

Catalogue



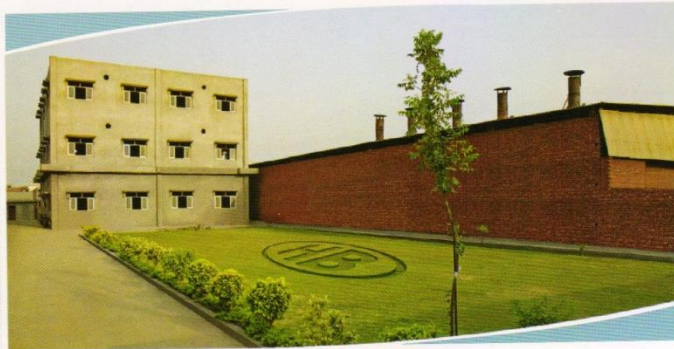
The Right Choice

Valves



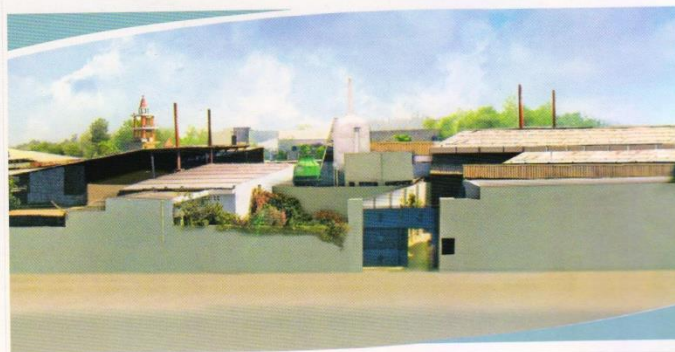
HB GLOBAL

Established in 1976, H B Global is the success story of Charanjit Singh Maingi and Amarinder Singh Maingi who grew to be successful entrepreneurs. The Foundation of HB Global is laid on hard work, perseverance, passion & above all the purpose to serve the nation with QUALITY products. HB Global is spread over two manufacturing units, one unit manufacturing CPVC, UPVC, SWR & Agri Pipe Fittings & Gun Metal Valves and one manufacturing G.I. Extra heavy Pipe Fittings and Bathroom Fittings. HB Global has carved a unique niche in Pipe Fittings, with the widest size range of 1/4" to 6", it has been one of the India's largest manufacturing unit manufacturing **HBI** brand extra heavy pipe fitting. The priceless feedback of customers from all over India has been incorporated into producing our products & led the group expansion into producing **Jubilance** brand luxurious bath fittings. The HB Global today stands for BEST QUALITY, COST-EFFECTIVE, WIDEST RANGE & EXCELLENT SERVICE. The brand image of HB is envied for its impeccable standing & trust with the customers.



HB METALS

Area : 70,000 sq ft
Installed Capacity : 20 Metric Ton / month on single shift
Brand / Product : **HBI** Gun-metal Valves, CPVC, UPVC,
SWR & Agri Pipes & Fittings



MAINGI BROTHERS

Area : 50,000 sq ft
Installed Capacity : 200 Metric Ton / month on single shift
Brand / Product : **HBI** Extra Heavy Pipe Fittings
Jubilance Luxurious Bath Fittings

In India, **HB** is the most sought after brand in its category amongst
Consumers, Customers & Vendors.

To name a few...



Contact us for more references

Managing Director's Message



Charanjit Singh Maingi

"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution; it represents the wise choice of many alternatives."

William A. Foster.

Unrelenting professional standards, abundance in experience and innovation in technology ensures that we fully address and satisfy the needs of our consumers and benefactors. Cutting edge research and openness to change won HB Global the reputation of being technologically 'up to the minute and always future-aware'. We are a modern group that ensures the use of latest technology and infrastructure to provide BEST QUALITY at the BEST PRICE. Customer satisfaction is our highest priority.

We have invested our experience of 40 years in HB Metals. The results have been phenomenal so far and have encouraged us to introduce new products. It is a matter of immense pride & privilege for us as we release our revised catalogue for the information & reference, for all our valued patrons & consumers.

We take this opportunity to thank our worthy dealers, the word dealer does not explain our true relation with you, you are our family & this success story is equally yours. Together we have witnessed & sailed through the most extreme economic trends, these milestones wouldn't have been possible to achieve without your trust - 'We Value Your Trust'.

We must also pay tribute to our dedicated, loyal and committed workforce. It is without a doubt, with their sincere efforts that we have been able to achieve so much in the Valves market in so little time.

A key factor of our continued success is our openness to suggestions and feedback from our consumers and peers. We believe that an out-of-box view is often the seedling of fresh, new and fruitful ideas. We welcome and continue to encourage feedback from you all.

Director's Message



Amarinder Singh Maingi

"Everything can be improved."
C.W. Barron

I am privileged that I have been bequeathed the responsibility of taking HB Global into the future. I am extremely proud of my father his success is truly inspirational. I, in turn, aspire to demonstrate our individual abilities and take HB Global to an even greater level and continue along the upward path of achievement.

Fundamentally, we both understand that growth in business means constant adaptability to time and trends. We understand that we need to respond to the market as it stands now, in the 21st century. It is understood, that to do this, we must be vigilant to change, intelligent in response and quick to act. Business is fast-paced and competitive, an exciting world to be in.

Ours is a 3-dimensional vision, we look to grow in every aspect. We firmly believe that there is no end-point to growth. There will always be something new to achieve and excel in. We are excited to venture down 'roads undiscovered'. Not only will we introduce new products in the existing markets, but take ourselves to the markets yet unexplored both domestic and international.

Our belief is firm, that is, we have always been a customer orientated company. The company will continue to place a great emphasis on customer support. We plan to persist with strong marketing campaigns with our 'message' clear and concise, HB - the 'go to' people for pipe fittings, valves and cocks. We are a customer friendly and easy to access group, dedicated actions will be introduced in order to enhance our relationship further. We love our customers, you are our first priority!

"The best way to predict the future is to create it."
Peter Drucker

About us

Situated in an area of 70,000 sq ft, H B Metals is equipped with the most ultra modern Plant & Machinery. The inbuilt sophisticated Laboratory ensures rigid inspection at various stages of manufacturing & helps produce the finest valves & cocks with a guarantee of a life time. Consequently, HB Valves are regularly utilized for Industrial, Agricultural, Domestic and Commercial piping installation - on ground, underground and concealed without the fear of faults and rectifications there off.

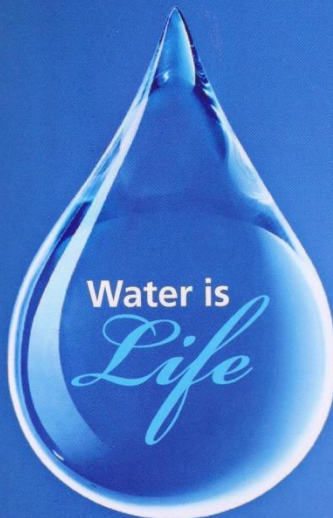
Since the time of its inception , H B Metals has nearly doubled its productions every year. The management has been successful in transferring its brand image & reputation of being **BEST IN QUALITY, COST EFFECTIVE & EXCELLENT IN SERVICE** from its successful Pipe Fittings business to the Valves & Cocks venture.

H B Metals has put together an aggressive Research & Development Wing with its prime focus on New Product Development. Please check our new Item Series 100 for new products in Gun Metal & Brass Alloys, Item Series 500 for new products in Stainless Steel Alloy & Item Series 1000 for new products in Cast Iron Alloy. We are further committed to continuously engage in developing more products to meet the huge demand of our valued customers & consumers.







 **The Right Choice!**



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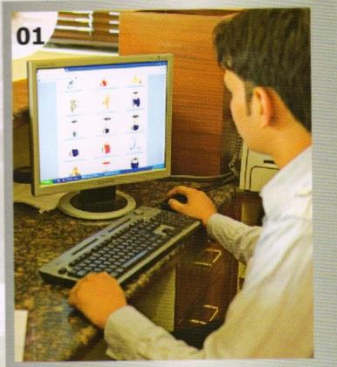


We keep it safe !

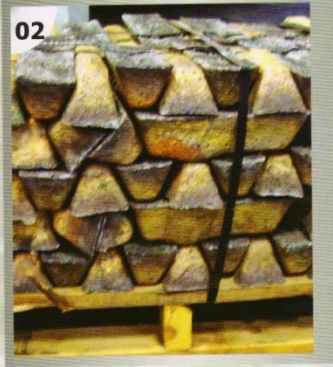
Bronze Gate Valve Screwed 	101
Bronze Gate Valve Flanged 	102
Bronze Gate Valve Hex. Type	103
Bronze Ball Valve Screwed	104
Brass Ball Valve Screwed	104 A
Brass Ball Valve Forged 	105
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Cast Iron Gate Valve Screwed	1001
Cast Iron Ball Valve Screwed	1002
Cast Iron Wafer Type Butterfly Valve	1003
Cast Iron Bib Tap	1004
Cast Iron Stop Cock	1005

PROCESS

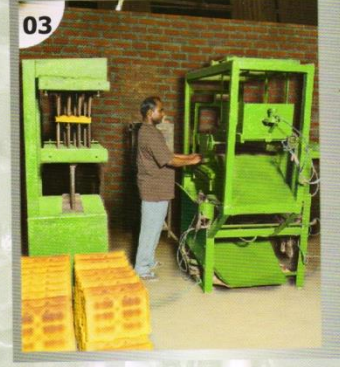
COMPUTER AIDED DESIGN



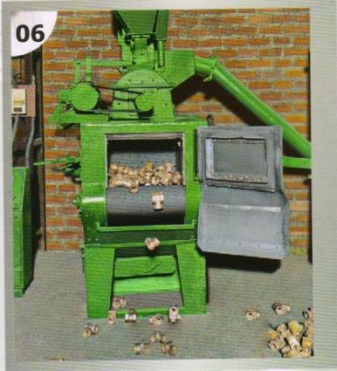
RAW MATERIAL



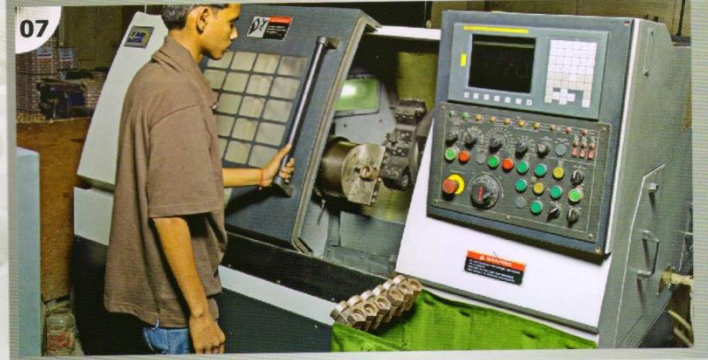
MOULD PREPARATION BY SHELL MOULDING



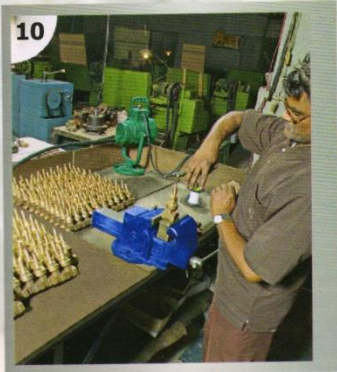
SHOT BLASTING



CNC - VMC PROCESS



ASSEMBLY OF VALVES



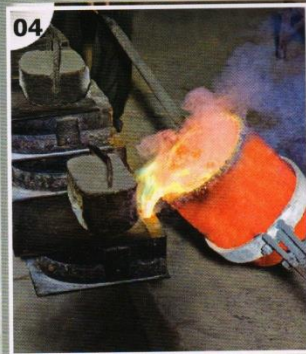
PRESSURE TESTING



FINAL INSPECTION



CASTING OF VALVES



CHEMICAL ANALYSIS



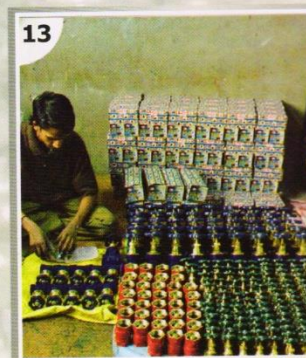
MACHINING OF VALVES



CUTTING & FINISHING



PAINTING & PACKING



FINAL DISPATCH





Valves

BRONZE GATE VALVE - SCREWED

Test Pressure Hydraulic | Body : 1.5 Mpa | Seat : 1.0 Mpa

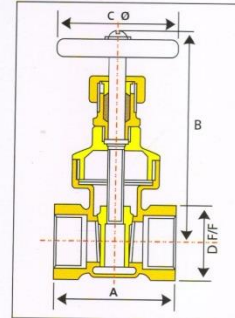
ITEM NO. 101



DIMENSIONS

Inches	mm	A	B	C	D
1/4	8	50	80	50	18
3/8	10	50	90	50	22
1/2	15	60	100	60	26
3/4	20	60	112	65	32
1	25	70	115	70	39
1 1/4	32	80	135	79	49
1 1/2	40	90	155	90	55
2	50	100	170	96	68
2 1/2	65	105	220	115	85
3	80	125	250	125	98
4	100	160	320	160	127

Technical Drawing



IS:778
Marked

SALIENT FEATURES :

- Screwed Female ends to BSP IS:554 / ISO:7
- Hand wheel Operated • Excellent performance
- Screwed in bonnet, Non Rising Spindle, Solid Wedge
- High Quality Lubricated Gland Packing
- Provision of re-packing under pressure
- Strictly conforming to IS:778 Class-1
- Available with open shut indicator & locking device also

WATER



AIR



STEAM



OIL



GASES



BEST FOR

MATERIALS

Description	Material	Specification
Body & Wedge	Bronze	IS:318 LTB2
Bonnet Stuffing Box	Bronze	IS:318 LTB2
Gland	Forged Brass	IS:6912 FLB
Stem	Forged Brass	IS:6912 FLB
Gland Nut	Bronze / Forged Brass	IS:318 LTB2 / IS:6912 FLB
Handwheel	Cast Iron / Mild Steel	IS:210 Gr. Fg-200
Screw / Bolt & Washer	Mild Steel	-
Gland Packing	Asbestos / Teflon	IS:4687 / PTFE

BRONZE GATE VALVE - FLANGED

Test Pressure Hydraulic | Body : 1.5 Mpa | Seat : 1.0 Mpa

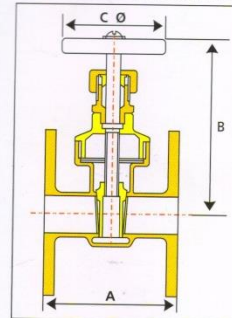
ITEM NO. 102



DIMENSIONS

Inches	mm	A	B	C
1/2	15	72	100	60
3/4	20	76	105	65
1	25	90	130	70
1 1/4	32	100	135	79
1 1/2	40	110	160	90
2	50	120	180	96
2 1/2	65	140	220	110
3	80	150	255	125
4	100	190	315	160

Technical Drawing



IS:778
Marked

SALIENT FEATURES :

- Flanged ends to IS:778
- Hand wheel Operated • Excellent in performance
- Screwed in bonnet, Non Rising Spindle, Solid Wedge
- High Quality Lubricated Gland Packing
- Provision of re-packing under pressure
- Strictly conforming to IS:778 Class-1
- Available with open shut indicator & locking device also
- Supplied undrilled, Drilling on Order

WATER



AIR



STEAM



OIL



GASES



BEST FOR

MATERIALS

Description	Material	Specification
Body & Wedge	Bronze	IS:318 LTB2
Bonnet Stuffing Box	Bronze	IS:318 LTB2
Gland	Forged Brass	IS:6912 FLB
Stem	Forged Brass	IS:6912 FLB
Gland Nut	Bronze / Forged Brass	IS:318 LTB2 / IS:6912 FLB
Handwheel	Cast Iron / Mild Steel	IS:210 Gr. Fg-200
Screw / Bolt & Washer	Mild Steel	-
Gland Packing	Asbestos / Teflon	IS: 4687 / PTFE



Valves

BRONZE GATE VALVE - HEX. TYPE

ITEM NO. 103



SALIENT FEATURES :

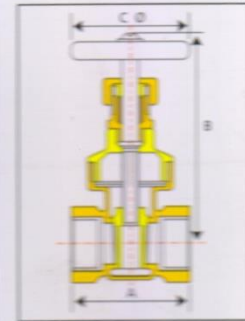
- Screwed Female ends to IS:554 / BS:21 / ISO:7
- Forged in bonnet, Wedge & Gland Nut is it's unique feature
- Body Designed for convenient fitting where space is the factor
- High Quality Teflon (PTFE) Gland Packing
- Screwed in bonnet, Non-Rising Spindle provided with unbreakable sheet metal hand wheel for convenient operation

DIMENSIONS

Inches	A	B	C
1/2	42	95	51
3/4	48	102	61
1	50	115	66
1 1/4	57	137	72
1 1/2	62	160	76
2	65	166	90

Test Pressure Hydraulic : 20 Kg/cm² g (300Psig)

Technical Drawing



MATERIALS

Description	Material	Specification
Body & Stem	Bronze	IS-318 LTB2
Bonnet Stuffing Box & Gland	Bronze / Forged Brass	IS-318 LTB2 / IS-6912 FLB
Gland Nut	Bronze / Forged Brass	IS-318 LTB2 / IS-6912 FLB
Handwheel	Cast Iron / Mild Steel	IS-210 Gr. Pg-200
Screw / Bolt & Washer	Mild Steel	-
Gland Packing	Asbestos / Teflon	IS-4807 / PTFE

WATER



AIR



STEAM



OIL



GASES



BEST FOR

BRONZE BALL VALVE - SCREWED

ITEM NO. 104



SALIENT FEATURES :

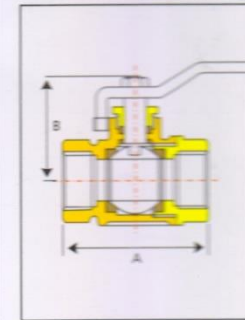
- Screwed Female ends to BSP
- Quarter turn, lever operated
- Full bore design
- Glass fitted teflon seating & gland packing
- Provided with S.S & S.S (AISI 410) Spindle / Brass
- Superior in quality & performance
- Ball valve with 500 Psig testing are also available

DIMENSIONS

Inches	mm	A	B
1/2	15	60	40
3/4	20	65	48
1	25	75	52
1 1/4	32	94	78
1 1/2	40	110	81
2	50	120	95
2 1/2	65	150	105
3	80	170	125
4	100	200	150

Test Pressure Hydraulic : 20 Kg/cm² g (300Psig)

Technical Drawing



MATERIALS

Description	Material	Specification
Body Bonnet & Gland Nut	Bronze	IS-318 LTB2
Ball	Brass / Stainless Steel	IS-6912 FLB / AISI-304
Stem	Brass / Stainless Steel	IS-6912 FLB / AISI-304
Disc & Packing	Teflon	PTFE
Nut	Mild Steel	-
Handle	Mild Steel	-

WATER



AIR



STEAM



OIL



GASES



BEST FOR



Valves

BRASS BALL VALVE SCREWED

ITEM NO. 104 A



SALIENT FEATURES :

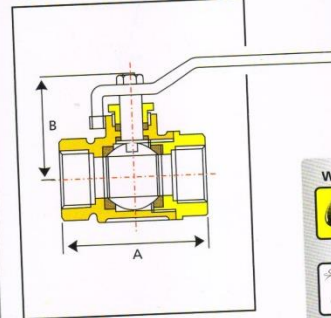
- Screwed Female ends to BSP
- Quarter turn, lever operated
- Full bore design
- Glass fitted teflon seating & gland packing
- Provided with S.S & S.S (AISI 410) Spindle / Brass
- Superior in quality & performance
- Ball valve with 500 Psig testing are also available

Test Pressure Hydraulic | 20 Kg/cm² g (300Psig)

DIMENSIONS

Inches	mm	A	B	C
1/2	15	56	43	110
3/4	20	63	43	110
1	25	72	51	110
1¼	32	75	75	120
1½	40	85	80	145
2	50	110	85	145

Technical Drawing



MATERIALS

Description	Material	Specification
Body & Connector	Cast Brass	IS: 1264 DC B-2
Stem	Forged Brass / SS	IS: 6912 / 304
Nut	M.S / Brass	IS: 1367 / IS: 6912
Washer	Steel	-
Handle	M.S	IS: 2062
Gland Nut	Cast Brass	IS: 1264 DC B-2
Gland Packing	PTFE	-
Ball	Brass / S.S	IS: 1704 / IS: 6912 / 304
Disc	PTFE	-



BRASS BALL VALVE - FORGED

ITEM NO. 105



SALIENT FEATURES :

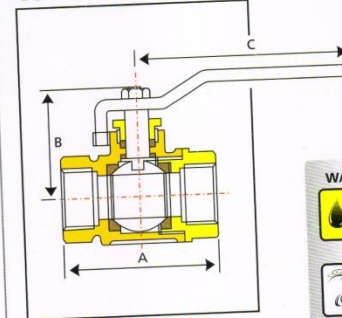
- Screwed Female ends to IS:554 / BS:21 / ISO:7
- Quarter turn, lever operated
- Full bore design
- Glass fitted teflon seating & gland packing
- Provided with forged brass hard chrome plated ball
- Superior in quality & performance

Test Pressure Hydraulic | 25 Kg/cm² g (350Psig)

DIMENSIONS

Inches	mm	A	B	C
1/8	8	47	37	90
3/8	10	47	37	90
1/2	15	50	40	90
3/4	20	58	43	120
1	25	67	51	120
1¼	32	76	65	170
1½	40	87	72	180
2	50	104	80	200
2½	65	139	102	250
3	80	141	104	240
4	100	175	132	240

Technical Drawing



MATERIALS

Description	Material	Specification
Body & Gland Nut	Forged Brass	IS:6912
Stem	Forged Brass	IS:6912
Nut	Mild Steel	IS:1367
Washer	Steel	-
Handle	Mild Steel	IS:2062
Gland Packing	PTFE	-
Ball	Forged Brass	IS:6912
Disc	PTFE	-
Bonnet	Forged Brass	IS:6912





Valves

BRONZE GLOBE VALVE - SCREWED

Test Pressure Hydraulic | Body: 1.5 Mpa | Seat: 1.0 Mpa

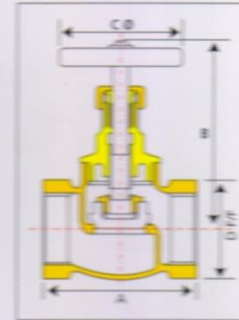
ITEM NO. 106



DIMENSIONS

Inches	mm	A	B	C	D
1/4	8	47	67	50	78
3/8	10	50	70	50	77
1/2	15	60	85	60	75
3/4	20	70	105	65	72
1	25	80	115	70	70
1 1/4	32	95	125	75	68
1 1/2	40	110	140	80	65
2	50	125	162	96	60
2 1/2	65	160	180	110	65
3	80	180	210	125	60
4	100	215	250	160	127

Technical Drawing



IS:778



SALIENT FEATURES :

- Screwed Female ends to BSP IS:554 / ISO:7
- Hand wheel Operated • Superb in Quality & performance
- Screwed in bonnet, Rising Spindle
- High Quality Lubricated Gland Packing
- Provision of re-packing under pressure
- Strictly conforming to IS:778 Class-1
- Available with open shut indicator & locking device also

BEST FOR

- WATER
- AIR
- STEAM
- OIL
- GASES

MATERIALS

Description	Material	Specification
Body & Wedge	Bronze	IS:318 LTB2
Bonnet Stuffing Box & Gland	Bronze / Forged Brass	IS:318 LTB2 / IS:6812 F1B
Stem	Forged Brass	IS:6812 F1B
Gland Nut	Bronze / Forged Brass	IS:318 LTB2 / IS:6812 F1B
Handwheel	Cast Iron	IS:210 Gr. Fig-200
Screw / Bolt & Washer	Mild Steel	-
Gland Packing	Asbestos / Teflon	IS:4687 / PTFE

BRONZE HORIZONTAL CHECK VALVE

Test Pressure Hydraulic | Body: 1.5 Mpa | Seat: 1.0 Mpa

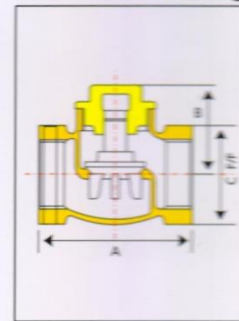
ITEM NO. 107



DIMENSIONS

Inches	mm	A	B	C
1/2	15	60	42	26
3/4	20	70	47	32
1	25	80	55	39
1 1/4	32	95	60	49
1 1/2	40	110	65	55
2	50	125	75	58
2 1/2	65	160	100	85
3	80	180	125	98
4	100	215	180	127

Technical Drawing



IS:778



SALIENT FEATURES :

- Screwed female ends to BSP IS:554 / ISO:7
- Strictly conforming to IS:778 Class-1
- Beauty is visual appearance
- Screwed in bonnet, meant for horizontal lines only
- Metal disc in mushroom shaped with spherical seating surface
- Permits flow in one direction and closed automatically if the flow reverses

BEST FOR

- WATER
- AIR
- STEAM
- OIL
- GASES

MATERIALS

Description	Material	Specification
Body	Bronze	IS:318 LTB2
Bonnet	Bronze	IS:318 LTB2
Disc	Bronze	IS:318 LTB2



Valves

BRONZE VERTICAL CHECK VALVE

Test Pressure Hydraulic | Body:1.5 Mpa | Seat:1.0 Mpa

ITEM NO. 108



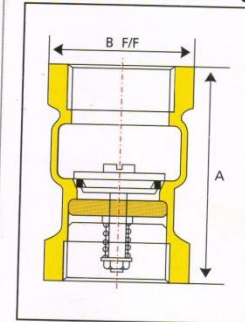
SALIENT FEATURES :

- Screwed Female ends to BSP IS:554 / ISO:7
- Single Piece Design
- Meant for vertical lines only
- Strictly conforming to IS:778 Class-1
- Compelling visual appeal
- Permits flow in vertical direction and closes automatically if the flow reverses

DIMENSIONS

Inches	mm	A	B
1/2	15	65	26
3/4	20	70	32
1	25	75	39
1 1/4	32	85	49
1 1/2	40	95	55
2	50	110	68
2 1/2	65	130	85
3	80	145	98
4	100	190	127

Technical Drawing



IS:778
Marked

MATERIALS

Description	Material	Specification
Body	Bronze	IS:318 LTB2
Disc	Bronze	IS:318 LTB2
Nut	Brass	IS:6912 FLB
Split Pin	Phosphorous Bronze	-
Spring	Phosphorous Bronze	-



BRONZE SWING CHECK VALVE

Test Pressure Hydraulic | Body:1.5 Mpa | Seat:1.0 Mpa

ITEM NO. 109



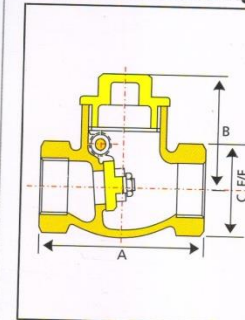
SALIENT FEATURES :

- Screwed female ends to BSP
- Strictly conforming to IS:778 Class-1
- Beauty is visual appearance
- Screwed in bonnet
- Metal disc suitably shaped with lining of seating surface
- Permits flow in one direction and closed automatically if the flow reverses
- Can be used in horizontal as well as vertical directions

DIMENSIONS

Inches	mm	A	B	C
1/2	15	65	42	26
3/4	20	75	47	32
1	25	95	55	39
1 1/4	32	105	60	49
1 1/2	40	125	65	55
2	50	150	75	58
2 1/2	65	180	100	85
3	80	210	125	98
4	100	300	180	127

Technical Drawing



IS:778
Marked

MATERIALS

Description	Material	Specification
Body	Bronze	IS:318 LTB2
Bonnet	Bronze	IS:318 LTB2
Disc	Bronze	IS:318 LTB2





Valves

BRONZE WHEEL VALVE

ITEM NO. 110
110A



SALIENT FEATURES :

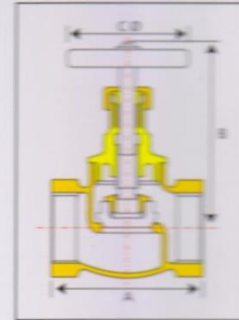
- Screwed female ends to IS:554 / BS:21 / ISO:7
- High Quality Teflon (PTFE) Gland Packing
- Medium Pattern
- Inside Screw, Rising Spindle, Screwed in bonnet
- Sturdy Hand Wheel for smooth operation

Test Pressure Hydraulic : 20 Kg/cm² g (300Psi)

DIMENSIONS

Inches	mm	A	B	C
1/4	8	33	60	34
3/8	10	37	60	38
1/2	15	45	70	50
3/4	20	53	85	57
1	25	57	93	62
1 1/4	32	71	109	76
1 1/2	40	80	117	80
2	50	86	137	86
2 1/2	65	107	154	120
3	80	123	184	130
4	100	159	224	160

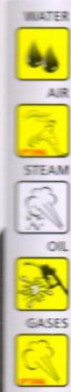
Technical Drawing



MATERIALS

Description	Material	Specification
Body, Bonnet & Disc	Bronze	IS-318 LTB2
Disc Nut, Gland & Gland Nut	Bronze / Brass	IS-318 LTB2 / IS-68712 F18
Stem	Brass	IS-68712 F18
Handwheel	Cast Iron	IS-210 (G. Ry-200)
Screw / Bolt & Washer	Mild Steel	IS-1207
Gland packing	Asbestos / Teflon	IS-4807 / PTFE

Also available with PTFE Sealing for Air & Gas applications



BRONZE HORIZONTAL CHECK VALVE

ITEM NO. 111



SALIENT FEATURES :

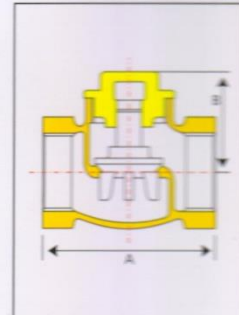
- Screwed Female ends to IS:554 / BS:21 / ISO:7
- Metal disc in mushroom shaped with spherical seating surface
- Medium Pattern
- Screwed in bonnet, meant for horizontal lines only
- Disc is guided in bore as well as in bonnet
- Permits flow in one direction & closes automatically if the flow reverses

Test Pressure Hydraulic : 20 Kg/cm² g (300Psi)

DIMENSIONS

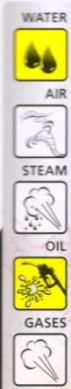
Inches	mm	A	B
1/4	8	33	24
3/8	10	37	28
1/2	15	45	32
3/4	20	53	37
1	25	57	41
1 1/4	32	71	46
1 1/2	40	80	52
2	50	86	66
2 1/2	65	107	80
3	80	123	94
4	100	159	104

Technical Drawing



MATERIALS

Description	Material	Specification
Body	Bronze	IS-318 LTB2
Bonnet	Bronze	IS-318 LTB2
Disc	Bronze	IS-318 LTB2





Valves

BRONZE VERTICAL CHECK VALVE - SCREWED

ITEM NO. 112



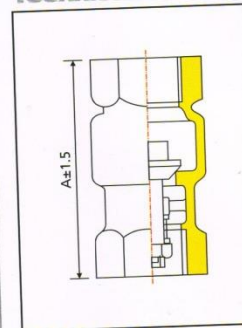
SALIENT FEATURES :

- Screwed Female Ends to IS:554 / BS:21 / ISO:7
- Single Piece Design, Integral Seat
- Meant for Vertical Lines only
- Permits flow in one direction and shuts automatically if the flow reverses
- Spring Loaded and 'O' Ring Type
- Also available with metal to metal seating

DIMENSIONS

Inches	mm	A
1/2	15	55
3/4	20	66
1	25	76
1 1/4	32	80
1 1/2	40	85
2	50	93
2 1/2	65	114
3	80	118
4	100	141

Technical Drawing



MATERIALS

Description	Material	Specification
Body	Bronze	IS:318 Gr. LTB2
Disc	Bronze	IS:318 Gr. LTB2
Nut	Brass	IS:319 Gr. 2 (Half Hard)
Spring	Stainless Steel	AISI-304
Split Pin	Phosphorus Bronze	IS:7608
O Ring	Nitrile Rubber	IS:5192-1



BRASS FOOT VALVE

ITEM NO. 113



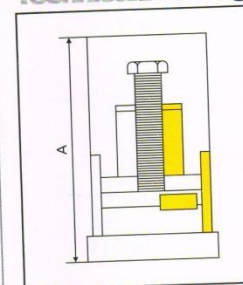
SALIENT FEATURES :

- Screwed Female ends to BSP IS:554 / ISO:7
- Fine finish
- Best quality spring ensures better functioning
- Natural rubber ensures long life leak proof service

DIMENSIONS

Inches	mm	A
1/2	15	73
3/4	20	74
1	25	82
1 1/4	32	93
1 1/2	40	96
2	50	110
2 1/2	65	123
3	80	129
4	100	135

Technical Drawing



MATERIALS

Description	Material	Specification
Body	Brass	IS:318 LTB2
Valve	Brass	IS:318 LTB2
Washer	Rubber	Natural
Spring	Stainless Steel	AISI-410
Nut	Brass	IS:6912





Valves

BRONZE COMPACT PRESSURE REDUCING VALVE - SCREWED

ITEM NO. 114



SALIENT FEATURES :

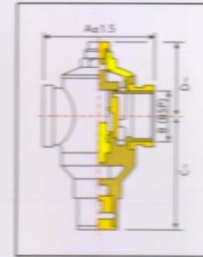
- Screwed Female ends to IS:554 / BS:21 / ISO:7
- Easy to Install
- No Diaphragm, Piston Type, provided with High Quality Nitrile Rubber O Rings
- With a provision of installation of a pressure gauge is provided

Test Pressure Hydraulic | 25 Kg/cm² g (350Psig)

DIMENSIONS

Inches	mm	A	B	C	D
1/2	15	62	1/2"	68	44
3/4	20	62	3/4"	68	44
1	25	86	1"	93	61
1 1/4	32	91	1 1/4"	99	65
1 1/2	40	91	1 1/2"	99	65
2	50	91	2"	101	71
2 1/2	65	135	2 1/2"	130	87
3	80	160	3"	150	101
4	100	160	4"	162	115

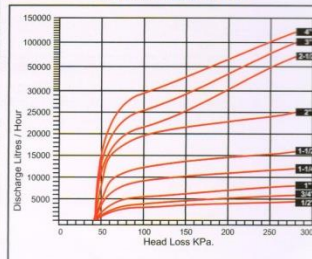
Technical Drawing



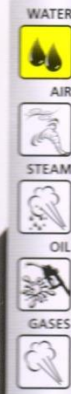
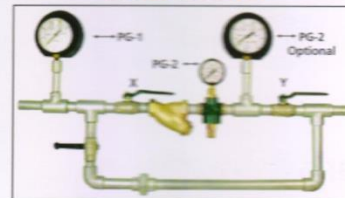
MATERIALS

Description	Material	Specification
Body	Bronze	IS:2118 LTRC2
Bonnet & Chamber	Brass	IS:6912
Piston, Disc Holder & Cap	Bronze	IS:2118 LTRC2
Adjustable Ring	Brass	IS:6912
Disc & O-Ring	Nitrile Rubber	Natural
Plug	Brass	IS:6912

HYDRAULIC DATA



LAYOUT DIAGRAM



BRASS FLOAT VALVE

ITEM NO. 115



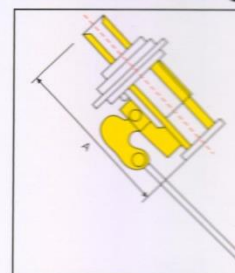
SALIENT FEATURES :

- Screwed to Male end BSP Threads to BS:21 / IS:554
- Smooth working
- Natural Rubber washer used
- Superior Grade Rubber insuring absolute zero health hazards

DIMENSIONS

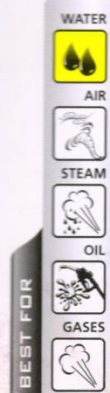
Inches	mm	A
1/2	15	85
3/4	20	87
1	25	98
1 1/4	32	122
1 1/2	40	123
2	50	165

Technical Drawing



MATERIALS

Description	Material	Specification
Body	Brass	IS:1264 DCB-2
Plunger	Brass	IS:1264 DCB-2
Check Nut	Brass	IS:1264 DCB-2
Rod	Brass	IS:6912
Washer	Rubber	Natural





Valves

BRASS SWING CHECK VALVE

ITEM NO. 116



SALIENT FEATURES :

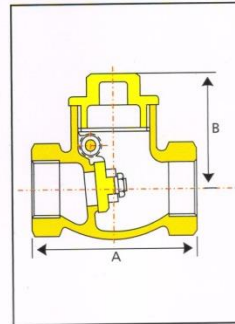
- Screwed to female threads to IS:554 / ISO:7
- Good Looking
- Smooth & leak proof performance

Test Pressure Hydraulic | Body:1.5 Mpa | Seat:1.0 Mpa

DIMENSIONS

Inches	mm	A	B
1/2	15	58	45
3/4	20	70	52
1	25	80	59
1¼	32	95	70
1½	40	105	85
2	50	116	90

Technical Drawing



MATERIALS

Description	Material	Specification
Body	Brass	IS:6912 FLB
Bonnet	Brass	IS:6912 FLB
Hinge Pin	Brass	IS:6912 FLB
Ball	Brass	IS:6912 FLB
Disc	Brass	IS:6912 FLB



ITEM NO. 117



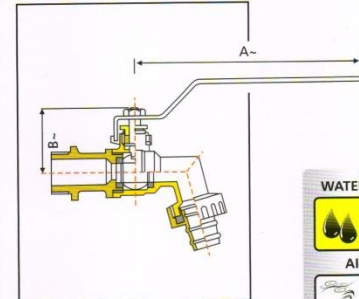
SALIENT FEATURES :

- Screwed Male ends to IS:554 / BS:21 / ISO:7
- Provided with chrome plated Brass ball
- Comes with a sturdy Hose union

DIMENSIONS

Inches	mm	A	B
1/2	15	115	34

Technical Drawing



MATERIALS

Description	Material	Specification
Body & Stem	Forged Brass	IS:6912
Disc	PTFE	-
Gland	Forged Brass	IS:6912
Sleeve	Rubber	Natural
Ball & Adaptor	Forged Brass	IS:6912
Thrust Washer & Packing Ring	PTFE	-
Handle	Mild Steel	IS:2062
Nut	Forged Brass	IS:6912
Hose Pipe & Hose Nut	Forged Brass	IS:6912
Washer	Rubber	Natural





Valves

BRONZE UNION BONNET

ITEM NO. **119**
119A



SALIENT FEATURES :

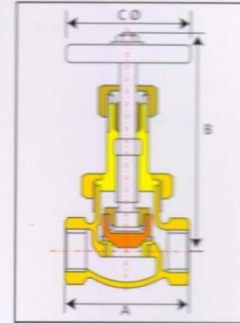
- Screwed Female ends to IS:554 / BS:21 / ISO:7
- Renewable 13% Cr. Stainless Steel (AISI:410) working parts
- Provision of re-packing under pressure
- Screwed in bonnet, rising spindle
- Hand wheel Operated
- BSPT threads also available on demand

Test Pressure Hydraulic | 35 Kg/cm² g (500Psig)
Max Working Temperature | 225°C

DIMENSIONS

Inches	mm	A	B	C
1/4	8	60	100	60
3/8	10	60	100	60
1/2	15	68	117	70
3/4	20	84	132	80
1	25	95	148	86
1 1/4	32	106	176	102
1 1/2	40	120	188	102
2	50	146	216	127
2 1/2	65	180	248	150
3	80	200	270	170
4	100	248	332	190

Technical Drawing



MATERIALS

Description	Material	Specification
Body, Bonnet & Gland	Bronze	IS-318 LTB2
Disc Nut & Gland Nut	Bronze	IS-318 LTB2
Stem Disc & Body Seat Ring	Stainless Steel	AISI-410
Handwheel	Cast Iron	IS-210 Gr. Fg-200
Nut & Washer	Mild Steel	IS-1267
Gland Packing	Asbestos / PTFE	IS-4687

Also available with PTFE Seating for Air & Gas applications



ITEM NO. **120**



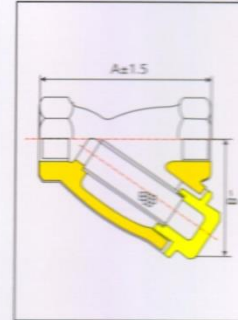
SALIENT FEATURES :

- Screwed Female Ends to BSPT IS:554 / ISO:7
- Stainless Steel perforated sheet guided in body & bonnet
- Fine finish and better contours to minimize pressure drop

DIMENSIONS

Inches	mm	A	B
1/2	15	73	64
3/4	20	100	86
1	25	121	94
1 1/4	32	148	116
1 1/2	40	161	128
2	50	200	162

Technical Drawing



MATERIALS

Description	Material	Specification
Body	Bronze	IS-318
Cover	Bronze	IS-318
Gasket	Steam Jointing Sheet	IS:2712 Gr. W/3
Screen	Stainless Steel / Brass	IS:410 / AISI:304





Valves

BRASS Y-TYPE STRAINER - SCREWED

ITEM NO. 121



SALIENT FEATURES :

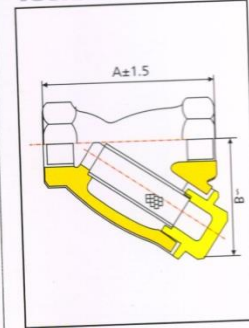
- Screwed Female Ends to BSPT IS:554 / ISO:7
- Stainless Steel perforated sheet guided in body & bonnet
- Fine finish and better contours to minimize pressure drop

Test Pressure Hydraulic | 31.15Kg/cm² g (500Psig)

DIMENSIONS

Inches	mm	A	B
1/2	15	55	41.5
3/4	20	65	49
1	25	78	60
1 1/4	32	90	68.5
1 1/2	40	105	78.5
2	50	125	96.5

Technical Drawing



MATERIALS

Description	Material	Specification
Body	Brass	IS:318
Cover	Brass	IS:318
Gasket	Steam Jointing Sheet	IS:2712 Gr. W/3
Screen	Stainless Steel / Brass	IS:410 / AISI:304



BRONZE FERRULE COCK

ITEM NO. 123



SALIENT FEATURES :

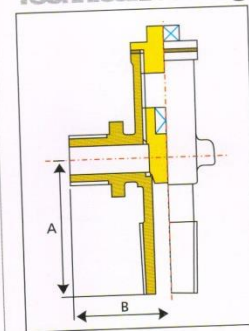
- Screwed Male ends (Inlet to BSPT & Outlet to BSP)
- Heavy Pattern, Rough body, Full Flow
- Smooth in operation
- Can withstand heavy traffic impact of water as well as tolerance of high sudden pressure

Test Pressure Hydraulic | 20 Kg/cm² g (300Psig)

DIMENSIONS

Inches	Type	mm	A	B
1/2	Light	15	51	36
1/2	Medium	15	58	37
1/2	Heavy	15	65	50

Technical Drawing



MATERIALS

Description	Material	Specification
Body	Bronze	IS:318 LTB2
Disc	Bronze	IS:318 LTB2
Plug	Bronze	IS:318 LTB2
Joint Washer	Leather	





BRONZE SPRING LOADED SAFETY RELIEF VALVE (Screwed)

ITEM NO. **124**



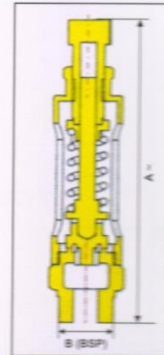
SALIENT FEATURES :

- Screwed Male end to IS 554/ BS 21/ ISO 7.
 - Open discharge Type.
 - Metal to metal contact seating.
 - Polished body
- Valve with enclosed discharge is also available

DIMENSIONS

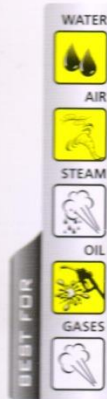
Inches	mm	A	B
1/2	15	140	1/2"
3/4	20	160	3/4"
1	25	168	1"
1 1/4	32	170	1 1/4"
1 1/2	40	200	1 1/2"
2	50	240	2"

Technical Drawing



MATERIALS

Description	Material	Specification
Adjusting Screw	Bronze	IS- 318 Gr. LTB 2
Check Nut	Bronze	IS- 318 Gr. LTB 2
Chamber	Bronze	IS- 318 Gr. LTB 2
Upper Spring Guide	Bronze	IS- 318 Gr. LTB 2
Spring	Spring Steel Chrome Plated	EN: 47 Gr. B
Stem	Forged Brass	IS- 6912 Gr. FLB
Disc	Bronze	IS- 318 Gr. LTB 2
Body	Bronze	IS- 318 Gr. LTB 2



BRONZE SPRING LOADED SAFETY RELIEF VALVE, ENCLOSED DISCHARGE (Screwed)

ITEM NO. **125**



SALIENT FEATURES :

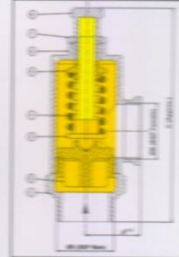
- Screwed male end to IS 554 / BS 21 / ISO 7.
- Enclosed Discharge Type.
- Metal to Rubber contact seating.

Test Pressure Hydrostatic | Shell : 21.10 kg/cm²g (300 psig)
 Seat : 10.55 kg/cm²g (150 psig) | Seat Pressure Range : 0-10 kg/cm²g (Max.)
 Maximum Working Temperature : 80°C

DIMENSIONS

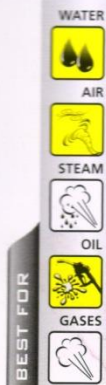
Inches	mm	A ± 1.5	B	C ~
1/2	15	33	1/2"	146
3/4	20	38.5	3/4"	160
1	25	45	1"	173
1 1/4	32	45	1 1/4"	190
1 1/2	40	57	1 1/2"	220
2	50	57	2"	240

Technical Drawing



MATERIALS

Description	Material	Specification
Body	Bronze	IS 318 Gr. LTB 2
Disc	Bronze	IS 318 Gr. LTB 2
Stem	Forged Brass	IS 6912 Gr. FLB
Spring	Spring Steel	EN 47 Gr. B
Spring Disc	Bronze	IS 318 Gr. LTB 2
Chamber	Bronze	IS 318 Gr. LTB 2
Check Nut	Bronze	IS 318 Gr. LTB 2
Adjusting Screw	Bronze	IS 318 Gr. LTB 2
Disc Facing	Nitrile Rubber	IS 5192 - 1
Guide	Bronze	IS 318 Gr. LTB 2
Nut	Brass	---
Split Pin	Brass	---





Valves

STAINLESS STEEL BALL VALVE CF8

ITEM NO. 501



SALIENT FEATURES :

- Screwed Female Ends to IS:554 / BS:21 / ISO:7
- Full Bore design, Quarter turn, Lever operated
- Amazing visual appearance

Test Pressure Hydraulic | 103 Kg/cm² g (1500Psig)

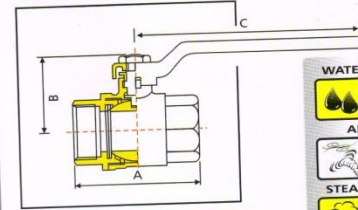
DIMENSIONS

Inches	mm	A	B	C
1/2	15	62	50	90
3/4	20	70	62	102
1	25	82	69	120

MATERIALS

Description	Material	Specification
Body & Bonnet	Stainless Steel	CF-8
Ball	Stainless Steel Rod	SS:202
Stem	Stainless Steel	AISI:304
Nut	Stainless Steel	AISI:304
Lever	Carbon Steel	IS:2062
Ring & Gasket	PTFE	-

Technical Drawing



CAST IRON GATE VALVE SCREWED

ITEM NO. 1001



SALIENT FEATURES :

- Screwed Female ends to IS:554 / ISO:7
- Hand Wheel operated
- Excellent performance
- Screwed in Bonnet, Non-Rising Spindle, Solid Wedge
- High quality lubricated Gland Packing
- Provision for Re-packing under pressure

DIMENSIONS

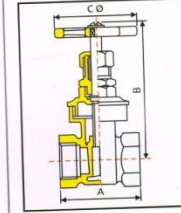
Inches	mm	A	B
1/2	15	60	110
3/4	20	60	122
1	25	70	135
1 1/4	32	80	155
1 1/2	40	90	170
2	50	100	180
2 1/2	65	105	225
3	80	125	260
4	100	160	325

MATERIALS

Description	Material	Specification
Body	Cast Iron	IS:210 FG 200
Wheel	Cast Iron	IS:210 FG 200
Bonnet	Cast Iron	IS:210 FG 200
Stem	Brass / Stainless Steel	IS:6912 FLB / AISI:410
Packing	Asbestos	IS:4687
Screw & Washer	Mild Steel	IS:1367
Washer	Rubber	IS:4346

Test Pressure Hydraulic | 20 Kg/cm²

Technical Drawing



CAST IRON BALL VALVE SCREWED

ITEM NO. 1002



SALIENT FEATURES :

- Screwed Female ends to BSP
- Quarter turn, Lever operated
- Full Bore design
- Glass filled Teflon setting & Gland Packing
- Provided with Stainless Steel & Stainless Steel (AISI:410) Spindle / Brass
- Superior in Quality & Performance

DIMENSIONS

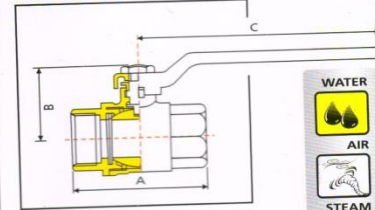
Inches	mm	A	B	C
1/4	8	47	37	90
3/8	10	47	37	90
1/2	15	72	40	90
3/4	20	84	43	120
1	25	96	51	120
1 1/4	32	76	65	154
1 1/2	40	87	72	154
2	50	104	80	170
2 1/2	65	139	102	250
3	80	160	125	250
4	100	180	140	350

MATERIALS

Description	Material	Specification
Stem	Stainless steel	IS:6605 / AISI:410
Nut	Mild Steel	-
Washer	Rubber	-
Handle	Mild Steel	-
Gland Nut	Mild Steel	-
Body	Cast Iron	IS:210 FG 200
Gland Packing	PTFE	-
Ball	Stainless Steel	AISI:410

Test Pressure Hydraulic | 25 Kg/cm² g (350Psig)

Technical Drawing





Valves

CAST IRON WAFER TYPE BUTTERFLY VALVE

ITEM NO. **1003** 1003A / 1003B / 1003C



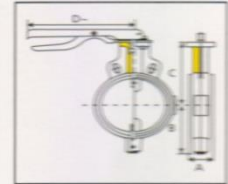
SALIENT FEATURES :

- Special design to be leak proof or maintenance free long service life
- Lever is elastomer protecting body shaft from corrosion
- Lever of nitrile ensures permant leak proof tightness
- Optimum regulating performance ensured

DIMENSIONS

Inches	mm	A	B	C	D
1½	40	37	47	88	260
2	50	43	65	98	260
2½	65	46	74	110	260
3	80	48	82	117	260
4	100	52	102	148	260
5	125	56	122	158	260
6	150	56	144	177	260
8	200	60	169	235	Gear Operated
10	250	68	214	259	Gear Operated
12	300	78	249	284	Gear Operated

Technical Drawing



PN10 Seat Test Pressure Hydraulic | 11bar
PN16 Seat Test Pressure Hydraulic | 17.6bar

MATERIALS

Description	Material	Specification
Flow Control Lever	Mild Steel	Fabricated (Powder Coated)
Notch Plate	Mild Steel	IS-2062
Counter Sunk Screw & Nut	Mild Steel	IS-1263
Upper Stem Bush	PTFE	-
Body	Cast Iron	IS-210 FG-200
Upper Stem	Stainless Steel	IS-6603 / AISI-410
Taper Pin	Stainless Steel / Carbon steel	IS-6603 / AISI-410
Body Lining	Nitrile / Neoprene / Viton	-
Disc	Cast Iron / Stainless Steel	IS-210 FG 200 / AISI304
Identification Plate	Aluminium	-
Lower Stem Bush	PTFE	-
Lower Stem	Stainless Steel	IS-6603 / AISI-410
Nuts & Bolts	Carbon Steel	Min. UTS 300N/mm ²

BEST FOR

- WATER
- AIR
- STEAM
- OIL
- GASES

CAST IRON BIB TAP

ITEM NO. **1004**



SALIENT FEATURES :

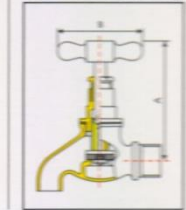
- Screwed Male Ends to IS:554 / BS:21 / ISO:7
- Screwed in bonnet, screwdown type
- Single Piece Washer plate with non-perishable synthetic rubber washer
- Heavy Pattern
- Excellent in performance

Test Pressure Hydraulic | 20 Kg/cm² g (300Psig)

DIMENSIONS

Inches	mm	A	B
1/2	15	88	60

Technical Drawing



MATERIALS

Description	Material	Specification
Body & Bonnet	Cast Iron	IS-210 FG 200
Gland & Handle	Cast Iron	IS-210 FG200
Stem	Brass	IS-6912 FLB
Washer Plate & Nut	Brass	IS-319 Gr 2 (Half Hard)
Washer	Rubber	IS-4346
Gland Packing	Asbestos	IS-4687
Joint Washer	Leather	-

BEST FOR

- WATER
- AIR
- STEAM
- OIL
- GASES

CAST IRON STOP COCK

ITEM NO. **1005**



SALIENT FEATURES :

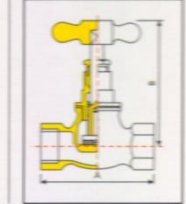
- Screwed Female ends to IS:554 / BS:21 / ISO:7
- Screwed bonnet screwdown type
- Single piece washer plate with non-perishable synthetic rubber washer
- Heavy Pattern
- Excellent in performance

Test Pressure Hydraulic | 20 Kg/cm² g (300Psig)

DIMENSIONS

Inches	mm	A	B
1/2	15	76	80

Technical Drawing



MATERIALS

Description	Material	Specification
Body & Bonnet	Cast Iron	IS-210 FG 200
Gland & Handle	Cast Iron	IS-210 FG 200
Stem	Brass	IS-6912 FLB
Washer Plate & Nut	Brass	IS-319 Gr 2 (Half Hard)
Washer	Rubber	IS-4346
Joint Washer	Leather	-
Gland Packing	Asbestos	IS-4687

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We Value Your Trust



HB METALS

Opp. Transport Nagar, Bulandpur Road,
Bye Pass, Jalandhar - 144 004 (Punjab) INDIA
Phones : +91-181-5014334, Mob: +91-70872-89000
Email: customercare@hbglobal.in, hb_metals@yahoo.co.in

www.hbglobal.in • www.hbgroup.in