How to Order - TB Series Valves

Ordering Instructions

Ordering TB Series valves requires the following steps:

1. In the Basic Part Number and Dimensions tables, select the Basic Part Number for the required valve series, flow pattern and end connections. Examples: 83KD4 or H83P4PF

   Note: For tube fitting end connections the Basic Part Number designates the Duolok two-ferrule design. To specify other tube fitting designs. Mixed end connection types and sizes are available.

2. To specify low-temperature valves add “L” in front of the basic part number. Examples: L83KD4 or LH83P4PF

3. PCTFE seats are standard for TB and LTB series ball valves. To specify PEEK seats replace the “K” in the basic part number with “P”. Example: 83XP4D Note: HTB and LHTB series valves are only available with PEEK seats.

4. Add the Body Material Designator to the part number. Use -316 for 316 Stainless Steel or -M for Alloy 400. Example: 83KD4-316

   Note: HTB and LHTB series valves are only available in 316 SS.

5. FKM O-rings are standard on TB and HTB series valves. To select other materials, please select the designator from the O-ring Material table, then add it after the body material indicator. Example: 83KD4-FFKM

   Note: LTB and LHTB series valves are only offered with low-temperature Nitrile O-rings.

6. Add designators for other options in alphabetical order. Example: 83KD4-FFKM-LD-RD

A B C D E F G

H83 X P D6 6PF -316 -GR -NBR -XP97

A VALVE DESIGN
B BODY TYPE
C SEAT MATERIAL
D INLET TYPE
E OUTLET TYPE
F BODY MATERIAL
G OPTIONS

O-RINGS

H83 Standard
H83 High-Pressure
LH3 Low-Temperature
LH83 Low-Temperature, High-Pressure

(Blank) 2-Way
X 3-Way
P PEEK
K PCTFE

(Blank) Black
-GR Green
-RD Red
-BL Blue
-YW Yellow
-OG Orange
-NH No Handle

-XP98 Oxygen compatible lubricant, per ASTM G93, Level C and CGA G-4.1

FKM -NBR Nitrile
-FFKM1 Chemraz
-FFKM2 Kalrez

-LD Locking Hardware
-6FP #6 SAE Female Bottom Port

D Duolok® Tube Fitting
U Unilok® Tube Fitting
G Griplok® Tube Fitting
PF Female NPT
PM Male NPT
MRT Male ISO Tapered
FRT Female ISO Tapered
MST Male SAE Straight
FST Female SAE Straight
S Male O-ring Face Seal (SAE J1453)
SS Female O-ring Face Seal (SAE J1453)

Fractional Sizes: Metric Sizes:
1 1/16 in. M6 6 mm
2 1/8 in. M8 8 mm
4 1/4 in. M10 10 mm
6 3/8 in. M12 12 mm
8 1/2 in.
12 3/4 in.

316 Stainless Steel
Alloy 400