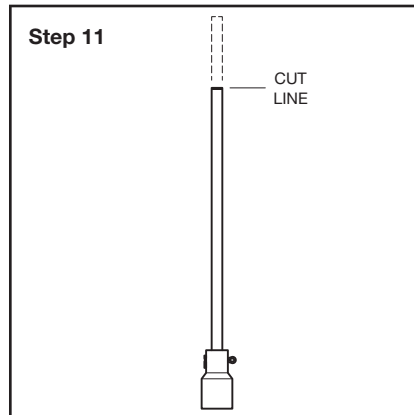
**Step 8.** Loosen the am nuts and bolts to free the indicator outer pipe from the inner pipe. Adjust the outer pipe bury line even with finished grade.



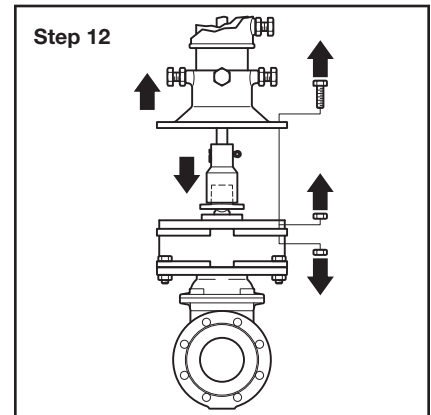
**Step 9.** Tighten the bolts and jam nuts to secure the outer pipe onto the inner pipe.



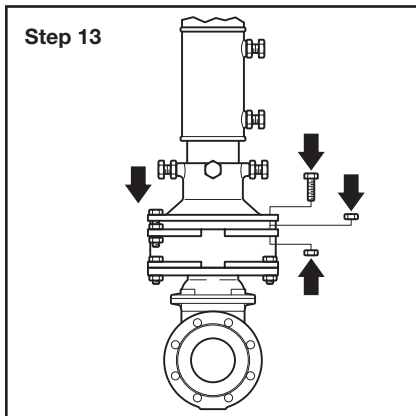
**Step 10.** Mark a cut line on the connection tube 1 1/2 in. (40 mm) above the top flange of the body.



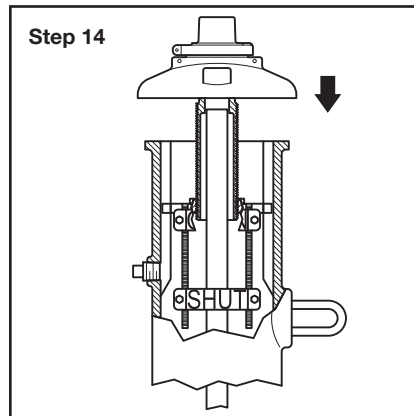
**Step 11.** Remove the connection tube from the body and cut at the cut line.



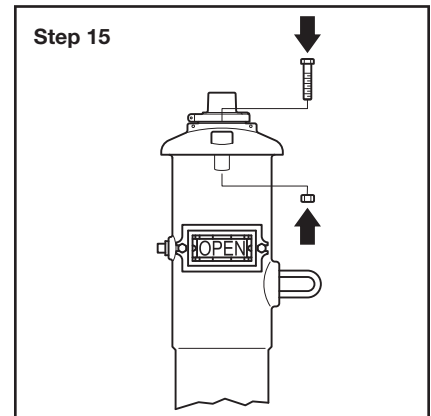
**Step 12.** Temporarily detach the indicator from the reducing gear, and raise the indicator to gain access to the reducing gear top cap. Engage the connection tube coupling onto the reducing gear top cap.



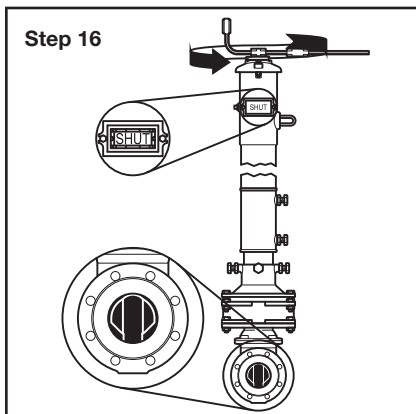
**Step 13.** Secure the indicator to the reducing gear with bolts and nuts.



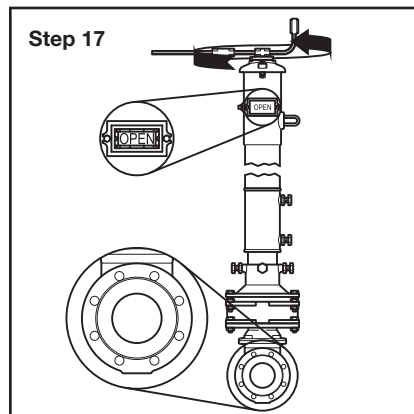
**Step 14.** Insert the cap assembly into the body cavity, aligning the carrier yoke keyway slots with the body keys and the square hole in the operating nut stem with the connection tube.



**Step 15.** Secure the cap to the body with bolts and nuts.



**Step 16.** Attach the wrench to the operating nut and rotate counter-clockwise. Observe the gate valve waterway to verify the wedge is in fully SHUT position. Observe indicator to verify SHUT targets are centered in the windows.



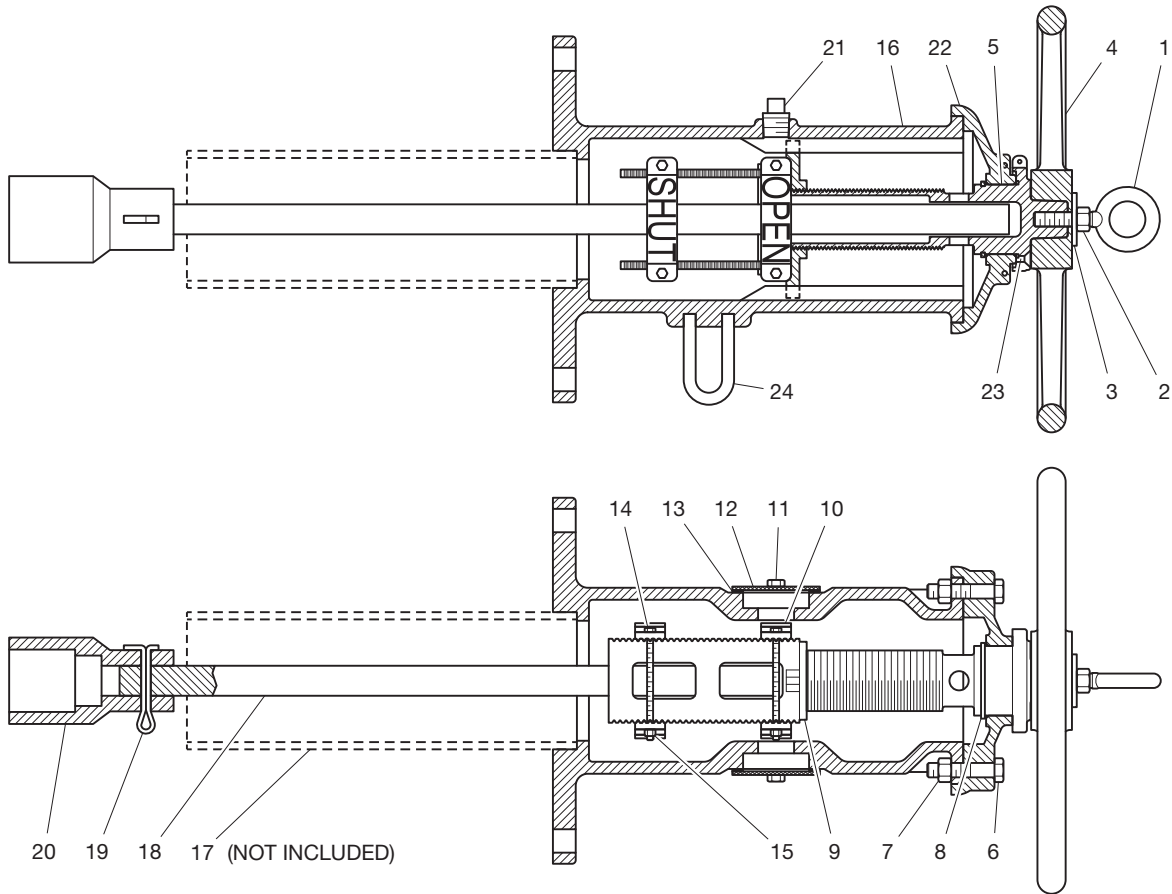
**Step 17.** Rotate the wrench clockwise. Observe the gate valve waterway to verify wedge is in a fully OPEN position. Observe the indicator to verify OPEN targets are centered in the windows.

**Note:** Adjust the position of the targets on the carrier yoke as necessary if the conditions in Steps 16 and 17 are not achieved. The gate valve must prevent flow when the indicator displays the SHUT condition. Similarly, the gate valve must allow full flow when the indicator displays the OPEN condition.

No.	Description	Qty.	Material
1	Lifting Eye		
	Bolt	1	ASTM A307B
2	Hex Nut	1	ASTM A307B
3	Washer	1	ASTM A307B
4	Handwheel	1	ASTM A536
5	Operating Nut	1	SUS304
6	Hex Cap Screw	2	ASTM A307B
7	Hex Nut	2	ASTM A307B
8	Snap Ring	1	AISI 066
9	Target Carrier Yoke	1	SUS304

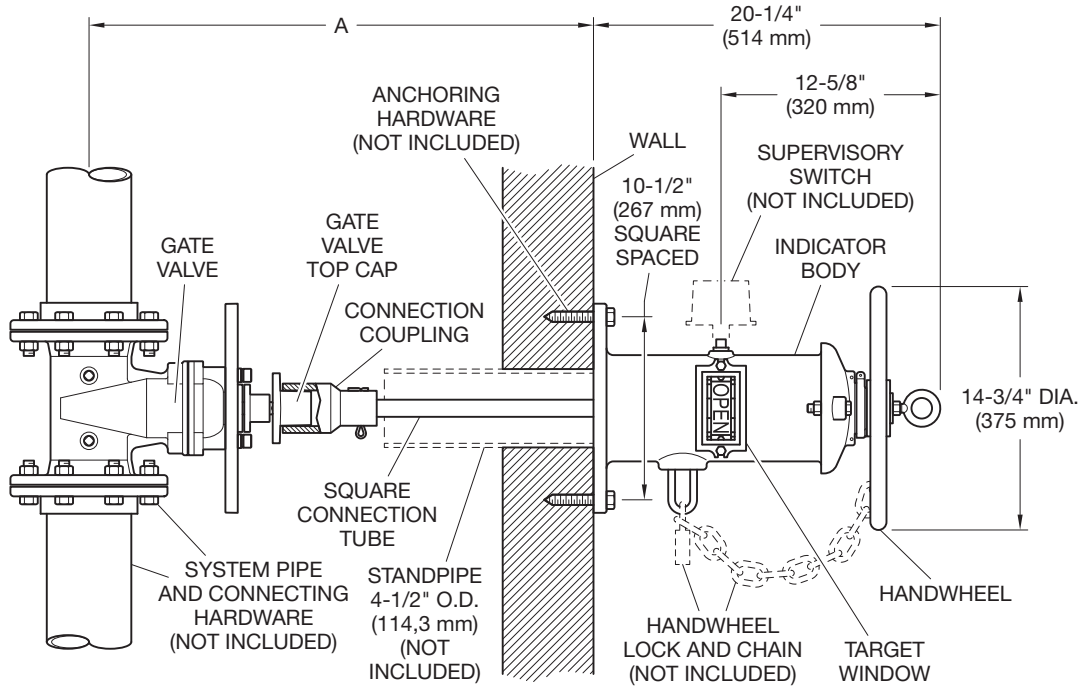
No.	Description	Qty.	Material
10	Target	4	ASTM B108
11	Hex Cap Screw	4	ASTM A307B
12	Window Glass	2	Lexan-UN
13	Window Glass Gasket	2	PTFE
14	Hex Cap Screw	4	ASTM A307B
15	Hex Nut	4	ASTM A307B
16	Body	1	ASTM A536
17	Stand Pipe	1	ASTM A53

No.	Description	Qty.	Material
18	Connection Tube	1	AISI 1045
19	Cotter Pin	1	AISI 304
20	Connection Tube Coupling	1	ASTM A536
21	Plug	1	Malleable Iron
22	Cap	1	ASTM A126B
23	Phillips Head Screw	1	AISI 304
24	Lock Hasp	1	ASTM 307B



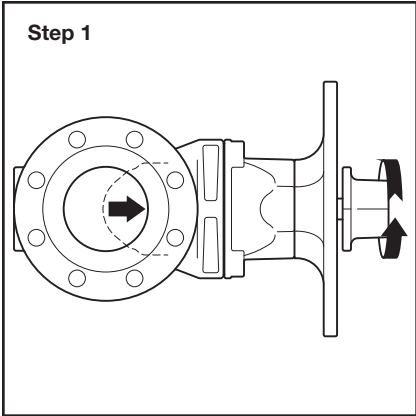
**FIGURE 5**  
**CROSS WALL INDICATOR POST**  
**ASSEMBLY**

Nominal Valve Size in. DN	A Valve CL to Exterior Wall in. (mm)		Nominal Valve Size in. DN	A Valve CL to Exterior Wall in. (mm)	
	Minimum	Maximum		Minimum	Maximum
2 DN50	10.75 (273)	98.36 (2500)	8 DN200	20.19 (513)	107.81 (2738)
4 DN100	12.75 (325)	100.36 (2550)	10 DN250	24.25 (615)	111.81 (2840)
6 DN150	16.63 (422)	104.25 (2647)	12 DN300	27.56 (700)	115.13 (2925)

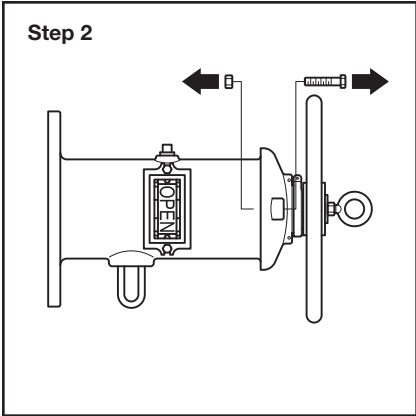


**FIGURE 6**  
**CROSS WALL INDICATOR POST**  
**FEATURES AND NOMINAL**  
**INSTALLATION DIMENSIONS**

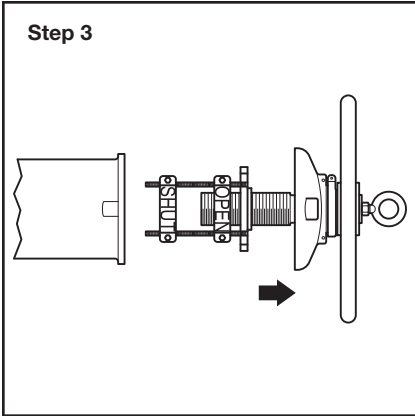
**Installation** Wall Indicator Post, 2 in. to 12 in. (DN100 to DN300) Valves



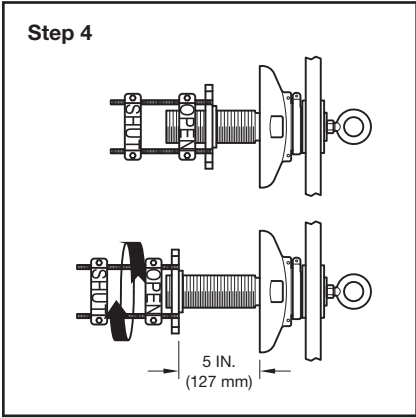
**Step 1.** Rotate the gate valve top cap clockwise to fully open the gate valve.



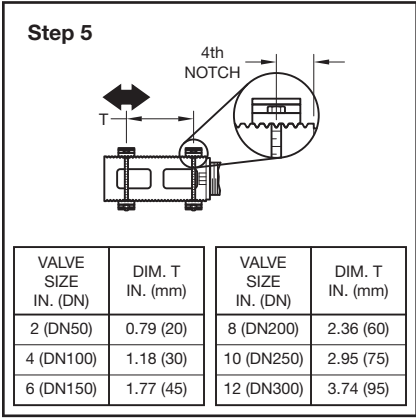
**Step 2.** Remove the indicator cap bolts and nuts.



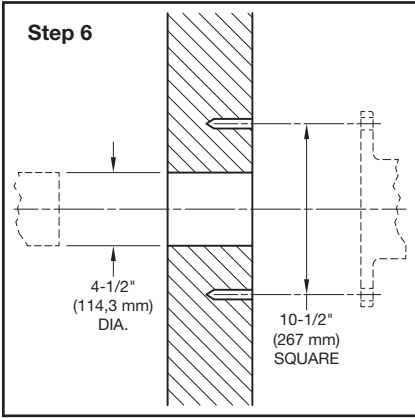
**Step 3.** Remove the cap assembly from the body cavity.



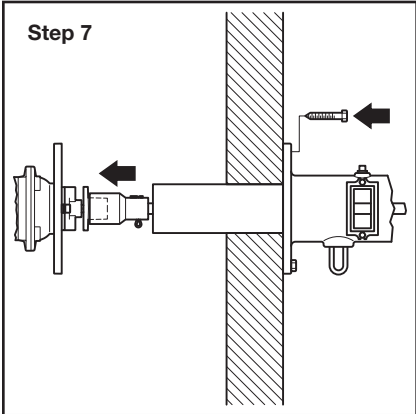
**Step 4.** Rotate the target carrier assembly around the operating nut stem to adjust the distance between the top surface of the carrier yoke, and the bottom flange of the cap to 5 in. (127 mm).



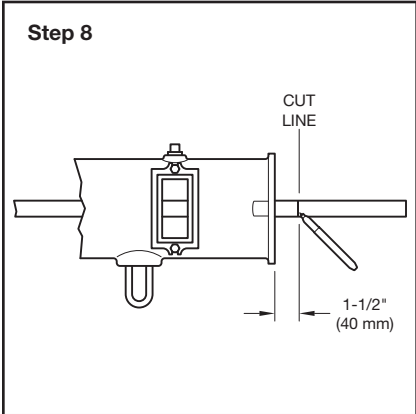
**Step 5.** Engage the middle tooth (centerline) of the OPEN target in the fourth notch in the serrated edge from the top surface of the carrier yoke. Locate the SHUT target per Dimension T in table.



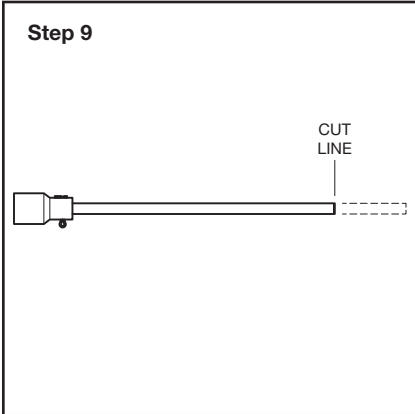
**Step 6.** Prepare the wall for standpipe penetration and indicator mounting.



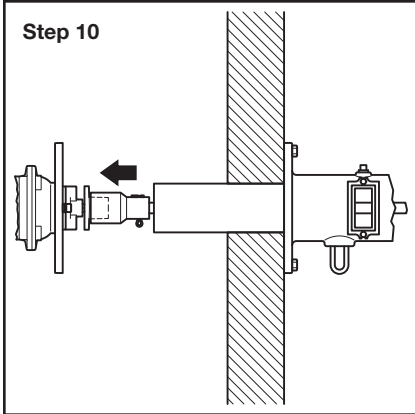
**Step 7.** Insert the standpipe through the bored hole, mount the indicator body, and temporarily engage the connection tube coupling onto the gate valve top cap.



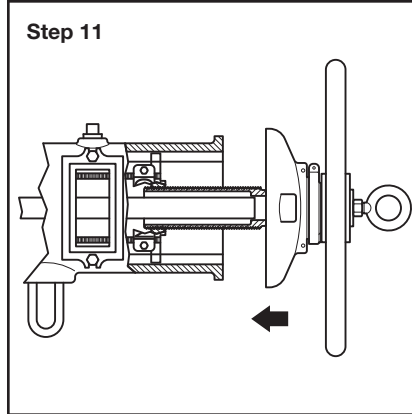
**Step 8.** Mark the cut line on the connection tube 1 1/2 in. (40 mm) beyond the end flange of body.



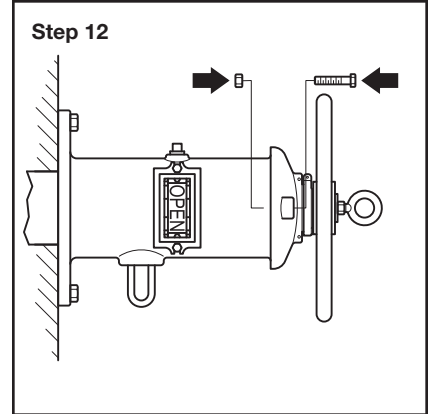
**Step 9.** Remove the connection tube from the body and cut at the cut line.



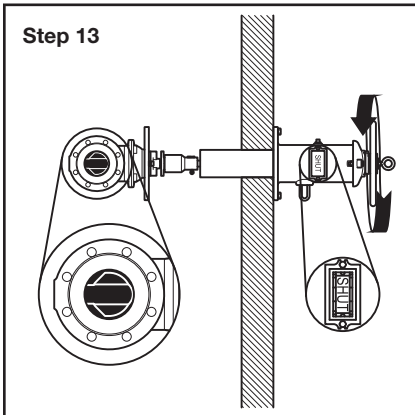
**Step 10.** Insert the connection tube through the body and standpipe and engage the coupling onto the gate valve top cap.



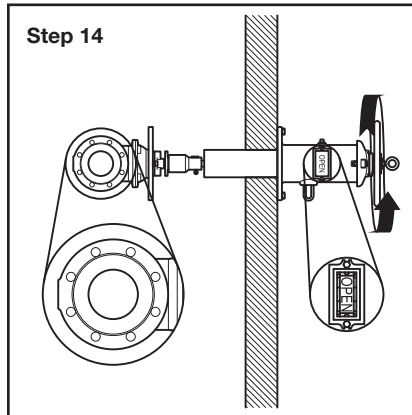
**Step 11.** Insert the cap assembly into the body cavity, aligning the carrier yoke keyway slots with the body keys, and the square hole in the operating nut stem with the connection tube.



**Step 12.** Secure the cap to the body with bolts and nuts.



**Step 13.** Rotate the handwheel counter-clockwise. Observe the gate valve waterway to verify the wedge is in the fully SHUT position. Observe the indicator to verify the SHUT targets are centered in the windows.



**Step 14.** Rotate the handwheel clockwise. Observe the gate valve waterway to verify the wedge is in the fully OPEN position. Observe the indicator to verify the OPEN targets are centered in the windows.

**Note:** Adjust the position of the targets on the carrier yoke as necessary if the conditions in Steps 13 and 14 are not achieved. The gate valve must prevent flow when the indicator displays the SHUT condition. Similarly, the gate valve must allow full flow when the indicator displays the OPEN condition.

# Care and Maintenance

The TYCO Resilient-Seated Gate Valves with Vertical or Cross Wall Post Indicators must be maintained and serviced in accordance with this section.

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, permission to shut down the affected fire protection system must be obtained for the proper authorities and notify all personnel who may be affected by this action.

After placing a fire protection system in service, notify the proper authorities and advise those responsible for monitoring proprietary and/or central station alarms.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the NFPA such as NFPA 25, in addition to the standards of any authorities having jurisdiction. Contact the installing contractor or sprinkler manufacturer regarding any questions.

Automatic sprinkler systems are recommended to be inspected, tested, and maintained by a qualified inspection service in accordance with local requirements and/or national codes.

After installation and before pressurizing the valve, inspect all pressure-bearing bolts and parts for adequate tightness to prevent leakage and to ensure proper operation. Include the following parts:

- Bonnet (4)\*
- Gland (6)\*
- Plugs (15)\*
- Upstream or downstream connections (15), and end connections\*
- Indicator post handwheel (4)\*\*

\* = See Figure 1  
\*\* = See Figure 5

### Gate Valve

Debris lodged in the sealing area of the wedge may cause the valve to close hard. Backing off the indicator wrench or handwheel and closing it again, several times if necessary, can correct this problem.

The valve should never be forced to seat by applying a wrench or extension to the lever, as it may distort the valve components or score the sealing surfaces. All replacement parts must be obtained from the manufacturer to assure proper operation of the valve.

### Vertical Indicator Post

It is recommended that vertical indicator posts used to operate fire protection system water control valves be locked in the fully open position using the wrench. The locks must be sturdy and resistant to breakage except by heavy bolt cutters.

It is recommended that a visual inspection be carried out on a monthly basis to perform the following checks:

- Post cap, upper barrel, and windows are not damaged
- Targets indicate that the valve is open
- Wrench is in place on the post and is securely locked

It is further recommended that on a quarterly basis, the vertical indicator post should be closed two turns and then reopened to verify that the PIV is in the fully open position and properly engages with the post. Where a supervisory switch is installed, a check should be undertaken to ensure that the contacts are working properly.

Any missing or damaged parts should be immediately replaced.

Indicator Post	Part Number
Vertical Type A	TJUPA
Vertical Type B	TJUPB
Cross Wall	TJWP
<b>TABLE D VERTICAL AND CROSS WALL INDICATOR POST PART NUMBERS</b>	

**Note:** If the target carrier yoke must be disassembled or cleaned for any reason, apply LOCTITE LB8150 or an equivalent grease as a lubricant to the stainless-steel threads of the operating nut prior to reassembly.

### Cross Wall Indicator Post

It is recommended that cross wall indicator posts used to operate fire protection system water control valves be locked in the fully open position using the handwheel. The locks must be sturdy and resistant to breakage except by heavy bolt cutters.

It is recommended that a visual inspection be carried out on a monthly basis to perform the following checks:

- Post body, handwheel, and windows are not damaged
- Targets indicate that the valve is open
- Post is properly locked open

It is further recommended that on a quarterly basis, the cross wall indicator post should be closed two turns and then reopened to verify that the PIV is in the fully open position and properly engages with the post and that the supervisory switch contacts are working properly.

Any damaged parts should be immediately replaced.

**Note:** If the target carrier yoke must be disassembled or cleaned for any reason, apply LOCTITE LB8150 or an equivalent grease as a lubricant to the stainless-steel threads of the operating nut prior to reassembly.

Nominal Valve Size	Nominal Pipe Size	Part Number			
		Flange x Flange ANSI Class 150	Flange x Flange ISO 7005-2 PN16	Flange x Flange AS 2129 (Table E)	Groove x Groove
2 DN50	2.375 (60.3)	TJPX0500003	TJPX0500001	TJPX0500005	TJPG0500604
4 DN100	4.500 (114.3)	TJPX1000003	TJPX1000001	TJPX1000005	TJPG1001144
6 DN150	6.625 (168.3)	TJPX1500003	TJPX1500001	TJPX1500005	TJPG1501684
8 DN200	8.625 (219.1)	TJPX2000003	TJPX2000001	TJPX2000005	TJPG2002194
10 DN250	10.750 (273.1)	TJPX2500003	TJPX2500001	TJPX2500005	TJPG2502734
12 DN300	12.750 (323.9)	TJPX3000003	TJPX3000001	TJPX3000005	TJPG3003244
14 DN350	14.0 (355.6)	TJPX3500003	TJPX3500001	TJPX3500005	—
16 DN400	16.0 (406.4)	TJPX4000003	TJPX4000001	TJPX4000005	—
18 DN450	18.0 (457.2)	TJPX4500003	TJPX4500001	TJPX4500005	—
20 DN500	20.0 (508.0)	TJPX5000003	TJPX5000001	TJPX5000005	—
24 DN600	24.0 (609.6)	TJPX6000003	TJPX6000001	TJPX6000005	—

**TABLE E**  
**POST INDICATOR GATE VALVE**  
**PART NUMBERS**

## Limited Warranty

For warranty terms and conditions, visit [www.tyco-fire.com](http://www.tyco-fire.com).

## Ordering Procedure

Contact your local distributor for availability. When placing an order, indicate the full product name and Part Number (P/N).

Refer to Table E for gate valve part numbers and Table D for vertical and cross wall indicator post part numbers.

## Replacement Vertical Indicator Post Wrench

All vertical indicator post types feature a removable wrench for operating the PIV. Replace as necessary.

Specify: Vertical Indicator Post Wrench, P/N TJUPWRENCH