

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: 83XKD4 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: 83XPD4* *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: 83XKD4-316*
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: 83XKD4-316-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: 83XKD4-316-FFKM-LD-RD*

A B C D E F G

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



A VALVE DESIGN

83 Standard
H83 High-Pressure
L83 Low-Temperature
LH83 Low-Temperature,
High-Pressure

B BODY TYPE

(Blank) 2-Way
X 3-Way

C SEAT MATERIAL⁴

P PEEK
K PCTFE

G OPTIONS¹

HANDLES

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

SPECIAL CLEANING

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

O-RINGS³

(Blank) FKM
-NBR Nitrile
-FFKM1 Chemraz
-FFKM2 Kalrez

OTHER OPTIONS

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

D + E INLET TYPE² + OUTLET TYPE²

		Fractional Sizes:	Metric Sizes:
D	Duolok® Tube Fitting	1	1/16 in. M6 6 mm
U	Unilok® Tube Fitting	2	1/8 in. M8 8 mm
G	Griplok® Tube Fitting	4	1/4 in. M10 10 mm
PF	Female NPT	6	3/8 in. M12 12 mm
PM	Male NPT	8	1/2 in.
MRT	Male ISO Tapered	12	3/4 in.
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)		

F BODY MATERIAL

-316 316 Stainless Steel
-M Alloy 400