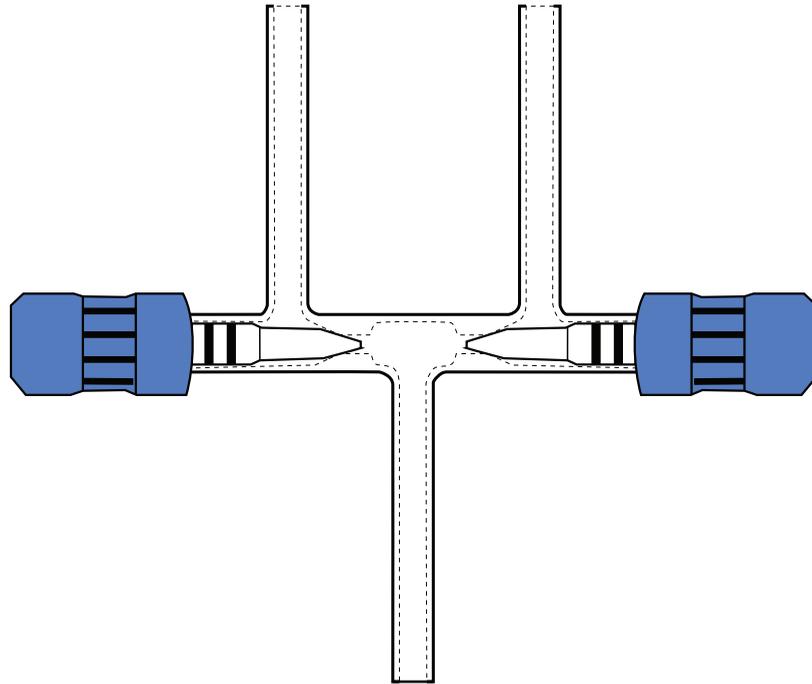
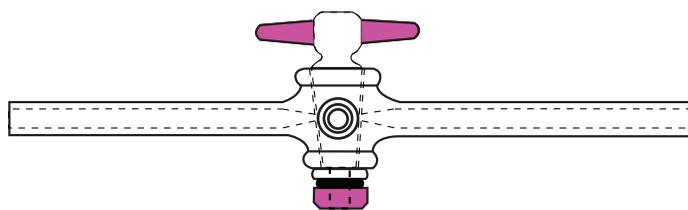


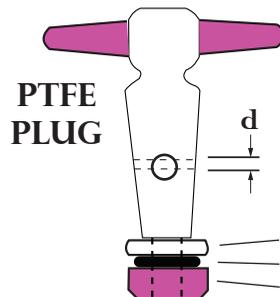
3-WAY VALVE W/ PTFE PLUGS



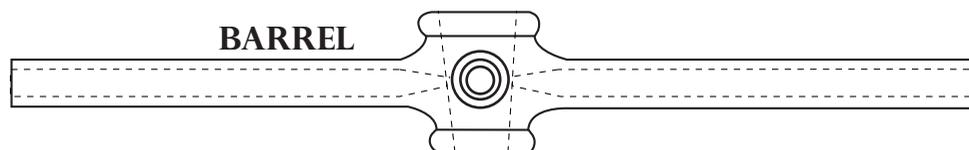
STOPCOCK, T - BORE WITH SOLID PTFE / TEFLON PLUG



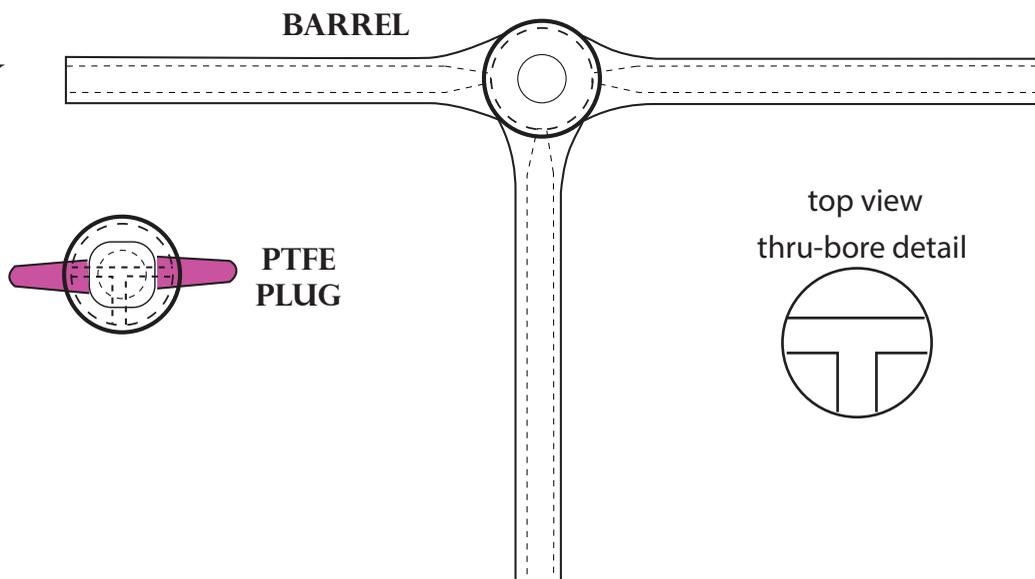
SIDE VIEW



d = Stopcock plug bore (milimeters)
= Stopcock Size



TOP VIEW



A stopcock consists of 2 parts: a PTFE plug that sits inside the glass barrel.

A PTFE washer, rubber O-ring and nut thread onto the plug to secure it inside the barrel.

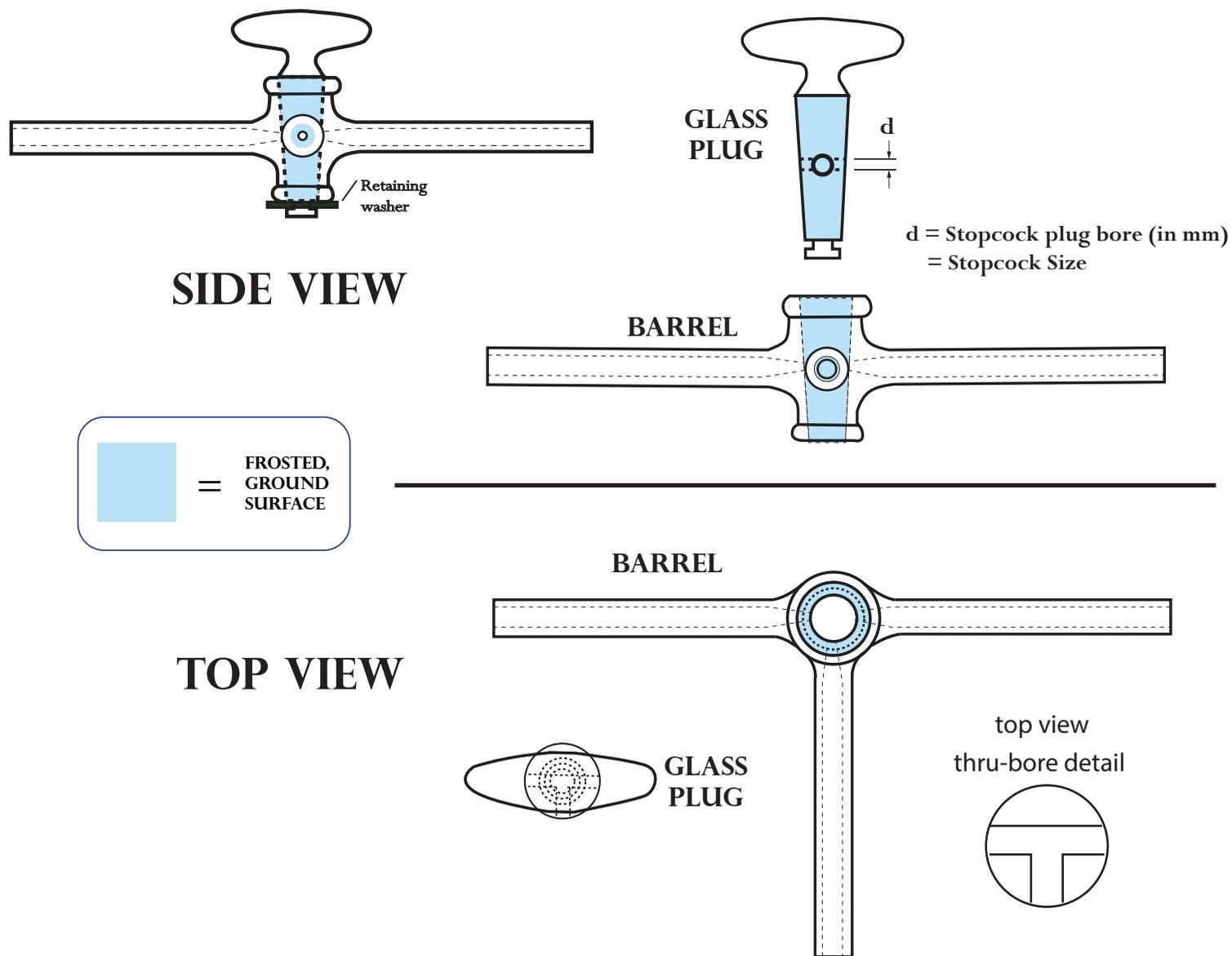
The stopcock size is designated by a single number, which is the diameter (in milimeters) of the hole (or holes) going through the plug,

PTFE stopcocks have a 1:5 taper. 2 milimeters of plug diameter for every 10mm of its length

Typical PTFE Stopcock Sizes: 2 mm, 4 mm, 6 mm, 8 mm, 10 mm

PTFE stopcock barrels have a smooth clear finish and do not require grease.

STOPCOCK, T - BORE WITH SOLID GROUND GLASS PLUG



A ground glass stopcock consists of 2 parts: a glass plug that sits inside the barrel. The 2 parts are ground to achieve mating surfaces. A metal retaining clip or rubber washer on the bottom of the plug holds it fast in the barrel.

The stopcock size is designated by a single number, which is the diameter (in millimeters) of the hole (or holes) going through the plug.

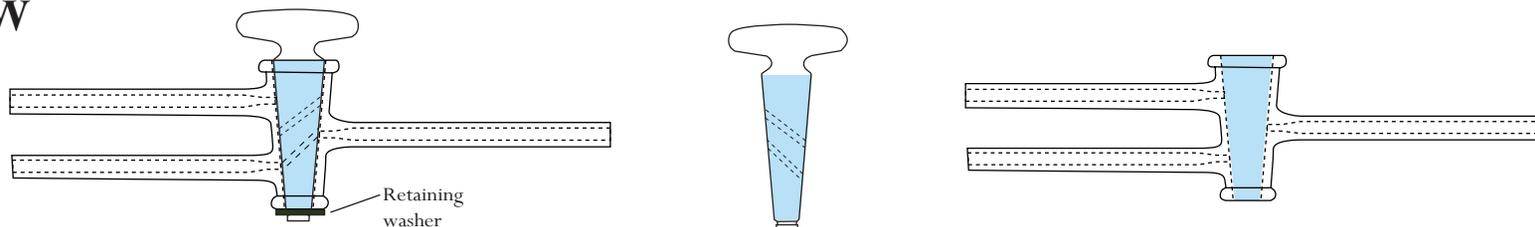
Ground glass stopcocks have a 1:10 taper. 1 millimeter of plug diameter for every 10mm of length.

Typical Ground Glass Stopcock Sizes: 2 mm, 4 mm, 6 mm, 8 mm, 10 mm

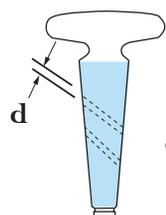
Ground glass surfaces require grease to prevent sticking. Use a grease such as Apiezon brand.

STOPCOCK, DOUBLE OBLIQUE WITH SOLID GROUND GLASS PLUG

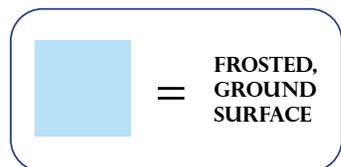
SIDE VIEW



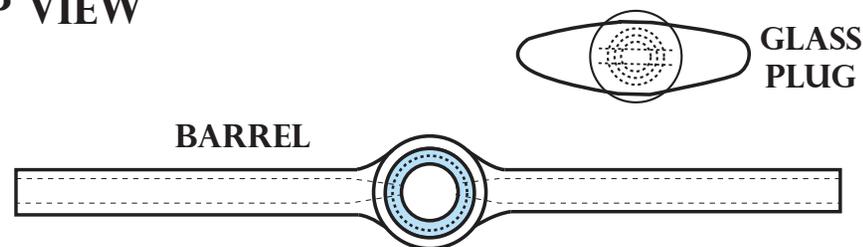
STOPCOCK = PLUG + BARREL



d = Stopcock plug bore (in mm)
= Stopcock Size



TOP VIEW



A ground glass stopcock consists of 2 parts: a glass plug that sits inside the barrel. The 2 parts are ground to achieve mating surfaces. A metal retaining clip or rubber washer on the bottom of the plug holds it fast in the barrel.

The stopcock size is designated by a single number, which is the diameter (in millimeters) of the hole (or holes) going through the plug.

Typical Ground Glass Stopcock Sizes: 2 mm, v4 mm, 6 mm, 8 mm, 10 mm

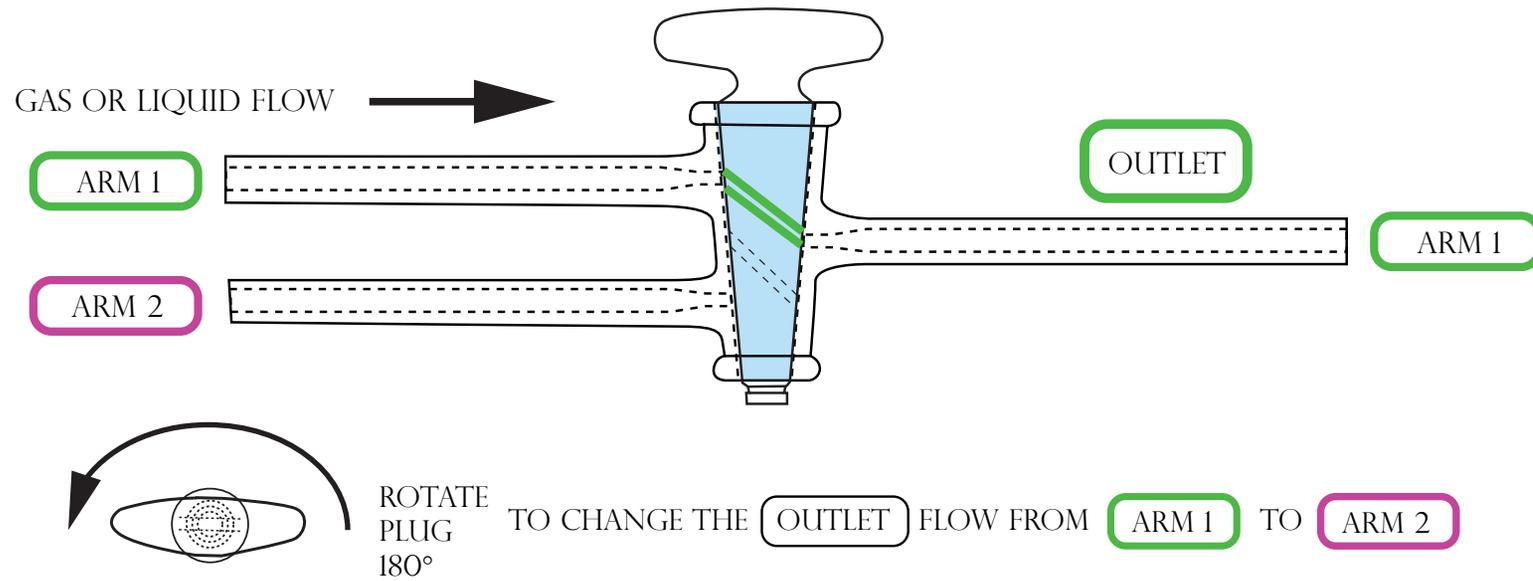
Ground glass surfaces require grease to prevent sticking. Use a grease such as Apiezon.

Ground glass stopcocks have a 1:10 taper. 1 millimeters of plug diameter for every 10mm of .ts length.

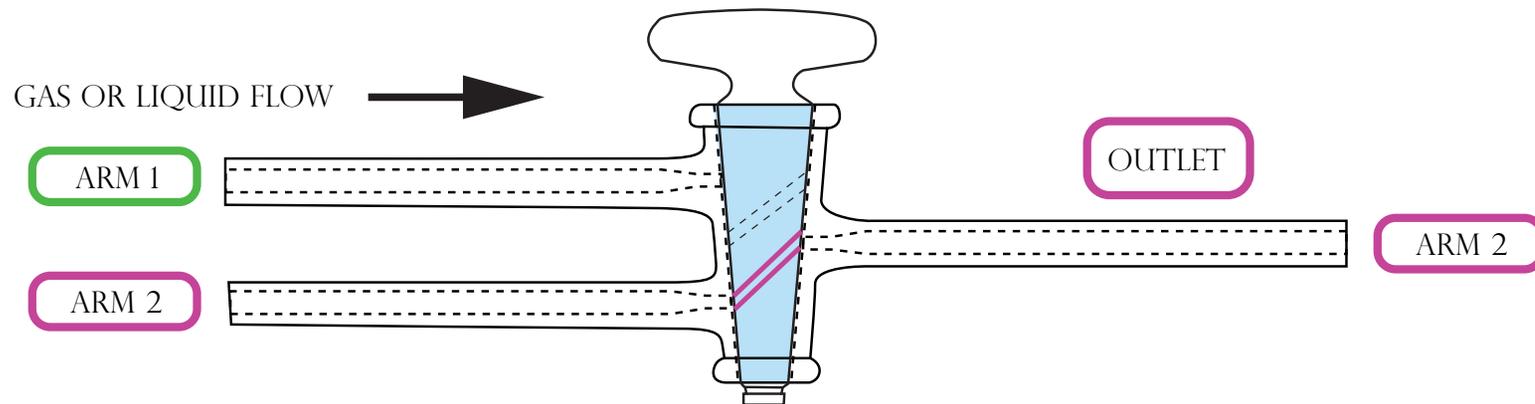
Ground glass stopcocks are manufactured in accordance to **ASTM standard E675-02**.

DOUBLE OBLIQUE STOPCOCK OPERATION

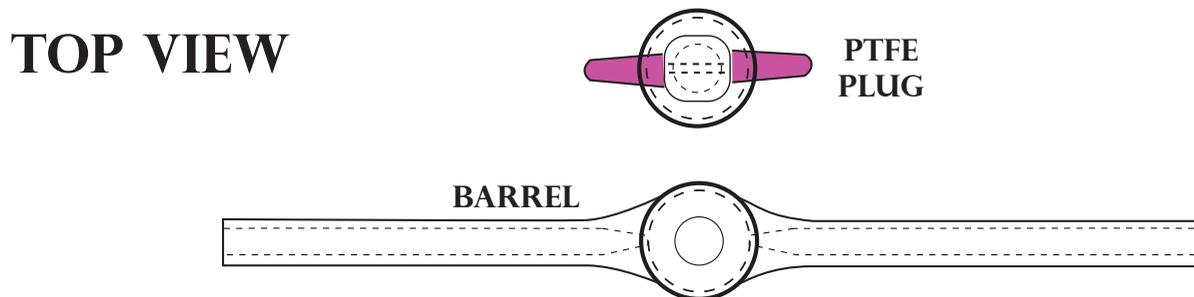
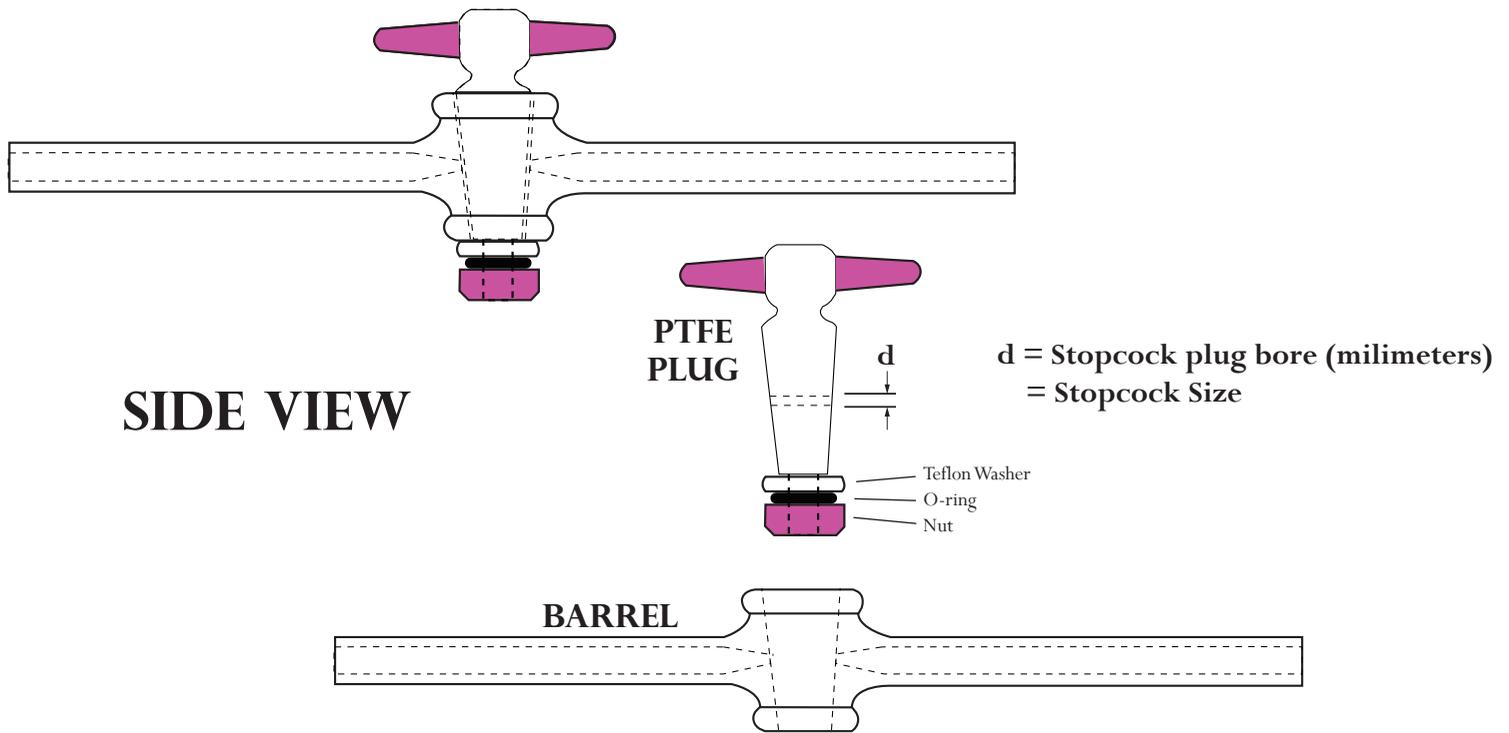
.A.



.B.



STOPCOCK, STRAIGHT BORE WITH SOLID PTFE / TEFLON PLUG



A stopcock consists of 2 parts: a PTFE plug that sits inside the glass barrel.

A PTFE washer, rubber O-ring and nut thread onto the plug to secure it inside the barrel.

The stopcock size is designated by a single number, which is the diameter (in millimeters) of the hole (or holes) going through the plug,

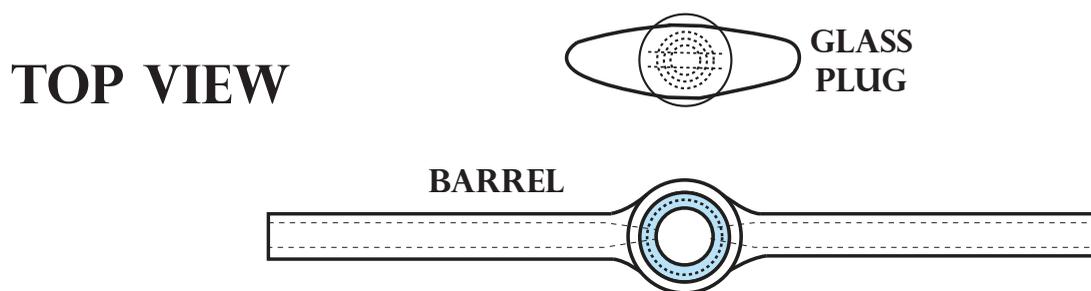
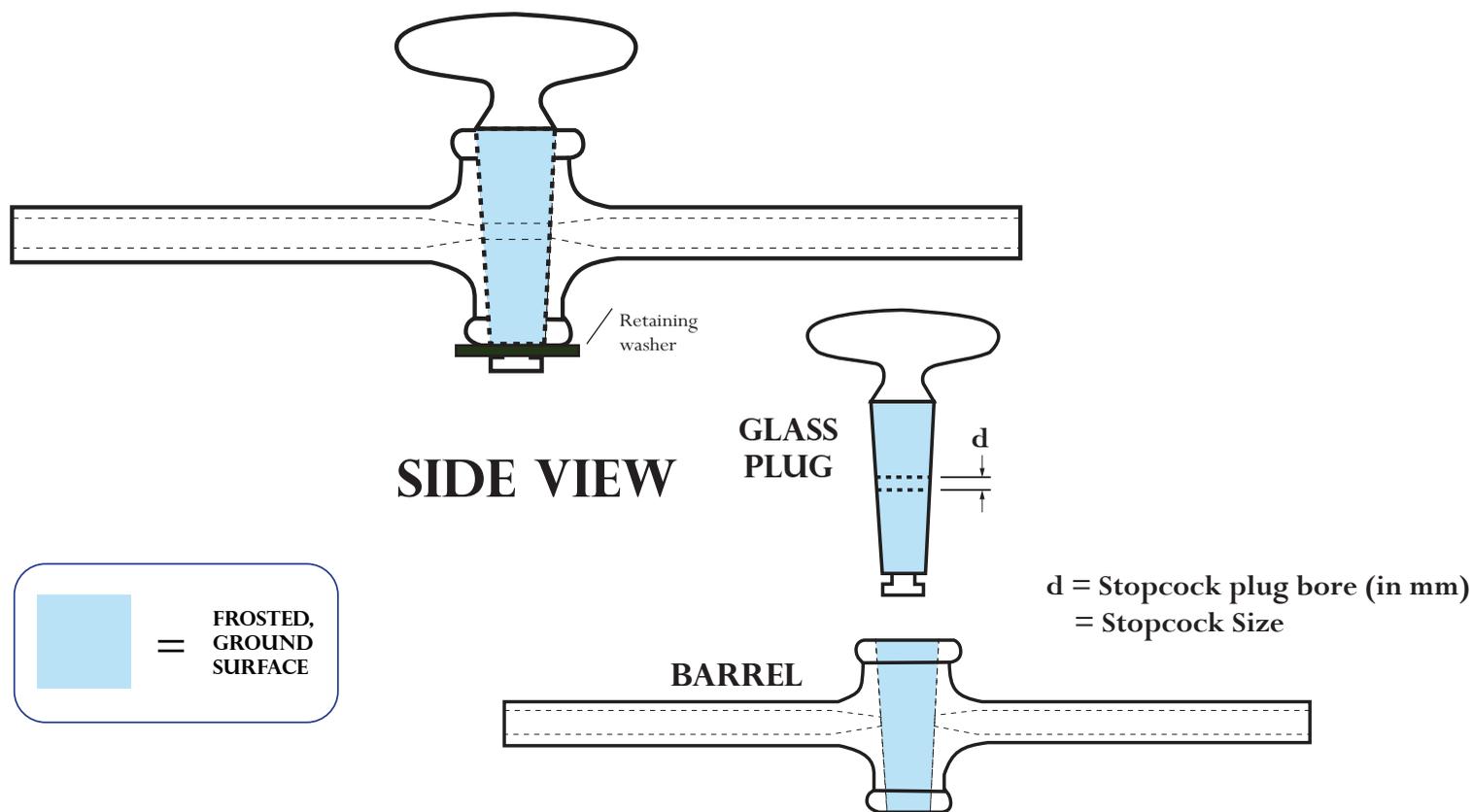
PTFE stopcocks have a 1:5 taper. 2 millimeters of plug diameter for every 10mm of its length

Typical PTFE Stopcock Sizes: 2 mm, 4 mm, 6 mm, 8 mm, 10 mm

PTFE stopcock barrels have a smooth clear finish and do not require grease.

PTFE stopcocks are manufactured in accordance to **ASTM standard E911-98**.

STOPCOCK, STRAIGHT BORE WITH SOLID GROUND GLASS PLUG



A ground glass stopcock consists of 2 parts: a glass plug that sits inside the barrel. The 2 parts are ground to achieve mating surfaces. A metal retaining clip or rubber washer on the bottom of the plug holds it fast in the barrel.

The stopcock size is designated by a single number, which is the diameter (in millimeters) of the hole (or holes) going through the plug.

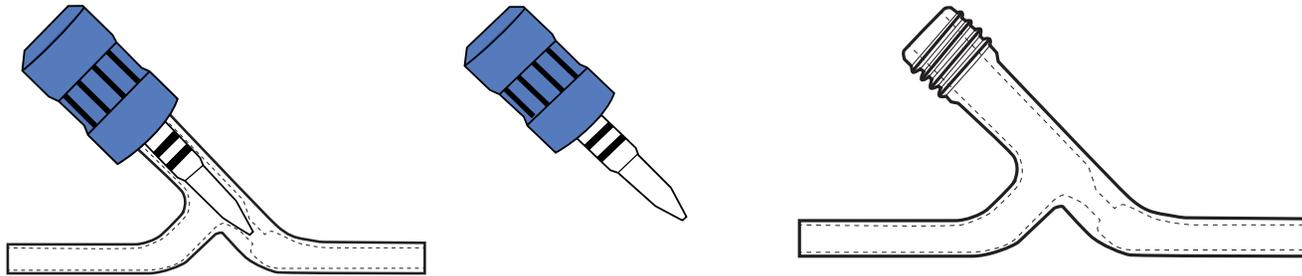
Ground glass stopcocks have a 1:10 taper. 1 millimeter of plug diameter for every 10mm of length.

Typical Ground Glass Stopcock Sizes: 2 mm, 4 mm, 6 mm, 8 mm, 10 mm

Ground glass surfaces require grease to prevent sticking. Use a grease such as Apiezon brand.

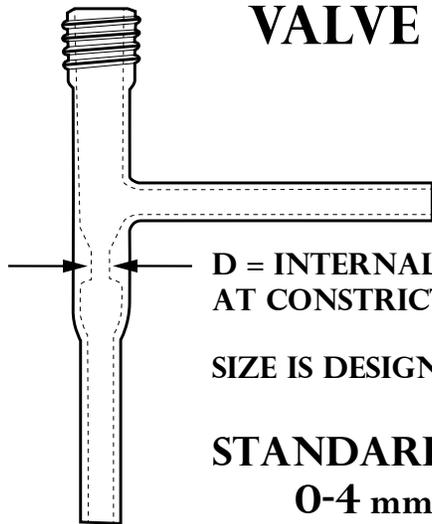
Ground glass stopcocks are manufactured in accordance to **ASTM standard E675-02**.

GLASS VALVE



VALVE = PLUG + BARREL

HOW IS THE VALVE SIZED?



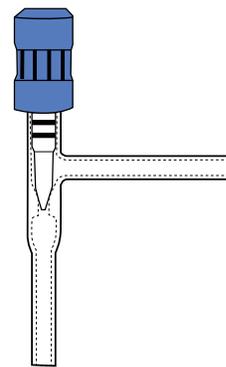
**D = INTERNAL HOLE DIAMETER
AT CONSTRICTION (IN MILLIMETERS)**

SIZE IS DESIGNATED AS 0 - *D*

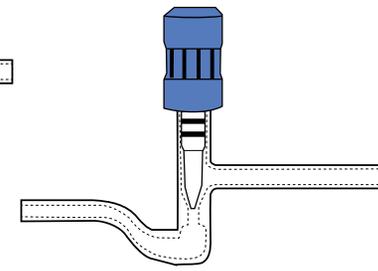
STANDARD VALVE SIZES:

- 0-4 mm**
- 0-8 mm**
- 0-12 mm**

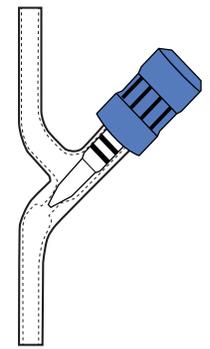
TYPICAL VALVE TYPES



90°

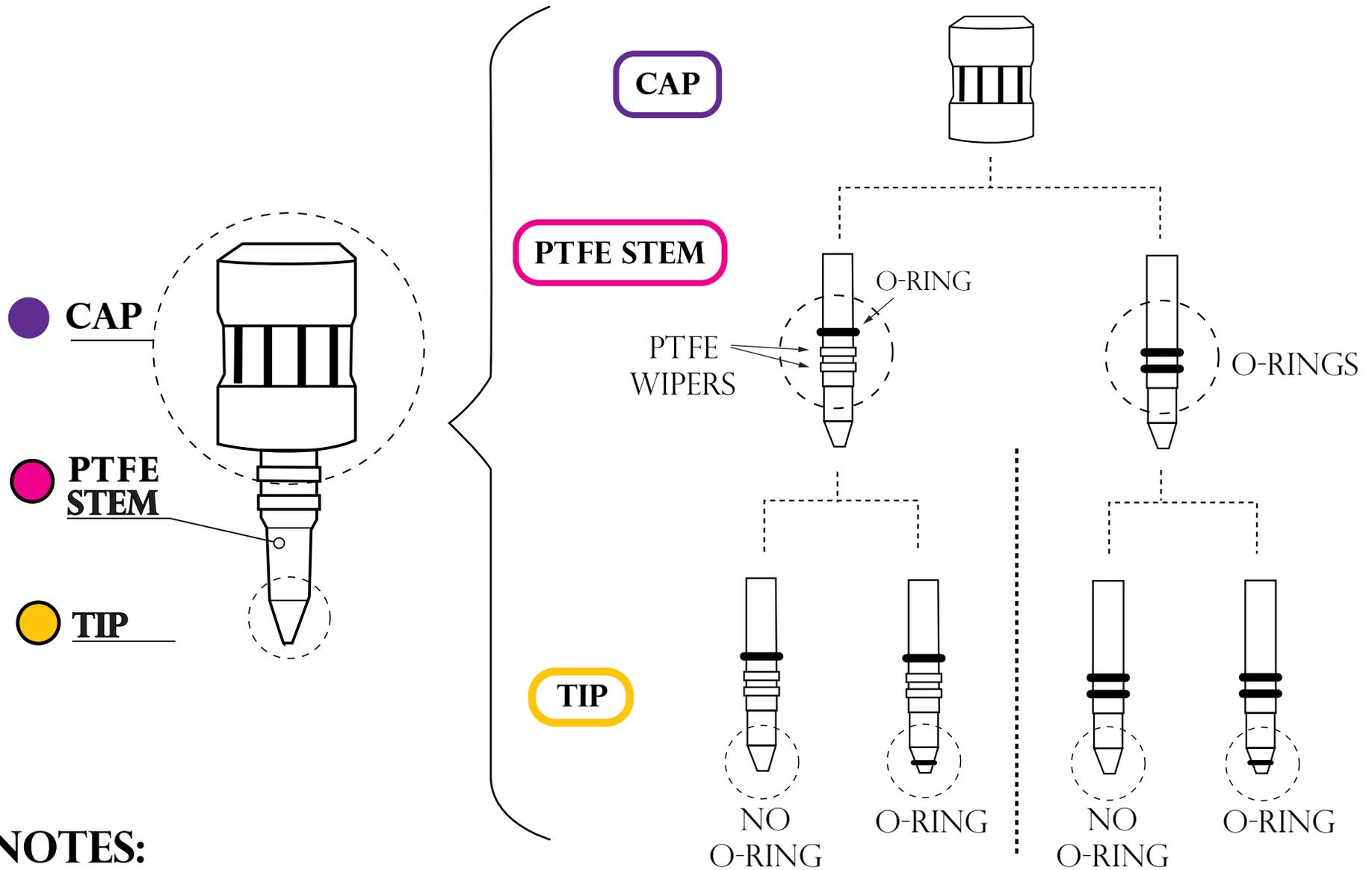


180°



LOW HOLD-UP

PLUG OPTIONS

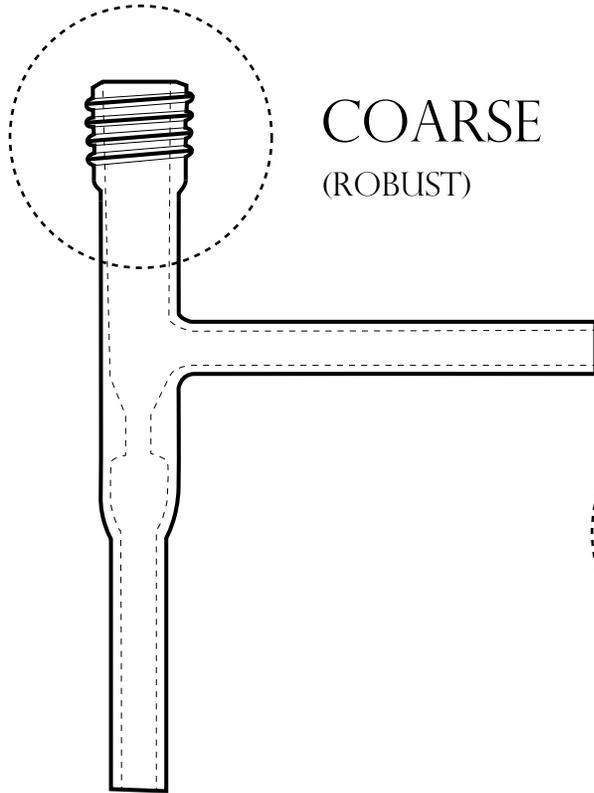


NOTES:

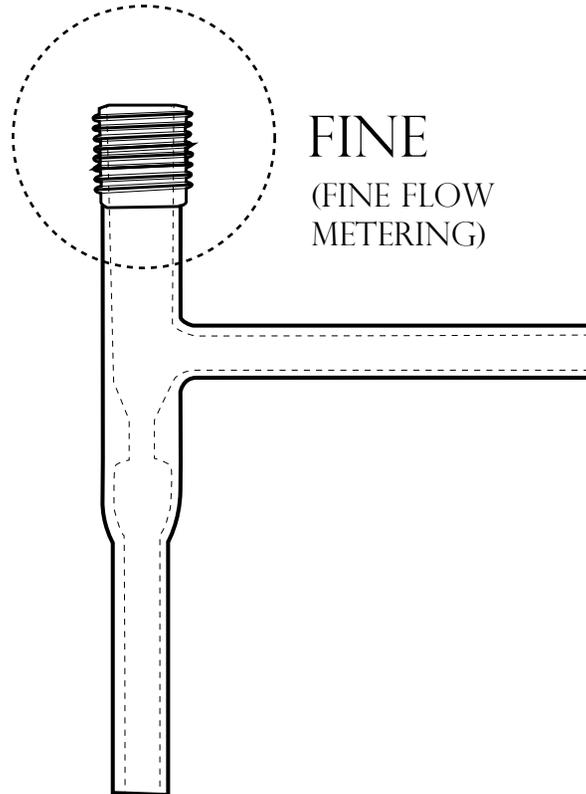
O-RINGS NEED TO BE REPLACED.

O-RINGS ON THE TIP ARE RECOMMENDED FOR CRYOGENIC APPLICATIONS WHERE THE O-RING IS BETTER ABLE TO ABSORB PTFE SHRINKAGE IN THE PLUG STEM, AND STILL MAINTAIN A GOOD SEAL.

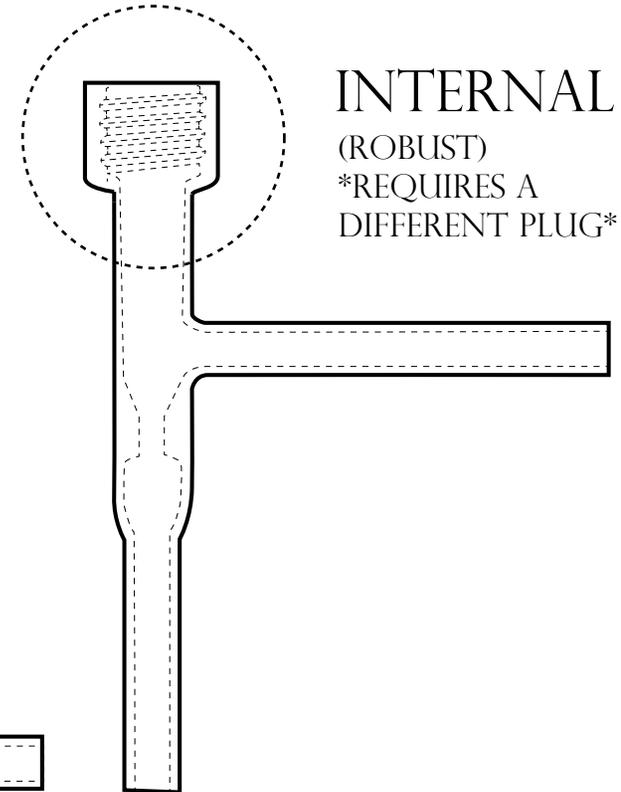
BARREL THREAD TYPES



COARSE
(ROBUST)

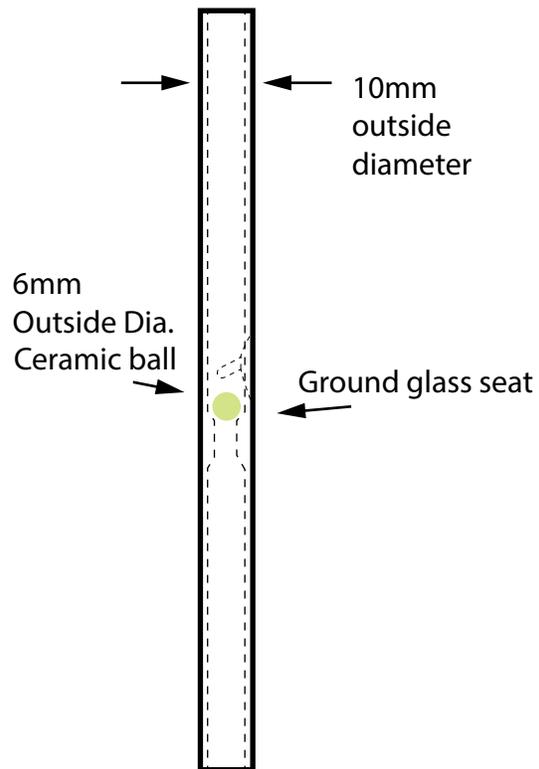


FINE
(FINE FLOW
METERING)



INTERNAL
(ROBUST)
*REQUIRES A
DIFFERENT PLUG*

GROUND GLASS CHECK VALVE



Check valves can be added to prevent the back-flow of a liquid.