



ICON VALVES & ENGINEERING PVT LTD

www.flushbottomvalves.net

www.ivevalves.com

E Mail.

fbv@ivevalves.com

valves@ivevalves.com

APPLICATION OF VALVES

In any Piping Systems, industrial valves play a very crucial role in handling fluids. Different types of Valves are used to meet various applications like on-off, throttling, quick open / close, flow diversions etc...these valves find their applications in industries like refineries, Petrochemicals, Fertilizers, Sugar, Cement, Power Plants, Chemical Process Industries Water Treatment, Effluent Treatment, Food & Beverages, Pulp & Paper Oil & Gas etc.

Selection of right type of valves for a particular application is vital for trouble free service

Details of various types of industrial valves for a particular standards & application areas are enclosed for your reference.

TYPE OF VALVE	PRESSURE CLASS	DESIGN STANDARD	AREA OF APPLICATION	USER INDUSTRIES
FLUSH BOTTOM "Y" TYPE VALVE	ASA 150# 300#	MFG RS STD	Isolation & Drain of chemicals, Resins Petrochemical products, paints & pharmaceutical services.	All major industries such as chemical, pharmaceutical, Hydrocarbon, paints etc.
FLUSH BOTTOM BALL VALVE	ASA 150#	BS 5351	Isolation & Drain of chemicals, Resins Petrochemical products, paints & pharmaceutical services.	All major industries such as chemical, pharmaceutical, Hydrocarbon, paints etc.
DIAPHRAGM VALVES	PN 6 to PN 16	BS 5156	Control & Isolation (on-off) of Air, Gas, Toxic Chemicals, Contaminated Fluids, Acids & Alkalies. Glandless Valve Hence Most Suitable for Vacuum Application	Mining & Beneficiation & Power Plants, Process Industries, Etp, Wtp, DM Plants, Chemical Industries, Fertilizers, Caustic Chlorine & Phosphoric Acid Plants.
BUTTERFLY VALVES	PN 2.5 To PN 16	BS5166 / AWWA –C504	Control & Isolation (on-off) of Air, Gas, Toxic Chemicals, Acid & Alkalies Etc.	Etp, Wtp & DM, Caustic, Chlorine & Phosphoric Acid, Steel, Ash Handling, Food & Beverage, Power, Sewage & Chemical Plants.
HYGIENIC DIAPHRAGM & BUTTERFLY VALVES	PN 6 & PN10	BS 5155 / BS5156	Control & Isolation of Zero "B" Application	Food & Beverage, Biotech & Pharmaceutical Industries.

TYPE OF VALVES	PRESSURE CLASS	DESIGN STANDARD	AREA OF APPLICATION	USER INDUSTRIES
HIGH PERFORMANCE BUTTERFLY VALVES	#150 & #300	API 60	Control & Isolation of High Temperature, High Pressure Fluids, Fire Safe Feature for Hydrocarbon Application	Power Plants, Petrochemical Complex, Off Shore & On Shore Platforms, Oxygen Plants, Chemical Plants
PTFE SLEEVED PLUG VALVES	# 150 & #300	AP 1599	Control & Isolation (on-off) of Toxic Chemicals, Caustic & Chlorine Acids, Slurry Etc.. Glandless Valve Hence Most Suitable for Vacuum Application & Zero Emission Fire Safe Feature for Hydrocarbon Services	Mining & Beneficiation & Power Plants, Process Industries, Chemical Industries, Fertilizers Caustic Chlorine & Phosphoric Acid Plants, Pesticide Plants, Dyes & Pigment Industries
LUBRICATED PLUG VALVES	#125	BS5158	Isolation (on-off) of Low Pressure Water, Oil & Utility Applications.	Edible Oil, Aluminum & Hydrocarbon Plants
GATE VALVES	# 150, #300, #600, #900, #1500 & 2500	API 600 / ASME 16.34 AP16 D	Isolation of High Temperature, High Pressure Thermo Fluids, Steam, Chemicals etc	Boiler Plants, Petro Chemical Complex, Mining & Beneficiation, Power Plants, Fertilizers, off Shore & Onshore Platforms & Refineries
GLOBAL VALVE	# 150, #300, #600, #900, #1500 & 2500	BSI1873 / ASME 16.34	Control & Isolation (on-off) of High Temperature High Pressure Thermo Fluids, Steam, Chemicals etc	Boiler Plants, Petro Chemical Complex, Mining & Beneficiation, Power Plants, Fertilizers, off Shore & Onshore Platforms & Refineries
LIFT CHECK VALVES	#150 & # 300	BS 1868	To prevent Reverse Flow of High Temperature, High pressure Thermo Fluids, Steam, Chemicals etc	Boiler Plants, Petro Chemical Complex, Mining & Beneficiation, Power Plants, Fertilizers, Off Shore & Onshore Platforms & Refineries.
SWING CHECK VALVES	# 150, #300, #600, #900, #1500 & 2500	BSI 1873 / ASME 16.34	To Prevent Reverse Flow of High Temperature, High Pressure Thermo Fluids, Steam, Chemicals etc.	Boiler Plants, Petro Chemical Complex, Mining & Beneficiation, Power Plants, Fertilizers, Off Shore & Onshore Platforms & Refineries.

TYPE OF VALVES	PRESSURE CLASS	DESIGN STANDARD	AREA OF APPLICATION	USER INDUSTRIES
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FORGED STEEL GATE, GLOBE & LIFT CHECK VALVES	#800, #1500& #2500	API 602/ BS 5352	Control & Isolation of High Temperature, High Pressure, Thermo Fluids,	Boiler Plants, Petro Chemical Complex, Mining & Beneficiation, Power Plants, Fertilizers, off shore & on Shore Platforms & Refineries
WAFER CHECK VALVE	PN 10 To PN40	API 6D	To prevent Back Flow of Fluids, Compact in construction, Ease to Handle	Power Plants, Fertilizers, Chemical Industries, Process Industries, Fertilizers
NON SLAM CHECK VALVES	#150, & # 300	MFRS STD	To Prevent Back Flow of Fluids, Spring loaded Hence No	Power Plants, Fertilizers, Process Industries, Chemical Industries, Fertilizers
DUAL PLATE CHECK VALVES	# 150,& # 300 # 2500	API 594	To Prevent Back Flow of Fluids, Compact in Construction, Ease to Handle Minimum Pressure Drop	Petro Chemical Complex, Mining & Beneficiation, Industries, Fertilizers, Power Plants, Offshore & On shore Platforms & Refineries
NEEDLE VALVES	# 800	MFRS STD BS 1868	For Fine Control Applications	All Type of Industries
RUBBER LINED CHECK VALVES	PN 6 # 300	MFRS STD	To Prevent Back Flow of Chemically Active & Corrosive Fluids Specially in ETP, Wtp & DM Plants	Mining & Beneficiation, Power Plants, Process Industries, ETP, Wtp & DM Plants, Chemical Industries, Fertilizers
BALL VALVES	#150 To 2500 #150, #300	BS 5351 / API 6D BSI 1873	Isolation (on-off) of Fluids at Moderate pressure & Temp. Easy Maintenance, Low Diff Pressure & Quick Opening Fire Safe Feature for Hydrocarbon Service	Boiler Plants, Oil & Gas Pipe Lines, Petrochemical Complex, Mining & Beneficiation Plants, Power Plants, Fertilizer, Chemical Industries, Off Shore & onshore Platforms & Refineries
BELOW SEALED GLOBE VALVE	#150 To # 800	BS 1873	Control & Isolation (on-off) of Highly Toxic Fluids & Zero Leakage to Atmosphere.	Nuclear & Automatic Power Plants, Hezardous & Toxic Chemical Industries, Caustic & Chlorine Plants
CHLORINE GLOBE VALVES	# 300	BS 1873	Specially fir Chlorine Services	Caustic & Chlorine Plants
TYPE OF VALVES	PRESSURE CLASS	DESIGN STANDARD	AREA OF APPLICATION	USER INDUSTRIES
KNIFE EDGE GATE VALVE	PN6 & PN 10 PN 40	MFRS STD	Isolation Of Slurry & Pulp Applications	Pump & Paper, ASH Handling, Steel Industries, Mining & Beneficiation Plans

CAST IRON SLUICE, GATE & GLOBE VALVES	PN 10 & 16	BS5 150ISI 4846 & BS 5163	Low Pressure Water, Air & Utility Applications Action	Power Plants, Sugar Industries, Steel Industries
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