AABIRA AL KHALEEJ

AABIRA AL KHALEEJ

REGISTERED OFFICE :
PO. BOX: 6341,
DOHA
STATE OF QATAR,
CR.: 163311

CELL : +97-455815418 / 431288321
+91-8792979817

EMAIL : willwinenterprises79@gmail.com

Willwin Enterprises

WILLWIN ENTERPRISES

REGISTERED OFFICE :
#746, 4 TH CROSS,
BHARAT NAGAR,
HUNCHENATTI ROAD, PEERANWADI,
BELGAUM.590014,
KARNATAKA, INDIA.

CELL : +91-8792979817

EMAIL : willwinenterprises79@gmail.com

QUALITY, PERFECTION & RELIABILITY DELIVERED

AABIRA AL KHALEEJ

Willwin Enterprises

IN AN INDUSTRY THAT DEMANDS HIGHLY COMPETITIVE AND PRECISION BASED PRODUCTS WILLWIN ENTERPRISES COMMITTED TO EXCELLENT SERVICE, UP TO DATE TECHNOLOGICAL UPGRADATION, STATE OF THE ART INFRASTRUCTURE AND HIGHLY QUALIFIED HUMAN RESOURCES.

WE MANUFACTURE AND SUPPLY MACHINED PARTS READY TO ASSEMBLE COMPONENTS FOR VALVES & PUMPS INDUSTRY, TRACTOR INDUSTRY, FOOD INDUSTRY & MATERIAL HANDLING INDUSTRY, CRANE'S, HOIST'S, ELEVATOR PART'S, ALL TYPES OF COMPRESSOR SPARES, AGRICULTURE IMPLEMENTS, CEMENT & SUGAR INDUSTRY, FLOUR & RICE MILL MACHINERY SPARES IN GRADED CAST IRON, S.G. IRON, ALLOY STEEL CASTINGS, FERROUS & NON FERROUS MACHINED COMPONENTS, SPECIALISED IN "V" GROOVE MOTOR PULLEY'S & FLYWHEELS.

VISION …

AABIRA AL KHALEEJ

Willwin Enterprises

TO SUPPLY QUALITY PRODUCTS BY INCORPORATING THE NEEDS AND REQUIREMENTS OF CUSTOMER

MISSION …

TO ACHIEVE HIGHEST CUSTOMER SATISFACTION BY CONTINUAL IMPROVEMENT OF THE PROCESSES AND INCREASING EFFECTIVENESS OF QUALITY MANAGEMENT SYSTEM BY EMPLOYEE INVOLVEMENT

CULTURE …

CUSTOMER SATISFACTION
QUALITY
EXCELLENCE

AABIRA AL KHALEEJ

Willwin Enterprises

QUALITY POLICY …

WE AT WILLWIN ENTERPRISES COMMITTED FOR,

MANUFACTURER AND SUPPLIER OF PRECISION MACHINED COMPONENTS AND SUB ASSEMBLIES WITH HIGH QUALITY TO MEET CUSTOMERS DESIRED REQUIREMENTS UPTO THEIR FULLEST SATISFACTION AT ALL TIMES.

CONTINUALLY IMPROVING ON THE QUALITY MANAGEMENT SYSTEM WITH FOCUS ON THE GROWTH IN BUSINESS.

DEVELOPING THE SKILLS OF ALL MEMBERS AND WORKERS OF WILLWIN ENTERPRISES LEADING TO THEIR INDIVIDUAL GROWTH & WELL BEINGS.

AABIRA AL KHALEEJ

Willwin Enterprises

WE AT WILLWIN ENTERPRISES ASSURE YOU THAT WE WILL LEAVE NO STONE UNTURNED TO PROVIDE YOU WITH EXCELLENT OUTPUT WITH A PERFECT SYMBIOSIS OF ETHICAL APPROACH, PROMPT SERVICE AND IMMACULATE PRODUCTS.

ABDULHAMID SHAIKH
PROPRIETOR

COMPANY PROFILE …

AABIRA AL KHALEEJ

Willwin Enterprises

WILLWIN ENTERPRISES IS A PROPRIETORSHIP ESTABLISHED IN 2018, MANAGED BY MR. ABDULHAMID SHAIKH AND HAS A GOOD REPUTATION IN THE FIELD OF FOUNDRY AS WELL AS MACHINING OF PRECISION MACHINED PARTS READY TO ASSEMBLY COMPONENTS FOR ALL TYPES OF VALVES & PUMPS INDUSTRY, TRACTOR INDUSTRY, FOOD INDUSTRY & MATERIAL HANDLING INDUSTRY, CRANE'S, HOIST'S, ELEVATOR PART'S, ALL TYPES OF COMPRESSOR SPARES, AGRICULTURE IMPLEMENTS, CEMENT & SUGAR INDUSTRY, FLOUR & RICE MILL MACHINERY SPARES IN GRADED CAST IRON, S.G. IRON, ALLOY STEEL CASTINGS, FERROUS & NON FERROUS MACHINED COMPONENTS, SPECIALISED IN "V" GROOVE MOTOR PULLEY'S & FLYWHEELS.

LOCATION: SMART CITY BELGAUM, KARNATAKA STATE, INDIA
BELGAUM, IS ONE OF THE MOST PROMISING INDUSTRIAL CENTERS OF KARNATAKA.
150 KMS. (90 MILES) FROM GOA AND ABOUT 500KMS. (300 MILES) FROM MUMBAI PORT.
IT IS WELL CONNECTED BY AIR, RAIL & ROAD.

TEAM : THE COMPANY HAS WELL-QUALIFIED AND MOTIVATED TEAM OF ENGINEERS AND SKILLED PROFESSIONALS EXPERIENCE IN THE FIELD OF ENGINEERING WITH THE LATEST FACILITIES REQUIRED TO ACHIEVE AND SET GOALS. THE COMPANY TEAM FORCE OF 10-15 PEOPLES.

PRODUCT RANGE...

AABIRA AL KHALEEJ

Willwin Enterprises

WE ARE THE MANUFACTURERS AND SUPPLIER OF
GRADED CAST, S.G.IRON, MS & STAINLESS STEEL CASTINGS MACHINED COMPONENTS LIKE..

* MATERIAL HANDLING EQUIPMENT'S,
* CRANES SPARES,
* HOISTS SPARES,
* ELEVATOR PART'S,
* AUTOMOBILE PART'S,
* ACTUATOR GEAR BOXES,
* ALL TYPES OF VALVES
* PUMPS COMPONENTS,
* ALL TYPES OF COMPRESSORS SPARES,
* AGRICULTURAL IMPLEMENTS,
* FOOD INDUSTRY,
* TRACTOR PARTS,
* CEMENT PLANTS,
* SUGAR PLANTS
* FLOUR & RICE MILL MACHINERY SPARES
* ALL TYPES OF NUT BOLTS, BEARINGS, FOUNDATION BOLT'S ETC...

WE DO AS PER CUSTOMERS (DRAWING & PATTERN) REQUIREMENT

TYPES OF VALVES

AABIRA AL KHALEEJ

Willwin Enterprises

LINEAR MOTION VALVES

1. GATE VALVES: USED FOR ON/OFF CONTROL, GATE VALVES HAVE A GATE THAT MOVES UP AND DOWN TO CONTROL FLOW.
2. GLOBE VALVES: USED FOR THROTTLING AND CONTROL, GLOBE VALVES HAVE A PLUG THAT MOVES UP AND DOWN TO CONTROL FLOW.
3. NEEDLE VALVES: USED FOR PRECISE CONTROL, NEEDLE VALVES HAVE A NEEDLE-SHAPED PLUG THAT MOVES UP AND DOWN TO CONTROL FLOW.

ROTARY MOTION VALVES

1. BALL VALVES: USED FOR ON/OFF CONTROL, BALL VALVES HAVE A ROTATING BALL THAT CONTROLS FLOW.
2. BUTTERFLY VALVES: USED FOR ON/OFF CONTROL, BUTTERFLY VALVES HAVE A ROTATING DISC THAT CONTROLS FLOW.
3. PLUG VALVES: USED FOR ON/OFF CONTROL, PLUG VALVES HAVE A ROTATING PLUG THAT CONTROLS FLOW.

SELF-OPERATED VALVES

1. CHECK VALVES: USED TO PREVENT BACKFLOW, CHECK VALVES HAVE A DISC OR FLAPPER THAT OPENS AND CLOSES AUTOMATICALLY.
2. RELIEF VALVES: USED TO RELIEVE EXCESS PRESSURE, RELIEF VALVES HAVE A SPRING-LOADED DISC THAT OPENS AUTOMATICALLY.

SPECIALIZED VALVES

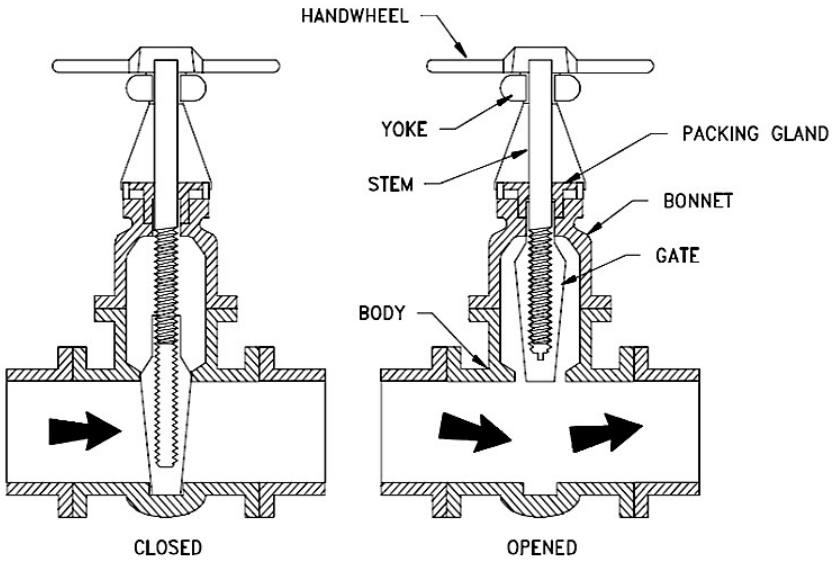
1. DIAPHRAGM VALVES: USED FOR CORROSIVE OR ABRASIVE APPLICATIONS, DIAPHRAGM VALVES HAVE A FLEXIBLE DIAPHRAGM THAT CONTROLS FLOW.
2. PINCH VALVES: USED FOR SLURRIES OR ABRASIVE APPLICATIONS, PINCH VALVES HAVE A FLEXIBLE SLEEVE THAT CONTROLS FLOW.
3. CONTROL VALVES: USED FOR PRECISE CONTROL, CONTROL VALVES HAVE A PNEUMATIC OR ELECTRIC ACTUATOR THAT CONTROLS FLOW.

GATE VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

GATE VALVES ARE USED TO SHUT OFF OR START THE FLOW OF LIQUIDS, GASES, OR STEAM IN A PIPELINE. THEY ARE COMMONLY USED IN INDUSTRIAL SETTINGS, INCLUDING WATER TREATMENT FACILITIES, OIL AND GAS EXTRACTION, AND FACTORIES. GATE VALVES ARE BEST USED WHEN MINIMAL PRESSURE LOSS IS NEEDED.



HERE ARE SOME THINGS TO CONSIDER WHEN USING GATE VALVES: APPLICATIONS

GATE VALVES ARE USED IN A VARIETY OF APPLICATIONS, INCLUDING:

WATER SUPPLY: GATE VALVES ARE THE MOST COMMON VALVE USED IN WATER SUPPLY SYSTEMS. THEY CAN BE USED TO ISOLATE AREAS OF THE WATER SUPPLY NETWORK FOR MAINTENANCE, REPAIRS, OR NEW INSTALLATIONS. HAZARDOUS APPLICATIONS: FOR HAZARDOUS APPLICATIONS, A BELLOWS SEAL ARRANGEMENT CAN BE USED TO ENSURE MINIMAL LEAKAGE.

PRESSURE

GATE VALVES ARE SUITABLE FOR LOW PRESSURE APPLICATIONS, WITH A PRESSURE RATING OF UP TO 150 PSI. AT HIGH PRESSURES, FRICTION CAN MAKE THE VALVE HARDER TO OPERATE.

CONSTRUCTION

GATE VALVES ARE LESS COMPLEX TO CONSTRUCT THAN OTHER TYPES OF VALVES IN LARGE SIZES, SO THEY ARE OFTEN USED WITH LARGER PIPE DIAMETERS.

STEM DESIGN

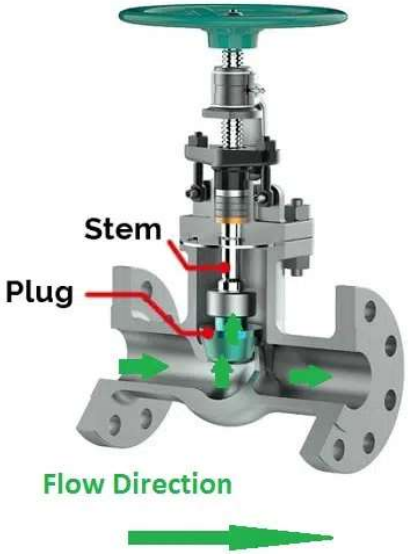
GATE VALVES CAN HAVE EITHER A RISING STEM OR A NON-RISING STEM. RISING STEM GATE VALVES HAVE BUILT-IN VISUAL INDICATORS AND ARE EASILY LUBRICATED. NON-RISING STEM GATE VALVES ARE COMMON IN UNDERGROUND INSTALLATIONS AND APPLICATIONS WITH LIMITED VERTICAL SPACE.

GLOBE VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

GLOBE VALVES HAVE SEVERAL ADVANTAGES AND DISADVANTAGES, INCLUDING:



ADVANTAGES

SHUTOFF: GLOBE VALVES HAVE A GOOD SHUTOFF CAPABILITY.
THROTTLING: GLOBE VALVES HAVE MODERATE TO GOOD THROTTLING CAPABILITY.
STROKE: GLOBE VALVES HAVE A SHORTER STROKE THAN GATE VALVES.
MAINTENANCE: GLOBE VALVES ARE RELATIVELY EASY TO MACHINE OR RESURFACE THE SEATS.
USE: GLOBE VALVES CAN BE USED AS A STOP-CHECK VALVE.
WEAR AND TEAR: GLOBE VALVES HAVE RELATIVELY LESS WEAR AND TEAR COMPARED TO OTHER VALVES.
HIGH PRESSURE AND TEMPERATURE RESISTANCE: GLOBE VALVES CAN WITHSTAND HIGH PRESSURES AND TEMPERATURES.

DISADVANTAGES

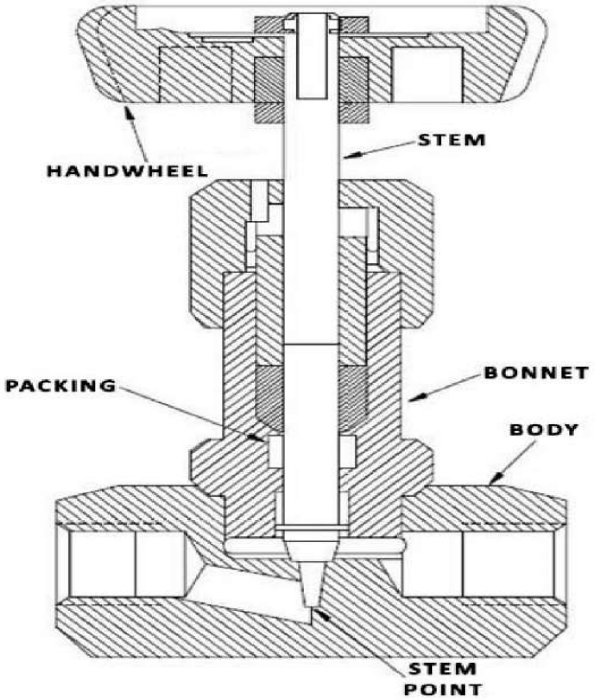
UNI-DIRECTIONAL: GLOBE VALVES CAN ONLY START, STOP, AND REGULATE THE FLUID FLOW IN ONE DIRECTION.
PRESSURE DROP: GLOBE VALVES CAN SUFFER FROM A HIGH PRESSURE DROP WHEN THE VALVE IS THROTTLED.
WEIGHT: GLOBE VALVES CAN BE HEAVY.
FLUID RESISTANCE: GLOBE VALVES HAVE HIGH FLUID RESISTANCE.
FORCE REQUIRED: GLOBE VALVES REQUIRE A LARGE FORCE FOR OPENING AND CLOSING.
SLOWER OPERATION: GLOBE VALVES ARE NOT SUITED FOR SITUATIONS REQUIRING QUICK OPENING OR CLOSING.
GLOBE VALVES ARE TYPICALLY MADE OF STAINLESS STEEL, SUCH AS GRADES 304 AND 316. STANDARDS SUCH AS API 600 STAINLESS STEEL THREADED GLOBE VALVES DENOTE THE SIZES, PRESSURE CAPACITIES, AND OTHER PROPERTIES.

NEEDLE VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

NEEDLE VALVES ARE USED FOR FLOW CONTROL IN A VARIETY OF INDUSTRIES, INCLUDING MANUFACTURING, PETROCHEMICALS, AND WASTEWATER TREATMENT. HERE ARE SOME ADVANTAGES AND DISADVANTAGES OF NEEDLE VALVES, AS WELL AS SOME CONSIDERATIONS FOR THE GRADE OF NEEDLE VALVE:



ADVANTAGES

PRECISE FLOW CONTROL: NEEDLE VALVES CAN HANDLE A WIDE RANGE OF FLUIDS AND TEMPERATURES, AND OFFER PRECISE FLOW CONTROL.

COMPACT DESIGN: NEEDLE VALVES ARE COMPACT AND CAN BE INSTALLED IN TIGHT SPACES.

LEAK PREVENTION: PROPERLY OPERATED NEEDLE VALVES CAN PROVIDE A LEAK-TIGHT SEAL.

HIGH SAFETY LEVELS: NEEDLE VALVES ARE CONSIDERED TO BE SOME OF THE SAFEST VALVES ON THE MARKET.

DISADVANTAGES

INCOMPATIBILITY WITH HIGH-FLOW SITUATIONS: NEEDLE VALVES ARE NOT IDEAL FOR HIGH-FLOW SYSTEMS BECAUSE OF THEIR SMALL OPENING.

INABILITY TO “EYEBALL IT”: IT CAN BE DIFFICULT TO TELL IF THE VALVE IS OPEN OR CLOSED.

RISK OF CLOGGING: SOLID PARTICLES CAN GET LODGED IN THE SEAT AND DAMAGE THE VALVE.

GRADE

TITANIUM GRADE 5 NEEDLE VALVES ARE COMMONLY USED IN ENGINEERING AND INDUSTRIAL APPLICATIONS. THEY ARE LIGHTWEIGHT AND HAVE STRONG STRUCTURES.

MATERIAL

STAINLESS STEEL NEEDLE VALVES ARE IDEAL FOR ENVIRONMENTS THAT REQUIRE HIGH CORROSION RESISTANCE, DURABILITY, AND STRENGTH. BRASS OR PLASTIC MAY BE MORE COST-EFFECTIVE AND LIGHTER ALTERNATIVES FOR LOWER PRESSURES AND TEMPERATURES.

BALL VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

BALL VALVES HAVE MANY ADVANTAGES, INCLUDING:

COST-EFFECTIVE: BALL VALVES ARE MORE AFFORDABLE THAN OTHER, MORE COMPLEX VALVE TYPES.

ROBUST: BALL VALVES CAN WITHSTAND HIGH PRESSURES, VELOCITIES, AND TEMPERATURES.

EASY TO OPERATE: BALL VALVES REQUIRE LESS FORCE TO ACTUATE THAN GATE OR GLOBE VALVES.

VERSATILE: BALL VALVES ARE SUITABLE FOR A WIDE RANGE OF INDUSTRIAL APPLICATIONS.

LEAK-PROOF: BALL VALVES PROVIDE LEAK-PROOF SERVICE.

HOWEVER, BALL VALVES ALSO HAVE SOME DISADVANTAGES, INCLUDING:

PRONE TO BLOCKAGES

SLURRIES OR OTHER THICK LIQUIDS CAN SOLIDIFY OR CLOG INSIDE THE VALVE CAVITIES.

POOR THROTTLING CHARACTERISTICS

BALL VALVES SHOULD ONLY BE USED IN EITHER A FULLY OPEN OR FULLY CLOSED POSITION.

DIFFICULT TO CLEAN

BALL VALVES ARE NOT EASY TO CLEAN, WHICH LIMITS THEIR USE IN MEDICAL AND FOOD AND BEVERAGE APPLICATIONS.

FOR CERTAIN APPLICATIONS, SUCH AS DRINKING WATER AND GAS, IT MAY BE REQUIRED TO CHOOSE A CERTIFIED BALL VALVE TO ENSURE IT MEETS SAFETY REQUIREMENTS.

STAINLESS STEEL 304 IS THE MOST COMMON GRADE OF MATERIAL USED TO PRODUCE BALL VALVES.

BUTTERFLY VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

BUTTERFLY VALVES HAVE SEVERAL ADVANTAGES AND DISADVANTAGES, INCLUDING:

ADVANTAGES

COMPACT DESIGN: THEY ARE LIGHTWEIGHT AND REQUIRE LESS SPACE THAN OTHER VALVES.

QUICK OPERATION: A 90-DEGREE TURN CAN COMPLETELY SHUT OFF THE VALVE.

EASY MAINTENANCE: THEY HAVE A SIMPLE DESIGN WITH FEWER COMPONENTS TO INSPECT OR REPLACE.

COST-EFFECTIVE: THEY ARE USUALLY CHEAPER THAN OTHER VALVE TYPES.

VERSATILE: THEY CAN HANDLE DIFFERENT TYPES OF MEDIA, INCLUDING WATER, OIL, GASES, AND CORROSIVE FLUIDS.

DISADVANTAGES

LIMITED THROTTLING RANGE: THEY ARE NOT SUITABLE FOR HIGH-PRECISION FLUID CONTROL.

LOWER PRESSURE DROP: THEY CAN CAUSE A PRESSURE DROP ACROSS THE VALVE, EVEN WHEN FULLY OPEN.

NOT SUITABLE FOR HIGH-PRESSURE APPLICATIONS: THE DISC IS UNABLE TO RELIABLY WITHSTAND HIGH PRESSURES.

RELATIVELY LEAK-PRONE: THEY DO NOT PROVIDE 100% SEALING.

Worm Gear Flanged Butterfly Valve

Butt-welded Butterfly Valve

Wafer Butterfly Valve

Stainless steel Butterfly Valve

Lug Wafer Butterfly Valve

Pneumatic Flanged Butterfly Valve

PLUG VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

PLUG VALVES HAVE MANY ADVANTAGES, INCLUDING:

DURABILITY

PLUG VALVES ARE ROBUST AND CAN WITHSTAND HARSH ENVIRONMENTS AND ABRASIVE MEDIA.

QUICK OPERATION

PLUG VALVES CAN BE OPENED AND CLOSED QUICKLY WITH A QUARTER-TURN OPERATION. VERSATILITY

PLUG VALVES CAN HANDLE A WIDE RANGE OF FLUIDS, INCLUDING LIQUIDS, GASSES, AND

SLURRIES. THEY CAN ALSO BE DESIGNED TO OPERATE IN A WIDE RANGE OF CONDITIONS,

HANDLING PRESSURES UP TO SEVERAL THOUSAND POUNDS PER SQUARE INCH (PSI).

LOW MAINTENANCE

PLUG VALVES GENERALLY REQUIRE MINIMAL MAINTENANCE COMPARED TO MORE

COMPLEX VALVE DESIGNS.

BI-DIRECTIONAL FLOW

PLUG VALVES CAN HANDLE FLOW IN BOTH DIRECTIONS, PROVIDING FLEXIBILITY IN INSTALLATION.

ADAPTABILITY TO MULTIPORT CONFIGURATIONS

PLUG VALVES CAN BE DESIGNED WITH MULTIPLE PORTS, SIMPLIFYING COMPLEX PIPING.

VALVE CAN BE SERVICED IN PLACE

PLUG VALVES CAN BE SERVICED WHILE IN PLACE.

RELIABLE LEAK-TIGHT SERVICE

PLUG VALVES HAVE RELIABLE LEAK-TIGHT SERVICE DUE TO TAPERED PLUG WEDGING ACTION AND A REPLACEABLE SLEEVE.

PLUG VALVES ARE USUALLY AVAILABLE IN CYLINDRICAL OR CONICAL SHAPES. THEY ARE USED FOR STOPPING OR STARTING THE FLOW OF FLUID, AND CAN OFFER ON-OFF, DIVERTING, AS WELL AS BASIC MODERATE THROTTLING SERVICES.

CHECK VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

CHECK VALVES HAVE MANY ADVANTAGES, INCLUDING:

PREVENT BACKFLOW: CHECK VALVES ARE DESIGNED TO PREVENT REVERSE FLOW, WHICH CAN DAMAGE PUMPS AND COMPRESSORS.

FAST-ACTING: CHECK VALVES CAN QUICKLY RESPOND TO CHANGES IN FLOW DIRECTION.

CAN HANDLE HIGH AND LOW PRESSURE: CHECK VALVES CAN WITHSTAND A RANGE OF PRESSURE CONDITIONS.

CAN BE USED IN DIFFERENT POSITIONS: CHECK VALVES CAN BE USED IN BOTH HORIZONTAL AND VERTICAL POSITIONS.

SELF-ACTUATED: CHECK VALVES DON'T REQUIRE EXTERNAL ACTUATION TO OPERATE.

REDUCE DOWNTIME: CHECK VALVES CAN HELP REDUCE DOWNTIME AND LOSS OF PRODUCTION.

LOWER MAINTENANCE COSTS: CHECK VALVES HAVE FEW MOVING PARTS, WHICH CAN LEAD TO LOWER MAINTENANCE COSTS.

SMALLER FOOTPRINT: CHECK VALVES ARE SMALLER THAN CONVENTIONAL CHECK VALVES.

HOWEVER, CHECK VALVES ALSO HAVE SOME DISADVANTAGES, INCLUDING:

CAN'T DETERMINE VALVE CONDITION: IT CAN BE DIFFICULT TO DETERMINE THE CONDITION OF A CHECK VALVE.

INSTALLATION LIMITATIONS: CHECK VALVES MAY HAVE LIMITATIONS ON WHERE THEY CAN BE INSTALLED.

MAY STICK OPEN: CHECK VALVES MAY OCCASIONALLY STICK IN THE OPEN POSITION.

MAY NOT PROVIDE A COMPLETE SEAL: SOME TYPES OF CHECK VALVES, LIKE WAFER CHECK VALVES, MAY NOT CREATE A COMPLETE SEAL, WHICH CAN LEAD TO LEAKAGE.

DIFFERENT TYPES OF CHECK VALVES HAVE DIFFERENT ADVANTAGES AND DISADVANTAGES, SO IT'S IMPORTANT TO CHOOSE THE RIGHT ONE FOR YOUR APPLICATION. FOR EXAMPLE, BALL CHECK VALVES ARE SIMPLE AND COST-EFFECTIVE, BUT THEY DON'T HAVE AN OPEN/CLOSE INDICATOR. WAFER CHECK VALVES ARE FAST AND AFFORDABLE, BUT THEY MAY NOT BE SUITABLE FOR SYSTEMS WITH LOW FLOW RATES OR THAT REQUIRE A TIGHT SEAL.

RELIEF VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

RELIEF VALVES ARE USED TO CONTROL PRESSURE IN SYSTEMS, SUCH AS THOSE THAT USE COMPRESSED AIR OR FLUID. THEY OPEN IN PROPORTION TO THE INCREASE IN PRESSURE, WHICH HELPS PREVENT DAMAGE OR CATASTROPHIC FAILURE. HERE ARE SOME ADVANTAGES AND DISADVANTAGES OF RELIEF VALVES:

ADVANTAGES

RELIABLE: WHEN PROPERLY SIZED AND OPERATED, RELIEF VALVES ARE RELIABLE.

VERSATILE: RELIEF VALVES CAN BE USED FOR MANY SERVICES.

PROTECTS SPRING: IN CORROSIVE OR DIRTY SERVICE, A BELLOWS PROTECTS THE SPRING FROM PROCESS FLUID.

DISADVANTAGES

BACK PRESSURE: THE RELIEVING PRESSURE IS AFFECTED BY THE BACK PRESSURE, WHICH IS THE PRESSURE AT THE OUTLET OF THE VALVE.

CHATTER: IF THE BUILT-UP BACK PRESSURE IS TOO HIGH, THE VALVE CAN CHATTER.

BELLOWS FATIGUE: THE BELLOWS CAN FATIGUE, ALLOWING PROCESS FLUID TO ESCAPE THROUGH THE BONNET.

SET POINT DRIFT: THE SET POINT CAN DRIFT OVER TIME AFTER INSTALLATION.

OTHER CONSIDERATIONS FOR RELIEF VALVES INCLUDE:

RAIN CAP: A RAIN CAP CAN PROVIDE A VISUAL INDICATION WHEN THE RELIEF VALVE OPENS.

SELF-OPERATED RELIEF VALVE: A SELF-OPERATED RELIEF VALVE CAN THROTTLE AT LESS THAN FULL RELIEF AND IS MORE STABLE THAN A POP RELIEF.

TESTING FREQUENCY: THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), NATIONAL BOARD INSPECTION CODE (NBIC), AND STATE AND LOCAL JURISDICTIONS MAY SET REQUIREMENTS FOR TESTING FREQUENCY.

DIAPHRAGM VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

DIAPHRAGM VALVES HAVE MANY ADVANTAGES, INCLUDING THEIR ABILITY TO HANDLE CORROSIVE AND ABRASIVE FLUIDS, BUT ALSO HAVE SOME DISADVANTAGES:

ADVANTAGES

CHEMICAL RESISTANCE: DIAPHRAGM VALVES CAN HANDLE HAZARDOUS CHEMICALS AND RADIOACTIVE FLUIDS.

EASY TO MAINTAIN: DIAPHRAGM VALVES ARE EASY TO CLEAN AND MAINTAIN, AND CAN BE STERILIZED.

LOW-PRESSURE DROP: DIAPHRAGM VALVES HAVE A LOW-PRESSURE DROP.

SIMPLE STRUCTURE: DIAPHRAGM VALVES HAVE A SIMPLE STRUCTURE WITH FEW MOVING PARTS.

TIGHT SHUTOFF: DIAPHRAGM VALVES HAVE AN ANTI-LEAK SEAL WITH A TIGHT SHUTOFF.

WIDE TEMPERATURE RANGE: DIAPHRAGM VALVES CAN OPERATE EFFECTIVELY ACROSS A WIDE TEMPERATURE RANGE.

DISADVANTAGES

LIMITED SIZE RANGE: DIAPHRAGM VALVES HAVE A LIMITED SIZE RANGE.

LIMITED WORKING TEMPERATURES AND PRESSURES: DIAPHRAGM VALVES ARE ONLY SUITABLE FOR MODERATE PRESSURES AND TEMPERATURES.

NOT RECOMMENDED FOR VACUUM SERVICES: DIAPHRAGM VALVES ARE NOT RECOMMENDED FOR VACUUM SERVICES.

CAN BECOME BLOCKED: DIAPHRAGM VALVES CAN BECOME BLOCKED WITH DEBRIS OVER TIME.

DIAPHRAGM VALVES ARE USED IN MANY INDUSTRIES, INCLUDING POWER, VACUUM SERVICES, BREWERIES, WATER TREATMENT, AND PHARMACEUTICAL MANUFACTURING.

PINCH VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

PINCH VALVES ARE SIMPLE VALVES WITH MANY ADVANTAGES, BUT THEY ALSO HAVE SOME DISADVANTAGES:

ADVANTAGES

LOW MAINTENANCE: PINCH VALVES ARE INEXPENSIVE, LIGHTWEIGHT, AND HAVE LOW MAINTENANCE COSTS.

EASY TO CLEAN: PINCH VALVES ARE SELF-CLEANING AND CAN BE CLEANED USING CIP.

FAST OPENING AND CLOSING: PINCH VALVES HAVE QUICK OPENING AND CLOSING TIMES.

RESISTANT TO ABRASION: PINCH VALVES ARE RESISTANT TO ABRASIVE MATERIALS AND CAN HANDLE FLUIDS WITH HIGH CONCENTRATIONS OF SOLIDS.

NO LEAKAGE: PINCH VALVES HAVE NO BEARINGS, SEALS, OR PACKING, SO THEY DON'T LEAK.

STRAIGHT FLOW PATH: PINCH VALVES HAVE A STRAIGHT FLOW PATH THAT MINIMIZES TURBULENCE AND FRICTION.

GOOD FOR THROTTLING: PINCH VALVES CAN BE USED FOR THROTTLING APPLICATIONS WITH AN EFFECTIVE RANGE OF 10% TO 95% OF THEIR RATED FLOW CAPACITY.

DISADVANTAGES

LIMITED TEMPERATURE RANGE: PINCH VALVES HAVE A LIMITED TEMPERATURE RANGE AND CAN'T OPERATE IN SERVICES THAT REQUIRE HIGH TEMPERATURES.

LIMITED OPERATING PRESSURE: PINCH VALVES HAVE A LIMITED OPERATING PRESSURE.

FACE TO FACE LENGTH: THE FACE TO FACE LENGTH OF A PINCH VALVE MAY BE AN ISSUE IF THERE'S LIMITED SPACE FOR FITTING THE VALVE.

PINCH VALVES ARE OFTEN USED IN INDUSTRIAL AREAS SUCH AS CEMENT, PIGMENTS, GRANULES, CERAMICS, GLASS, SEWAGE WATER, AND MUD.

CONTROL VALVE

AABIRA AL KHALEEJ

Willwin Enterprises

CONTROL VALVES, ESSENTIAL TO A FLUID MANAGEMENT SYSTEM, OFFER NUMEROUS ADVANTAGES, SUCH AS FLOW MODULATION, ENERGY SAVINGS, AND PROCESS OPTIMIZATION. HOWEVER, THEY HAVE DRAWBACKS, SUCH AS HIGH COST, MAINTENANCE REQUIREMENTS, AND LIMITATIONS.

ADVANTAGES OF CONTROL VALVES:

FLOW MODULATION: CONTROL VALVES ALLOW FOR ACCURATE CONTROL OF FLUID FLOW RATES, REGARDLESS OF THE INCOMING PRESSURE AND TEMPERATURE OF THE FLUID. THIS IS ESPECIALLY TRUE IN APPLICATIONS WITH VARYING PROCESS REQUIREMENTS OR WHERE MULTIPLE PIPELINES RECEIVE FLUID FROM A SINGLE SOURCE. CONTROL VALVES ALSO ALLOW THE FLOW RATE TO BE ADJUSTED UP OR DOWN, DEPENDING ON THE REQUIRED OUTPUT.

LOWER ENERGY CONSUMPTION: CONTROL VALVES HELP TO CONSERVE ENERGY BY MAINTAINING A CONSISTENT FLOW RATE, THEREBY REDUCING THE OVERALL ENERGY CONSUMPTION OF A FLOW CONTROL SYSTEM. THE ABILITY TO REGULATE THE FLUID FLOW AND PRESSURE TRANSLATES TO LOWER PUMPING PRESSURE, WHICH, IN TURN, TRANSLATES TO A LOWER ENERGY DEMAND.

PROCESS OPTIMIZATION: CONTROL VALVES ARE ESSENTIAL FOR OPTIMIZING PROCESS FLUID CONTROL SYSTEMS. THEY HELP MAINTAIN THE IDEAL PROCESS FLUID TEMPERATURE, PRESSURE, AND VOLUME, ENSURING THE INDUSTRIAL PROCESS IS EFFICIENT AND EFFECTIVE. THIS TRANSLATES TO BETTER PRODUCTIVITY AND A SMOOTH OPERATION PROCESS TO HELP COMPANIES MEET THEIR BOTTOM-LINE GOALS.

IMPROVED SYSTEM LONGEVITY: CONTROL VALVES CAN HELP EXTEND THE LIFESPAN OF AN INDUSTRIAL FLUID CONTROL SYSTEM SINCE THEY REGULATE FLUID FLOW RATE AND PRESSURE THROUGH THE PIPING. THE CONSISTENT AND ACCURATE MEASUREMENT OF FLUID FLOW TRANSLATES TO REDUCED WEAR AND TEAR OF THE EQUIPMENT, SAVING ON REPAIR TIME AND EXPENSES IN THE LONG RUN.

DISADVANTAGES OF CONTROL VALVES:

HIGH COST: CONTROL VALVES ARE COST-INTENSIVE, ESPECIALLY FOR SYSTEMS REQUIRING MULTIPLE CONTROL VALVES. PURCHASING AND INSTALLING SUCH SYSTEMS MAY BE PROHIBITIVE FOR SMALL-SCALE INDUSTRIES OR APPLICATIONS.

MAINTENANCE AND REPAIR: CONTROL VALVES, LIKE ANY OTHER EQUIPMENT, REQUIRE REGULAR MAINTENANCE, AND THEY MAY REQUIRE MORE FREQUENT REPAIRS THAN OTHER INDUSTRIAL EQUIPMENT. THIS INCREASES OVERHEAD COSTS, WHICH TRANSLATES TO HIGHER OPERATING COSTS.

LIMITATION IN CAPACITY AND OPERATION: CONTROL VALVES HAVE LIMITATIONS REGARDING FLOW RATE AND PRESSURE HANDLING ABILITIES. THE SPECIFIC CAPACITY OF CONTROL VALVES DEPENDS ON THE EQUIPMENT MANUFACTURER, THE SIZE OF THE CONTROL VALVE, AND ITS PHYSICAL PROPERTIES, MEANING THAT THERE MAY BE A LIMIT TO THE UNIT'S OPERATION.

COMPATIBILITY WITH DIFFERENT FLUIDS: CONTROL VALVES MAY ONLY BE COMPATIBLE WITH SOME FLUIDS, MAKING THEM UNSUITABLE FOR CERTAIN APPLICATIONS. SOME APPLICATIONS MAY REQUIRE SPECIALIZED FLOW CONTROL DEVICES TO REGULATE FLUID FLOW RATES, TEMPERATURE, AND PRESSURE.

BAGASSE BAIL BREAKER / CONVEYING SYSTEM

AABIRA AL KHALEEJ

Willwin Enterprises

OUR SYSTEM IS OF SINGLE STAGE(2 ROTOR) & DOUBLE STAGE (3 ROTOR) MODEL DEPENDS UPON CAPACITIES.

AVAILABLE CAPACITIES ARE FROM 5TPH TO 40TPH.

BALE BREAKER IS DYNAMICALLY BALANCED OR ROTORS AND DULY FITTED WITH FLY WHEEL FOR POWER REDUCTION AND SUSTAINED BY KINETIC ENERGY & CUTTING KNIVES ARE OF CAST STEEL AND EASILY REPLACEABLE. ENTIRE SYSTEM IS MOUNTED ON THE HEAVY DUTY MS FABRICATED FRAME

BAGASSE HANDLING CONVEYOR SYSTEM FOR CO-GENERATION PLANT

AABIRA AL KHALEEJ

Willwin Enterprises

THE COMPLETE SYSTEM OF VARIOUS CAPACITIES AS PER CLIENTS REQUIREMENTS.

BAGASSE HANDLING SYSTEM COMPRISES,

BELT CONVEYORS,

SLAT CHAIN CONVEYORS (MBC, ELEVATOR)
DRUM FEEDERS,

BAGASSE SILOS,

CLEATED TYPE BELT CONVEYOR,

MOTORIZED R&P GATE AND TWO WAY FLATE GATE,

PLOUGH ASSEMBLY ETC...

ASH HANDLING SYSTEM

AABIRA AL KHALEEJ

Willwin Enterprises

THE SYSTEM IS VERY MUCH SAFE, EFFECTIVE, RELIABLE AND PERFORMANCE PROVEN.

HIGHLY EFFECTIVE CONTROL OF DUST AND MATERIAL SPILLAGE AT THE LOADING ZONE BY PROVIDING EFFECTIVE SKIRTING, SCRAPER & SYSTEM TOTAL ENCLOSED WITH BOTTOM SEALING, SIDE SEALING AND HOOD COVER.

ASH HANDLING SYSTEM COMPRISES OF:

- SUB MERGED ASH BELT CONVEYOR
- ASH BELT CONVEYOR
- SCREW CONVEYOR
- CONTINUOUS TYPE BELT BUCKET ELEVATOR
- ROTARY VANE FEEDER
- DUST CONDITIONER
- ASH STORAGE SILO WITH R P GATE

COAL HANDLING CONVEYOR SYSTEM

AABIRA AL KHALEEJ

Willwin Enterprises

- GROUND HOPPER WITH ISOLATION GATE
- VIBRO FEEDER AT THE BOTTOM
- GRIZZLY ON TOP TO RECEIVE THE COAL
- CRUSHING AND SCREENING SYSTEM
- COAL BUNKER
- MAGNETIC SEPARATOR
- BELT WEIGHER
- DUST EXTRACTION SYSTEM

SOME OF MACHINES…

AABIRA AL KHALEEJ

Willwin Enterprises

SAND PLANT…

AABIRA AL KHALEEJ

Willwin Enterprises

SAND PLANT…

AABIRA AL KHALEEJ

Willwin Enterprises

SAND PLANT…

AABIRA AL KHALEEJ

Willwin Enterprises

CORE SHOOTER ...

AABIRA AL KHALEEJ

Willwin Enterprises

AABIRA AL KHALEEJ

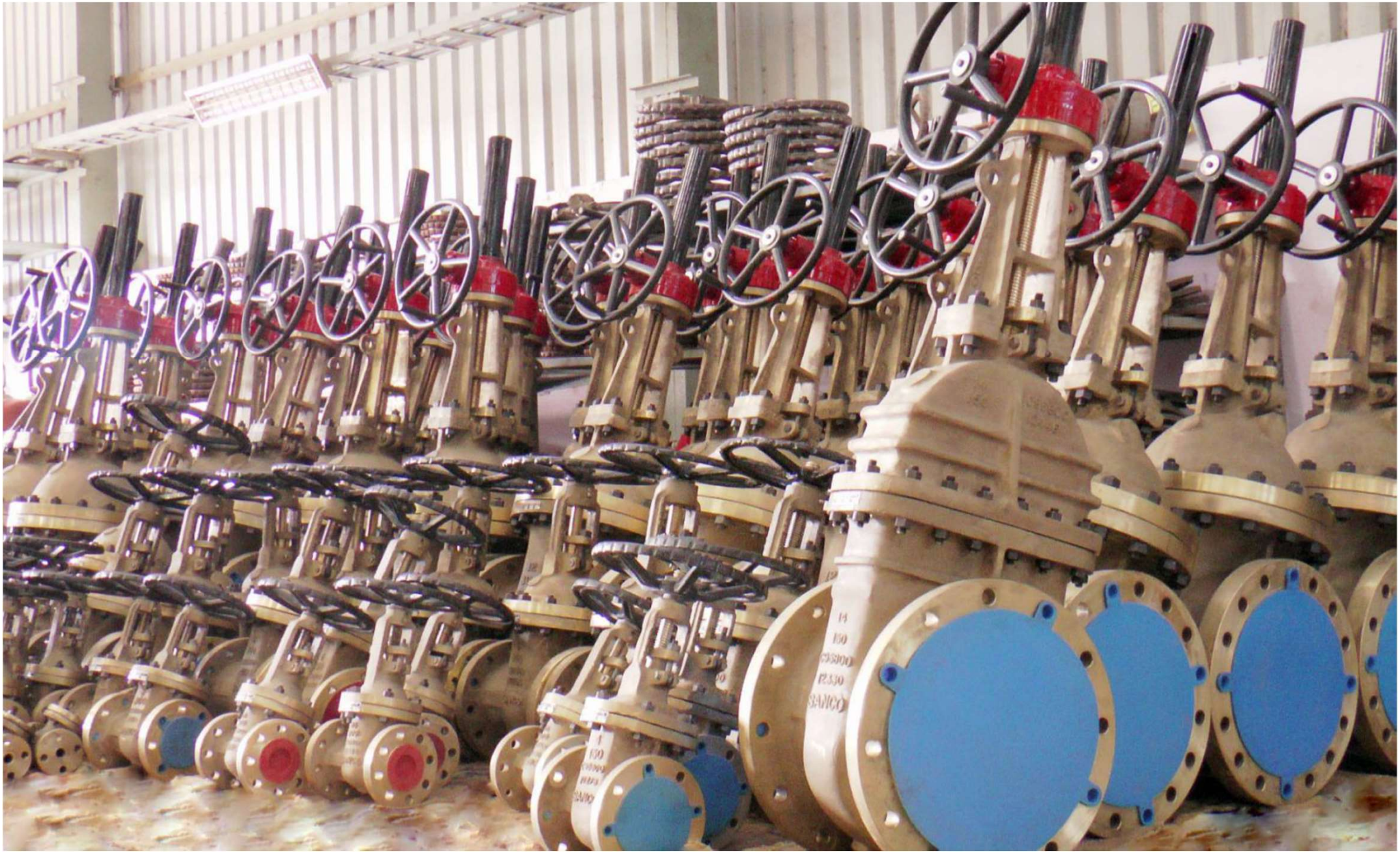
Willwin Enterprises

SOME OF MACHINES...

GATE VALVES

AABIRA AL KHALEEJ

Willwin Enterprises



GLOBE VALVES

AABIRA AL KHALEEJ

Willwin Enterprises

BALL VALVES

AABIRA AL KHALEEJ

Willwin Enterprises

CHECK VALVES

AABIRA AL KHALEEJ

Willwin Enterprises

STANDARD PRODUCT RANGE

VALVE TYPE	ANSI CLASS	DESIGN STANDARD	FIG	SIZE
GATE	150	API 600/ BS 1414	1015, 1015WF	2" NB TO 24" NB
	300		1030, 1030WF	2" NB TO 24" NB
	600		1060, 1060WF	2" NB TO 24" NB
	900			2" NB TO 12" NB
GLOBE	150	BS 1873	2015, 2015WF	2" NB TO 24" NB
	300		2030, 2030WF	2" NB TO 20" NB
	600		2060, 2060WF	2" NB TO 12" NB
	900			2" NB TO 12" NB
LIFT CHECK	150	BS 5352	3015WF	
	300		3030WF	0.5" TO 1.5"NB
	600		3060WF	0.5" TO 1.5"NB
	900			
SWING CHECK	150	BS 1868	4015	2" NB TO 24" NB
	300		4030	2" NB TO 20" NB
	600		4060	2" NB TO 16" NB
	900			2" NB TO 12" NB
BALL	150	BS 5351/ API 6D	50151R, 5015F, 50153F	1.5" NB TO 24" NB
	300		50301R, 50302F, 50303F	1.5" NB TO 16" NB
	600		50602F, 50603F	1.5" NB TO 8" NB
	800		5080	1/2" NB TO 2" NB
FORGED STEEL GATE	800	API 602/ BS 5352/ ASME B16.34	F1080	1/4" NB TO 2" NB
	1500		F1150	1/4" NB TO 1 ½" NB
	2500		F1250	1/4" NB TO 1 ½" NB
FORGED STEEL GLOBE	800	BS 5352/ ASME B16.34	F2080	1/4" NB TO 1 ½" NB
	1500		F2150	1/4" NB TO 1 ½" NB
	2500		F2250	1/4" NB TO 1 ½" NB
FORGED LIFT CHECK	800	BS 5352/ ASME B16.34	F3080	1/4" NB TO 1 ½" NB
	1500		F3150	1/4" NB TO 1 ½" NB
	2500		**F3250**	1/4" NB TO 1 ½" NB

NOTE : APPLICABLE STANDARDS ARE REFERRED WHERE SIZE RANGE EXCEEDS DESIGN STANDARD

Willwin Enterprises

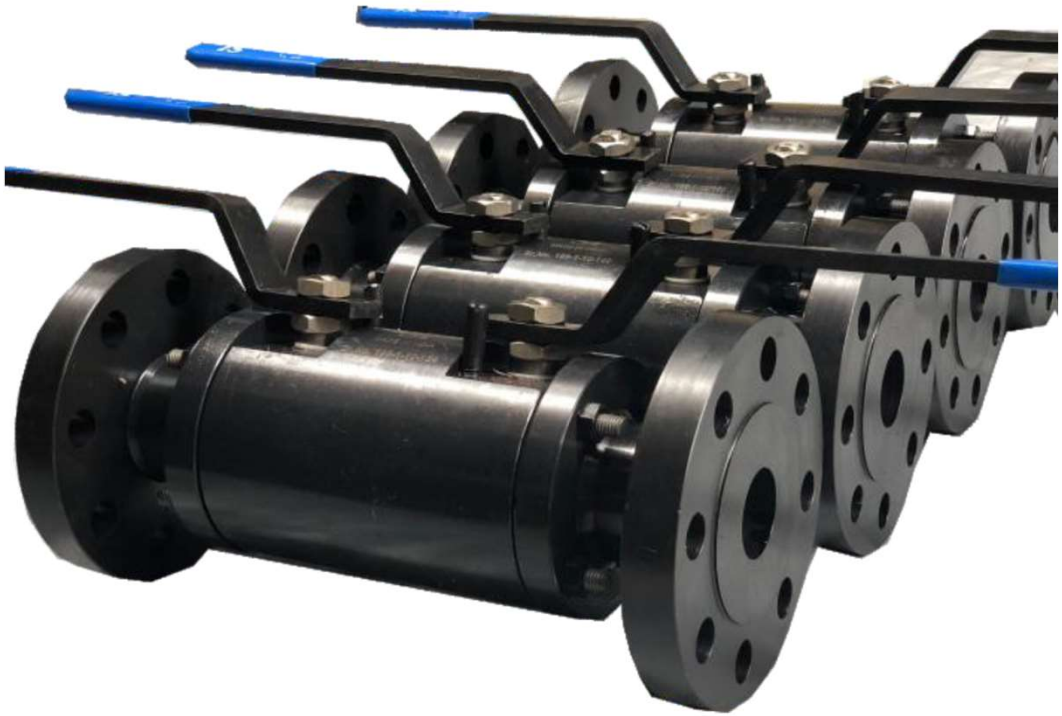
AABIRA AL KHALEEJ

Willwin Enterprises

AABIRA AL KHALEEJ

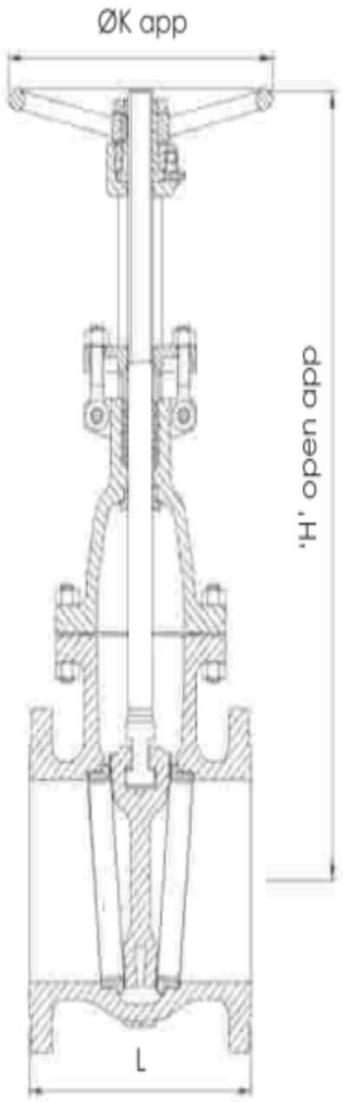
Willwin Enterprises

AABIRA AL KHALEEJ



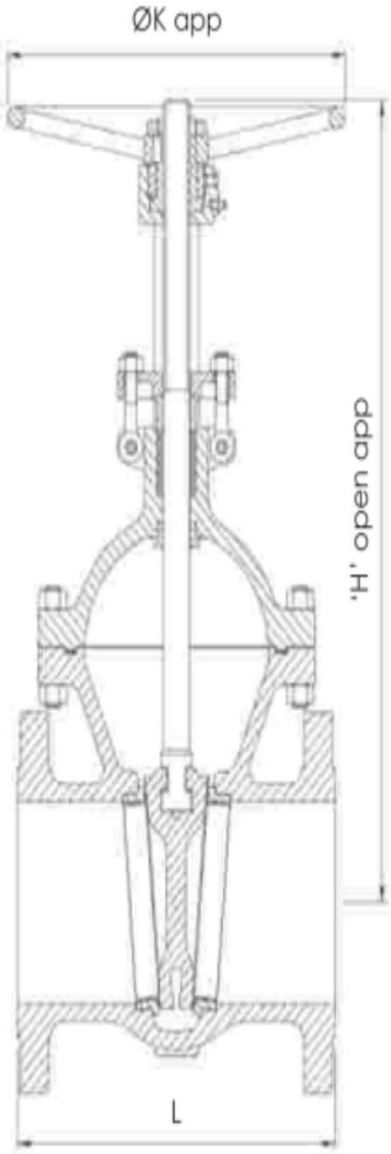
GATE VALVE CLASS 150 - 300 – 600 API 600 - BS1414

LENGTH ANSI B16.10 - FLANGE ANSI B16.5



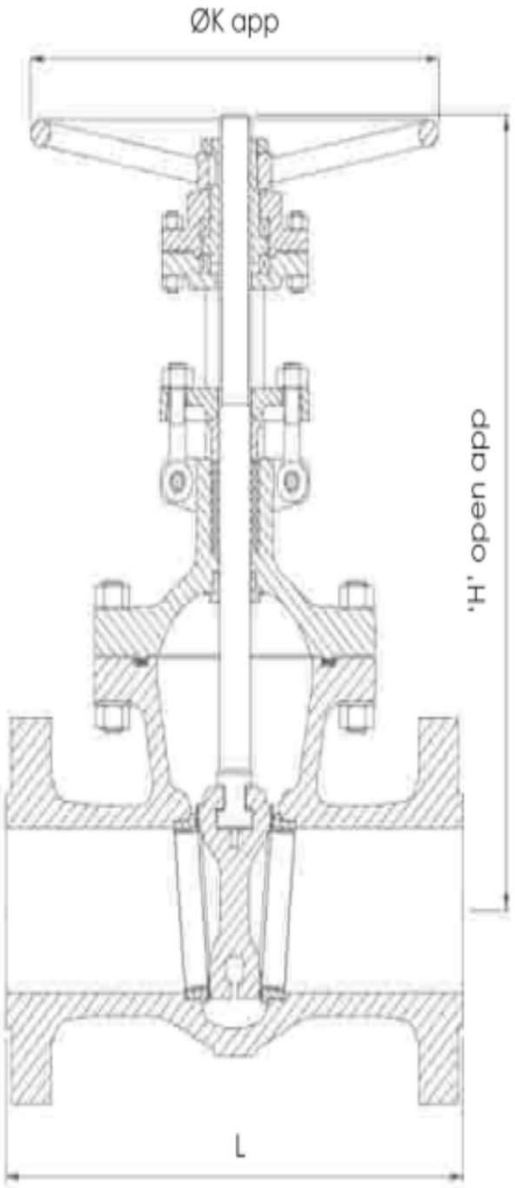
CLASS 150

FIG SV1050



CLASS 300

FIG SV1030



CLASS #600

FIG SV1060

Willwin Enterprises

AABIRA AL KHALEEJ

GATE VALVE CLASS 150 - 300 – 600 API 600 - BS1414

LENGTH ANSI B16.10 - FLANGE ANSI B16.5

Willwin Enterprises

AABIRA AL KHALEEJ

DIMENSION TABEL #150															
SIZE in	2	2.5	3	4	5	6	8	10	12	14	16	18	20	22	24
mm	50	65	80	100	125	150	200	250	300	350	400	450	500	550	600
L	7.0 178	7.5 190	8.0 203	9.0 229	10.0 254	10.5 267	11.5 292	13.0 330	14.0 3.36	15.0 381	16.0 406	17.0 432	18.0 457	19.0 483	20.0 508
L1	8.5 216	9.5 241	11.12 282.5	12.0 305	15.0 381	15.9 403	16.5 449	18.0 457	19.8 502	22.5 572	24.0 610	26.0 660	28 711	30.0 762	32.0 813
H app	400	445	485	600	725	765	985	1220	1395	1500	1775	2000	2210	2530	2725
ØK app	200	200	250	250	300	300	350	450	500	559	559	610	610	660	660
Wt. kg app	20	28	33	55	70	90	130	225	330	450	530	625	825	1150	1210

DIMENSION TABEL #300															
SIZE in	2	2.5	3	4	5	6	8	10	12	14	16	18	20	22	24
mm	50	65	80	100	125	150	200	250	300	350	400	450	500	550	600
L	8.5 216	9.5 241	11.12 282.5	12.0 305	15.0 381	15.88 403	16.5 149	18.0 457	19.8 502	30.0 762	33.0 838	36.0 914	39.0 991	43.0 1092	45.0 1143
L1	8.5 216	9.5 241	11.12 282.5	12.0 305	15.0 381	15.88 403	16.5 419	18.0 457	19.8 502	30.0 762	33.0 838	36.0 914	39.0 991	43.0 1092	45.0 1143
H app	410	450	485	615	725	835	1015	1230	1555	1720	1970	2160	2410	2550	2810
ØK app	200	250	250	300	350	350	450	500	500	600	600	680	760	760	760
Wt. kg app	32	35	55	80	100	150	225	350	480	745	1060	1325	1725	1900	2570

GATE VALVE

CLASS 150 - 300 – 600 API 600 - BS1414
LENGTH ANSI B16.10 - FLANGE ANSI B16.5

Willwin Enterprises

AABIRA AL KHALEEJ

DIMENSION TABEL #600															
SIZE	in	2	2.5	3	4	5	6	8	10	12	14	16	18	20	22	24
	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	550	600
L		11.5 292	13.0 330	14.0 356	17.0 432	20.0 508	22.0 559	26.0 660	31.0 787	33.0 838	35.0 889	39.0 991	43.0 1092	47.0 1194	51.0 1292	55.0 1397
L1		11.5 209	13.0 330	12.0 356	17.0 432	20.0 508	22.0 559	26.0 660	31.0 787	33.0 838	35.0 889	39.0 991	43.0 1092	47.0 1194	51.0 1295	55.0 1397
H app		410	485	560	705	800	895	1125	1400	1535	1825	1955	2140	2310	2680	2680
ØK app		250	250	350	450	500	500	600	680	760	760	760	760	813	889	500
Wt. kg app		32	56	72	136	170	245	432	780	835	1190	1690	2010	2400	2650	3700

GATE VALVE CLASS 150 - 300 – 600 API 600 - BS1414

LENGTH ANSI B16.10 - FLANGE ANSI B16.5

Willwin Enterprises

AABIRA AL KHALEEJ

PARTS	MATERIAL SPECIFICATION		
BODY	WCB	WC6	CF8/CF8M
BONNET	WCB	WC6	CF8/CF8M
YOKE	WCB	WC6	CF8/CF8M
WEDGE	13 CR. FACING ON WCB	13 CR. FACING ON WC6	CF8/CF8M
SEAT RING	13 CR. FACING ON A5 15-70	S.S. 304	T304 / T316 CF8 / CF8M
BACK SEAT	T410		INTEGRAL
SPINDLE	T410		T304/T316
GLAND BUSH	T410		T304/T316
GLAND FLANGE	GARBON STEEL / WCB		S.S 304
YOKE SLEEVE	ASTM A 439 GR.D2/ AL-BRONZE		
YOKE NUT	ASTM A 515-70		S.S 304
HAND WHEEL	CARBON STEEL		
HAND WHEEL NUT	CARBON STEEL		S.S 304
STUD & NUT	B7/2H	B16/7	B7/2H
EYE BOLT & NUT	B7/ 2H		B8/ 8
GROSS BOLT & NUT	B7/ 2H		B8/ 8
GASKET	CORR. SOFT IRON	CORR. S.S 304	CORR. S.S 304/316
GLAND PACKING	GRAPHITE ASB. INHIB. & INCONEL WIRE REIN. /GRAPHOIL		
GRUB SCREW	STEEL		
GREASE NIPPLE	BRASS / STEEL		
NAME PLATE	ALUMINIUM/SS		

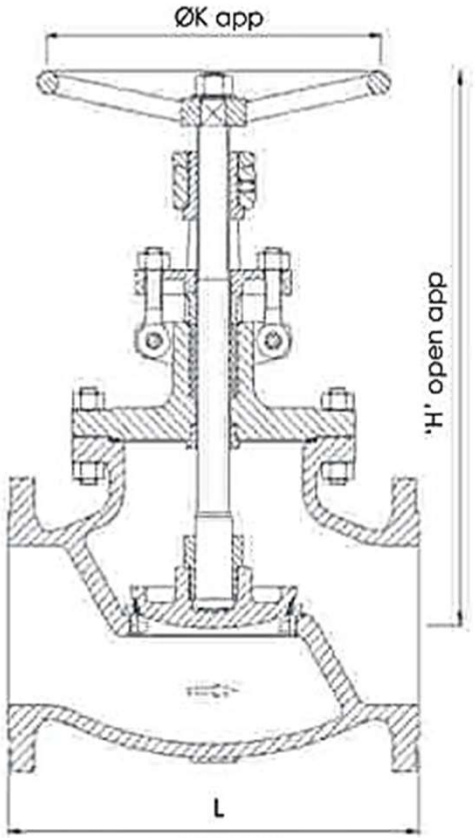
GLOBE VALVE

CLASS 150 - 300 – 600 BS1873

LENGTH ANSI B16.10 - FLANGE ANSI B16.5

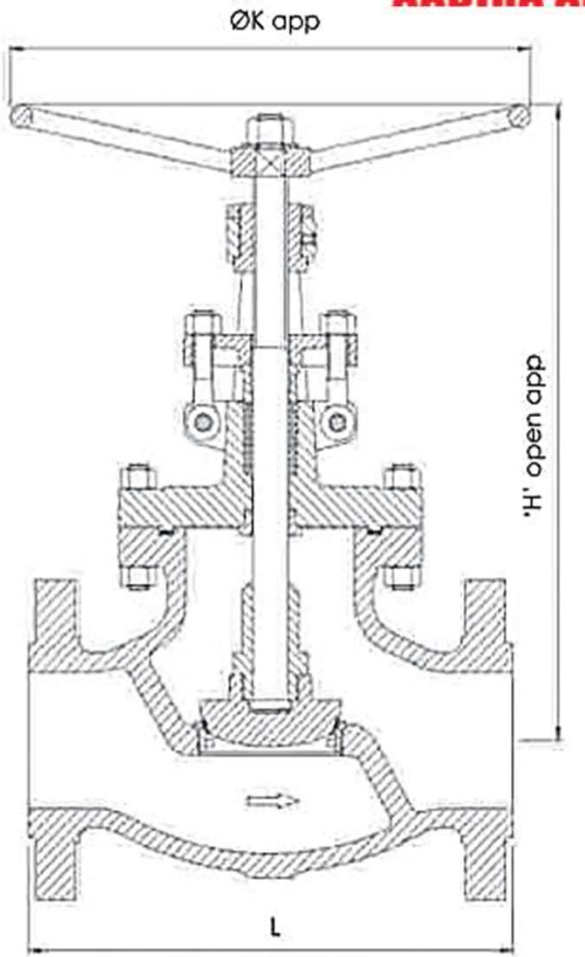
AABIRA AL KHALEEJ

Willwin Enterprises



CLASS 150

FIG 2015



CLASS 300 / 600

FIG 2030

GLOBE VALVE CLASS 150 - 300 – 600 BS1873

LENGTH ANSI B16.10 - FLANGE ANSI B16.5

Willwin Enterprises

AABIRA AL KHALEEJ

DIMENSION TABEL #150															
SIZE in	2	2.5	3	4	R	6	8	10	12	14	16	18	20	22	24
mm	50	65	80	100	ⓡ	150	200	250	300	350	400	450	500	550	600
L	8.0 203	8.5 216	9.5 241	11.5 292	14.0 356	16.0 406	19.5 495	24.5 622	27.5 698	31.0 787	36.0 914	38.5 978	38.5 978	42.0 1067	51.0 1295
L1	8.0 203	8.5 216	9.5 241	11.5 292	14.0 356	16.0 406	19.5 495	24.5 622	27.5 698	31.0 787	36.0 914	38.5 978	38.5 978	42.0 1067	51.0 1295
H app	320	330	380	480	525	575	650	780	935	1185	1250	1350	1410	1525	1650
ØK app	200	200	250	300	300	350	450	500	600	700	750	800	800	850	900
Wt. kg app	20	30	38	57	75	98	155	225	360	580	800	910	1100	1300	1450

DIMENSION TABEL #300													
SIZE in	2	2.5	3	4	5	6	8	10	12	12	16	18	20
mm	50	65	80	100	125	150	200	250	300	350	400	450	500
L	10.5 267	11.5 292	12.5 318	14.0 356	15.7 400	17.5 444	22.0 559	24.5 622	28.0 711	33.0 8.38	34.0 864	38.5 978	40.0 1016
L1	10.5 267	11.5 292	12.5 318	14.0 356	15.7 400	17.5 444	22.0 559	24.5 622	28.0 711	33.0 838	34.0 864	38.5 978	40.0 1016
H app	360	410	450	530	590	650	735	825	950	1145	1370	1422	1475
ØK app	200	250	300	350	400	450	600	700	750	800	800	850	900
Wt. kg app	30	45	60	95	125	150	235	390	590	965	1115	1400	1800

GLOBE VALVE CLASS 150 - 300 – 600 BS1873

LENGTH ANSI B16.10 - FLANGE ANSI B16.5

PARTS	MATERIAL SPECIFICATION		
BODY	WCB	WC6	CF 8/CF8M
BONNET	WCB	WC6	CF 8/CF8M
PLUG	CA15/13 CR. FACING ON WCB	WC6+ 13 CR. FACING	CF 8/ CF8M
SEAT RING	CA15/A515-70/ 13 CR. FACING	S.S. 304	CF 8/CF8M
BACK SEAT	T410		INTEGRAL
SPINDLE	T410		T304/T316
GLAND BUSH	T410		T304/T316
GLAND FLANGE	CARBON STEEL/WCB		S.S 304
YOKE NUT	ASTM A 439 GR.D2/ AL-BRONZE		
PLUG NUT	T410		T304
HAND WHEEL	CARBON STEEL		
HAND WHEEL NUT	GR. 2H		S.S 304
STUD & NUT	B7/2H	B16/7	B7/2H
EYE BOLT & NUT	B7/ 2H		B8/ 8
CROSS BOLT & NUT	B7/ 2H		B8/ 8
GASKET	SPW S.S 304/ 316 WITH CAF		
GLAND PACKING	GRAPHITE ASB.INHIB. & INCONEL WIRE REIN./GRAPHOIL		
THRUST WASHER	T410 (HARDENED STEEL)		T304/ T316
WASHER	STEEL		
GRUB SCREW	STEEL		
LOCK NUT	STEEL		
NAME PLATE	ALLIMINIUM/SS		

AABIRA AL KHALEEJ

Willwin Enterprises

DIMENSION TABEL #600									
SIZE in	2	2.5	3	4	5	6	8	10	12
mm	50	65	80	100	125	150	200	250	300
L	11.5 292	13.0 330	14.0 356	17.0 432	20.0 508	22.0 559	26.0 660	31.0 787	33.0 838
L1	11.5 292	13.0 330	14.0 356	17.0 432	20.0 508	22.0 559	26.0 660	31.0 787	33.0 838
H app	400	425	490	635	685	740	975	1080	1230
ØK app	250	300	350	400	450	500	600	650	700
Wt. kg app	35	40	68	128	185	250	435	825	910

SWING CHECK VALVE

CLASS 150 - 300 – 600 BS1868

LENGTH ANSI B16.10 - FLANGE ANSI B16.5

AABIRA AL KHALEEJ

Willwin Enterprises

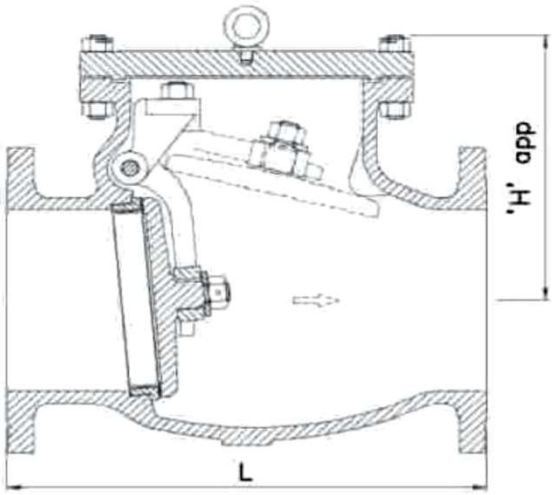
PARTS	MATERIAL SPECIFICATION		
BODY	WCB	WC6	CF8/ CF8M
DISC	CA15/13 Cr. FACING ON WCB	WC6+13 Cr	CF8/ CF8M
SEAT RING	CA15/A515GR70+ 13CCR. FACING	SS 304	T304/ T316
TOP COVER	WCB /GR 70	WC6	CF8/ CF8M
STUD & NUT	B7/2H	B16/7	B7/2H
BRACKET STUD & NUT	B8/ 8		
GASKET	SPW S.S 304/316 WITH CAF		
WASHER	T410	T304	T316
DISC NUT	GR 8		
HINGE PIN	T410	T304	T316
SPLIT PIN	T410	T304	T316
NAME PLATE	ALUMINIUM/SS		
HINGE	WCB /GR 70	WC6/GF8	CF8/ CF8M
HINGE BRACKET	WCB /GR 70	WC6/GF8	CF8/ CF8M
LIFTING EYE BOLT	ASTM A 105		

SWING CHECK VALVE CLASS 150 - 300 – 600 BS1868

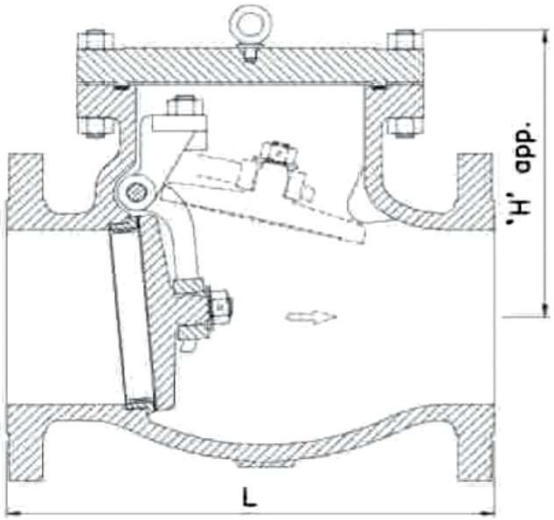
LENGTH ANSI B16.10 - FLANGE ANSI B16.5

AABIRA AL KHALEEJ

Willwin Enterprises



CLASS 150
FIG SV4015



CLASS 300
FIG SV4030

DIMENSION TABEL #150															
SIZE	in	2	2.5	3	4	5	6	8	10	12	14	16	18	20	22	24
	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	550	600
L		8.0	8.5	9.5	11.5	13.0	14.0	19.5	24.5	27.5	31.0	34.0	38.5	38.5	42.0	51.0
		203	216	241	292	330	356	495	622	698	787	864	978	978	1067	1295
L1		8.0	8.5	9.5	11.5	13.0	14.0	19.5	24.5	27.5	31.0	34.0	38.5	38.5	42.0	51.0
		203	216	241	292	330	356	495	622	698	787	864	978	978	1067	1295
H app		145	165	170	202	225	255	300	340	485	465	595	545	600	695	750
Wt. kg app		18	25	32	52	56	92	136	220	345	485	570	770	1055	1255	1325

DIMENSION TABEL #300														
SIZE	in	2	2.5	3	4	5	6	8	10	12	14	16	18	20
	mm	50	65	80	100	125	150	200	250	300	350	400	450	500
L		10.5	11.5	12.5	14.0	15.7	17.5	21.0	24.5	28.0	33.0	34.0	38.5	40.0
		267	292	318	356	400	444	533	622	711	838	864	978	1016
L1		10.5	11.5	12.5	14.0	15.7	17.5	21.0	24.5	28.0	33.0	34.0	38.5	40.0
		267	292	318	356	400	444	533	622	711	838	864	978	1016
H app		155	215	185	220	245	275	300	375	430	520	560	686	610
Wt. kg app		25	40	60	80	105	130	215	345	470	685	998	1050	1200

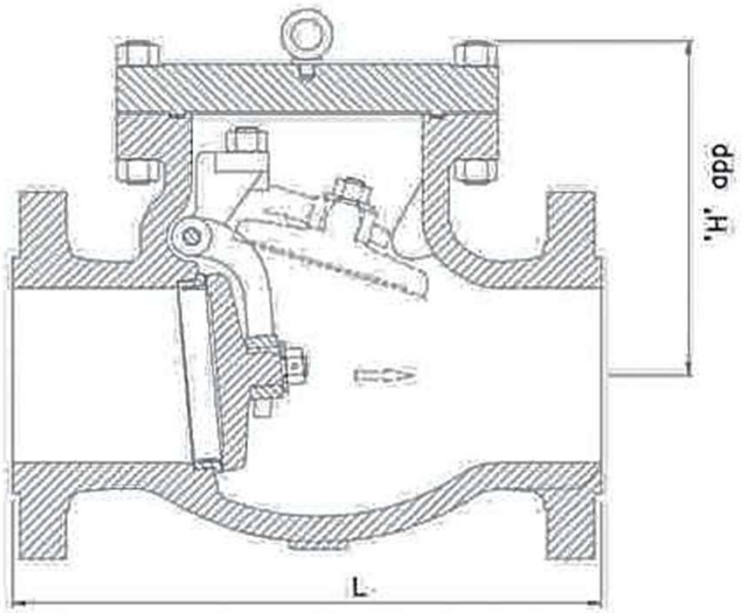
SWING CHECK VALVE CLASS 150 - 300 – 600 BS1868

LENGTH ANSI B16.10 - FLANGE ANSI B16.5

Willwin Enterprises

AABIRA AL KHALEEJ

DIMENSION TABEL #600												
SIZE	in mm	2 50	2.5 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400
L		11.5 292	13.0 330	14.0 356	17.0 432	20.0 508	22.0 559	26.0 660	31.0 787	33.0 838	35.0 889	39.0 991
L1		11.5 292	13.0 330	14.0 356	17.0 432	20.0 508	22.0 559	26.0 660	31.0 787	33.0 838	35.0 889	39.0 991
H app		160	260	230	280	290	330	360	475	555	580	665
Wt. kg app		29	55	65	115	145	250	405	620	815	970	1215



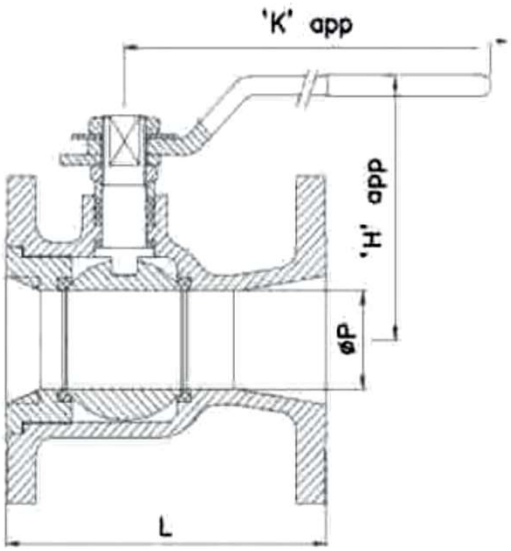
CLASS 600
FIG SV4060

BALL VALVE CLASS 150 - 300 – 800 BS5351

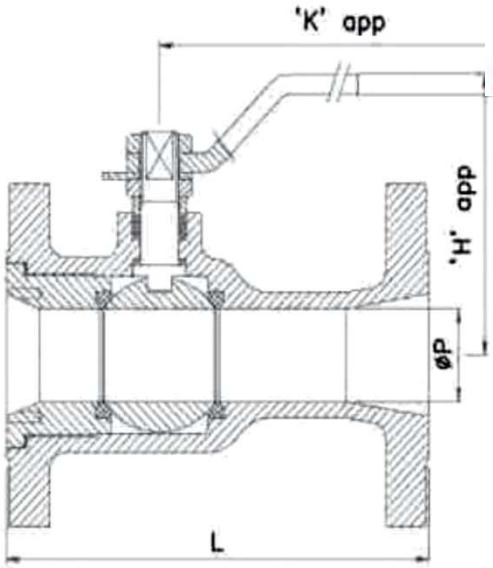
LENGTH 150/300 ANSI B16.10 - FLANGE ANSI B16.5

AABIRA AL KHALEEJ

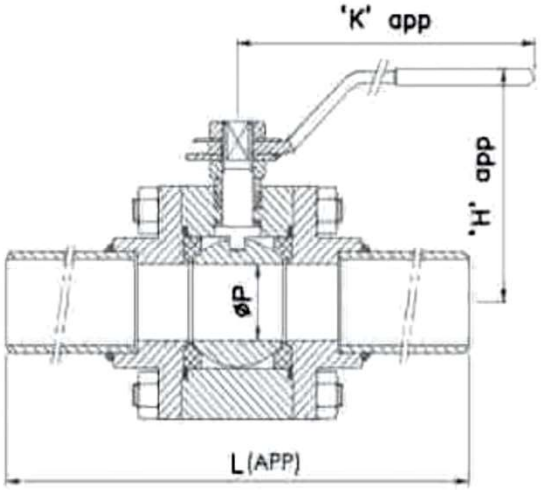
Willwin Enterprises



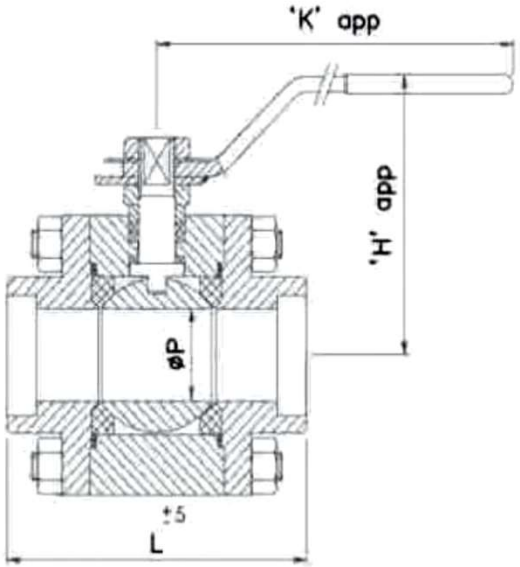
CLASS 150
FIG SV50151R



CLASS 300
FIG SV50301R



CLASS 800 WITH NIPPLE
FIG 5080E



CLASS 800
FIG 5080SW

DIMENSION TABLE #150
FLOATING BALL VALVE 1-PIECE REDUCE BORE

SIZE	in mm	1 25	1.5 40	2 50	2.5 6.5	3 80	4 100	6 150
L		5.0 127	6.5 165	7.0 178	7.5 190	8.0 203	9.0 229	10.5 267
H app		9.5	100	125	140	175	195	235
K app		220	220	220	320	320	385	500
ØP		17	28	36	50	57	75	98
Wt. kg app		3	6	8.5	17	21	30	42

DIMENSION TABLE #300
FLOATING BALL VALVE 1-PIECE REDUCE BORE

SIZE	in mm	1 25	1.5 40	2 50	2.5 6.5	3 80	4 100	6 150
L		5.0 127	6.5 165	7.0 178	7.5 190	8.0 203	9.0 229	10.5 267
H app		9.5	100	125	140	175	195	235
K app		220	220	220	320	320	385	500
ØP		17	28	36	50	57	75	98
Wt. kg app		3	6	8.5	17	21	30	42

BALL VALVE CLASS 150 - 300 – 800 BS5351

LENGTH 150/300 ANSI B16.10 - FLANGE ANSI B16.5

AABIRA AL KHALEEJ

Willwin Enterprises

PARTS	MARERIAL SPECIFICATION		
BODY	WCB/A105	CF8	CF8M
BALL	T304/CF8/CF8M		T316/CF8M
SEAT	PTFE		
SPINDLE	T410/T304/316	T304	T316
GLAND BUSH	T410/T304/316	T304	T316
HANDLE	STEEL WITH PVC CAP		
HANDLE NUT	STEEL		T304
STUD & NUT		B7/ 2H	
GASKET	PTFE		
GLAND PACKING	PTFE		
BOTTOM WASHER	PTFE		
END PIECE	WCB	CF8	CF8M
GLAND NUT	CARBON STEEL	T304	T316
NAME PLATE	ALUMINIUM/SS		
POSITION INDICATOR	ALUMINIUM/SS		

DIMENSION TABLE #800
BALL VALVE WITH NIPPLE

SIZE	in mm	0.5 15	0.75 20	1 25	1.25 32	1.5 40	2 50
L		10.8 275	11.0 280	11.8 300	12.4 315	12.6 320	13.8 350
H app		70	80	90	105	110	125
K app		130	140	160	240	240	240
ØP		12	19	24	30	37	50
Wt. kg app		1.4	2	3.5	6	7	8

DIMENSION TABLE #800
SOCKET / SCREWED END

SIZE	in mm	0.5 15	0.75 20	1 25	1.25 32	1.5 40	2 50
L		3.1 80	3.3 85	3.9 100	4.5 115	5.1 130	5.9 150
H app		70	80	90	105	110	125
K app		130	140	160	240	240	240
ØP		12	19	24	30	37	50
Wt. kg app		1.4	2	3.5	6	7	8

BALL VALVE

CLASS 150 - 300 – 800 BS5351

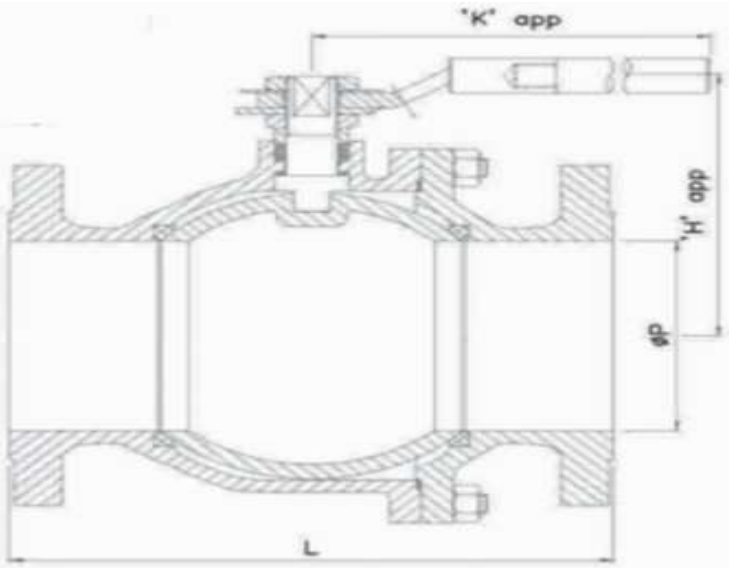
LENGTH 150/300 ANSI B16.10 - FLANGE ANSI B16.5

AABIRA AL KHALEEJ

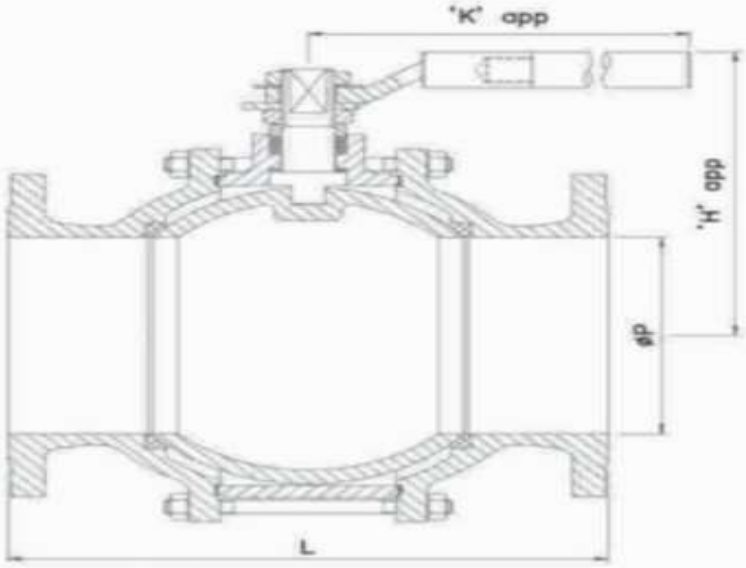
Willwin Enterprises

BALL VALVE CLASS 150 - 300 BS5351

LENGTH ANSI B16.10 - FLANGE ANSI B16.5



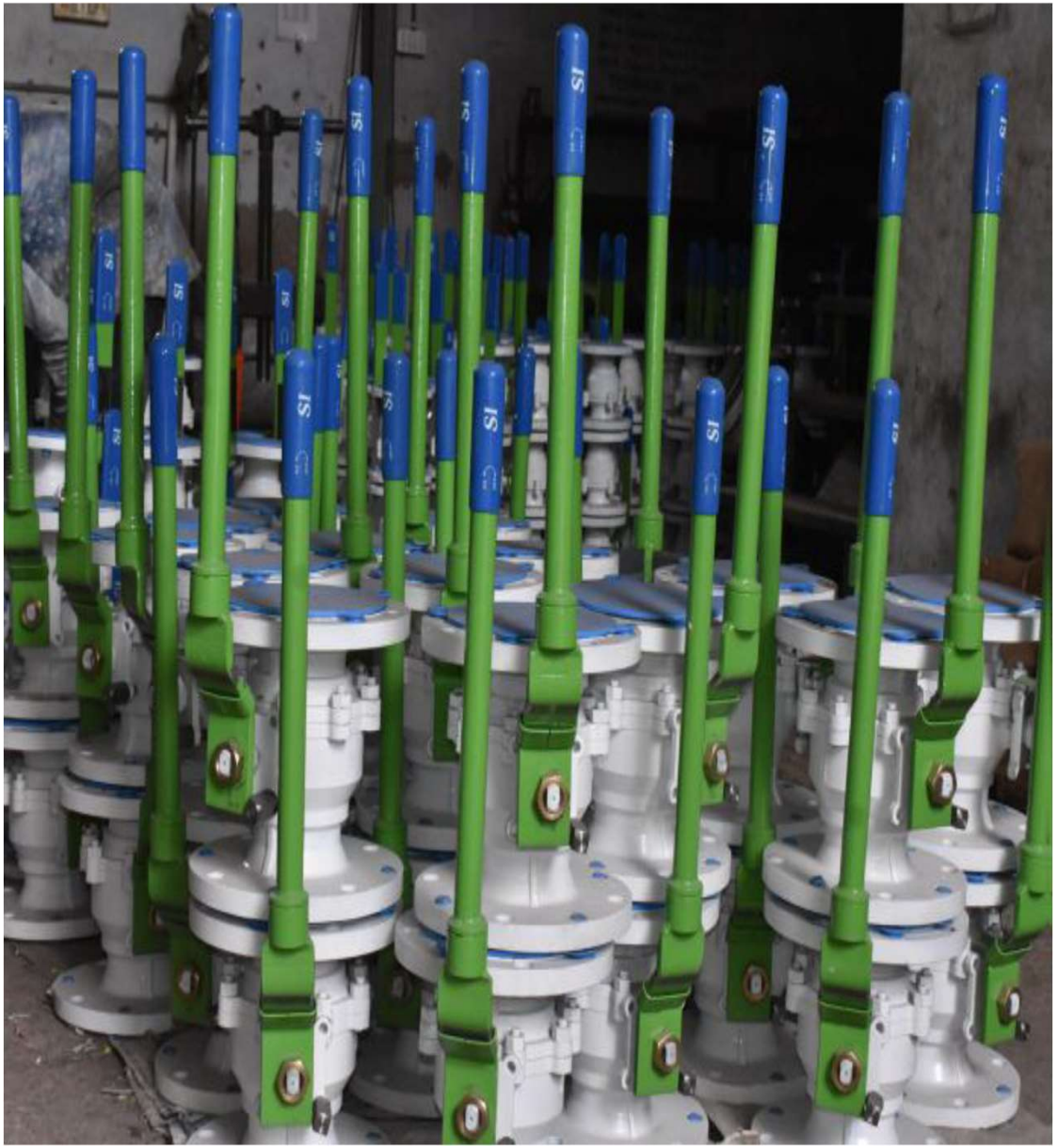
CLASS 150/300 2PIECE
FIG SV50152F



CLASS 150/300 3PIECE
FIG SV50153F

AABIRA AL KHALEEJ

Willwin Enterprises



BALL VALVE CLASS 150 - 300 BS5351

LENGTH ANSI B16.10 - FLANGE ANSI B16.5

AABIRA AL KHALEEJ

Willwin Enterprises

DIMENSION TABLE #150
FLOATING BALL VALVE 2-3 PIECE FULL BORE

SIZE in / mm	1.5 / 40	2 / 50	2.5 / 6.5	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300
L	6.5 / 165	7.0 / 178	7.5 / 191	8.0 / 203	9.0 / 229	15.5 / 394	18.0 / 457	21.0 / 533	24.0 / 610
H app	100	125	140	150	180	270	325	390	540
K app	220	220	320	320	385	500	600	450	450
ØP	37	49	64	75	98	148	198	248	298
Wt. kg app	9	14	20	27	40	90	165	225	325

DIMENSION TABLE #300
FLOATING BALL VALVE 2-3 PIECE FULL BORE

SIZE in / mm	1.5 / 40	2 / 50	2.5 / 65	3 / 80	4 / 100	6 / 150	8 / 200
L	7.5 / 190	8.5 / 216	9.5 / 241	11.1 / 282	12.0 / 305	15.9 / 403	19.75 / 502
H app	120	135	150	170	190	300	360
K app	220	220	320	320	385	500	450
ØP	37	49	64	75	98	148	198
Wt. kg app	12	18	28	35	55	110	235

PARTS	MARERIAL SPECIFICATION		
BODY	WCB	CF8	CF8M
BALL	T304/CF8/CF8M		T316/CF8M
SEAT	PTFE		PTFE
SPINDLE	T410/T304/316	T304	T316
GLAND BUSH	T410/T304/316	T304	T316
HANDLE	STEEL		
HANDLE NUT	STEEL	T304	
STUD & NUT	B7/2H		
GASKET	PTFE		
GLAND PACKING	PTFE		
BOTTOM WASHER	PTFE		
END PIECE	WCB	CF8	CF8M
GLAND NUT	CARBON STEEL	T304	T316
NAME PLATE	ALUMINIUM/SS		
POSITION INDICATOR	ALUMINIUM/SS		

FORGED STEEL GATE / GLOBE VALVE

CLASS 800 BS5352 / AP1602

AABIRA AL KHALEEJ

Willwin Enterprises

DIMENSION TABLE #150
FLOATING BALL VALVE 2-3 PIECE FULL BORE

SIZE in / mm	1.5 / 40	2 / 50	2.5 / 6.5	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300
L	6.5 / 165	7.0 / 178	7.5 / 191	8.0 / 203	9.0 / 229	15.5 / 394	18.0 / 457	21.0 / 533	24.0 / 610
H app	100	125	140	150	180	270	325	390	540
K app	220	220	320	320	385	500	600	450	450
ØP	37	49	64	75	98	148	198	248	298
Wt. kg app	9	14	20	27	40	90	165	225	325

DIMENSION TABLE #300
FLOATING BALL VALVE 2-3 PIECE FULL BORE

SIZE in / mm	1.5 / 40	2 / 50	2.5 / 65	3 / 80	4 / 100	6 / 150	8 / 200
L	7.5 / 190	8.5 / 216	9.5 / 241	11.1 / 282	12.0 / 305	15.9 / 403	19.75 / 502
H app	120	135	150	170	190	300	360
K app	220	220	320	320	385	500	450
ØP	37	49	64	75	98	148	198
Wt. kg app	12	18	28	35	55	110	235

PARTS	MARERIAL SPECIFICATION		
BODY	WCB	CF8	CF8M
BALL	T304/CF8/CF8M		T316/CF8M
SEAT	PTFE		PTFE
SPINDLE	T410/T304/316	T304	T316
GLAND BUSH	T410/T304/316	T304	T316
HANDLE	STEEL		
HANDLE NUT	STEEL	T304	
STUD & NUT	B7/2H		
GASKET	PTFE		
GLAND PACKING	PTFE		
BOTTOM WASHER	PTFE		
END PIECE	WCB	CF8	CF8M
GLAND NUT	CARBON STEEL	T304	T316
NAME PLATE	ALUMINIUM/SS		
POSITION INDICATOR	ALUMINIUM/SS		

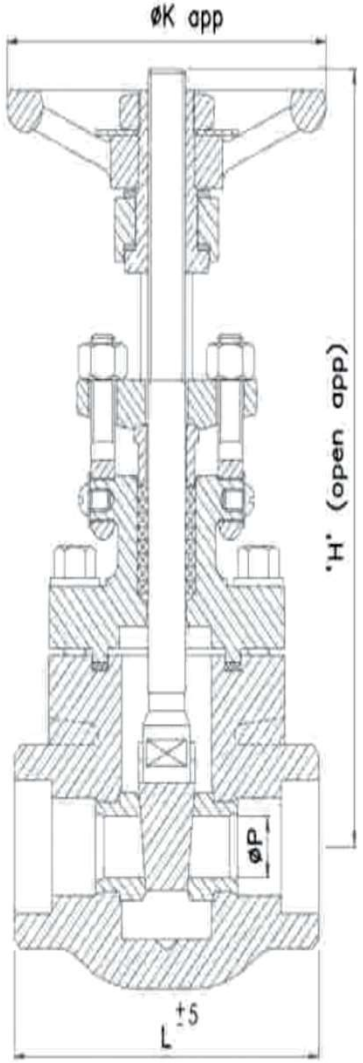
FORGED STEEL GATE / GLOBE VALVE
CLASS 800 BS5352 / AP1602

AABIRA AL KHALEEJ

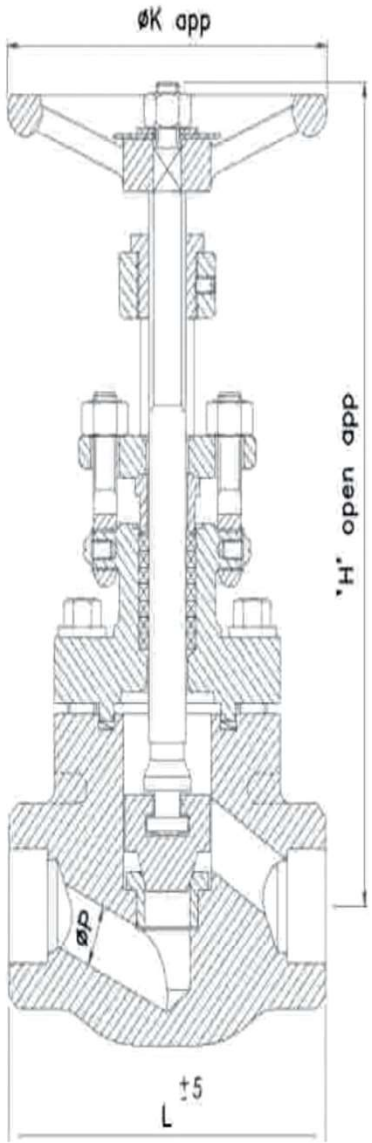
Willwin Enterprises

DIMENSION TABLE GATE VALVE REDUCE BORE							
SIZE in / mm	0.25 / 08	0.37 / 10	0.5 / 15	0.75 / 20	1 / 25	1.5 / 40	2 / 50
L	3.3 / 85	3.3 / 85	3.3 / 85	3..5 / 90	4 / 103	5 / 128	5.6 / 142
H app	165	165	165	175	215	270	285
ØK app	95	95	95	95	105	150	150
ØP	6.4	6.4	9.5	12.7	17.5	28.6	36.5
Wt. kg app	2.0	2.0	2.0	2.5	3.5	7.5	9.0

DIMENSION TABLE GATE VALVE FULL BORE						
SIZE in / mm	0.25 / 08	0.37 / 10	0.5 / 15	0.75 / 20	1 / 25	1.5 / 40
L	3.3 / 85	3.3 / 85	3.5 / 90	3.5 / 90	4 / 103	5 / 128
H app	165	165	175	175	225	270
ØK app	95	95	95	95	105	150
ØP	6.0	9.0	12.0	18.0	23.0	36.0
Wt. kg app	2.0	2.0	2.5	3.5	7.5	7.5



CLASS 800
FIG SV F1080



CLASS 800
FIG SV F2080

FORGED STEEL GATE / GLOBE VALVE

CLASS 800 BS5352 / AP1602

AABIRA AL KHALEEJ

Willwin Enterprises

PARTS	MARERIAL SPECIFICATION		
BODY	A105	F304	F306
BONNET	A105	F304	F316
WEDGE/PLUG	13CR.	T304	T316
SEAT	13CR.	T304	T316
SPINDLE	T410	T304	T316
GLAND BUSH	T410	T304	T316
GLAND FLANGE	A105	F304	
YOKE SLEEVE YOKE NUT	ASTM A 439 GR.D2/ AL-BRONZE		
HAND WHEEL	CAST STEEL		
HAND WHEEL NUT		GR. 2H	
COLLAR BOLT/ STUD & NUT	B7/ 2H	B8/ 8 OR B7 / 2H	
EYE BOLT & NUT	B7/ 2H	B8/ 8H	
GASKET	SPW S.S 304/316 WITH CAF/ GRAFOIL		
GLAND PACKING	GRAPHITE ASBESTOS INHIB. & INCONEL WIRE REIN.		
SCREW/RIVET & WASHER	STEEL		
BEARING WASHER	HARDENED STEEL	T304	T316
GRUB SCREW	GR.B7		
GREASE NIPPLE	C.S (NICKLE PLATED)		
NAME PLATE	ALUMINIUM/SS		

DIMENSION TABLE
GLOBE VALVE REDUCE BORE

SIZE in / mm	0.25 / 08	0.37 / 10	0.5 / 15	0.75 / 20	1 / 25	1.5 / 40	2 / 50
L	3.3 / 85	3.3 / 85	3.3 / 85	3..5 / 90	4 / 103	5 / 128	5.6 / 142
H app	170	170	170	185	210	280	290
ØK app	95	95	95	95	105	150	150
ØP	6.0	6.0	9.0	12.0	17.5	29.5	35.0
Wt. kg app	2.0	2.0	2.0	2.5	4.0	8.5	9.0

GLOBE VALVE REDUCE BORE

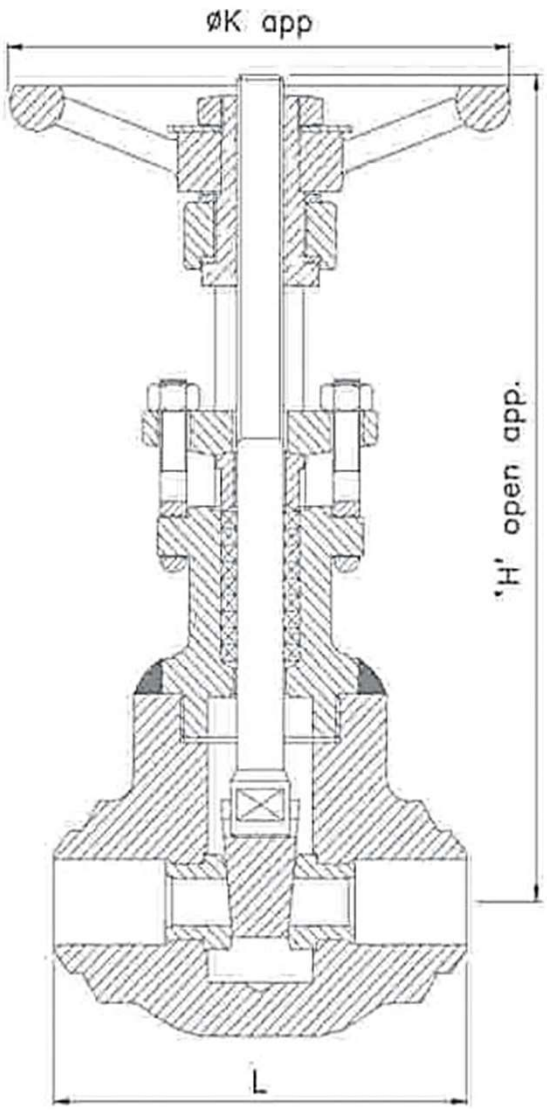
SIZE in / mm	0.25 / 08	0.37 / 10	0.5 / 15	0.75 / 20	1 / 25	1.5 / 40
L	3.3 / 85	3.3 / 85	3.3 / 90	4 / 103	5 / 128	5 / 128
H app	170	170	170	210	280	280
ØK app	95	95	95	108	150	150
ØP	6.0	9.0	12.0	17.5	29.5	35.0
Wt. kg app	2.0	2.0	2.5	4.0	8.5	9.0

WELDED BONNET FORGED STEEL VALVES

CLASS 1500 - 2500 BS5352 / API 602 ASME B16.34

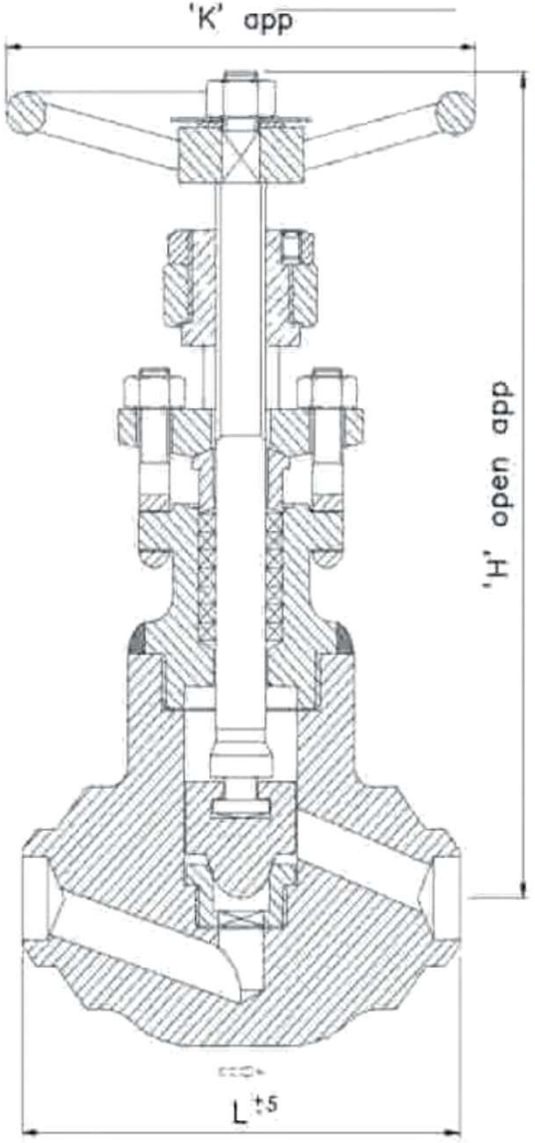
AABIRA AL KHALEEJ

Willwin Enterprises



GATE VALVE

FIG SVF1150 - SVF1250



GLOBE VALVE

FIG SVF2150 - SVF2250

DIMENSION TABLE # 1500 GATE VALVE							
SIZE	in	0.25	0.37	0.5	0.75	1	1.5
	mm	08	10	15	20	25	40
L		90	90	103	103	128	142
H app		160	160	205	205	260	275
ØP		105	105	140	140	150	150
Wt. kg app		2.6	2.6	3.6	3.6	7.6	10

WELDED BONNET FORGED STEEL VALVES

CLASS 1500 - 2500 BS5352 / API 602 ASME B16.34

AABIRA AL KHALEEJ

Willwin Enterprises

DIMENSION TABLE # 1500 GLOBE VALVE							
SIZE	in	0.25	0.37	0.5	0.75	1	1.5
	mm	08	10	15	20	25	40
L		90	90	103	103	128	142
H app		160	160	205	205	270	285
ØP		105	105	140	140	150	150
Wt. kg app		2.6	2.6	3.6	3.6	7.6	10

DIMENSION TABLE # 2500 GATE VALVE							
SIZE	in	0.25	0.37	0.5	0.75	1	1.5
	mm	08	10	15	20	25	40
L		90	90	103	128	128	142
H app		160	160	205	260	260	275
ØP		105	105	140	150	150	150
Wt. kg app		2.6	2.6	3.6	7.6	7.6	10

DIMENSION TABLE # 2500 GLOBE VALVE							
SIZE	in	0.25	0.37	0.5	0.75	1	1.5
	mm	08	10	15	20	25	40
L		90	90	103	128	128	142
H app		160	160	205	270	270	280
ØP		105	105	140	150	150	150
Wt. kg app		2.6	2.6	3.6	7.6	7.6	10

PARTS	MARERIAL SPECIFICATION		
BODY	A105	F304	F316
BONNET	A105	F304	F316
WEDGE/PLUG	13CR.	T304	T316
SEAT	13CR.	T304	T316
SPINDLE	T410	T304	T316
GLAND BUSH	T410	T304	T316
GLAND FLANGE	A105	F304	
YOKE SLEEVE YOKE NUT	ASTM A 439 GR.D2/ AL-BRONZE		
HAND WHEEL	CAST STEEL		
HAND WHEEL NUT	GR. 2H		
EYE BOLT & NUT	B7/ 2H	B8/ 8H	
GLAND PACKING	GRAPHITE ASBESTOS INHIB. & INCONEL WIRE REIN.		
SCREW/RIVET&WASHER	STEEL		
BEARING WASHER	HARDENED STEEL	T304	T316
GRUB SCREW	GR.B7		
GREASEE NIPPLE	C.S (NICKLE PLATED)		
NAME PLATE	ALUMINIUM/SS		

FORGED STEEL LIFT CHECK VALVE

CLASS 800 BS5352 / ASME B16.34

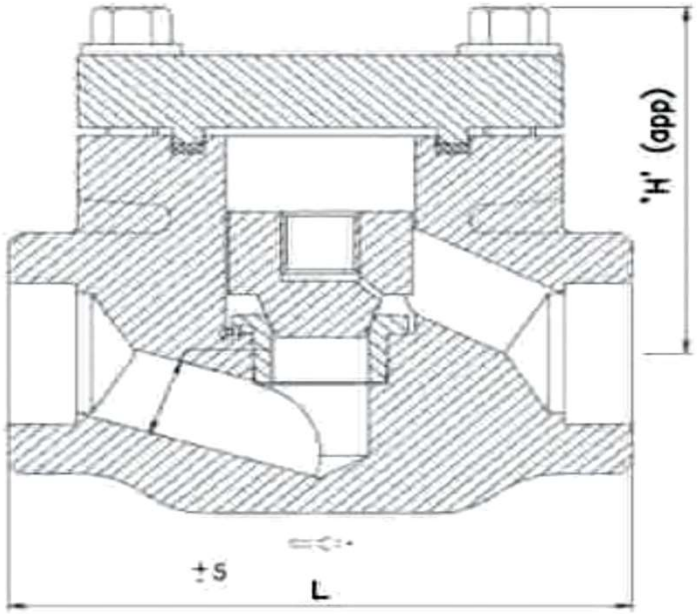
AABIRA AL KHALEEJ

Willwin Enterprises

DIMENSION TABLE # 800 REDUCE BORE							
SIZE in / mm	0.25 / 08	0.37 / 10	0.5 / 15	0.75 / 20	1 / 25	1.5 / 40	2 / 50
L	3.3 / 85	3.3 / 85	3.3 / 85	3.5 / 90	4 / 103	5 / 128	5.6 / 142
H app	60	60	60	70	80	105	115
ØP	-	6.0	9.0	12.0	17.5	29.5	35.0
Wt. kg app	1.5	1.5	1.5	2.0	2.5	6	8

DIMENSION TABLE # 800 FULL BORE						
SIZE in / mm	0.25 / 08	0.37 / 10	0.5 / 15	0.75 / 20	1 / 25	1.5 / 40
L	3.3 / 85	3.3 / 85	3.5 / 90	4 / 103	5 / 128	5.6 / 142
H app	60	60	70	80	105	115
ØP	6.0	9.0	120	17.5	22.5	35.0
Wt. kg app	1.5	1.5	2.0	2.5	6	8

PARTS	MARERIAL SPECIFICATION		
BODY	A105	F304	F316
PLUG	13%R.	F304	F316
SEAT RING	13%CR.	T304	T316
COVER	A105	F304	F316
YOKE SLEEVE YOKE NUT	B7 / 2H	B8 / 8 OR B7 / 2H	
GASKET	SPW S.S 304/316 WITH CAF / GRAFOIL		
NAME PLATE	ALUMINIUM/SS		



WELDED ON FLANGE FORGED STEEL VALVE

CLASS 150 - 300 – 600 BS5352

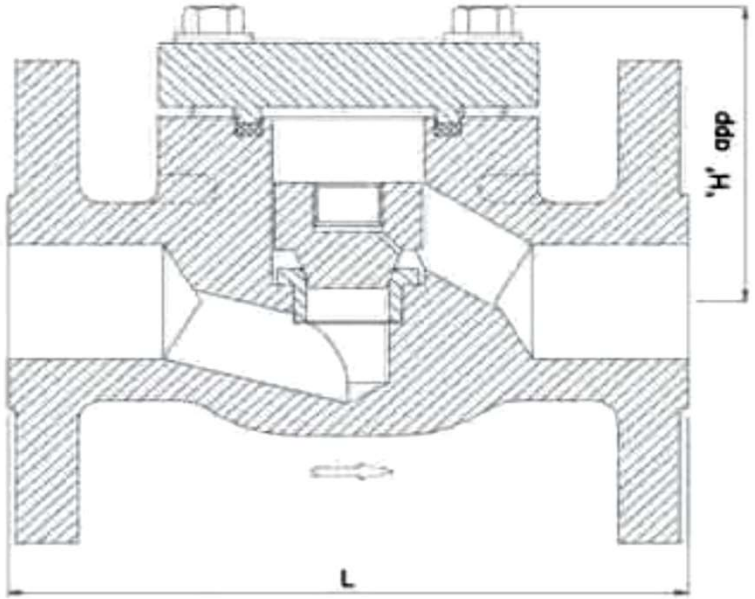
AABIRA AL KHALEEJ

Willwin Enterprises

DIMENSION TABLE # 150					
SIZE	in mm	0.5 15	0.75 20	1 25	1.5 40
L		4.25 108	4.6 118	5 127	6.5 165
H app		60	70	80	105
Wt. kg app		2	3	3.8	11.5

DIMENSION TABLE # 300					
SIZE	in mm	0.5 15	0.75 20	1 25	1.5 40
L		6.0 152.5	7.0 178	8.0 203	9.0 228.5
H app		60	70	80	105
Wt. kg app		2.5	3.5	7.5	12

DIMENSION TABLE # 600					
SIZE	in mm	0.5 15	0.75 20	1 25	1.5 40
L		6.5 165	7.5 190.5	8.5 216	9.5 241
H app		70	80	105	115
Wt. kg app		2.75	3.7	8.5	13.5



WELDED ON FLANGE FORGED GATE / GLOBE VALVE

CLASS 150 - 300 - 600 BS5352 / API 602

AABIRA AL KHALEEJ

Willwin Enterprises

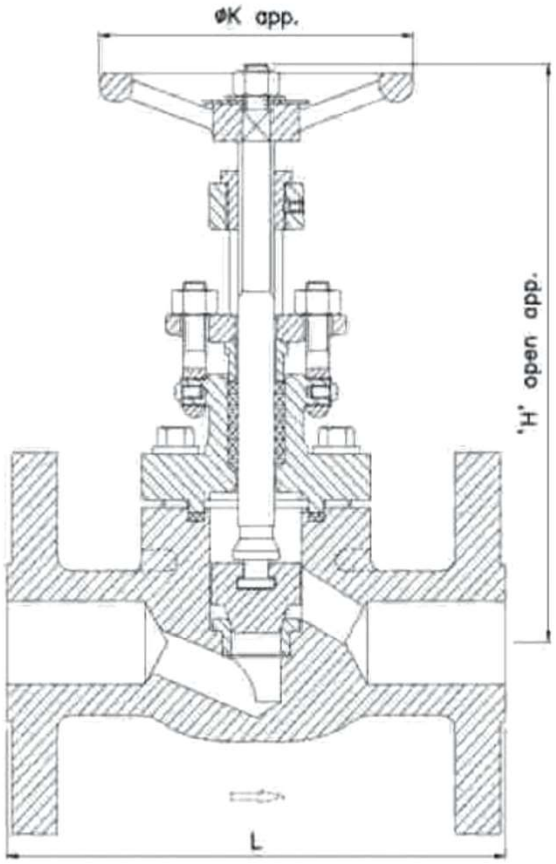


FIG SV2015WF - 2030WF - 2060WF

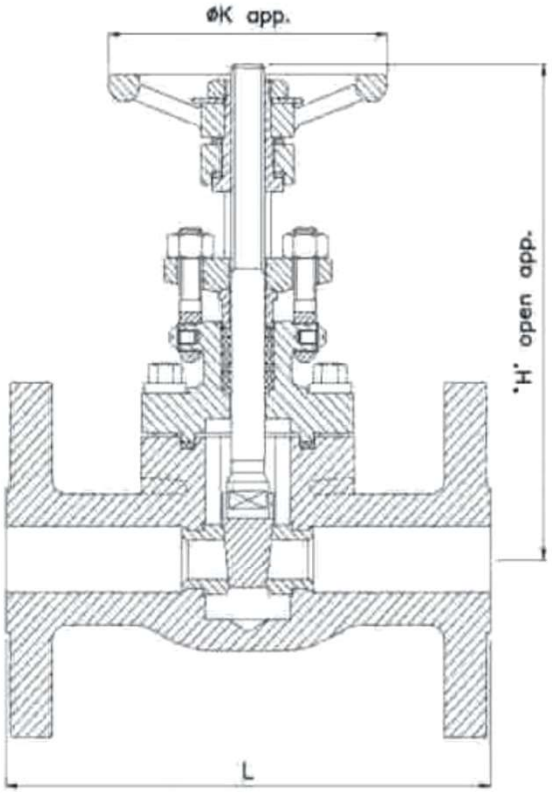
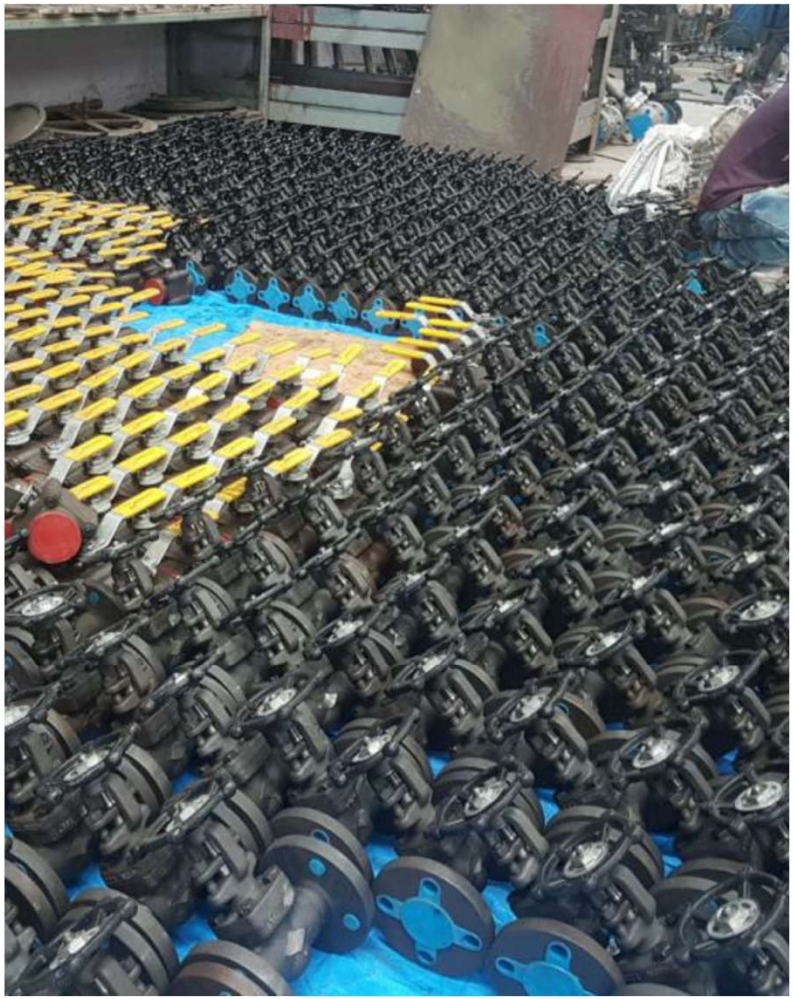


FIG SV1015WF - 1030WF - 1060WF



WELDED ON FLANGE FORGED GATE / GLOBE VALVE

CLASS 150 - 300 - 600 BS5352 / API 602

AABIRA AL KHALEEJ

Willwin Enterprises

DIMENSION TABLE # 150 GLOBE VALVE					
SIZE	in mm	0.5 15	0.75 20	1 25	1.5 40
L		4.25 108	4.6 117	5 127	6.5 165
H app		170	180	210	280
Øk app		95	95	105	150
Wt. kg app		3.0	4.5	6.0	10.0

DIMENSION TABLE # 150 GATE VALVE					
SIZE	in mm	0.5 15	075 20	1 25	1.5 40
L		4.25 108	4.6 117	5 127	6.5 165
H app		170	180	210	280
Øk app		95	95	105	150
Wt. kg app		3.0	4.5	6.0	10.0

DIMENSION TABLE # 300 GLOBE VALVE					
SIZE	in mm	0.5 15	0.75 20	1 25	1.5 40
L		6.0 152.5	7.0 178	8.0 203	9.0 228.5
H app		170	180	210	280
Øk app		95	95	105	150
Wt. kg app		4.0	6.0	8.0	17.0

DIMENSION TABLE # 300 GATE VALVE					
SIZE	in mm	0.5 15	0.75 20	1 25	1.5 40
L		5.5 140	6.0 152.5	6.5 165	7.5 192.5
H app		165	175	215	270
Øk app		95	95	105	150
Wt. kg app		4.0	5.0	7.5	13.5

DIMENSION TABLE # 600 GLOBE VALVE					
SIZE	in mm	0.5 15	0.75 20	1 25	1.5 40
L		6.5 165	7.5 90.5	8.5 216	9.5 241
H app		180	210	280	290
Øk app		95	105	150	150
Wt. kg app		4.5	6.5	8.5	17.5

DIMENSION TABLE # 600 GATE VALVE					
SIZE	in mm	0.5 15	075 20	1 25	1.5 40
L		6.5 165	7.5 190.5	8.5 216	9.5 241
H app		165	175	215	270
Øk app		95	95	105	150
Wt. kg app		4.5	5.5	8.5	17.5

WELDED ON FLANGE FORGED GATE / GLOBE VALVE

CLASS 150 - 300 - 600 BS5352 / API 602

Willwin Enterprises

AABIRA AL KHALEEJ

PARTS	MARERIAL SPECIFICATION		
BODY	A105	F304	F316
BONNET	A105	F304	F316
WEDGE/PLUG	13%CR.	T304	T316
SEAT	13%CR.	T304	T316
SPINDLE	T410	T304	T316
GLAND BUSH	T410	T304	T316
GLAND FLANGE	A105	F304	
YOKE NUT	ASTM A 439 GR.D2/ AL-BRONZE		
HAND WHEEL	CAST STEEL		
HAND WHEEL NUT	GR.2H		
COLLAR BOLT/ STUD & NUT	B7/ 2H	B8/ 8 OR B7/ 2H	
EYE BOLT & NUT	B7/ 2H	B8/ 8	
GASKET	SPW S.S 304/316 WITH CAF/ GRAFOIL		
GLAND PACKING	GRAPHITE ASBESTOS INHIB. & INCONEL WIRE REIN.		
SCREW/RIVET&WASHER	STEEL		
WASHER	STEEL		
GRUB SCREW	STEELL		
NAME PLATE	ALUMINIUM/SS		

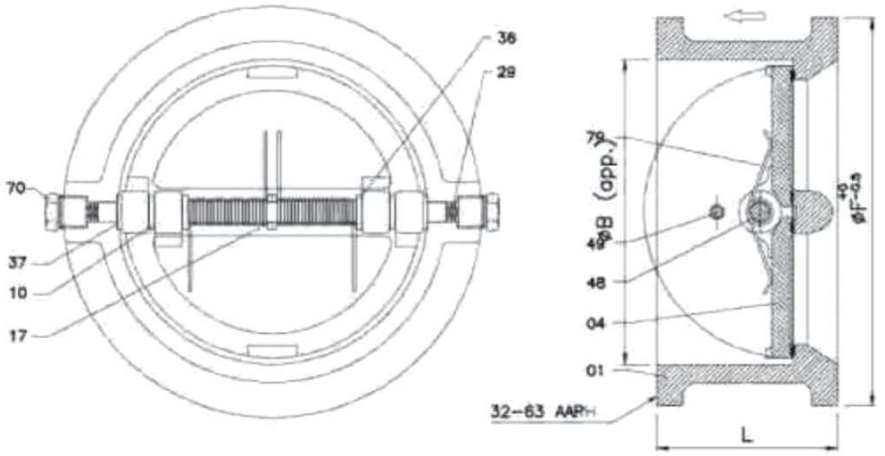
DUAL PLATE WAFER TYPE

API 1594

AABIRA AL KHALEEJ

Willwin Enterprises

PARTS	MARERIAL SPECIFICATION		
BODY	A105	F304	F316
BONNET	A105	F304	F316
WEDGE/PLUG	13%CR.	T304	T316
SEAT	13%CR.	T304	T316
SPINDLE	T410	T304	T316
GLAND BUSH	T410	T304	T316
GLAND FLANGE	A105	F304	
YOKE NUT	ASTM A 439 GR.D2/ AL-BRONZE		
HAND WHEEL	CAST STEEL		
HAND WHEEL NUT	GR.2H		
COLLAR BOLT/ STUD & NUT	B7/ 2H	B8/ 8 OR B7/ 2H	
EYE BOLT & NUT	B7/ 2H	B8/ 8	
GASKET	SPW S.S 304/316 WITH CAF/ GRAFOIL		
GLAND PACKING	GRAPHITE ASBESTOS INHIB. & INCONEL WIRE REIN.		
SCREW/RIVET&WASHER	STEEL		
WASHER	STEEL		
GRUB SCREW	STEELL		
NAME PLATE	ALUMINIUM/SS		



DUAL PLATE WAFER TYPE

API 1594

NO.	QTY.	PARTS	MATERIAL	REMARKS
01	01	BODY	ASTM A 216 GR. WCB	
04	02	PLATE	F6	
05	01	SEAT	F6	INTEGRAL
10	04	DISC BEARING	F6	HARDENED
17	01	SPACER BUSH	F6	
29	03MIN	RETAINER PACKING	GRAPHITE	
6	02	SPRING BEARING	AISI 410	
37	02	BODY BEARING	AISI 410	
48	01	HINGE PIN	F6	
49	01	STOPPER PIN	AISI 410	
59	01	LIFTING HOOK	ASTM A 105	NOT SHOWN
70	02	HINGE PIN RETAINER	ASTM A 105	
70A	02	STOPPER PIN RETAINER	ASTM A 105	NOT SHOWN
79	02	SPRING	S.S. 316	

AABIRA AL KHALEEJ

Willwin Enterprises

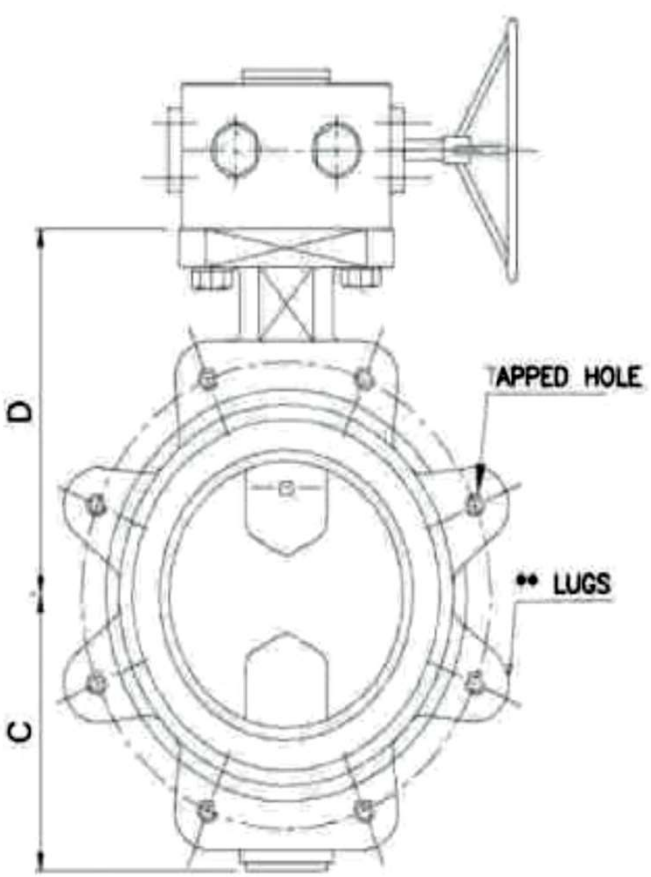
DIMENSION TABLE #150							
SIZE	in	3	4	6	8	10	12
	mm	80	100	150	200	250	300
L		73	73	98	127	146	181
ØF		136.5	174.5	222	279	340	409
ØB		87	113	165	206	270	300

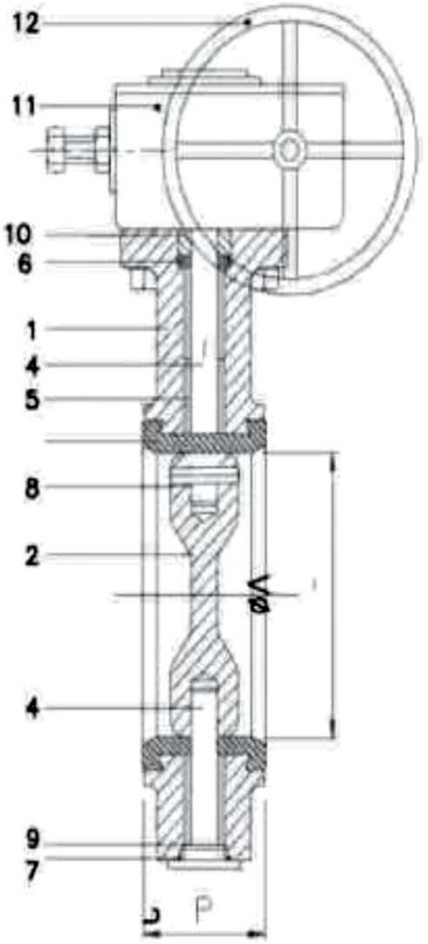
BUTTERFLY VALVE

API 609

AABIRA AL KHALEEJ

Willwin Enterprises





BUTTERFLY VALVE

API 609

AABIRA AL KHALEEJ

Willwin Enterprises

NO.	QTY.	PARTS	MARERIAL
1	1	BODY	SGI GGG40+EPOXY
2	1	DISC	AL. BRONZE
3	1	BONDED SEAT	EPDM
4	2	SHAFT	AISI 316
5	2	BEARING	STEEL _ PTFE
6	1	O RING SHAFT	EPDM
7	1	O RING PLUG	EPDM
8	1	TAPER PIN	MONEL
9	1	PLUG/BOTTOM COVER	C-15/MS
10	1	TOP BUSHING	POLYACETAL
11	1	WORM GEAR	-
12	1	HANDWHEEL	MS

DIMENSION TABLE #150

SIZE in mm	8 200	10 250	12 300	14 350	16 400	18 450	20 500
ØA	200	250	300	336	586	436	486
B	60	68	78	78	154	114	127
C	163	203	228	265	435	330	355
D	198	245	270	312	490	390	410

DIMENSION TABLE #300

SIZE in mm	3 180	4 100	6 150	8 200	10 250	12 300
L	73	73	98	127	146	181
ØF	149	181	250.5	308	362	422
ØB	87	113	165	206	270	300

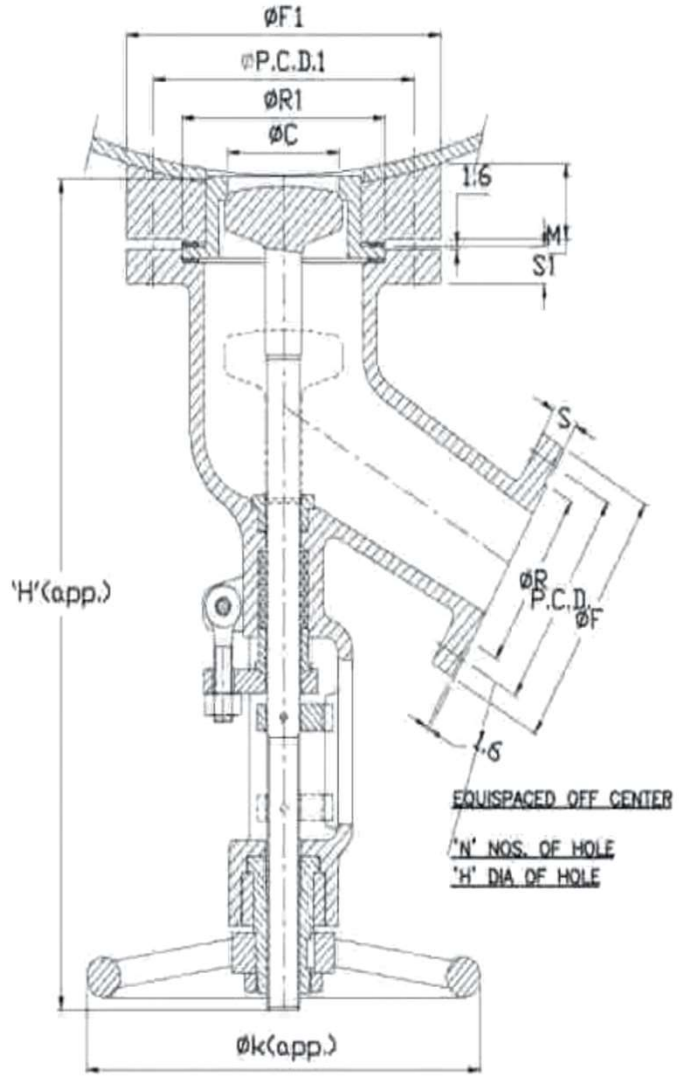
FLUSH BOTTOM VALVE

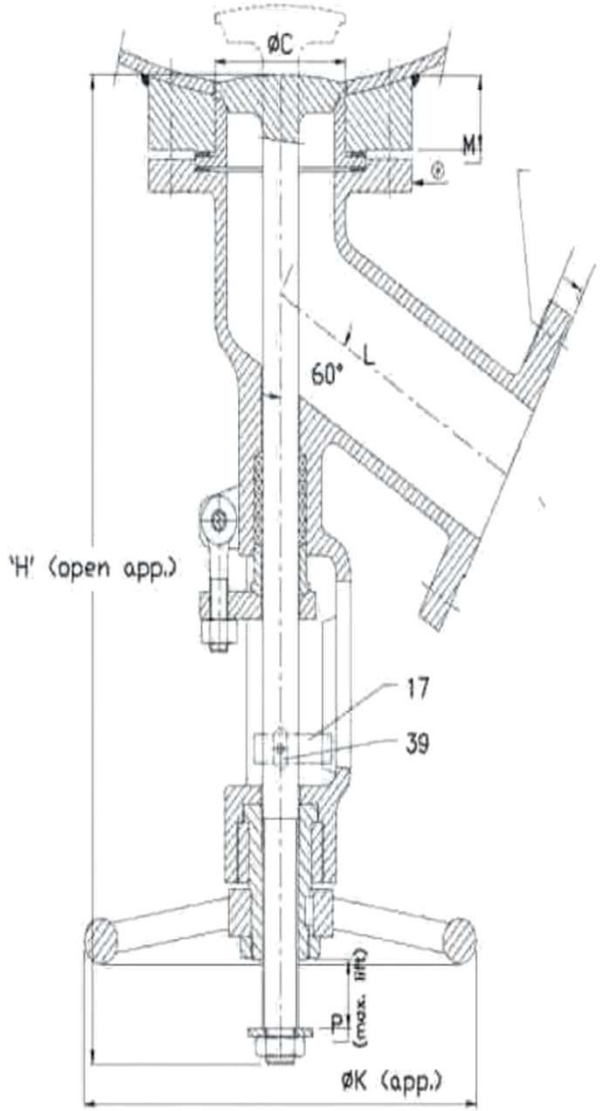
CLASS 150 API 609

FLANGE ANSI B16.5

AABIRA AL KHALEEJ

Willwin Enterprises





FLUSH BOTTOM VALVE

CLASS 150 API 609

FLANGE ANSI B16.5

AABIRA AL KHALEEJ

Willwin Enterprises

PARTS	MATERIAL SPECIFICATION	
BODY	ASTM A 216 GR.WCB	
PLUG	AISI 410	INTEGRAL
SEAT	13% CR. STEEL	
SPINDLE	AISI 410	
GLAND BUSH		
GLAND FLANGE	ASTM A 515 GR.70	
YOKE SLEEVE	ASTM A 439 GR.D2/AL.BRONZE	
YOKE NUT	AISI 410	
GUIDE PLATE	ASTM A 515 GR. 70	
HAND WHEEL	CARBON STEEL	
HAND WHEEL NUT	STEEL	
EYE BOLT & NUT	A 193 GR.B7/A 194 GR.2H	
CROSS BOLT & NUT		
GASKET	SPW S.S. 304 WITH CAF	
GLAND PACKING	GRAPH. ASB. WITH SACRIFICIAL INHIBITOR & INCONEL WIRE REINFORCEMENT	
WASHER	STEEL	
KEY	C40	
LOCK NUT	STEEL	
LOCKING BOLT	S.S.	
NAME PLATE	S.S. 304	

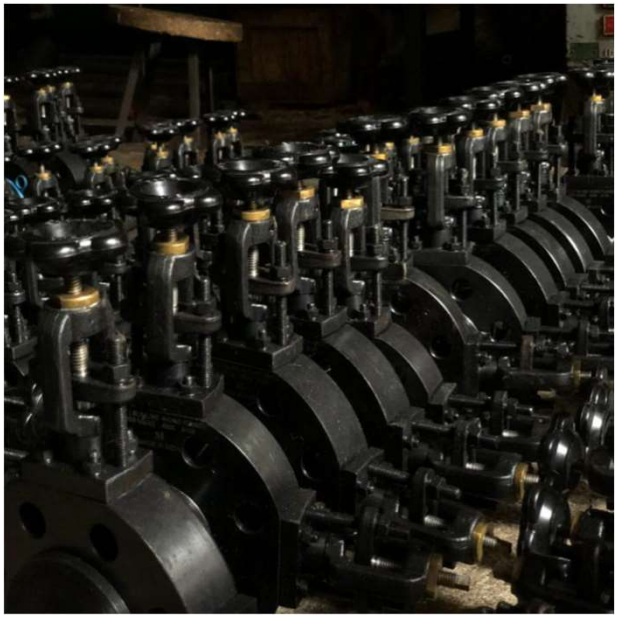
DIMENSION TABLE #150

SIZE	2"x2"	3"x3"	4"x4"	6"x6"
L	145	175	200	250
ØC	65	90	120	170
H	480	505	560	600
ØK	250	250	300	350
ØF	152	190	229	279
PCD	120.5	152.5	190.5	241.5
ØR	92	127	157	216
S	15.9	19.1	23.9	25.4
ØH	19	19	19	22
N	4	4	8	8
P	45	55	65	75
M	30	30	40	45

MONO FLANGE & DBB BALL VALVE

AABIRA AL KHALEEJ

Willwin Enterprises



PRESSURE TEMPERATURE RATINGS

ASME 16.34

AABIRA AL KHALEEJ

Willwin Enterprises

SERVICE TEMP.		CLASS 150					CLASS 300					CLASS 600				
°F	°C	WCB	WC1	WC6	WC9	C5	WCB	WC1	WC6	WC9	C5	WCB	Wc1	WC6	WC9	C5
		(A)	(B)(C.)	(C.)	(C.)	(C.)	(A)	(B)(C.)	(C.)	(C.)	(C.)	(A)	(B)(C.)	(C.)	(C.)	(C.)
-20 TO	-29 TO	285	265	290	290	290	740	695	750	750	750	1480	1390	1500	1500	1500
100	38	260	260	260	260	260	675	680	750	750	745	1350	1360	1500	1500	1490
200	93	230	230	230	230	230	655	655	720	730	715	1315	1305	1445	1455	1430
300	149	200	200	200	200	200	635	640	695	705	705	1270	1280	1385	1410	1410
400	204	170	170	170	170	170	600	620	665	665	665	1200	1245	1330	1330	1330
500	260	140	140	140	140	140	550	605	605	605	605	1095	1210	1210	1210	1210
600	316	125	125	125	125	125	535	590	590	590	590	1075	1175	1175	1175	1175
650	343	110	110	110	110	110	535	570	570	570	570	1065	1135	1135	1135	1135
700	371	95	95	95	95	95	505	530	530	530	530	1010	1065	1065	1065	1055
750	399	80	80	80	80	80	410	510	510	510	510	825	1015	1015	1015	1015
800	427	65	65	65	65	65	270	485	485	485	485	535	975	975	975	965
850	454	50	50	50	50	50	170	450	450	450	370	345	900	900	900	740
900	482	35	35	35	35	35	105	280	320	375	275	205	560	640	755	550
950	510	20	20	20	20	20	50	165	215	260	200	105	330	430	520	400
1000	538			20*	20*	20*			145	175	145		2100	290	350	290
1050	566			20*	20*	20*			95	110	100		147	190	220	200
1100	593					20*				1150	60		1535		2275	125
1150	621					15*				805	35		107		154	70
1200	649									830					1655	
HYDROSTATIC										58					116	
SHELL		450	425				1125	1075		1150		2250	2100		2275	
TEST PRESSURE		31.5	29				79	75		805		157.5	147		154	
VALVE		315	300				825	770		830		1630	1535		1655	
CLOSURE	FLUID	22.00	21.00				58	54		58		114	107		166	
TEST PRESSURE	AIR	100/7					100/07					100/7				

PRESSURE TEMPERATURE RATINGS

ASME 16.34

AABIRA AL KHALEEJ

Willwin Enterprises

SERVICE TEMP.		CLASS 900					CLASS 1500					CLASS 2500				
°F	°C	WCB	WC1	WC6	WC9	C5	WCB	WC1	WC6	WC9	C5	WCB	WC1	WC6	WC9	C5
		(A)	(B)(C.)	(C.)	(C.)	(C.)	(A)	(B)(C.)	(C.)	(C.)	(C.)	(A)	(B)(C.)	(C.)	(C.)	(C.)
-20 TO	-29 TO	2220	2085	2250	2250	2250	3705	3470	3750	3750	3750	6170	5785	6250	6250	6250
100	38	2025	2035	2250	2250	2235	3375	3395	3750	3750	3725	5625	5660	6250	6250	6205
200	93	1970	1955	2165	2185	2150	3280	3260	3610	3640	3580	5470	5435	6015	6070	5965
300	149	1900	1920	2080	2115	2115	3170	3200	3465	3530	3530	5280	5330	5775	5880	5880
400	204	1795	1865	1995	1995	1995	2995	3105	3425	3325	3325	4990	5180	5540	5540	5540
500	260	1640	1815	1815	1815	1815	2735	3025	3025	3025	3025	4560	5040	5040	5040	5040
600	316	1610	1765	1765	1765	1765	2685	2940	2940	2940	2940	4475	4905	4905	4905	4905
650	343	1600	1705	1705	1705	1705	2665	2840	2840	2840	2840	4440	4730	4730	4730	4730
700	371	1510	1595	1595	1595	1585	2520	2660	2660	2660	2640	4200	4430	4430	4430	4400
750	399	1235	1525	1525	1525	1525	2060	2540	2540	2540	2540	3430	4230	4230	4230	4230
800	427	805	1460	1460	1460	1450	1340	2435	2435	2435	2415	2230	4060	4060	4060	4030
850	454	515	1350	1350	1350	1110	860	2245	2245	2245	1850	1430	3745	3745	3745	3085
900	482	310	845	955	1130	825	515	1405	1595	1885	1370	860	2345	2655	3145	2285
950	510	155	495	650	780	595	260	825	1080	1305	995	430	1370	1800	2170	1655
1000	538	3350	3150	430	525	430	5575		720	875	720	9275		1200	1455	1200
1050	566	235	220.5	290	330	300	390		480	550	495	650		800	915	830
1100	593	2445	2295		205	185	4080				310	6780				515
1150	621	171	160.5		125	105	286				170	475				285
1200	649															
HYDROSTATIC																
SHELL		3350	3150		3375		5575	5525	5650			9225	8700		9375	
TEST PRESSURE		235	220.5		236.5		390	387	390			650	609		656	
VALVE	FLUID	2445	2295		2475		4080	3817	4130			6780	6335		6875	
CLOSURE		171	160.5		173		286	267	280			475	445		481	
TEST PRESSURE	AIR	100/7					100/7					100/7				

PRESSURE TEMPERATURE RATINGS

ASME 16.34

AABIRA AL KHALEEJ

Willwin Enterprises

SERVICE TEMP.		CLASS 150				CLASS 300				CLASS 600			
°C	°F	CF8		CF8M		CF8		CF8M		CF8		CF8M	
-29 TO	-20 TO	PSIG	KGF/CM2	PSIG	KGF/CM2	PSIG	KGF/CM2	PSIG	KGF/CM2	PSIG	KGF/CM2	PSIG	KGF/CM2
38	100	275	19.2	275	19.2	720	50.4	720	50.4	1440	100.8	1440	100.8
93	200	230	16.1	230	16.45	600	42	620	43.4	1200	84	1240	86.8
149	300	205	14.3	205	15.05	540	37.8	560	39.2	1080	75.6	1120	78.4
204	400	190	13.3	190	13.65	495	34.7	515	36.05	995	69.65	1025	71.75
260	500	170	Z	170	11.9	465	32.55	480	33.6	930	65.1	955	66.85
316	600	140	9.8	140	9.8	435	30.45	450	31.5	875	61.25	900	63
343	650	125	8.75	125	8.75	430	30.1	445	31.15	860	60.2	890	62.3
371	700	110	7.7	110	7.7	425	29.75	430	30.1	850	59.5	870	60.9
399	750	95	6.65	95	6.65	415	29.05	425	29.75	830	58.1	855	59.85
427	800	80	5.6	80	5.6	405	28.35	420	29.4	805	56.35	845	59.15
454	850	65	4.55	65	4.55	395	27.65	420	29.4	790	55.3	835	58.45
482	900	50	3.5	50	3.5	390	27.3	415	29.05	780	54.6	830	58.1
510	950	35	2.45	35	2.45	380	26.6	385	26.95	765	53.55	775	54.25
538	1000	20	1.4	20	1.4	320	22.4	350	24.5	640	44.8	700	49.0
566	1050	20*	1.4	20*	1.4	310	21.7	345	24.15	615	43.05	685	47.95
593	1100	20*	1.4	20*	1.4	255	17.85	305	21.35	515	36.05	610	42.7
621	1150	20*	1.4	20*	1.4	200	14	235	16.45	400	28	475	33.25
649	1200	20*	1.4	20*	1.4	155	10.85	185	12.95	310	21.7	370	25.9
677	1250	20*	1.4	20*	1.4	115	8.05	145	10.15	225	15.75	295	20.65
704	1300	20*	1.4	20*	1.4	85	6.0	115	8.05	170	11.9	235	16.45
732	1350	20*	1.4	20*	1.4	60	4.2	95	6.65	125	8.75	190	13.3
760	1400	20*	1.4	20*	1.4	50	3.5	75	5.25	95	6.65	150	10.5
788	1450	15*	1.4	15*	1.4	35	2.5	60	4.2	70	4.9	115	8.05
816	1500	10*	0.7	10*	0.7	25	1.75	40	2.8	55	3.85	85	
HYDROSTATIC SHELL TEST PRESSURE		425/30				1100 / 78				2175 / 153			
VALVE CLOSURE TEST PRESSURE	HYDROSTATIC	305/22				795 / 56				1585 / 115			
	AIR	100/7				100 / 7				100 / 7			

PRESSURE TEMPERATURE RATINGS

ASME 16.34

AABIRA AL KHALEEJ

Willwin Enterprises

SERVICE TEMP.		CLASS 900				CLASS 1500			
°C	°F	CF8		CF8M		CF8		CF8M	
-29 TO	-20 TO	PSIG	KGF/CM2	PSIG	KGF/CM2	PSIG	KGF/CM2	PSIG	KGF/CM2
38	100	2160	151.2	2160	151.2	3600	252	3600	252
93	200	1800	126	1860	130.2	3000	210	3095	216.65
149	300	1620	113.4	1680	117.6	2700	189	2795	195.65
204	400	1490	104.3	1540	107.8	2485	174.0	2570	179.9
260	500	1395	97.5	1435	100.4	2330	163.1	2390	167.3
316	600	1310	91.7	1355	94.85	2185	152.95	2255	157.85
343	650	1290	90.3	1330	93.1	2150	150.5	2220	155.4
371	700	1275	89.25	1305	91.4	2125	148.75	2170	151.9
399	750	1245	87.2	1280	89.6	2075	145.25	2135	149.45
427	800	1210	84.7	1265	88.55	2015	141.05	2110	147.7
454	850	1190	83.3	1255	87.85	1980	138.6	2090	146.3
482	900	1165	81.55	1245	87.2	1945	136.15	2075	145.25
510	950	1145	80.15	1160	81.2	1910	133.7	1930	135.1
538	1000	965	67.55	1050	73.5	1605	112.35	1750	122.5
566	1050	925	64.8	1030	72.1	1545	108.15	1720	120.4
593	1100	770	53.9	915	64.05	1285	89.95	1525	106.75
621	1150	595	41.65	710	49.7	995	69.65	1185	82.95
649	1200	465	32.55	555	38.85	770	53.9	925	64.75
677	1250	340	23.8	440	30.8	565	39.55	735	51.5
704	1300	255	17.85	350	24.5	430	30.1	585	40.95
732	1350	185	13.0	290	20.3	310	21.7	480	33.6
760	1400	145	10.15	225	15.75	240	16.8		26.6
788	1450	105	7.35	175	12.25	170	11.9		20.3
816	1500	80	5.6	125	8.75	135	9.45		14.35
HYDROSTATIC SHELL TEST PRESSURE		3250 / 230				5400 / 380			
VALVE CLOSURE TEST PRESSURE	HYDROSTATIC	2380 / 170				3960 / 280			
	AIR	100/7				100 / 7			

VALVES SHELL MATERIALS

AABIRA AL KHALEEJ

Willwin Enterprises

ASTM	CHEMICAL COMPOSITIONS %										MECHANICAL			
CODE	C	MN	P	S	SI	CR	MO	NI	CU	V	TENSILE MPA	YIELD MPA	%ELONG ATION	%REDUCT. AREA
	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.	MAX.	MIN.	MIN.	MIN.	MIN.
A216 WCB	0.30	1.00	0.040	0.045	0.60	0.50	0.20	0.50	0.30	0.03	485	250	22	35
A216 WCC	0.25	1.20	0.040	0.045	0.60	0.50	0.20	0.50	0.30	0.03	485	275	22	35
A217 WC1	0.25	0.80	0.040	0.045	0.60	1.50	0.65		0.50		450	240	24	35
A217 WC5	0.05 0.20	0.40 0.70	0.040	0.045	0.60	0.50 0.90	0.90 1.20	0.60 1.00	0.50	0.10 TU	485TO 655	275	20	35
A217 WC6	0.20	0.80	0.040	0.045	0.60		0.65		0.50		485	275	20	35
A217 WC9	0.18	0.70	0.040	0.045	0.60	2.75	1.20		0.50		485	275	20	35
A217 C5	0.20	0.70	0.040	0.045	0.75	6.50	0.65		0.50		620	415	18	35
A217 CA15	0.15	1.00	0.040	0.040	1.50	14.00	0.50	1.00			620	450	18	30
A351 CF8	0.08	1.50	0.040	0.040	2.00	21.00	0.50	11.00			485	205	35	
A351 CF8M	0.08	1.50	0.040	0.040	1.50	21.00	3.00	12.00			485	205	30	
A351 CF3	0.03	1.50	0.040	0.040	2.00	21.00	0.50	12.00			485	205	35	
A351 CF3M	0.03	1.50	0.040	0.040	1.50	21.00	3.00	13.00			485	205	30	
A351 CN7M	0.07	1.50	0.040	0.040	1.50	22.00	3.00	30.50	4.00		425	170	35	
A352 LCB	0.30	1.00	0.040	0.045	0.60	0.50	0.20	0.50	0.30	0.03	450	240	24	35
A352 LCC	0.25	1.20	0.040	0.045	0.60	0.50	0.20	0.50	0.30	0.03	485	275	22	35
A105	0.35	1.05	0.035	0.040	0.35	0.30	0.12	0.40	0.40	0.05	485	250	30	30
A182 F304	0.08	2.00	0.040	0.030	1.00	20.00		11.00			515	205	30	50
A182 F316	0.08	2.00	0.040	0.030	1.00	18.00	3.00	14.00			515	205	30	50

VALVES SHELL MATERIALS

AABIRA AL KHALEEJ

Willwin Enterprises

ASTM	CHEMICAL COMPOSITIONS %										MECHANICAL			
A182 F304L	0.04	2.00	0.040	0.030	1.00	20.00	0.44 0.65	13.00			485	170	30	50
A182 F316L	0.04	2.00	0.040	0.030	1.00	18.00	3.00	15.00			485	170	30	50
A182 F5	0.15	0.30 0.60	0.030	0.030	0.50	1.00 1.50	0.44 0.65	0.50			485	275	20	35
A182 F11 CL1	0.05 0.15	0.30 0.60	0.030	0.030	0.50 1.00	4.00 6.00	0.87 1.13				415	205	20	45
A182 F11 CL2	0.10	0.30	0.040	0.040	0.50	1.00	0.44				485	276	20	30
A182 F11 CL3	0.20	0.80	0.040	0.040	1.00	1.50	0.65				515	310	20	30
A182 F22 CL1	0.05 0.15	0.30 0.61	0.040	0.040	0.50	2.00 2.50	0.87 1.14			0.02 0.03	415	205	20	35
A182 F22 CL2	0.05 0.16	0.30 0.61	0.040	0.040	0.50	2.00 2.51					515	310	20	30
A350 LF2	0.03	0.60 1.35	0.035	0.040	0.15 0.30	0.30	0.12	0.40	0.40		485TO 655	250	30	197
A276 410	0.15	1.00	0.040	0.030	1.00	11.5 13.5						550	15	45
A276 420	0.15	1.00	0.040	0.030	1.00	14.00					690			
A193 B7	0.49	1.10	0.035	0.040	0.35	1.20	0.25	10.50			860	720	16	50
A193 B7M	0.49	1.10	0.035	0.040	0.35	1.20	0.25	14.00			690	550	18	50
A193 B8	0.08	2.00	0.045	0.030	1.00	20.00		10.50			515	205	30	50
A193 B8M	0.08	2.00	0.045	0.030	1.00	18.00	3.00	14.00			515	205	30	50
A194 2H	0.40	1.00	0.040	0.050	0.40									
A194 2HM	0.40	1.00	0.040	0.050	0.40									
A320 L7	0.48	1.00	0.035	0.040	0.35	1.10	0.25				860	725	16	50
A320 L7M	0.48	1.00	0.035	0.040	0.35	1.10	0.25				690	550	18	50
A194 8	0.08	2.00	0.045	0.030	1.00	20.00		10.50						

GENERAL DESIGN SPECIFICATION

AABIRA AL KHALEEJ

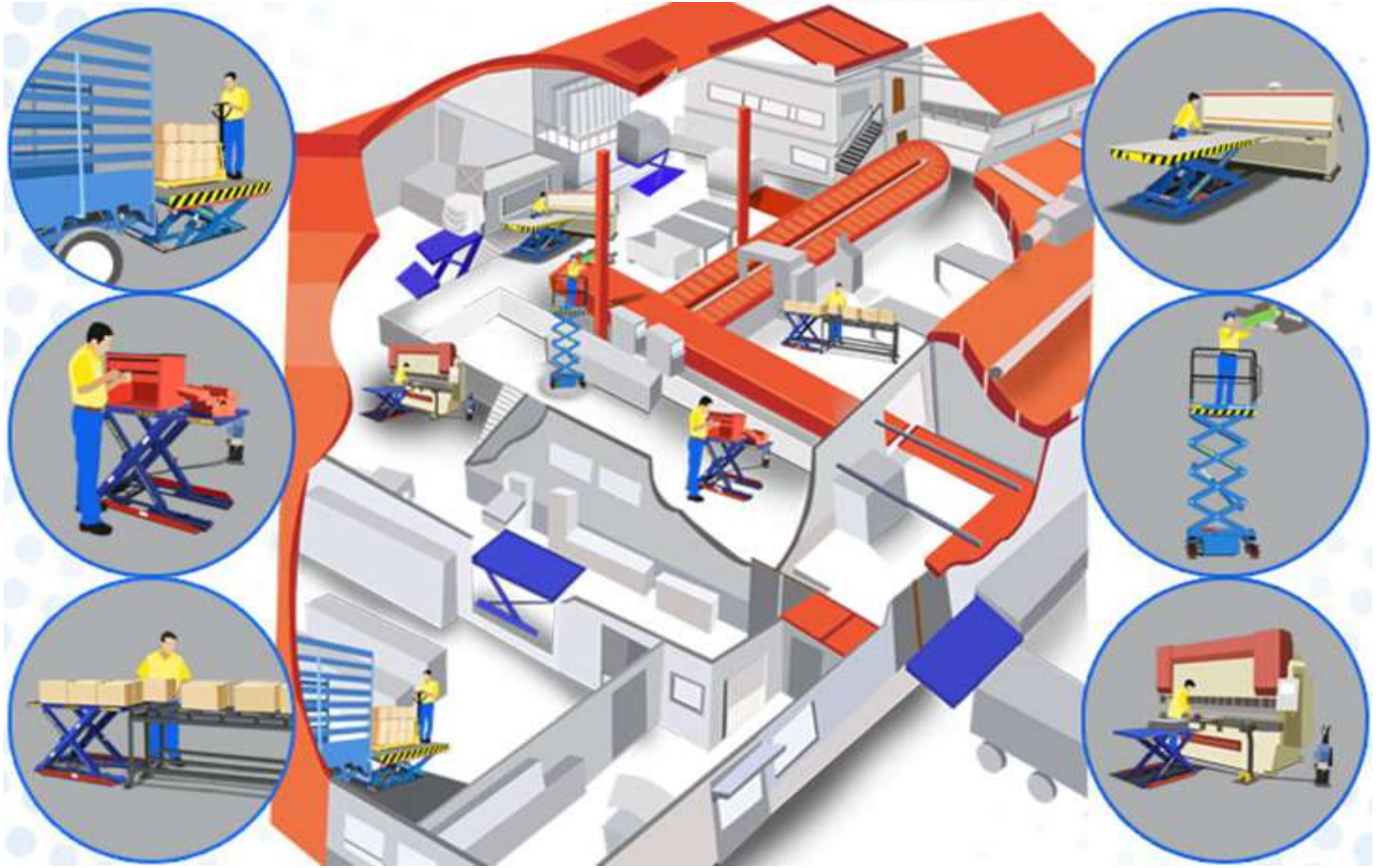
Willwin Enterprises

NO.	AMERICAN STD.	BRITISH STD.
SHELL WALL THICKNESS AND GENERAL VALVE DESIGN SPECIFICATIONS, CAST STEEL, FORGED STEEL	API 600 / API 6D/API 602	BS 1414 (GATE VALVE)
		BS 1873 (GLOBE VALVE)
		BS 1868 (CHECK VALVE)
		BS 5352
PRESSURE-TEMPERATURE RATING	ASME B16.34/ API 602/ API 6D	BS1560 / BS 5352
FACE-TO-FACE DIMENSIONS FLANGED END	ANSI B16.10/ API 6D	BS 2080
END-TO-END DIMENSIONS BUTT WELD END		
END FLANGE DIMENSIONS	ANSI B16.5*	BS 3293/ BS1560
GASKET CONTACT FACING		
WELDING END DIMENSIONS BUTT WELD	ANSI B16.25	BS1414 (GATE VALVE)
		BS1873 (GLOBE VALVE)
		BS1868 (CHECK VALVE)
WELDING END DIMENSIONS SOCKET WELD	ANSI B16.11	BS 6755
RADIOGRAPH & NDT REQUIREMENTS	ASME B16.34	
INSPECTION AND TESTING STANDARD	API 598	

MATERIAL HANDLING EQUIPMENT'S

AABIRA AL KHALEEJ

Willwin Enterprises



MATERIAL HANDLING EQUIPMENT'S

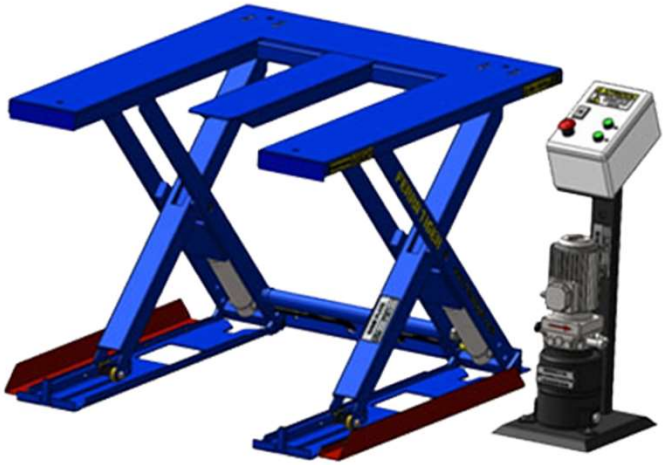
AABIRA AL KHALEEJ

Willwin Enterprises

MATERIAL HANDLING EQUIPMENT'S

AABIRA AL KHALEEJ

Willwin Enterprises



MATERIAL HANDLING EQUIPMENT'S

AABIRA AL KHALEEJ

Willwin Enterprises

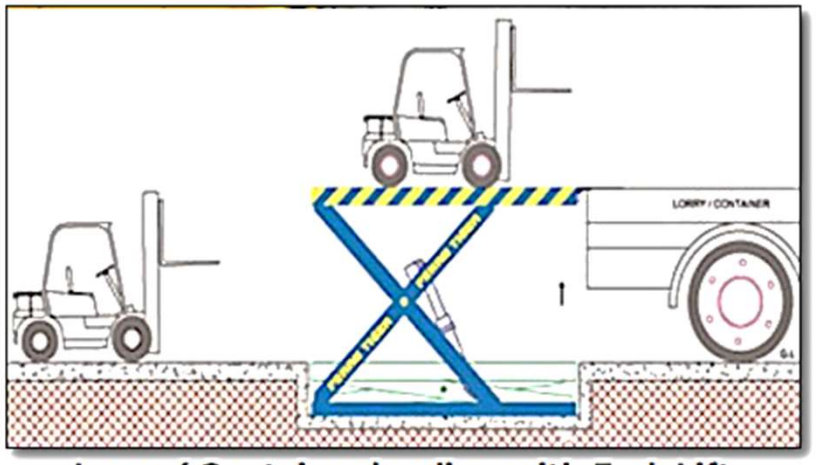
MATERIAL HANDLING EQUIPMENT'S

AABIRA AL KHALEEJ

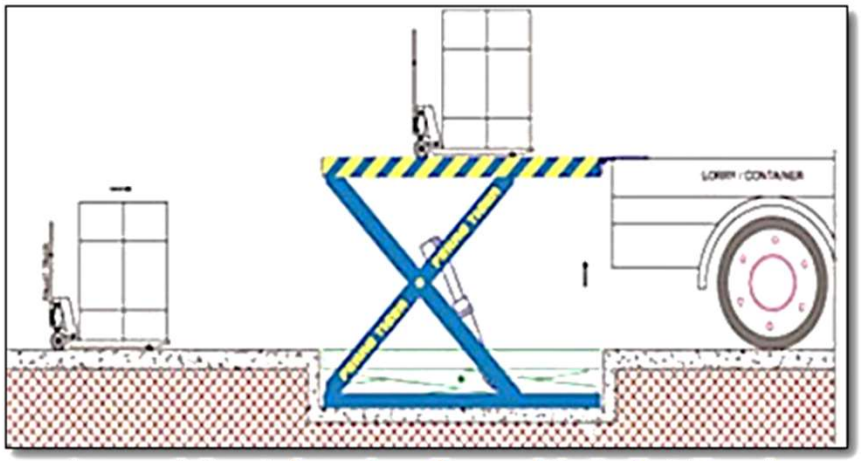
Willwin Enterprises

ELEVATING DOCK

Applications Of Elevating Dock



Lorry / Container loading with Fork Lift



Lorry / Container loading with Pallet Truck

MATERIAL HANDLING EQUIPMENT'S

AABIRA AL KHALEEJ

Willwin Enterprises

ELEVATING DOCK

Elevating Dock provides a simple and efficient solution for loading and unloading cargo. With a push of a button the difference between loading bay and the truck is over come enabling smooth movement of cargo. Ramps which cause the cargo to slide of a pallet truck or fork lift are eliminated. Thus, breakage during loading & unloading process is completely eliminated. The CARGO LIFT is suitable for loading /un loading of vans, canters trucks & containers. CARGO LIFT quickly pays itself within a year of investment with the savings achieved by its economic operation and eliminating labour cost

Model Code	Loading Application	Capacity (Kgs)	Table Size (a * b)(mm)	Stroke	Max Ht (mm)	Min Ht (mm)	Raise/Lower Time (sec)	Motor (HP)
ED S12 2015 1T	Van / Canter / Truck	1000	2000 x 1500	1200	1500	300	30	1.5
ED S12 2015 2T	Van / Canter / Truck	2000	2000 x 1500	1200	1500	300	30	2
ED S16 2520 2T	Truck / Container	2000	2500 x 2000	1600	2000	400	45	3
ED S16 2520 3T	Truck / Container	3000	2500 x 2000	1600	2000	400	45	5
ED S18 3022 2T	Truck / Container	2000	3000 x 2200	1800	2300	500	45	5
ED S18 3022 3T	Truck / Container	3000	3000 x 2200	1800	2300	500	45	5
ED S18 4522 6T	Container with Fork Lift	6000	4500 x 2200	1800	2600	800	60	7.5
ED S18 4522 8T	Container with Fork Lift	8000	4500 x 2200	1800	2600	800	60	10
ED S18 4522 10T	Container with Fork Lift	10000	4500 x 2200	1800	2600	800	60	10

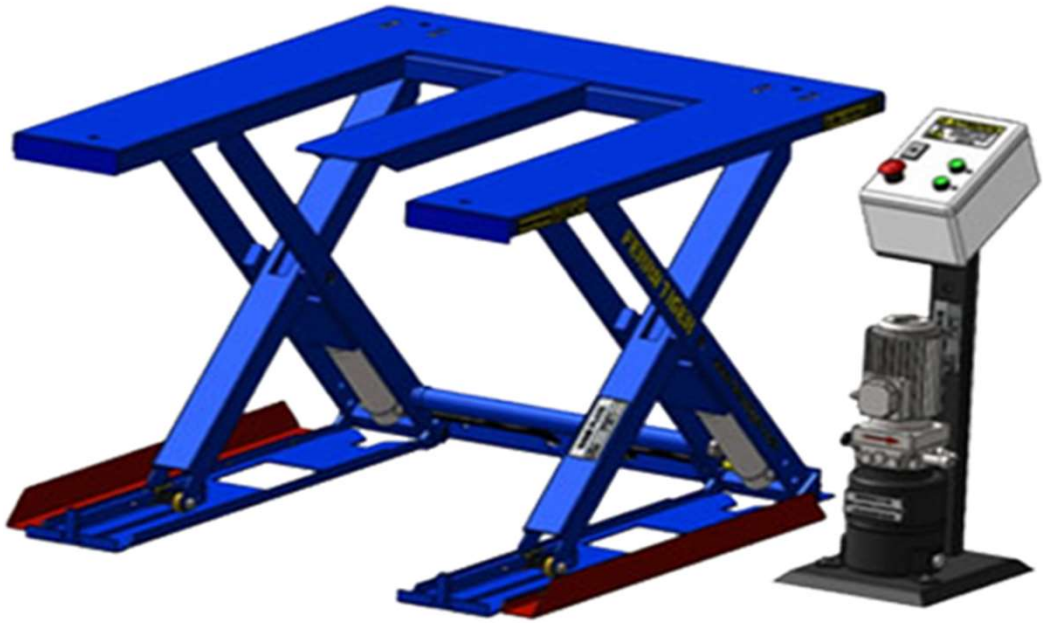
Specifications subject to change | Tailor made equipment available on request

MATERIAL HANDLING EQUIPMENT'S

AABIRA AL KHALEEJ

Willwin Enterprises

SLIM LIFT



MATERIAL HANDLING EQUIPMENT'S

AABIRA AL KHALEEJ

Willwin Enterprises

SLIM LIFT

Slim Lift is perfect answer to handle heavy loads at working heights and can also be used as a work positioner. It is easy to install and it can be placed directly on the floor NO PIT REQUIRED. If a pit is required, it can be made so shallow – only 90mm deep – thus leaving structural elements intact. SLIM LIFT is the perfect solution for efficient lifting, lowering and positioning on intermediate, suspended or mezzanine floors, they take the backache and strain out of bending & lifting. As a manufacturer of Lift tables, our equipment affords itself to being easily adapted to a specific use.

Model Code	Capacity (Kgs)	Table Size (l * b)(mm)	Max Ht (mm)	Min Ht (mm)	Stroke	Raise/Lower Time (sec)	Motor (HP)
LH 90A 1T	1000	1350 x 600	900	90	810	15	1.5
LH 90B 1T	1000	1350 x 600	900	90	810	15	1.5
LH 90C 1T	1000	1350 x 600	900	90	810	15	1.5
LH 100A 2T	2000	1400 x 800	900	100	800	20	1.5
LH 100B 2T	2000	1400 x 800	900	100	800	20	1.5
LH 100C 2T	2000	1400 x 800	900	100	800	20	1.5

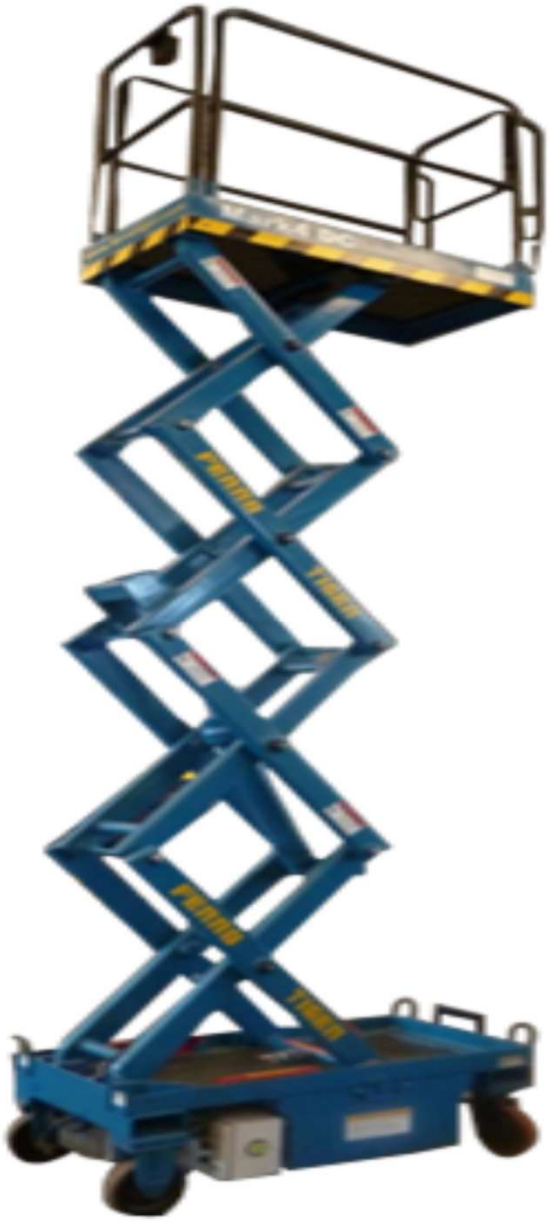
Specifications subject to change | Tailor made equipment available on request

MATERIAL HANDLING EQUIPMENT'S

REACH UP

AABIRA AL KHALEEJ

Willwin Enterprises



MATERIAL HANDLING EQUIPMENT'S

REACH UP

AABIRA AL KHALEEJ

Willwin Enterprises

Reach Up is a compact push-around mobile aerial work platform which works efficiently and effectively. It saves time, man power & money on overhead maintenance; fits through standard doorways & lifts, navigates with ease in tight spaces and elevates persons with tools up to working height of twelve meters with a touch of a button. We, the manufacturers of Mobile Aerial Work Platform use aerial devices for raising work stage, pail truck, mobile hoisting work stage or aerial lift is a mechanical gadget used to give brief admittance to individuals or hardware on the zones where it is very difficult to reach. Reach Up eliminates risk associated with ladders, steps & scaffolds and is ideally suited for working at heights in industry, hotels, malls, hospitals, retailers, airports, places of worship & offices.

Specifications	Reach Up - 3	Reach Up - 4	Reach Up - 5
Capacity	200kg (1 person + tools)	200kg (1 person + tools)	300kg (2 person + tools)
Max Working Ht	5m (16ft)	6m (19.5ft)	7m (23ft)
Max Platform Ht	3m	4m	5m
Min Platform Ht	0.8m	0.9m	1m
Platform size (LxB)	1.2m x 0.6m	1.2m x 0.6m	1.5m x 0.8m
Overall Dimensions (LxBxH)	1.3m x 0.7m x 1.9m	1.3m x 0.7m x 2m	1.7m x 0.8m x 2.1m
Ground Clearance	50mm	50mm	75mm
Wheel Size	250mm x 50mm	250mm x 50mm	300mm x 65mm
Raise & Lower Time	20 sec	25 sec	30 sec
Motor - Battery	1.2kW – 12V 100Ah	1.2kW – 12 V 100AH	2.2kW – 24 V 100Ah

Specifications subject to change | Tailor made equipment available on request

MATERIAL HANDLING EQUIPMENT'S

GOODS LIFT

AABIRA AL KHALEEJ

Willwin Enterprises

Specification For GOODS LIFT

- Name : Goods Lift
- Capacity : 500 kg
- Platform Size : 2.0m x 1.2m
- Max Height : 6.0 M
- Customer : Himalaya Drug Company,

- Name : Goods Lift
- Capacity : 2500 kg
- Platform Size : 5000 mm x 3000 mm
- Max Height : 7700 mm
- Customer : TVS Motor, Hosur

Specifications subject to change | Tailor made equipment available on request

MATERIAL HANDLING EQUIPMENT'S

TAILOR MADE LIFT

AABIRA AL KHALEEJ

Willwin Enterprises

We Provides Tailor Made scissor lifts customized to clients specific requirement. We provide a variety of Scissor lifts in various shape, size and capacity as per our client requirement. We as the Manufacturer of Scissor Lifts make your service available inside the warehouse, output channel, in the packing department with the aim of adhering to the customer needs.

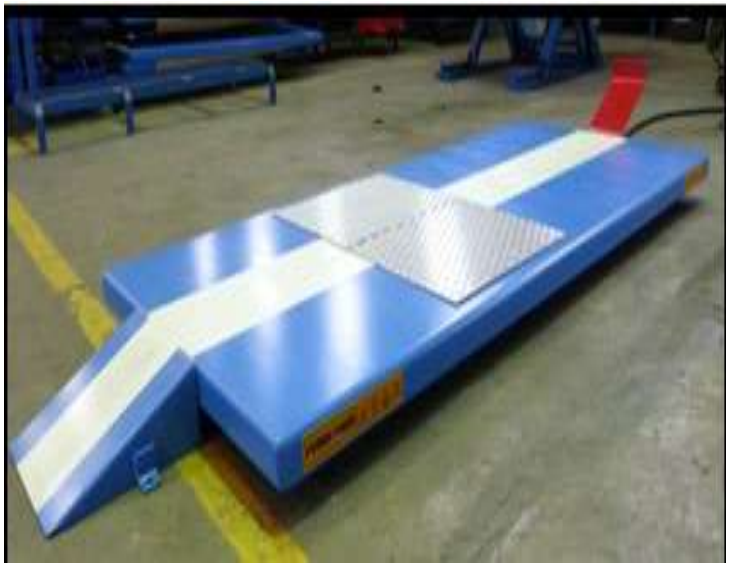
Please contact us for customized requirement.

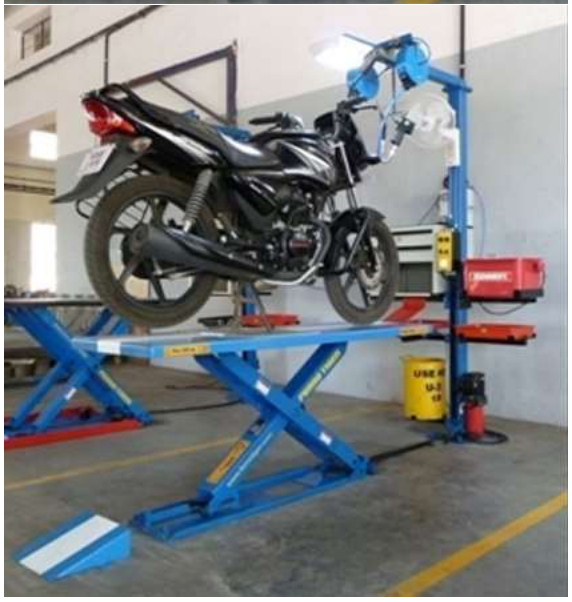
MATERIAL HANDLING EQUIPMENT'S

BIKE LIFT

AABIRA AL KHALEEJ

Willwin Enterprises





MATERIAL HANDLING EQUIPMENT'S

BIKE LIFT

AABIRA AL KHALEEJ

Willwin Enterprises

Bike Bay is perfect solution for efficient lifting, lowering & positioning of bikes at the service station. It takes away the backache and strain of bending and lifting. It is easy to install and it can be placed directly on the floor NO RAMP or PIT is REQUIRED. If a ramp or pit is required, it can be made so low – only 90mm high. BIKE LIFT due to its low closed height can be placed on intermediate, suspended or mezzanine floor at service stations.

Specification For Bike Lift

Model Code	Capacity (Kgs)	Table Size (a * b)(mm)	Max Ht (mm)	Min Ht (mm)	Stroke	Raise/Lower Time (sec)	Motor (HP)
BL 100 2K	200	1800 x 550	900	100	800	20	0.5
BL 100 5K	500	2200 x 900	900	100	800	20	1

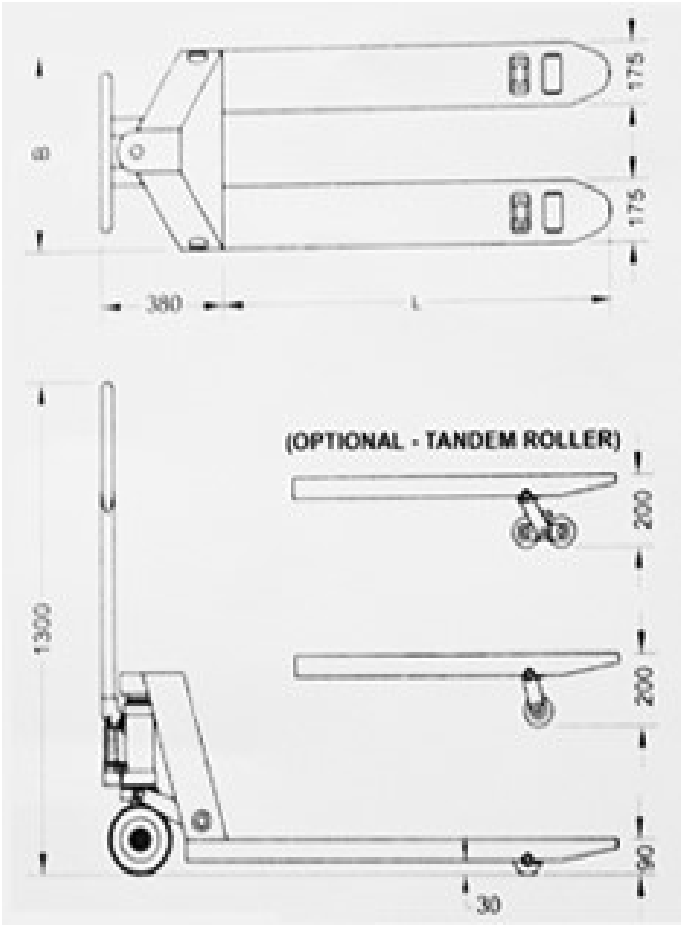
Specifications subject to change | Tailor made equipment available on request

MATERIAL HANDLING EQUIPMENT'S

HAND PALLET TRUCK

AABIRA AL KHALEEJ

Willwin Enterprises



MATERIAL HANDLING EQUIPMENT'S

HAND PALLET TRUCK

AABIRA AL KHALEEJ

Willwin Enterprises

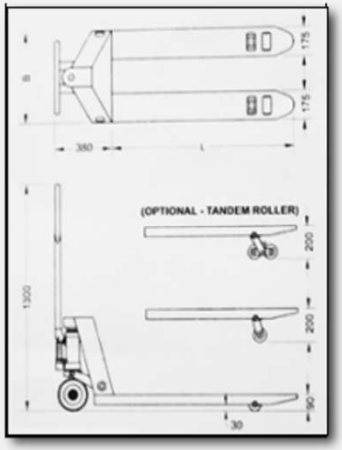
Specification For Pallet Truck

Model	Capacity	Fork Length "L"	Width Over Fork"B"	Lowered Height	Lift
HP-22-A	2000 / 2500 / 3000	1120/1500/1800	560mm	200mm	90mm
HP-22-B	2000 / 2500 / 3000	1120/1500/1800	685mm	200mm	90mm
HP-22-C	2000 / 2500 / 3000	1120/1500/1800	450mm	200mm	90mm
HP-22-D	2000 / 2500 / 3000	1120/1500/1800	520mm	200mm	90mm
Beam Trolley	1000	2000/2200 mm	960mm	200mm	90mm

FORK LENGTH: Alternative 960,1200, 1500, 1800mm

WHEELS: Standard Ultra High Molecular Polymer Wheels fitted with double sealed ball bearing or with choice of Cast Iron Wheel or Polyurethane Wheel at extra cost.

OPTION: Tandem roller.



Customized fork length and width available on request.

MATERIAL HANDLING EQUIPMENT'S

DOCK LEVELER

AABIRA AL KHALEEJ

Willwin Enterprises

Dock Leveler bridges the gap between the truck bed and loading bay, it also compensates for the variations in truck bed heights with a push of a button for a quick and smooth loading and un loading of goods. As the Dock Leveler manufacturers, we are able to encounter most hassles as it tends to be the most essential component for commercial purposes for certain circumstances. The dock leveler is operated by a maintenance free electro hydraulic power pack with control voltage of 24V DC. Rectangular tube construction ensures high structural rigidity. A 100mm tilt mechanism ensures that the Deck is in constant touch with the truck platform. Ferro Tiger Dock leveler is Heavy Duty, Rugged, Robust and built to last.

Model Code	Capacity (Kgs)	Table Size (a * b)(mm)	Max Ht (mm)	Min Ht (mm)	Swing (mm)	Closed Ht (mm)	Motor (HP)
DL2522 6T	6,000	2500 x 2200	+ 350	- 250	600	600	1.5
DL2522 9T	9,000	2500 x 2200	+ 350	- 250	600	600	1.5
DL3022 6T	6,000	3000 x 2200	+ 450	- 250	700	600	1.5
DL2522 9T	9,000	3000 x 2200	+ 450	- 250	700	600	1.5
DL3022 12T	12,000	3000 x 2200	+ 450	- 250	700	600	1.5

Specifications subject to change | Tailor made equipment available on request

MATERIAL HANDLING EQUIPMENT'S

GLUE SPREADER

AABIRA AL KHALEEJ

Willwin Enterprises

Four Roller Glue Spreader Machine is a heavy duty and high quality precision machine used in all plywood manufacturing Industries.

Specification For Glue Spreader

Parameters	GS/1250	GS/1000
Maximum Passing Height	55 mm.	55 mm.
Nominal Length of Rubber Roller	1350 mm.	1100 mm.
Coating Width	1250 mm.	1000 mm.
Driving Motor (1400 RPM)	3 HP	2 HP

Specifications subject to change | Tailor made equipment available on request

Features Of Glue Spreader

- Solid and Large diameter of Rubber Rollers will ensure uniform application of the glue on the entire surface of the veneer.
- Torsion-resistance base frame provides maximum rigidity for continuous high speed operation.
- Heavy duty pillow block with sealed ball bearing will give protection against water and facilitate cleaning and maintenance of the m/c.
- The special design arrangement will allow fast changing of the top and bottom Rubber Rollers for maintenance.
- Thick rubber covering made of high quality and wear resisting rubber will ensure long serve with uniform coating of Glue

OUR COMMERCIAL DETAILS...

Willwin Enterprises

AABIRA AL KHALEEJ

OUR GSTIN NO. 29DUOPS2994Q1Z3

OUR UAM NO. KR04A0026587

AABIRA AL KHALEEJ

Willwin Enterprises

THANK YOU

LOOKING FORWARD FOR YOUR VALUABLE INQUIRIES & ORDERS SOON