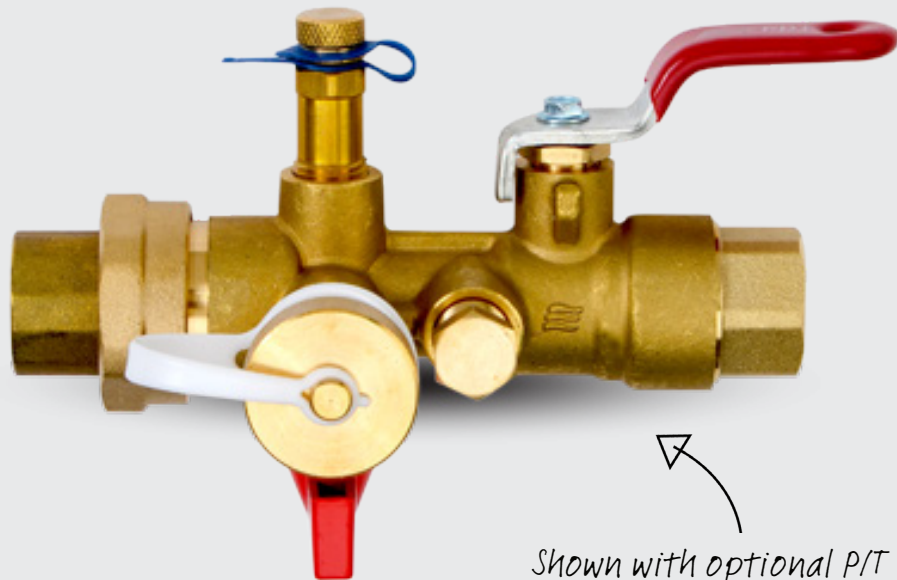


UB



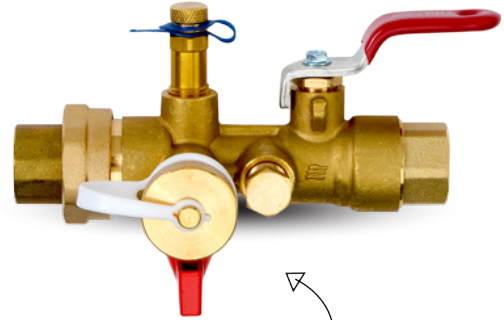
*Shown with optional P/T Port
and hose end drain*

Hook-Up Components
Shut-off valve with union

*Engineering
GREAT Solutions*

UB

Model UB is a shut-off valve with large diameter plated ball and PTFE seats. Stem is blowout proof with EPDM O-ring and PTFE packing with packing nut. Micro handle customary on the A body, and standard handle customary on the B and C bodies; all available with optional adjustable memory stop for shut-off and resetting and vinyl coated grip. Available with union connection or fixed threaded or sweat connections each with a metal-to-metal and EPDM O-ring seal.



Key features

> **Multiple Accessory Ports**
P/T port, air vent and drains

> **Selectable Ends**
Avoid adapters

Technical description

Application:
Hydronic Balancing

Dimensions:
1/2" - 2"

Material:
Body: DZR Brass
Union (Optional): Brass with EPDM O-ring
Fixed Connection: DZR Brass

Functions:
Shut-off

Rating:
600 psig at 250° F (40 Bar at 120° C)

Configuration Information

| Body | Cv (Kv) | Fixed Connections | | | Union Connections | | |
|----------|------------|-------------------|---------|------------|-------------------|---|--|
| | | in. (mm) | | | in. (mm) | | |
| A | 6 (6.94) | 1/2 (15) | S, F, M | - | - | - | |
| | | 3/4 (20) | S, F, M | 1/2 (15) | S, F, M | | |
| | | 1 (25) | S, F, M | 3/4 (20) | S, M | | |
| B | 19 (21.97) | 1/2 (15) | S, F, M | 1/2 (15) | S, F, M | | |
| | | 3/4 (20) | S, F, M | 3/4 (20) | S, M | | |
| | | 1 (25) | S, F, M | 1 (25) | S, F, M | | |
| | | 1 1/4 (32) | S, F, M | 1 1/4 (32) | S, F, M | | |
| C | 66 (76.36) | 1 1/4 (32) | S, F, M | 1 1/4 (32) | S, F, M | | |
| | | 1 1/2 (40) | S, F, M | 1 1/2 (40) | S, F, M | | |
| | | 2 (50) | S, F, M | 2 (50) | S, F, M | | |

Connection Weights

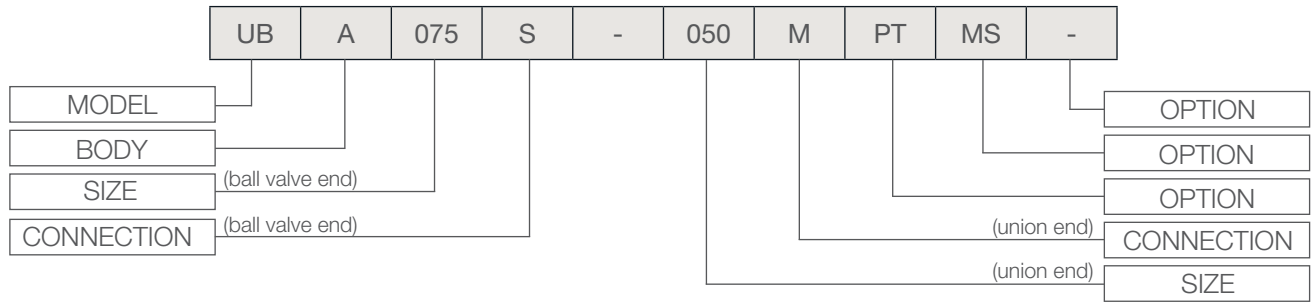
| Body | Connection Type | Weight (lbs./kg) | | | |
|----------|-----------------|---------------------|---------------------|-----------------|---------------------|
| | | 1/2 (15mm) | 3/4 (20mm) | 1 (25mm) | 1 1/4 (32mm) |
| A | S | - | 0.1 (.05) | 0.1 (.05) | 0.2 (.08) |
| | F | - | 0.1 (.06) | 0.2 (.08) | 0.4 (.16) |
| | Union S | - | 0.4 (.20) | 0.4 (.20) | - |
| | Union F | - | - | 0.5 (.21) | - |
| | Union M | - | 0.5 (.24) | 0.5 (.20) | - |
| B | | 1/2 (15mm) | 3/4 (20mm) | 1 (25mm) | 1 1/4 (32mm) |
| | S | 0.2 (.07) | 0.2 (.08) | 0.1 (.05) | 0.3 (.20) |
| | F | 0.2 (.08) | 0.2 (.09) | 0.3 (.13) | 0.4 (.12) |
| | Union S | 0.4 (.20) | 0.5 (.20) | 2.7 (1.21) | 1.2 (.54) |
| | Union F | 0.5 (.22) | 0.5 (.22) | 2.8 (1.25) | 1.3 (.57) |
| | Union M | 0.6 (.26) | 0.6 (.28) | 3.0 (1.34) | 1.5 (.69) |
| C | | 1 1/4 (32mm) | 1 1/2 (40mm) | 2 (50mm) | - |
| | S | 0.7 (.31) | 0.6 (.28) | 0.7 (.29) | - |
| | F | 0.8 (.34) | 0.6 (.29) | 0.6 (.29) | - |
| | Union S | 2.4 (1.10) | 2.4 (1.10) | 2.8 (1.27) | - |
| | Union F | 2.7 (1.24) | 2.7 (1.24) | 3.1 (1.38) | - |
| | Union M | 2.8 (1.28) | 3.0 (1.37) | 2.8 (1.29) | - |

S = female sweat

F = female NPT

M = male NPT

Model UB Order Designation



S = female sweat **F** = female NPT **M** = male NPT

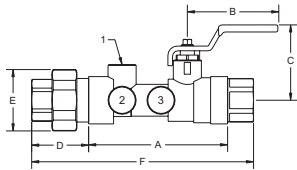
½" - 2" Ball Valves (Model UB)

| | | |
|---|----------------------|---|
| <p>Connections (Inlet)</p> <p style="text-align: center;">Union</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> U ¾" S U ½" S U ¾" S </div> <div style="text-align: center;"> U ½" F U ¾" F </div> <div style="text-align: center;"> U ½" M U ¾" M </div> </div> <p style="font-size: small;">1" inlet connection not available</p> | <p>Body A</p> | <p>Connections (Outlet)</p> <p style="text-align: center;">Fixed</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> ½" S ¾" S 1" S </div> <div style="text-align: center;"> ½" F ¾" F 1" F </div> </div> |
|---|----------------------|---|

| | | |
|--|----------------------|---|
| <p>Connections (Inlet)</p> <p style="text-align: center;">Union</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> U ½" S U ¾" S U 1" S U 1 ¼" S </div> <div style="text-align: center;"> U ½" F U ¾" F U 1" F U 1 ¼" F </div> <div style="text-align: center;"> U ½" M U ¾" M U 1" M U 1 ¼" M </div> </div> | <p>Body B</p> | <p>Connections (Outlet)</p> <p style="text-align: center;">Fixed</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> ½" S ¾" S 1" S 1 ¼" S </div> <div style="text-align: center;"> ½" F ¾" F 1" F 1 ¼" F </div> </div> |
|--|----------------------|---|

| | | |
|--|----------------------|---|
| <p>Connections (Inlet)</p> <p style="text-align: center;">Union</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> U 1 ¼" S U 1 ½" S U 2" S </div> <div style="text-align: center;"> U 1 ¼" F U 1 ½" F U 2" F </div> <div style="text-align: center;"> U 1 ¼" M U 1 ½" M U 2" M </div> </div> | <p>Body C</p> | <p>Connections (Outlet)</p> <p style="text-align: center;">Fixed</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> 1 ¼" S 1 ½" S 2" S </div> <div style="text-align: center;"> 1 ¼" F 1 ½" F 2" F </div> <div style="text-align: center;"> 2" F </div> </div> |
|--|----------------------|---|

Articles



Body Dimensions

| Body Size | A | | B | | C | | Weight | |
|-----------|-----|-------|-----|-------|-----|------|--------|-------|
| | in. | (mm) | in. | (mm) | in. | (mm) | lb. | (kg) |
| A | 3.5 | (90) | 2.3 | (58) | 2.1 | (53) | 0.8 | (0.4) |
| B | 3.8 | (97) | 2.3 | (58) | 2.2 | (56) | 1.2 | (0.5) |
| C | 5.4 | (137) | 5.5 | (140) | 3.5 | (89) | 3.6 | (1.6) |

Connection Dimensions

| Body Size | Connection Type | D | | | | E | | | |
|-----------|-----------------|----------|-------------------|-------------------|---------------|-------------------|-------------------|-------------------|---------------|
| | | in./(mm) | | | | in./(mm) | | | |
| | | — | 1/2 (15) | 3/4 (20) | 1 (25) | — | 1/2 (15) | 3/4 (20) | 1 (25) |
| | S | — | 0.5 (14) | 0.8 (20) | 1.2 (29) | — | 1.1 (28) | 1.2 (29) | 1.5 (29) |
| | F | — | 0.7 (17) | 0.8 (20) | 1.1 (29) | — | 1.1 (28) | 1.3 (33) | 1.6 (29) |
| A | Union S | — | 1.5 (37) | 1.6 (40) | — | — | 1.6 (39) | 1.6 (39) | — |
| | Union F | — | 1.5 (37) | — | — | — | 1.6 (39) | — | — |
| | Union M | — | 2.4 (61) | 2.2 (57) | — | — | 1.6 (39) | 1.6 (39) | — |
| | | | 1/2 (15) | 3/4 (20) | 1 (25) | 1 1/4 (32) | 1/2 (15) | 3/4 (20) | 1 (25) |
| | S | 0.5 (14) | 0.8 (19) | 1.0 (25) | 1.2 (28) | 1.3 (34) | 1.3 (34) | 1.5 (37) | 1.8 (51) |
| | F | 0.7 (18) | 0.7 (19) | 0.9 (24) | 1.1 (32) | 1.3 (34) | 1.3 (34) | 1.6 (41) | 2.0 (45) |
| B | Union S | 1.5 (37) | 1.7 (43) | 1.7 (42) | 1.8 (45) | 2.1 (53) | 2.1 (53) | 2.4 (60) | 2.8 (72) |
| | Union F | 1.5 (39) | 1.6 (40) | 1.7 (43) | 1.7 (43) | 2.1 (53) | 2.1 (53) | 2.4 (60) | 2.8 (72) |
| | Union M | 2.4 (60) | 2.2 (56) | 2.5 (63) | 2.5 (64) | 2.1 (53) | 2.1 (53) | 2.4 (60) | 2.8 (72) |
| | | | 1 1/4 (32) | 1 1/2 (40) | 2 (50) | | 1 1/4 (32) | 1 1/2 (40) | 2 (50) |
| | S | | 1.2 (29) | 1.2 (31) | 1.7 (42) | | 2.4 (62) | 2.4 (62) | 2.7 (69) |
| | F | | 0.9 (23) | 0.9 (23) | 1.2 (29) | | 2.4 (62) | 2.4 (62) | 2.9 (72) |
| C | Union S | | 2.0 (51) | 2.1 (54) | 2.4 (61) | | 3.5 (88) | 3.5 (88) | 3.8 (97) |
| | Union F | | 1.9 (49) | 1.9 (49) | 2.0 (50) | | 3.5 (88) | 3.5 (88) | 3.8 (97) |
| | Union M | | 3.0 (75) | 3.0 (76) | 2.8 (72) | | 3.5 (88) | 3.5 (88) | 3.8 (97) |

S = female sweat

F = female NPT

M = male NPT

Notes

All weights and dimensions are subject to minor changes.

*The F dimension may be calculated by using two D dimensions and adding them to the A dimension of the valve body.

Options Available

AA Automatic Air Vent

AV Manual Air Vent

DX Two Extended P/T Ports

EH Extended Handle

MH Micro Handle (optional on B Body)

MI Metal ID Tag

PI Plastic ID Tag

PL Plug

SE Stem Extender

