

Varnasan

CONTROL VALVE TECHNOLOGIES

PNEUMATIC PISTON CONTROLLED KNIFE VALVE

General Features

Model	: Varnasan BV
Working Pressure	: DN100: 16 bar, DN125-DN200: 10 bar, DN250-DN300: 7 bar
Operating Temperature	: -20°C / +130°C
Type	: Wafer, Lug, Flange
Design Standard	: MSS SP-81
Flange Standard	: DIN3202 PN10/PN16
Face to Face	: MSS SP-81
Test Standard	: API-598
Main Material	: GGG40
Knife Material	: SS304
Sealing Material	: NR,PU

Application

For pulp, cement slurry, gold ore powder, coal slurry, pulp, chemical treatment of sewage, sedimentation tanks, asphalt, acid and other liquids and other media.



Product Description

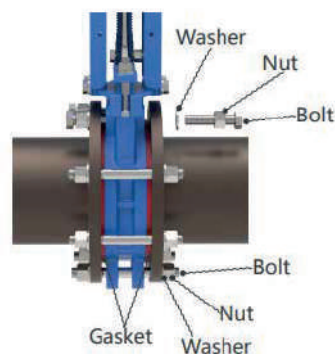
BV Series Knife gate valve is with replaceable rubber seal knife gate structure, its sealing principle is mainly by closely connection between gate and rubber seals. Its main characters is that the rubber sealing ring is set in seat groove and is locked by metal seat, which will prevent rubber seal off when opening and closing the valve. If the seal is broken, you can remove the metal seat and replace the rubber seal, which will greatly improve valve working efficiency. This valve is a cost-effective, high-performance products. The series of knife gate valve can be equipped with pneumatic actuators, in order to meet the requirements of different industrial and mining use.

Pneumatic Actuator

Pneumatic actuator is a double acting actuator. There are two different options as magnetic & padded and non-magnetic & non-cushioned according to customer demand. Before using the valve, the actuator must be turned on and off at least 2 times. The air used must be clean and dry.

Flange Mounting

As recommended in the picture below, the valve flange should be connected to the line and washers, bolts and nuts should be used in the connection.





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Flange connection torque table

	DN100	DN125	DN150	DN200	DN250	DN300
Torque (Nm)	12	16	16	18	41	43

VALVE FEATURES		
NO.	Piston Valve No	Piston Valve Description
1	V-MPK-P1-0104W100B-E2	Magnetic Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flanged DN100 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
2	V-MPK-P1-0104W125B-E2	Magnetic Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flanged DN125 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
3	V-MPK-P1-0104W150B-E2	Magnetic Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flanged DN150 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
4	V-MPK-P1-0104W200B-E2	Magnetic Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flanged DN200 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
5	V-MPK-P1-0104W250B-E2	Magnetic Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flanged DN250 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
6	V-MPK-P1-0104W300B-E2	Magnetic Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flanged DN300 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
7	V-MPK-P2-0104W100B-E2	Non-Magnetic & Non Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flange DN100 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
8	V-MPK-P2-0104W125B-E2	Non-Magnetic & Non Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flange DN125 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
9	V-MPK-P2-0104W150B-E2	Non-Magnetic & Non Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flange DN150 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
10	V-MPK-P2-0104W200B-E2	Non-Magnetic & Non Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flange DN200 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
11	V-MPK-P2-0104W250B-E2	Non-Magnetic & Non Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flange DN250 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue
12	V-MPK-P2-0104W300B-E2	Non-Magnetic & Non Cushioned Pneumatic Cylinder Knife Gate Valve GGG40 Ductile Iron PN16 Wafer Flange DN300 Gate 304SS EPDM Sealed Double Sided Sealed RAL5002 Blue