TECHNO G

The Original BALL SEGMENT VALVE

TECHNO-G Ball Segment Valve (BSV)

The TECHNO-G Ball Segment Valve has been developed to meet the unique process requirements of vacuum drying and pressurized process reactors. From experience gained in the field, itis now being supplied as a stand-alone component for a far broader range of applications.

The valve seats are machined to very fine tolerances and this, combined with special bearings provides an excellent vacuum and pressure tight seal. The standard inflatable seal design will meet the demand of individual processes and product requirements.

Characteristics of the TECHNO-G BSV:

- Excellent reliability and long operating life
- Excellent vacuum and pressure tight properties
- No dead areas, sanitary design
- GMP-conformity and CIP-able
- Full bore design, unobstructed product discharge
- Modular system
- Different sealing materials available

Physical, process relevant bulk characteristics:

- Wide range of bulk densities
- Solvent-wet bulk materials or free flowing
- Crystalline and abrasive particles
- Hard and soft granulates
- Wide particle size spectrum
- Pasty, mushy or creamy products

Markets:

- Pharmaceuticals
- Chemicals
- Fine chemicals, API
- Food
- Cosmetics
- Minerals
- Metals
- Others

Process applications:

- Outlet and inlet valve for vacuum dryers
- Vacuum locks
- Outlet and Inlet valve for blender
- Discharge valve for centrifuges
- Outlet and inlet valve for reactors

Optionally available:

Special materials like Hastelloy, Alloy or other materials
PFE/PFA coatings as an alternative to Hastelloy or Alloy
Integrated injection flange for carrier gas or steam
Heated/cooled ball segment
Multi flange with blind cover for use for/as:
-> Maintenance aperture
-> Fitting of a CIP nozzle or a cleaning lance
-> Inspection window

Techno-G is a trademark from Jongia NV
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Standard specifications:

Valve size 100 to 500 mm (4" to 20")
Flanges According to DIN, ANSI and as tri-clamp execution
Material 1.4404 (316L), 1.4571(316Ti), 2.4602 (HC22)
Inflatable seal EPDM, Viton® (FKM), Perlast®(FFKM)
Operation temp. –10°C to 135°C (14°F to 275°F)
Operation pressure –1 to +6 bar (90 Psig)
Atex According to Atex 94 /9/ EG

The Range: *Details in the shown table can be subject to revisions or changes*

Type	1	2	3	4	5	6	7	8	9
Valve Size (DN)	100	150	200	250	300	350	400	450	500
Valve Size ANSI	4"	6"	8"	10"	12"	14"	16"	18"	20"
Top Flange	DN 100-200	DN 150-250	DN 200-300	DN 250-350	DN 300-400	DN 350-450	DN 400-500	DN 450-550	DN 500-600
Bottom Flange	DN 100-200	DN 150-250	DN 200-300	DN 250-350	DN 300-400	DN 350-450	DN 400-500	DN 450-550	DN 500-600
Flange Class	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10	PN10
Bearing type	slide	slide	slide	slide	slide	slide	slide	slide	slide
Inflat.seal.	EPDM-W	EPDM-W	EPDM-W	EPDM-W	EPDM-W	EPDM-W	EPDM-W	EPDM-W	EPDM-W
	EPDM-B	EPDM-B	EPDM-B	EPDM-B	EPDM-B	EPDM-B	EPDM-B	EPDM-B	EPDM-B
	FKM-W	FKM-W	FKM-W	FKM-W	FKM-W	FKM-W	FKM-W	FKM-W	FKM-W
	FKM-B	FKM-B	FKM-B	FKM-B	FKM-B	FKM-B	FKM-B	FKM-B	FKM-B
	FFKM	FFKM	FFKM	FFKM	FFKM	FFKM	FFKM	FFKM	FFKM
Gaskets	FEP/Sil	FEP/Sil	FEP/Sil	FEP/Sil	FEP/Sil	FEP/Sil	FEP/Sil	FEP/Sil	FEP/Sil
	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
	NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR
Design Pressure	-1/6 bar	-1/6 bar	-1/6 bar	-1/6 bar	-1/6 bar	-1/6 bar	-1/6 bar	-1/6 bar	-1/6 bar
Design Temperature	-10˚C /135˚C	-10˚C /135˚C	-10˚C /135˚C	-10˚C /135˚C	-10˚C /135˚C	-10˚C /135˚C	-10˚C /135˚C	-10˚C /135˚C	-10˚C /135˚C
Design Flanges	EN 1092-1	EN 1092-1	EN 1092-1	EN 1092-1	EN 1092-1	EN 1092-1	EN 1092-1	EN 1092-1	EN 1092-1
Design Housing	EN 13445	EN 13445	EN 13445	EN 13445	EN 13445	EN 13445	EN 13445	EN 13445	EN 13445
Threaded	TD	TD	TD	TD	TD	TD	TD	TD	TD
Drilled	DD	DD	DD	DD	DD	DD	DD	DD	DD
Surface Treatment Inside	0,8 Ra	0,8 Ra	0,8 Ra	0,8 Ra	0,8 Ra	0,8 Ra	0,8 Ra	0,8 Ra	0,8 Ra
Surface Treatment Outside	1,6 Ra	1,6 Ra	1,6 Ra	1,6 Ra	1,6 Ra	1,6 Ra	1,6 Ra	1,6 Ra	1,6 Ra
Atex Code Gas	2 IICT4	2 IICT4	2 IICT4	2 IICT4	2 IICT4	2 IICT4	2 IICT4	2 IICT4	2 IICT4
Atex Code Dust	2 IIICT135˚C	2 IIICT135˚C	2 IIICT135˚C	2 IIICT135˚C	2 IIICT135˚C	2 IIICT135˚C	2 IIICT135˚C	2 IIICT135˚C	2 IIICT135˚C

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