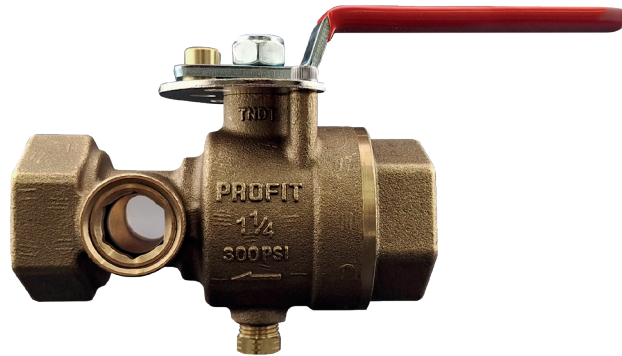


Size range: 1" - 2"



The Profit threaded test and drain valve for sprinkler systems serves two primary purposes. It allows regular testing by simulating the needed waterflow in fire conditions, and provides the possibility for controlled drainage. They are essential components for maintaining the system's efficiency and preventing failures during a fire.

Characteristics

- EN 10226-1 / ISO7 Female thread BSPT.
- Can be mounted in any orientation.
- Three lever positions: Test, Drain, and Off.
- Integrated sight glass for sprinkler pipe testing purposes.
- Complies with the requirements of NFPA-13, NFPA-13R, and NFPA-13D.
- Opening in the indicator plate to secure the position with padlock.

Working pressure

- Rated working pressure:
2,07 MPa / 20,7 bar / 300 psi.
- Tested up to 4,20 MPa / 42,0 bar / 610 psi.

Approvals

- FM approved to FM standard 1625.

Working temperature

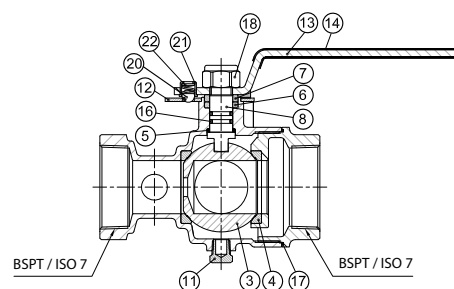
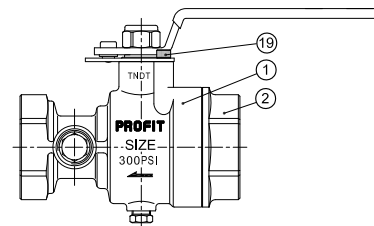
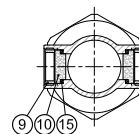
-10°C to +80°C.

WARNING

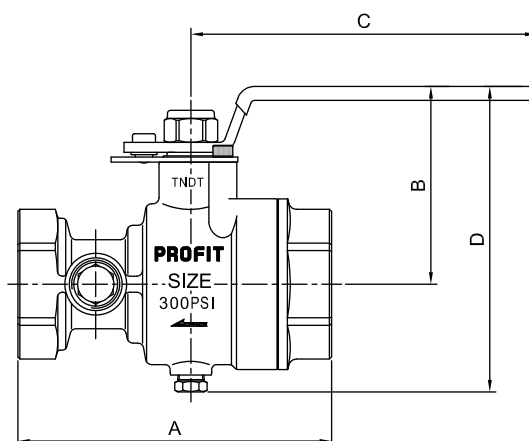
Freezing of any fluid in the valve may severely damage the valve.

Material specifications

No.	Part name	Material ASTM
1	Body	Brass ASTM B584 C85700
2	End piece	Brass ASTM B584 C85700
3	Ball	Nickel plated brass C3604
4	Seat	TFM
5	Thrust washer	TFM
6	Gland packing	TFM
7	Gland	Brass C3604
8	Stem	Brass C3604
9	Retaining ring	Brass C3604
10	Sight glass	PMMA
11	Drain plug	Brass C3604
12	Indicator plate	Galvanised steel
13	Lever	Galvanised steel
14	Lever Grip	PVC Vinyl
15	Packing	EP06880PWRC
16	O-ring	EP00570
17	O-ring (1-1/2"~2")	EP00570
18	Lock nut	Galvanised steel
19	Stop screw	ST. Steel
20	Ball	ST. Steel
21	Plunger	Brass C3604
22	Spring	ST. Steel



Dimensions

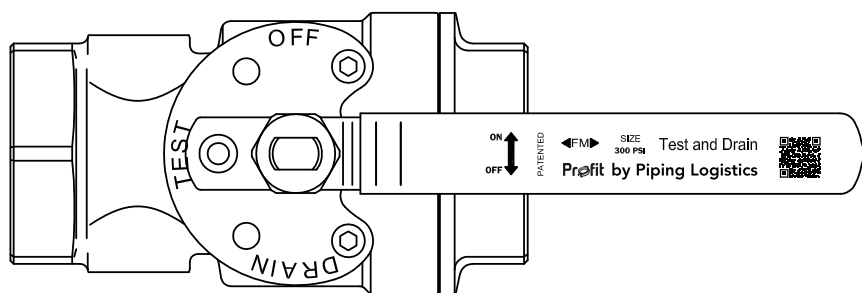


No. / Size	mm				Weight kg
	A ±2	B ±2	C ±2	D ±3	
1"	128,2	68,5	130,5	112	1,2
1¼"	128,2	68,5	130,5	112	1,3
1½"	157,2	99,1	174	154	2,6
2"	157,2	99,1	174	154	2,7

Product specification

Reference	Nominal pipe size		K-factor		Rated working pressure	
	in	mm	Imperial gpm/(psi) ^{1/2} "	Metric L/min/(bar) ^{1/2} "	psi	kPa
TNDT1-4,2	1	25	4,2	60	300	2065
TNDT1-5,6			5,6	80		
TNDT1-8			8,0	115		
TNDT1¼-4,2	1¼	32	4,2	60	300	2065
TNDT1¼-5,6			5,6	80		
TNDT1¼-8			8,0	115		
TNDT1¼-14	1½	40	14,0	200	300	2065
TNDT1½-4,2			4,2	60		
TNDT1½-5,6			5,6	80		
TNDT1½-8			8,0	115		
TNDT1½-14			14,0	200		
TNDT1½-16,8			16,8	240		
TNDT1½-25,2	2	50	25,2	365	300	2065
TNDT2-4,2			4,2	60		
TNDT2-5,6			5,6	80		
TNDT2-8			8,0	115		
TNDT2-14			14,0	200		
TNDT2-16,8			16,8	240		
TNDT2-25,2			25,2	365		

Marking



Installation, maintenance & operating instructions

INSTALLATION

Products must be installed exclusively by qualified personnel and strictly following the instructions below. All installations must be performed in accordance with local regulations and plumbing codes.

1. Prepare the pipes with sealant material on the male tread. We recommend use of pipe dope for threads. If you prefer to use Teflon® tape do not exceed four layers. If dry seal threads are used without dope or tape, we suggest lubricating the threads with a little oil or grease before assembly.
2. The valve may be installed in any orientation. however, the arrow on the valve body must point in the direction of flow - towards the drain.

ATTENTION: tightness of connections between fittings, couplings or hoses with valves must be verified on site after installation using diligent caution, before the system is started. This applies also when the valve is supplied with such components already assembled.

3. Screwing valve onto pipe. Hold the valve at the flats immediately next to the pipe being installed (not at the opposite end). Holding the valve with a pipe wrench or at the wrong end may damage the valve.
4. Do not torque the valve excessively. Over-torque may damage the valve. After assembling, rinse the whole system (valves – pipes etc.) to remove contaminants. Before releasing the system for use, this shall be tested and absence of leaks ascertained.

OPERATING INSTRUCTIONS:

There are 3 different positions in the test and drain valve, "OFF" - "DRAIN" - "TEST". The angle between the positions is 90°.

1. There is no water passage while the valve is in the "OFF" position.
2. When set to "DRAIN", it can be used as a discharge valve.
3. When the valve switches to the "TEST" position, thanks to the special design of the valve bonnet; the water passages from orifice corresponding to a certain K-factor. The sprinkler burst is simulated. At the same time it helps to test the alarm devices.

INSPECTIONS:

Check the valve periodically to ensure proper performance (in complete closed position, flow of media must stop and no leaks shall be detected). More frequent inspections are recommended under extreme operating conditions, i.e. conditions approaching the temperature and/or pressure limits indicated in the specifications for the product, or in the event of valves subject to vibrations, bending and/or torsion. A combination of two or more factors must be considered as extreme operating conditions thus inspections must be increased.

WARNING: For your safety, it is important to carefully follow the instructions below, before removing the valve from the line or disassembling it.

- Wear any protective clothing and equipment normally required when working with the fluid involved.
- This product has been inspected according to Piping Logistics quality procedures. If you ascertain that this valve contains a defect in material and/or due to workmanship, please return it to your seller with a copy of the original box label and the details of your claim (in the event of failure during operation, you should forward details concerning the product position in the system and an analysis of the media flowing through the product). In such cases it is moreover essential to record the installation status of the system through detailed pictures before removing the product. In case of improper application, installation, or maintenance, no claim is accepted. Deterioration or destruction of any part of the valve causes the need for complete replacement of the valve itself; replacement or modification of parts/components of the valve (included assembled devices), causes the immediate withdrawal of Piping Logistics liability, warranty, and certification.
- The packing materials and, when necessary, the valve itself must be disposed of according to the local laws in force. In case of discrepancy between the different versions of these instructions, the reference text is in English language.
- All installations should be performed in accordance with existing local installation regulations and codes of practice where they exist.
- Pursuant to the REACH Regulation, we inform you that the components made of brass alloy present in our products contain lead as an alloy element in quantities exceeding the threshold of 0.1% by weight. Lead was included in the SVHC candidate list for the authorization process on 27 June 2018. No exposure is provided for lead in this form; therefore no additional information is required on the safe use of the products.

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
14/04/2025		Initial release.