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**Weir-BDK Valve**

**WEIR**



Total Valve Systems  
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# Weir-BDK commitment

Weir-BDK's most important asset is its people: it is our excellence in skills and innovation that has driven our growth to date and ensures we are in the best position to capitalise on this for future growth.

Weir's global expertise combined with BDK's cost proficiency creates a highly complementary offering to satisfy our customers' demand for leading-edge products and a very competitive position in one of the world's most important emerging markets.

Weir and BDK have complementary product portfolios and highly experienced people, and our intention is to grow the business to be a leading valve manufacturer serving the requirements of Indian customers as well as supporting the global network.

Weir-BDK accomplishes this by constantly improving and striving to manufacture the most efficient products for chosen markets. We always pursue new technologies to stay at the forefront of the industry in the global arena. Weir-BDK is a company with a commitment to excel as we have the right mixture of infrastructure and capability to deliver the best to our clients.

## **Quality Statement**

Our objective is to design, manufacture and market quality products at competitive prices to the entire satisfaction of the customer and to attain market leadership through continual improvement.



## Diaphragm valves

Complies to BS EN 13397

**Sizes:** 15 mm (1/2") to 350 mm (14")

**Type:** Series S2K Weir type, Series G2K Straight-Through Type

**Materials:** CI, DI, WCB, CF8, CF8M etc

**Linings:** Natural and synthetic rubbers

**Diaphragms:** Natural and synthetic rubbers, even PTFE

**Ends:** Flanged, screwed, weld



## Diaphragm valves for hygiene

Complies to BDk's specifications

**Sizes:** 15 mm (1/2") to 100 mm (4")

**Type:** Pocketless body

**Materials:** CF8, CF8M, CF3, CF3M

**Diaphragm/Seal:** Food grade synthetic elastomers, even PTFE

**Ends:** IDF, SMS, BSM, tri clamp, butt weld

**Specials:** Both internal and external surfaces, satin or mirror finished to suit process needs

**Application:** Pharmaceutical & food industries



## Pneumatic actuators for diaphragm valves

Complies to BDk's specifications

**Valve Sizes:** 15 mm (1/2") to 250 mm (10")

**Type:** Direct, reverse, double acting

**Chambers material:** Steel ASTM A621

**Air diaphragms:** Nitrile, Neoprene

**Specials:** Limit switch, solenoid valve, air filter regulator, positioner etc.





### Ball valves – one piece

Complies to BS EN ISO 17292 (BS 5351), API 6D

**Sizes:** 6 mm (1/4") to 50 mm (2") (screwed),  
15 mm (1/2") to 250 mm (10") (flanged)

**Type:** Regular bore, full bore

**Rating:** Class 150, 300, 800

**Materials:** EN8, WCB, CF8, CF8M, CN7M etc

**Seats:** PTFE, reinforced PTFE

**Ends:** Flanged, screwed

**Specials:** Jacketed, Fire safe test requirements of API 607 & API 6FA



### Ball valves – two piece

Complies to BS EN ISO 17292 (BS 5351), API 6D

**Sizes:** 15 mm (1/2") to 300 mm (12")

**Type:** Regular bore, full bore, multi-port

**Rating:** Class 150 to 1500

**Materials:** WCB, LCB, CF8, CF8M, CF3, CF3M,  
CD4MCu, CN7M, H-B, H-C etc

**Seats:** PTFE, reinforced PTFE, even metallic

**Ends:** Flanged, weld

**Specials:** Fire safe test requirements of API 607 & API 6FA



### Ball valves – three piece

Complies to BS EN ISO 17292 (BS 5351), API 6D

**Sizes:** 6 mm (1/4") to 50 mm (2")

**Type:** Regular bore, full bore, multi-port

**Rating:** Class 600, 800, 1500

**Materials:** A105, F304, F316 WCB, CF8, CF8M,  
CN7M, etc

**Seats:** PTFE, reinforced PTFE, even metallic

**Ends:** Screwed, weld

**Specials:** Fire safe test requirements of API 607 & API 6FA

Ball valves – trunnion mounted

Complies to BS EN ISO 17292 (BS 5351), API 6D

**Sizes:** 50 mm (2") to 900 mm (36")

**Type:** Regular bore, full bore

**Rating:** Class 150 to 1500

**Materials:** WCB, LCB, CF8, CF8M, CF3, CF3M, CD4MCu, CN7M, H-B, H-C etc

**Seats:** PTFE, reinforced PTFE, nylon, even metallic

**Ends:** Flanged, weld

**Specials:** Fire safe test requirements of API 607 & API 6FA



Ball valves – trunnion mounted for buried application

Complies to BS EN ISO 17292 (BS 5351), API 6D

**Sizes:** 50 mm (2") to 900 mm (36")

**Type:** Regular bore, full bore

**Rating:** Class 150 to 1500

**Materials:** WCB, LCB, CF8, CF8M, CF3, CF3M, CD4MCu, CN7M, H-B, H-C etc

**Seats:** PTFE, reinforced PTFE, nylon, even metallic

**Ends:** Flanged, weld

**Specials:** Fire safe test requirements of API 607 & API 6FA



Ball valves – trunnion mounted, three piece forged

Complies to BS EN ISO 17292 (BS 5351), API 6D

**Sizes:** 50 mm (2") to 1200 mm (48")

**Type:** Regular bore, full bore

**Rating:** Class 600 to 1500

**Materials:** A105, LF2, F304, F316

**Seats:** PTFE, reinforced PTFE, nylon, even metallic

**Ends:** Flanged, weld

**Specials:** Fire safe test requirements of API 607 & API 6FA





Ball valves – cryogenic application

Complies to BS EN ISO 17292 (BS 5351), API 6D, BS 6364

**Sizes:** 15 mm (1/2") to 300 mm (12")

**Type:** Regular bore, full bore, multi-port

**Rating:** Class 150, 300

**Materials:** WCB, LCB, CF8, CF8M, CF3, CF3M, CD4MCu, CN7M, H-B, H-C etc

**Seats:** PTFE, reinforced PTFE, even metallic

**Ends:** Flanged, weld

**Specials:** Fire safe test requirements of API 607 & API 6FA



Butterfly valves

Complies to BS EN 593, API 609, AWWA C504

**Sizes:** 32 mm (1 1/4") to 2400 mm (96")

**Type:** Models 12, 12L, 44, 44L, 81 & 85F

**Body materials:** CI, DI, WCB, CF8, CF8M etc

**Discs:** CI, DI, WCB, CF8, CF8M, even rubber lined

**Seats:** Natural and synthetic rubbers

**Ends:** Wafer, lugged, double flanged



Butterfly valves – double eccentric, high performance

Complies to API 609

**Sizes:** 50 mm (2") to 600 mm (24")

**Type:** Models 91 & 91L

**Rating:** Class 150, 300

**Materials:** WCB, CF8, CF8M, CF3, CF3M, CD4MCu, CN7M etc

**Seats:** PTFE, reinforced PTFE, even metallic

**Ends:** Wafer and lugged

**Specials:** Fire safe test requirements of API 607

Butterfly valves – tricentric, high performance

Complies to API 609

**Sizes:** 80 mm (3") to 600 mm (24")

**Type:** Models 97 & 97L

**Rating:** Class 150, 300

**Materials:** WCB, CF8M, etc

**Seat:** S31803 + Grafoil

**Ends:** Wafer and lugged

**Specials:** Fire safe test requirements of API 607 & API 6FA



Butterfly valves – rubber lined bodies

Complies to BS EN 593, API 609

**Sizes:** 50 mm (2") to 1200 mm (48")

**Type:** Models 46, 46L, 48 & 48L

**Rating:** PN 6, PN 10, PN 16

**Body materials:** CI, DI, WCB etc

**Body lining:** Natural and synthetic rubbers

**Discs:** DI, CF8, CF8M, Al.Bronze. even rubber lined

**Stem:** 410, 17-4PH, Monel

**Ends:** Wafer, lugged



Forged steel valves

Complies to BS EN ISO 15761(BS 5352), API 602

**Sizes:** 8 mm (3/8") to 50 mm (2")

**Type:** Gate, globe, lift check

**Rating:** Class 800, 1500, 2500

**Materials:** A105, F5, F11, F22, LF2, F304, F316, F304L, F316L

**Trim:** 13% Cr. Steel, Stellite

**Ends:** Screwed, socket, butt weld

**Specials:** Stem extension, soft seating





### □ Cast steel valves

Complies to API 600, API 6D, BS 1873, BS 1868, ASME B16.34

**Sizes:** 15 mm (1/2") to 1200 mm (48")

**Type:** Gate, globe, swing check

**Rating:** Class 150 to 2500

**Materials:** WCB, LCB, WC1, WC6, WC9, CF8, CF8M, CF3, CF3M, CD4MCu, CN7M, H-B, H-C etc

**Trim:** 13% Cr. Steel, Stellite

**Ends:** Flanged, weld

**Specials:** Stem extension, soft seating, jacketed



### □ Cast & forged steel valves – cryogenic application

Complies to API 600, API 6D, API 602, BS 1873, BS EN ISO 15761 (BS 5352), BS 6364, ASME B16.34

**Sizes:** 15 mm (1/2") to 300 mm (12")

**Type:** Gate, globe

**Rating:** Class 150, 300, 600, 800

**Materials:** LCB, CF8, CF8M

**Trim:** Stellite

**Ends:** Flanged, weld

**Specials:** Extended bonnet, live loaded gland packing



### □ Plug valves – PTFE sleeved

Complies to API 599, BS 5353, API 6D

**Sizes:** 15 mm (1/2") to 400 mm (16")

**Type:** PTFE sleeved

**Rating:** Class 150, 300

**Materials:** DI, WCB, CF8, CF8M, CF3, CF3M, CD4MCu, CN7M, H-B, H-C etc

**Ends:** Flanged, screwed, weld

**Specials:** Multi-Port, jacketed, caged. Fire safe test requirements of API 607 & API 6FA



Plug valves – lubricated

Complies to BS 5158

**Sizes:** 15 mm (1/2") to 200 mm (8")

**Type:** Plug

**Rating:** Class 125

**Materials:** Cast iron

**Ends:** Flanged & screwed

**Specials:** Multi-Port



Globe valves – for chlorine service

Complies to BS EN ISO 15761 (BS 5352), BS 1873

**Sizes:** 15 mm (1/2") to 300 mm (12")

**Type:** Globe (Bellow optional)

**Rating:** Class 300

**Materials:** WCB, LCB

**Trim:** Monel, Hast-C

**Ends:** Flanged



Knife edge – gate valves

Complies to MSS SP-81

**Sizes:** 50 mm (2") to 750 mm (30")

**Type:** Knife edge gate

**Materials:** WCB, CF8, CF8M, CF3, CF3M, CN7M, CD4MCuN etc

**Ends:** Wafer and lugged

**Specials:** Pneumatic actuator, limit switch, solenoid valve, air filter regulator etc

**Application:** Pulp, fibrous, paper pulp, slurries & sludge





PFA lined valves

Complies to BS EN 13397, BS EN 593, BS 5353, API 599, BS 5158, BS EN ISO 17292 (BS 5351), BS 5159

**Sizes:** 15 mm (1/2") to 600 mm (24")

**Type:** Diaphragm, butterfly, plug, ball and ball check

**Rating:** PN 6, PN 10 & Class 150

**Materials:** DI or WCB with lining

**Linings:** PFA / FEP / ETFE / PVDF

**Ends:** Wafer & lugged for Butterfly Valves, others flanged



PTFE lined – pipe fittings

Complies to ASME B16.5

**Sizes:** 15 mm (1/2") to 300 mm (12")

**Type:** Equal tee, 45° elbow, concentric reducer, reducing flange etc

**Rating:** Class 150

**Materials:** DI or CS with lining

**Linings:** PFA / FEP / PTFE



Cast iron valves – gate, globe & sluice

Complies to BS 5150, BS 5163, BS 5152, IS 14846

**Sizes:** 25 mm (1") to 300 mm (12")

**Type:** Inside screw for sluice, outside screw for gate & globe

**Rating:** PN 10, PN 16

**Materials:** Cast iron

**Trim:** Bronze, CA15, CF8, CF8M, brass etc

**Ends:** Flanged

## Check valves

Complies to API 6D, API 594, BDK's specifications

**Sizes:** 15 mm (1/2") to 1600 mm (64")

**Type:** Non-slam, dual plate, wafer & rubber lined

**Rating:** PN 7, PN 10, Class 150 & 300

**Materials:** CI, DI, WCB, CF8, CF8M

**Linings:** Natural and synthetic rubbers

**Ends:** Wafer & flanged

**Specials:** Very low pressure drop



## Pneumatic actuators – quarter turn

**Output torque:** Quarter turn up to 12060Nm (8900 ft. lbs) for double acting & 2815Nm (2077 ft. lbs) for single acting spring return

**Type:** Rack & pinion

**Materials:** Aluminum alloy with hard anodized

**Mounting:** ISO 5211

**Specials:** End stroke adjustment, position indicator, NAMUR mounting features for solenoid valve & limit switch

**Optional:** Different colors end cap



## Gear operators

**Output torque:** Quarter turn up to 41000Nm (30258 lbs. ft.), Multi turn up to 9000Nm (6642 lbs. ft.)

**Type:** Quarter turn, multi turn & quarter turn manual override

**Materials:** CI housing, SGI gears, EN19 worm & shaft

**Mounting flange:** ISO 5211, ISO 5210

**Specials:** Worm & worm shaft as per AWWA C-504





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