



GLASS EXPANSION
Quality By Design

High Performance Glass Valves Catalogue

Issue 3



High Performance Glass Valves

Glass Expansion has been manufacturing glass valves since the early 1980's. Our valves are renowned for their high precision and quality, and are used by leading atmospheric research organisations worldwide.

Ultra High Vacuum Valves

Valves suitable for high vacuum work incorporate glass pistons with either PTFE or Viton O'rings. These valves have been tested to 10^{-8} Torr and can be used at temperatures below -50°C . All Glass valves are made from borosilicate glass sub type is "Boro 3.3 (Duran)". A light application fo silicon vacuum grease must be used for Viton O-Rings. Vacuum grease is necessary as Viton tends to stick or bond to the glass. For vacuum grease free valves, the "K2" Teflon O'ring valves are recommended.

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Right Angle Valve with Standard Cap

Bore Size	Part Number (With PTFE O'Rings)	Part Number (With Viton O'Rings)	Part Number (With Viton O'Ring back & PTFE O'Ring front)
8mm	K2B1-08	K3B1-08	K3F2B1-08
5mm	K2B1-05	K3B1-05	K3F2B1-05



Replacement Body

Bore Size	Part Number
8mm	B1-08
5mm	B1-05



Straight Line Valve with Standard Cap

Bore Size	Part Number (With PTFE O'Rings)	Part Number (With Viton O'Rings)	Part Number (With Viton O'Ring back & PTFE O'Ring front)
8mm	K2B3-08	K3B3-08	K3F2 B3-08
5mm	K2B3-05	K3B3-05	K3F2 B3-05



Replacement Body

Bore Size	Part Number
8mm	B3-08
5mm	B3-05



Caps

Standard Cap with PTFE O'Rings & PFA Front Seal

KP2



Standard Cap with all PTFE O'Rings

K2



Standard Cap with all Viton O'Rings

K3



Pneumatic Valve Key

Right Angle Assembly

PNK3B1-08



Straight Line Assembly

PNK3B3-08



Pneumatic Valve Key (key only, no valve)

PNK3



O'Rings

Viton O'Rings (PKT 10)

V-007



PFA O'Rings (PKT 10) (used on front seal only)

P-007F



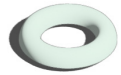
PCTFE O-rings

CTF-007



PTFE O'Rings (PKT 10)

T-007



PTFE O'Rings (PKT 10) (used on front seal only)

T-007F



O-ring Replacement Tool

604-0065







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Feb 2024