

Size range: 4" - 12"



Profit vertical indicator posts type VINPO are used for remote operation of an NRS gate valve. With the built-in indicator, the open or closed position of the NRS gate valve is visualised. It can be placed above ground level. There are 7 possible lengths according to the desired buried depth of the pipe, see page 3 to determine the correct order length. The post is operated by an L-shaped handle that can be secured by a padlock (provided by user).

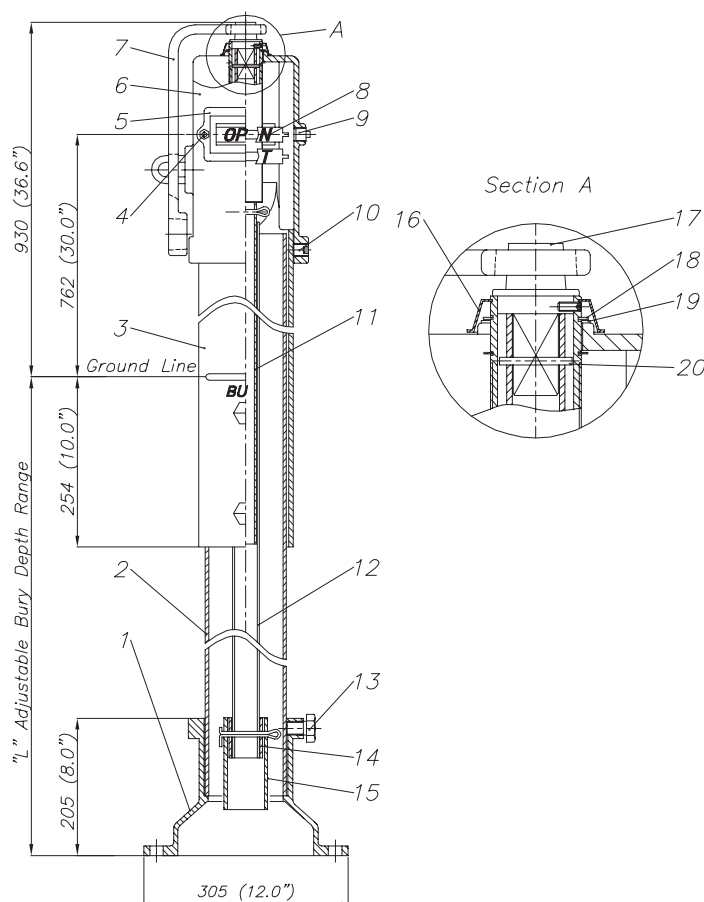
Characteristics

- Indoor & outdoor use.
- Anti-corrosion protection: high grade polyester powder coating, meets or exceeds AWWA C550 standards.
- Meets or exceeds the requirements of NFPA24 standard.
- Indicator posts can be equipped with a supervisory switch, type SWIP, on request.

Approvals

- FM approved to FM standard 1110.
- UL 789 listed.

Material specifications



N°	Component	Specification	European standard	ASTM standard
1	Base flange	Gray cast iron	EN-GJL-250	A126 Class B
2	Lower barrel	Carbon steel	DIN 1629	A53 Type S Grade B
3	Upper barrel	Carbon steel	DIN 1629	A53 Type S Grade B
4	Bolt	Stainless steel	X5 Cr Ni 1810	F593 Type 304
5	Window	Plexiglass	/	Commercial
6	Post head	Gray cast iron	EN-GJL-250	A126 Class B
7	Locking wrench	Ductile iron	EN-GJL-450-10	A536 Grade 65-45-12
8	Target plate	Aluminium alloy	/	B26
9	Plug	Malleable iron	/	A47 Grade 22010
10	Set screw	Carbon steel	ISO898-1 / 4-6	A307 Grade B
11	Upper stem	Carbon steel	St 33	A36
12	Lower stem	Carbon steel	St 33	A36
13	Bolts	Carbon steel	ISO 898-1 / 4-6	A307 Grade B
14	Coupling telescopic rod	Carbon steel	DIN 1629	A53 Type S Grade B
15	Adapting telescopic rod	Carbon steel	DIN 1629	A53 Type S Grade B
16	Weather cap	Poly ethylene	/	Commercial
17	Operating nut	Ductile iron	EN-GJS-450-10	A536 Grade 65-45-12
18	Snap ring	Stainless steel	X5 Cr Ni 1810	A276 Type 304
19	Washer	Stainless steel	X5 Cr Ni 1810	A276 Type 304
20	Pin	Stainless steel	X5 Cr Ni 1810	A276 Type 304

Dimensions

With a valve size and trench depth known, the correct "order length" (I.E., "A", "B", "C", "D", "E", "F", or "G") can be selected with table 1a (inch / feet) or table 1b (mm).

TABLE 1a: Nominal trench depths (TD) in Feet - inch

Valve size	"Order length"													
	A		B		C		D		E		F		G	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
4"	2'-7"	4'-4"	4'-1"	6'-0"	5'-10"	7'-9"	7'-7"	9'-6"	9'-4"	11'-3"	11'-1"	13'-0"	13'-5"	15'-0"
6"	3'-0"	4'-9"	4'-6"	6'-6"	6'-3"	8'-3"	8'-0"	9'-11"	9'-9"	11'-9"	11'-6"	13'-6"	13'-10"	15'-5"
8"	3'-5"	5'-1"	4'-10"	6'-10"	6'-7"	8'-7"	8'-4"	10'-4"	10'-1"	12'-1"	11'-10"	13'-10"	14'-3"	15'-10"
10"	3'-9"	5'-6"	5'-3"	7'-3"	7'-0"	9'-0"	8'-9"	10'-9"	10'-6"	12'-6"	12'-3"	14'-3"	14'-8"	16'-2"
12"	4'-2"	5'-10"	5'-7"	7'-7"	7'-4"	9'-4"	9'-1"	11'-1"	10'-10"	12'-10"	12'-7"	14'-7"	15'-0"	16'-7"

TABLE 1b: Nominal trench depths (TD) in mm

Valve size	"Order length"													
	A		B		C		D		E		F		G	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
4"	787	1321	1245	1829	1778	2362	2311	2896	2845	3429	3378	3962	4089	4572
6"	914	1448	1372	1981	1905	2515	2438	3023	2972	3581	3505	4115	4216	4699
8"	1041	1549	1473	2083	2007	2616	2540	3150	3073	3683	3607	4216	4343	4826
10"	1143	1676	1600	2210	2134	2743	2667	3277	3200	3810	3734	4343	4470	4928
12"	1270	1778	1702	2311	2235	2845	2769	3378	3302	3912	3835	4445	4572	5055

Calculate dimension 'L' with the formula: 'L' = 'TD' - 'B' - 'C'. See Fig. A for clarification.

TABLE 2: Dimension B

Valve size	Inch	mm
	B	B
4"	9,88	251
6"	13,98	355
8"	17,36	441
10"	21,06	535
12"	24,30	617

TABLE 3: Dimension C ½ of pipe O.D.

Valve size	Inch	mm
	B	B
4"	2,4	61
6"	3,45	88
8"	4,53	115
10"	5,55	141
12"	6,6	168

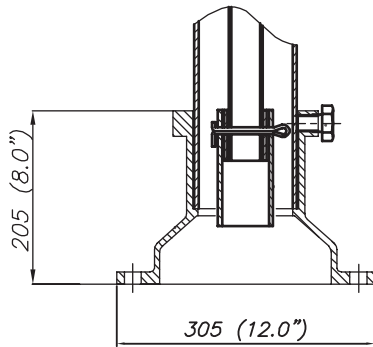
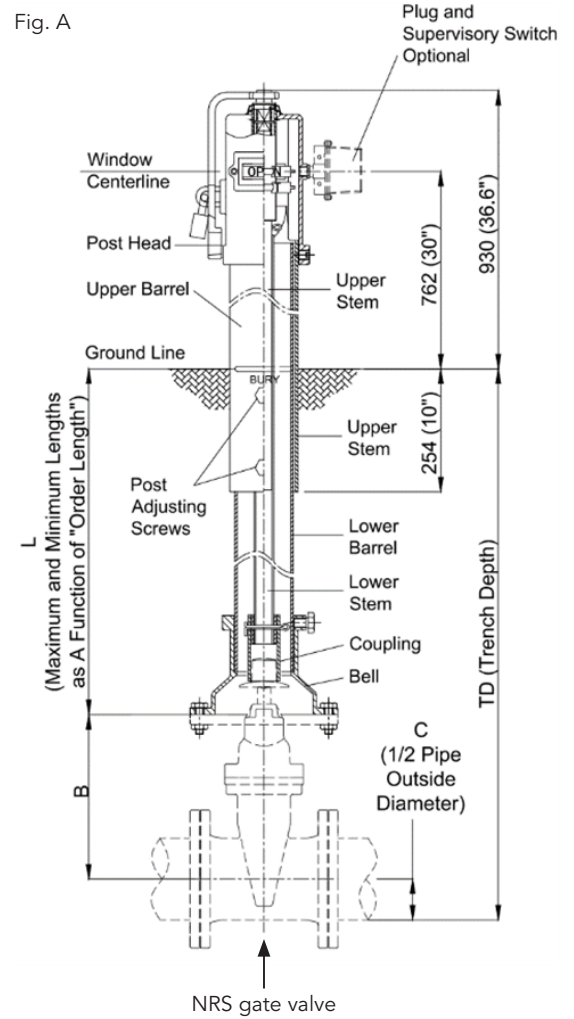


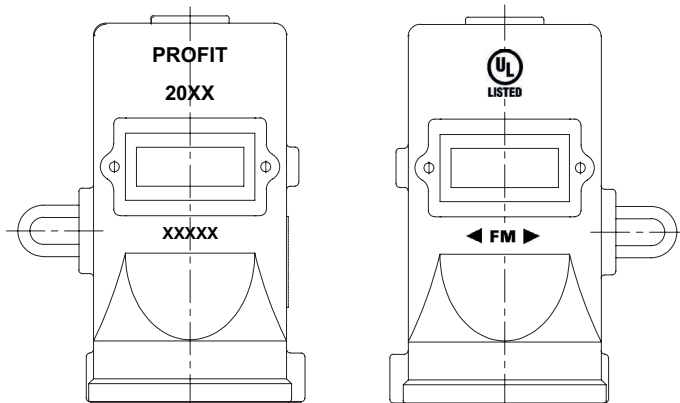
TABLE 4: Dimension L

Order length	Min		Max		Weight
	Inch	mm	Inch	mm	
A	18,25	464	39,5	1003	61
B	36	914	60,5	1537	74
C	57	1448	81,5	2070	80
D	78	1981	102,5	2604	89
E	99	2515	123,5	3137	99
F	120	3048	144,5	3670	109
G	148,5	3772	168	4267	119



Marking

Body:



Marking plate:





Storage and handling

- Each indicator post should be unloaded carefully, it should not be dropped. Never lift indicator posts by the stem, operating nut or handwheel.
- The indicator posts should be inspected at the time of receipt for damage in shipment. The initial inspection should verify compliance with valves specifications.
- The indicator posts should be stored in a manner that protects them from the environment, preferably indoors. When stored outside, protect the posts from weather conditions and avoid accumulation of water, dirt, or debris.



Installation

- The indicator posts must be provided with adequate support. Adjoining pipework must be supported and aligned.
- Prior to installation, a check of the identification plate and body marking must be made to ensure that the correct post is being installed.
- Inspect the post before installing: all special packaging material must be removed. End protectors should only be permanently removed immediately before installation. Open and close the posts to ensure that it operates properly.
- Personnel for the installation must be qualified for the task.
- Installing the post:

The VINPO vertical indicator post bolts directly onto the flange of 4"-12" (DN100 / DN300) gate valves (FNRS / GNRS) connecting to the operating nut. The base flange can be mounted to the post plate with four M20 bolt holes. Mounting bolts and nuts are provided with the post.

The VINPO indicator post is available in seven different order lengths (A-G). Each length provides for a possible adjustment of dimension "L" in figure A. The post head can be adjusted for a correct ground level in height relative to the lower barrel. Two set screws located at the base of the upper barrel allow adjustment. The stem requires no field cutting within the indicated adjustment range of each length.

The VINPO indicator post has a threaded sleeve which lets the installer to set the "OPEN" and "SHUT" targets for the different sizes 4"-12" (DN100 / DN300) NRS-valves. See table 5 for the number of turns to open the valve. See steps 1-7 for the correct setup. **The targets for the VINPO vertical indicator post have been factory set for use with a 6" gate valve.**

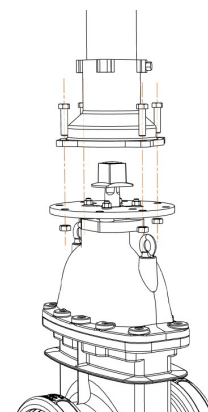


TABLE 5: turns to open VINPO

Valve size	inch B	Turns to open
4"	9,88	12,5 - 14
6"	13,98	19 - 20,5
8"	17,36	25 - 26,5
10"	21,06	31,5 - 33
12"	24,30	37,5 - 39

1. Completely close the valve.
2. Loosen the post head set screw, and lift the post head / upper stem assembly.
3. Remove the locking wrench or hand wheel, pry off the weather cap, remove the retaining ring, and then lift the post head clear of the upper stem assembly.
4. Position the targets like shown in figure D. Set "SHUT" target first, set "OPEN" target.
(Top surface of target thread with valve size reference mark).
5. Mount the retaining ring, weather cap, and place post head/upper stem assembly onto the UPPER BARREL. Tighten the post head set screw, with a torque of 40 to 60 ft lb / 55 to 80 Nm.
6. Using the locking wrench or hand wheel, open and close the valve and check to see that the "SHUT" and "OPEN" targets are clearly in view in the windows, at their respective positions, and that there is no feeling of binding of the upper or lower stem assemblies. It is recommended that the turns to open / close are counted and compared to the valve manufacturer's specification, in order to verify full valve opening.
7. Loosen the two bolts at the base of the upper barrel and then slide the post head up until the bury line of the post head coincides with the planned finished ground level. Tighten the two bolts with a torque of 40 to 60 ft lb / 55 to 80 Nm. When properly installed, the centreline of the target windows will be 30 inches / 762mm above the finish grade.

NOTES: If the internal operating parts are not able to move smoothly, the vertical alignment of the Indicator Post must be corrected.

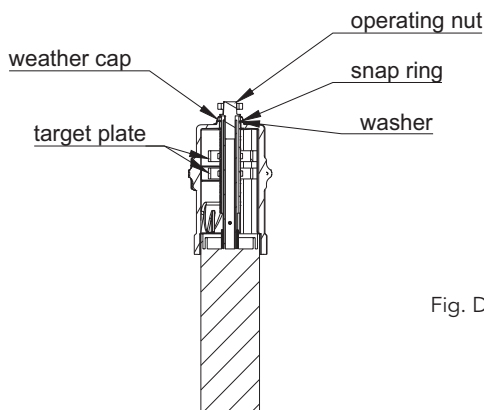
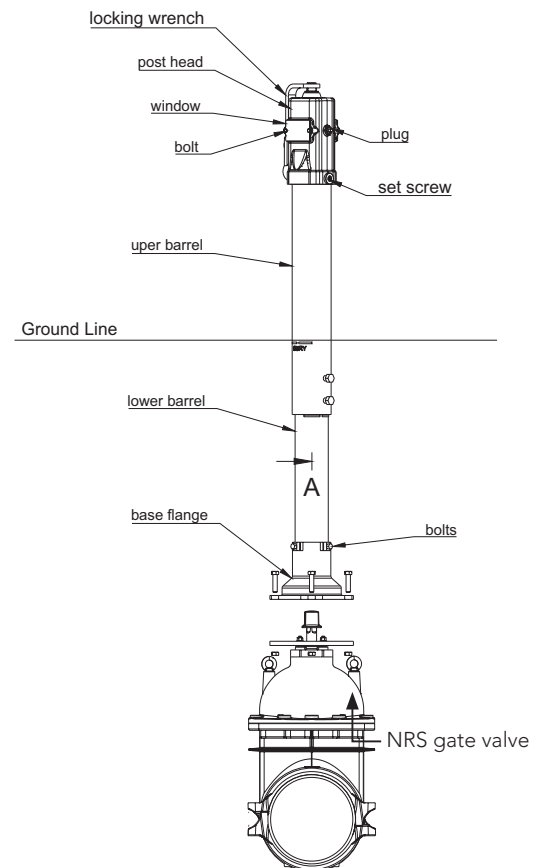
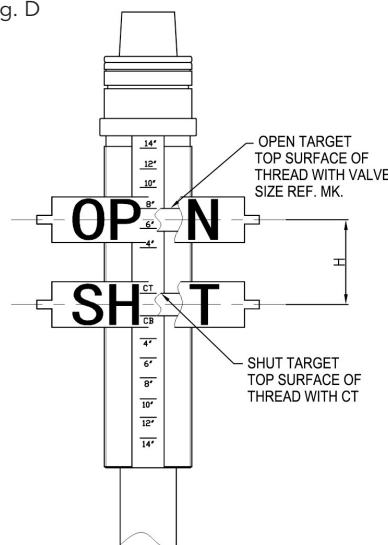


Fig. D



- Operation:
 1. The valve is opened by turning the operating nut or indicator post counter clockwise rotation.
 2. The valve is closed by turning the operating nut or indicator post clockwise rotation.
 3. Turn the valve fully open before filling and pressurising the system.

GENERAL INFO

- Installers should be trained or experienced to install and understand the product.
- Read and understand all technical datasheets and installation instructions before attempting to install, remove or adjust any Profit piping products.
- Depressurise and drain the sprinkler installation system before attempting to install, remove or adjust any Profit piping products.
- Never work on piping systems that are pressurised and / or filled with water.
- Piping Logistics reserves the right to change specifications, designs and / or standard equipment without notice and without incurring in any obligations.
- Use the necessary Personal Protection Equipment (PPE) to avoid personal injury (helmet, safety shoes and goggles, Profit gloves).



Failure to follow these instructions could result in death or serious injury and property damage.

We advise to always store our products in closed and dry environments, the products do not need any specific maintenance once installed on an aboveground sprinkler installation.

REVISION TABLE

Date	△	Notes
15/05/2024		Initial release.
17/06/2024	A	Page 1 - The approvals have been added.