

BASIKS

True Union Universal Mount Ball Valve

Features

Universal Mounting Pad

Saf-Bloc Design

Socket, NPT, or flanges

Dual union ends simplify piping

Reversible PTFE seats provide smooth operation

All Plastic internal construction; no wetted metals

Full port design



Design & Materials

Valve body, stem, ball, seat carrier, union nuts & connections are choice of PVC, CPVC, polypro, or PVDF. Seats are PTFE; o-rings are choice of EPDM or FKM. Handle is molded of ABS. Mounting threads (non-wetted) are brass and 304 stainless steel. Maximum test pressure under laboratory conditions at 75° F is 148 PSI on 1/2" through 2" sizes; 100 PSI for 2 1/2" through 4" sizes. Polypro is rated at 70% of these values. Actual maximum pressure varies by application based on temperature, flow rate, and media. For assistance, please consult factory.



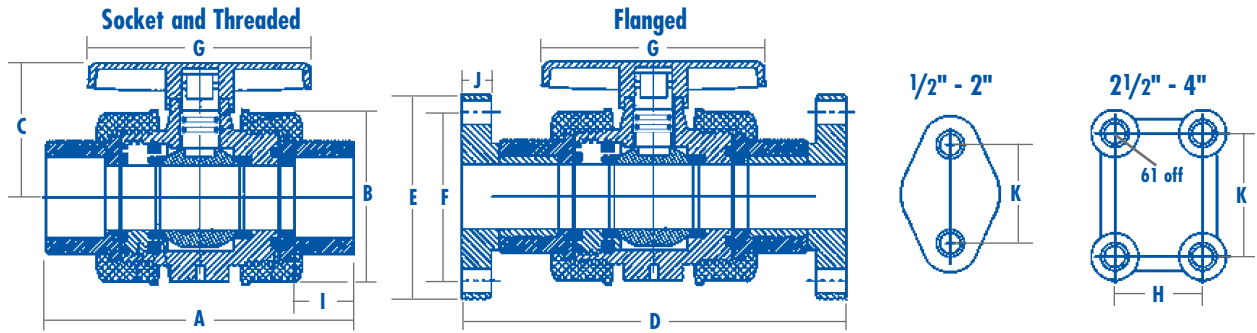
BASIKS

888-689-8258

www.basiks.us

info@basiks.us

Dimensions



Series BT646

| Pipe Size | Part Number | A | | B | | C | | D | | E | F | G | | H | | I | | J | | K | |
|-----------|-----------------|-------|-----|-------|-----|------|-----|-------|-----|-------|-------|-------|-----|------|----|------|----|------|----|------|-----|
| | | In. | MM | In. | MM | In. | MM | In. | MM | In. | In. | In. | MM | In. | MM | In. | MM | In. | MM | In. | MM |
| 1/2" | BT646-050EPS-PV | 4.57 | 116 | 2.10 | 53 | 2.10 | 53 | 5.98 | 152 | 3.500 | 2.375 | 3.25 | 83 | | | 0.98 | 25 | 0.58 | 15 | 1.22 | 31 |
| 3/4" | BT646-075EPS-PV | 5.04 | 128 | 2.48 | 63 | 2.48 | 63 | 6.42 | 163 | 3.875 | 2.750 | 3.98 | 101 | | | 1.00 | 25 | 0.58 | 15 | 1.45 | 37 |
| 1" | BT646-100EPS-PV | 5.69 | 145 | 2.64 | 67 | 2.63 | 67 | 7.36 | 187 | 4.250 | 3.125 | 4.4 | 112 | | | 1.13 | 29 | 0.66 | 17 | 1.57 | 40 |
| 1 1/4" | BT646-125EPS-PV | 7.20 | 183 | 3.82 | 97 | 3.38 | 86 | 8.86 | 225 | 4.625 | 3.500 | 4.78 | 121 | | | 1.13 | 29 | 0.66 | 17 | 2.16 | 55 |
| 1 1/2" | BT646-150EPS-PV | 7.20 | 183 | 3.82 | 97 | 3.38 | 86 | 9.13 | 232 | 5.000 | 3.875 | 4.78 | 121 | | | 1.38 | 35 | 0.75 | 19 | 2.16 | 55 |
| 2" | BT646-200EPS-PV | 7.95 | 202 | 4.68 | 119 | 3.93 | 100 | 9.98 | 253 | 6.000 | 4.750 | 5.68 | 144 | | | 1.50 | 38 | 0.83 | 21 | 2.67 | 68 |
| 2 1/2" | BT646-250EPS-PV | 8.98 | 228 | 5.90 | 150 | 5.51 | 140 | 11.10 | 282 | 7.000 | 5.500 | 7.48 | 190 | 1.61 | 41 | 1.75 | 44 | 0.83 | 21 | 3.15 | 80 |
| 3" | BT646-300EPS-PV | 10.63 | 270 | 7.24 | 184 | 6.50 | 165 | 13.00 | 330 | 7.500 | 6.000 | 9.06 | 230 | 1.61 | 41 | 1.88 | 48 | 0.87 | 22 | 3.15 | 80 |
| 4" | BT645-400EPS-PV | 12.76 | 324 | 10.37 | 263 | 6.77 | 172 | 15.15 | 385 | 9.000 | 7.500 | 10.87 | 276 | 1.97 | 50 | 2.25 | 57 | 0.87 | 22 | 4.76 | 121 |

Cross Reference

BASIKS BT646 meets or exceeds the specifications of the following competitive ball valves:

TBB Series

True Union 2000

050N

051N

VKE/PMKD

Cross referenced valves may differ dimensionally. For upgrade, refer to True Blue MBV.

Ordering Information

| Pipe Size | Mounting Pad and Flange Hole Specifications | | | # of Holes |
|-----------|---|---------------------|------------------|------------|
| | Part Number | Mounting Pad Thread | Flange Hole Size | |
| 1/2" | BT646-050EPS-PV | 3/16" - 24G | 0.625 | 4 |
| 3/4" | BT646-075EPS-PV | 1/4" - 20G | 0.625 | 4 |
| 1" | BT646-100EPS-PV | 1/4" - 20G | 0.625 | 4 |
| 1 1/4" | BT646-125EPS-PV | 5/16" - 18G | 0.625 | 4 |
| 1 1/2" | BT646-150EPS-PV | 5/16" - 18G | 0.625 | 4 |
| 2" | BT646-200EPS-PV | 5/16" - 18G | 0.75 | 4 |
| 2 1/2" | BT646-250EPS-PV | 5/16" - 18G | 0.75 | 4 |
| 3" | BT646-300EPS-PV | 5/16" - 18G | 0.75 | 4 |
| 4" | BT646-400EPS-PV | 5/16" - 18G | 0.75 | 8 |

Part numbers shown have socket connections.

For threaded connections on EPDM models, change EPS to EPT. Example: BT646-050EPT-PV.

For threaded connections on FKM models, change VS to VT. Example: BT646-050VT-PV.

For Flanges, use the letter F in place of S. Example: BT646-050EPF-PV.

For other materials and elastomers, consult factory.



BASIKS

888-689-8258

www.basiks.us info@basiks.us

A Value Line by Plast-O-Matic Valves, Inc. • 1384 Pompton Ave., Cedar Grove, NJ 07009 USA