



For Valves, Fittings & PTFE (Teflon) Products

FLOWTECH VALVES AND FITTINGS CO

ASH DISCHARGE VALVE
(DOUBLE DISC VALVE, DUAL DISC VALVE,
SLIDING DISC DISCHARGE VALVE)

CATALOGUE

www.flowtech-valves.com

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(DOUBLE DISC VALVE, DUAL DISC VALVE,

SLIDING DISC DISCHARGE VALVE)

**SLIDING – ROTATING – SELF LAPPING – KNIFE EDGED – FLAT DISC –
BULK MATERIAL HANDLING VALVE**

INDIGENOUS SOLUTION FOR BULK MATERIAL HANDLING

The valve is designed to work and withstand extreme abrasive and corrosive bulk material handling applications, conveying dry (powder) material in dense phase.

APPLICATIONS

- Ash handling systems
- Cement plants
- Other solid particle handling
- Wet handling applications: Pulp, Slurry etc.
- Hot bed ash material
- Conveying dry (powder) material in dense phase:
 - Fly ash
 - Coke
 - Coal
 - Coking hydrocarbon
 - Limestone
 - Aluminium
 - Alumina
 - Titanium ore
 - Titanium dioxide
 - Mine tailings
 - Silicon
 - Silica
 - Sand
 - Sulphur
 - Magnesium Sulphate
 - Cement
 - Catalyst
 - Other abrasives or corrosives material in dry powder

FEATURES

- Suitable for abrasive materials
- Double disc sliding actuation
- Knife edge self-cleaning action
- Automatic self-lapping operation
- Matching disc & disc seat
- Zero leakage bi-directional shutoff
- Simple pneumatic actuation
- Optional position feedback

ADVANTAGES

- Economic alternative to import
- Minimum maintenance
- Readily available spares
- Versatile in application
- Twelve months' warranty

TECHNICAL SPECIFICATION

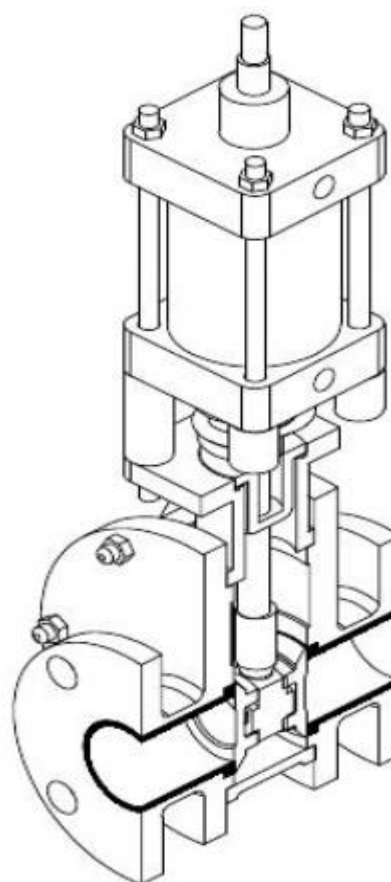
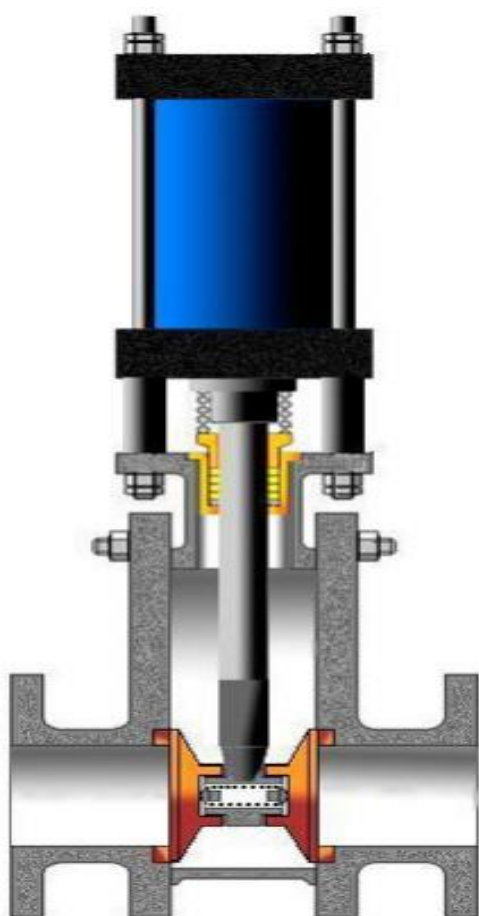
- Flange connection: As per ANSI B 16.1 Class 125 or suit customer requirement
- Actuation: Through Pneumatic Air Cylinder Double Acting
- Cylinder working pressure: 3-6 bar
- Valve working pressure: 7 bar (Max)
- Material/Operating Temperature: For Cast Iron Body: 232°C, For SGCI Body: 288°C, For CS/Alloy Body: 435°C/ For DI Body: 250°C, For Cast Steel
- Sizes: 3"(80mm) to 12"(300mm)
- Service: Bidirectional and Unidirectional
- Seat – Metal to Metal
- Rating – 2.8 kg/cm² Shell – 6 kg/cm²

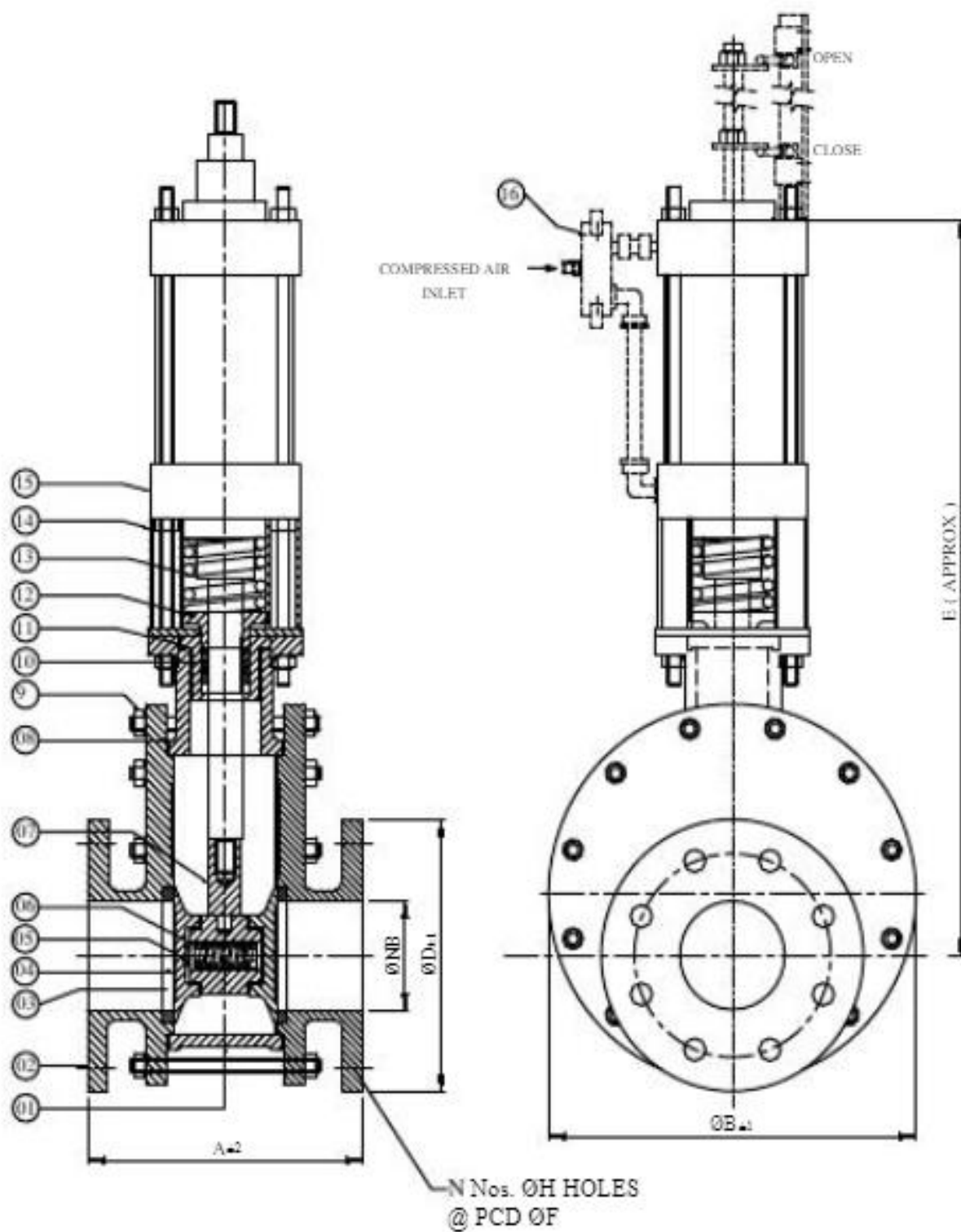
TEST SPECIFICATION

- Leakage Test done in assembled condition at 6 kg/cm² pneumatic pressure, duration – 10 mins, testing by powder
- Instrument air pressure should be 2-5 kg/cm²
- Operational Test done for 500 cycles

ACCESSORIES

- Pneumatic Cylinder
- Solenoid Valve (5/2) – Supply Voltage – 230 V AC, AL Body Single Coil (Class – “F” insulation) weatherproof IP65, Port Size – ¼” NPT
- Limit Switch (1NO + 1NC)
- Air filter regulator





MATERIAL OF CONSTRUCTION

PART NO	DESCRIPTION	QTY	MATERIAL
1	MIDDLE RING (BODY)	01	ABRASION / CORROSION RESISTANT DUCTILE IRON UTS – 400N/mm ² , HARDNESS – 220 BHN(MIN) / ALLOY CAST IRON - 250 BHN(MIN) / QT450 / WCB / CF8M / CI FG260
2	END COVER (BODY)	02	ABRASION / CORROSION RESISTANT DUCTILE IRON UTS – 400N/mm ² , HARDNESS – 220 BHN(MIN) / ALLOY CAST IRON - 250 BHN(MIN) / QT450 / CI FG260
3	SEAT RING (BODY)	02	WEAR RESISTANT SPECIAL ALLOY STEEL – 600 BHN(MIN) / SOLID TUNGSTEN CARBIDE / SS410 – NITRADED UPTO 600-700 BHN / SS440C FOR CI/DI/WCB BODY ONLY / CI, ASTM A532, 500 BHN(MIN)
4	DISC (INLET / OUTLET) (GATE)	02	WEAR RESISTANT SPECIAL ALLOY STEEL – 550-600 BHN(MIN) / Q235 + SOLID TUNGSTEN CARBIDE / SS410 – NITRADED UPTO 600-700 BHN / SS440 / CI, ASTM A532, 500 BHN(MIN)
5	DISC PIN	02	STAINLESS STEEL (AISI-420)
6	DISC SPRING	02	SPRING STEEL / STAINLESS STEEL (AISI-304) / 62SiMnA
7	DISC DRIVE	01	CARBON STEEL, EN 8
8	END COVER GASKET	02	CAF / PTFE
9	STUD / BOLT & NUT	SET	CARBON STEEL, (HT), ASTM 1 193 B7
10	GLAND PACKING	1 SET	KEVLAR PACKING / PTFE / PTFE IMPREGNATED
11	STUFFING BOX	01	LEADED TIN BRONZE IS: 318 GRADE-2
12	GLAND	01	LEADED TIN BRONZE IS: 318 GRADE-2 (ASTM B-62) / CAST STEEL (ASTM A-216 WCB)
13	GLAND SPRING	01	SPRING STEEL, IS 4454
14	SPACER	04	STEEL TUBE / MS, IS-2062
15	PNEUMATIC ACTUATOR	01	DOUBLE ACTING / DOUBLE ENDED HIGH SPEED
16	LIMIT SWITCH	01	FABRICATED, MS, IS 1079, GTRADE-0

DIMENSIONS (MM)

Dimension	NB 50	NB 65	NB 80	NB 100	NB 125	NB 150	NB 200	NB 250	NB 300	NB 350
A	179	210	210	248	267	267	343	380	380	445
ØB	200	248	280	330	385	445	550	668	816	957
D	400	510	542	610	701	736	880	1050	1160	1480
ØE	165	185	200	229	254	285	345	406	483	534
ØF	19	19	19	19	22	22	22	25	25	28
ØH	120	140	152	190	216	241	298	362	431	476
No. Of Holes	4	4	4	4	8	8	8	12	12	12
Port A & B	3/8" BSP	3/8" BSP	3/8" BSP	3/8" BSP	3/8" BSP	3/8" BSP	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP





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GSTIN: 19AMBPS8158C1ZT