25 YEARS
1997-2022

FHT VALVES
FLOW EXPERIENCE

REV.0 APR 22

BRONZE VALVES
CATALOGUE

www.fhtvalves.com

International Standards

100% European Production

CE 0036

TA-LUFT CERTIFIED FOR LOW EMISSIONS

SIL

ISO 9001

ISO 15484-1

API 6D

Ex

TÜV Rheinland FIRE SAFE

AD-2000 MERKBLATT

25 YEARS 1997-2022

25 years

DESIGNING QUALITY
and many projects to come

German Designs

FHT valves is a state-of-the-art factory manufacturing high quality ball valves since 1997. Our roots go back to the first German manufacturers and designs. Using our experience in the field of chemical industry, we have improved those designs, to achieve the best possible quality and best performance.

Huge manufacturing range, 100% European

During these years we have expanded our manufacturing range and developed the strategy to be present worldwide. Our factory is close to achieving perfection in quality without No Conformities of our customers or accidents in our workshops. 100% of the manufacturing process of our valves is carried out within the European Economic Community, meeting all European standards. We are fully involved in the security of the whole process.

Clean processes, vision for the future

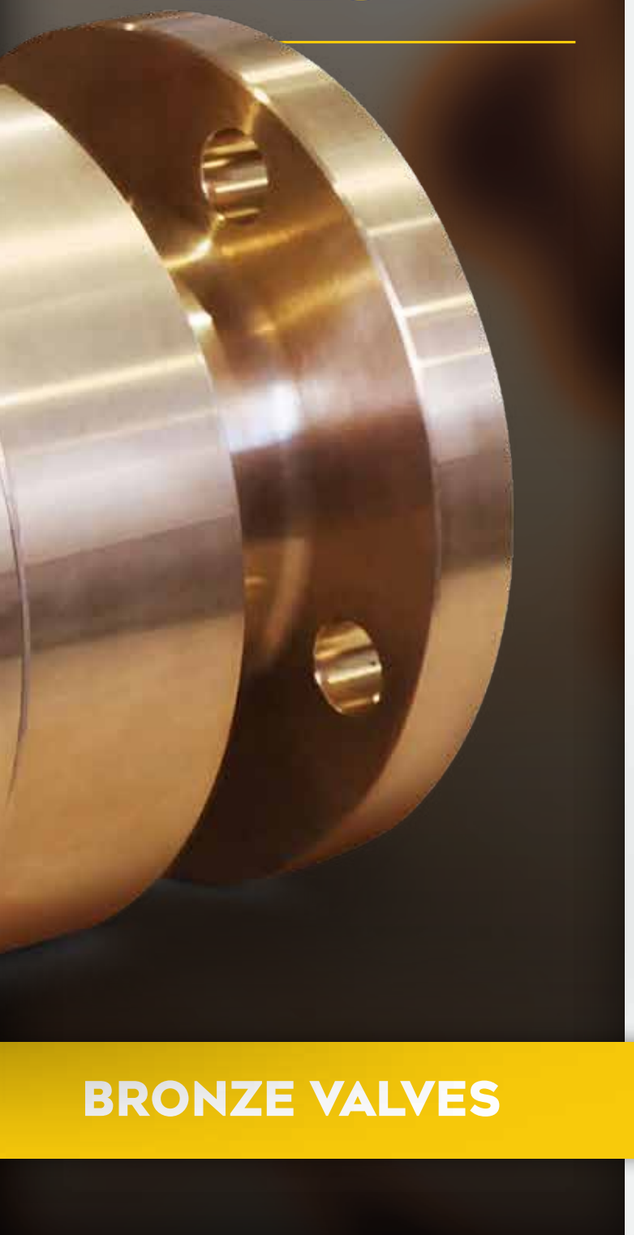
We are increasingly focusing on clean processes such as Hydrogen and Green Energy, as well as other industries such as CHEMICAL, PETROCHEMICAL, OIL AND GAS, ENERGY, PULP AND PAPER, WATER, MARINE SERVICES.

Continuous commitment manufacturing with the highest quality

On our 25th anniversary at **FHT valves**, we are immersed in a process of growth that includes industrial buildings and modern machinery that will serve to continue offering a quality service and a product of which we can feel proud.

New Building infographíc
FHT valves - Mungia
Karmelo etxegarai 60
48100 Mungia

BRONZE VALVES



BRONZE VALVES

WHY BRONZE?
for marine serices

Bronze offers great resistance to corrosion, wear and even to the action of non-oxidizing acids. All this makes it the ideal material for hydraulic equipment, as well as valves, pumps, bushings, pistons, gears, toothed crowns, bushings, clutch discs, springs, etc. both in the maritime and automotive sector.

On the other hand, because **bronze is a material that does not oxidize**, since it contains an insignificant amount of iron, it is the optimal material for the manufacture of valves used in aggressive environments such as that caused by sea water. Because of this, **this type of valve is in great demand in the naval sector.**

Finally, given the **high durability of bronze**, the use of bronze valves ensures high profitability, as they have a very high service life, as well as minimal maintenance, which generates the consequent savings in costs.

To conclude, copper is a very durable metal, since it can be recycled an almost unlimited number of times without losing its mechanical properties, which makes bronze a **totally environmentally friendly material.**

Bronze valves are the most suitable for Marine services, among others.

Bronze is not a pure metal, but an alloy of the so-called “copper base” or “non-ferrous” and consists mainly of copper and tin, although aluminium, lead, zinc or nickel can also be added to achieve performances and qualities suitable for different industrial uses.

Bronze was the first major alloy obtained by man, giving its name to an entire historical epoch known as the Bronze Age. Over the centuries, this metal has been used to manufacture products as diverse as weapons, tools, sculptures, cannons, bells, musical instruments and coins, among others. Nowadays, it is also used in the industry, being very common use for the manufacture of bronze valves.

The main sectors requiring FHT bronze valves are **naval, petrochemical, sanitation and industrial.** However, given the noble characteristics of this alloy, bronze valves are also applicable to sectors as diverse as nuclear, offshore or energy, among others.

All our valves are tested and meet the most demanding European standards.

RANGE OF PRODUCTION SUMMARY

MAIN RANGE

DIN & ANSI STANDARDS

SIZE: ANSI FROM ½" UP TO 56"
DIN: DN 15 UP TO DN 1400

PRESSURE ANSI: CLASS: 150, 300, 600, 800, 900, 1500 AND 2500
DIN: PN 10 UP TO PN 420

FULL BORE AND REDUCED BORE

END CONNECTION FLANGED RF, RTJ, FF, WELDING ENDS AND THREADED

CONSTRUCTION SIDE ENTRY, SPLIT BODY, 2 PIECES, 3 PIECES, FULLY WELDED & TOP ENTRY

SEATS SOFT SEATS AND METAL SEATS

2 WAYS, 3 WAYS AND 4 WAYS

TEMPERATURES HIGH TEMPERATURE (500ºC), NORMAL TEMPERATURE, AND CRYOGENIC (-196ºC)

MATERIALS CARBON STEEL, STAINLESS STEEL, DUPLEX, SUPER DUPLEX, MONEL, INCONEL, TITANIUM, ALUMINIUM-BRONZE AND ANY SPECIAL MATERIAL UNDER REQUEST.

CERTIFICATES API, ISO 9001; ISO 14001, ATEX, CE, SIL, AD MERKBLATT, TA-LUFT, PAS 1085, EN161, ...

MANUAL VALVES, ON/OFF VALVES, ESDV, MOV AND TAILOR-MADE AUTOMATION

FLOATING SOFT SEATED
TWO PIECE
112·INTEC
Double Packing & Double Stem Seal

113GL·INTEC
Double Packing & Double Stem Seal, Spring Loaded

115 ·INTEC
Autoadjustable Packing

125·INTEC
Autoadjustable Packing, Friction-Free Shaft

125GL·INTEC
Autoadjustable Packing, Friction-Free Shaft, Spring Loaded

130·INTEC
Autoadjustable Packing, Threaded Ends

131 - INTEC
Autoadjustable Packing, Welding Ends

TRUNNION SOFT SEATED
TWO PIECE
115G·INTEC
Autoadjustable Packing, Spring Loaded

117G·INTEC
Protected Seats & Spring Loaded, Autoadjustable Packing

THREE PIECE
115G-3P·INTEC
Autoadjustable Packing, Spring Loaded

117G-3P - INTEC
Protected Seats & Spring Loaded, Autoadjustable Packing

FLOATING METAL SEATED
TWO PIECE
114·INTEC
Autoadjustable Packing, Spring Loaded

TRUNNION METAL SEATED
TWO PIECE
116G·INTEC
Autoadjustable Packing, Spring Loaded

118G·INTEC
Protected Seats & Spring Loaded, Autoadjustable Packing

THREE PIECE
116G-3P - INTEC
Autoadjustable Packing, Spring Loaded

118G-3P - INTEC
Protected Seats & Spring Loaded, Autoadjustable Packing

3 WAYS TRUNNION SOFT SEATED
120·INTEC
Autoadjustable Packing, Spring Loaded

3 WAYS TRUNNION METAL SEATED
121·INTEC
Autoadjustable Packing, Spring Loaded

TANK BOTTOM SOFT SEATED
TWO PIECE
112FC·INTEC
Double Packing & Double Stem Seal

113FC·INTEC
Double Packing & Double Stem Seal, Spring Loaded

TANK BOTTOM METAL SEATED
TWO PIECE
112FCM- INTEC
Double Packing & Double Stem Seal

BRONZE FLOATING SOFT SEATED
TWO PIECE
310 - LB
Simple Packing

BRONZE FLOATING SOFT SEATED
THREE PIECE
311 - LB
Simple Packing

BRONZE 3 WAYS FLOATING SOFT SEATED
THREE PIECE
320- LB
Double Packing & Double Stem Seal

1. BALL VALVES

A ball valve is a quarter turn shut-off valve that controls the flow of fluids by a rotary ball. The spherical rotary ball consists of a straight bore through it. The pipe is in the open position when the bore is aligned in the same direction as the flow, allowing the fluid to pass through it. When the bore is rotated 90 degree from the flow path, the valve is closed, and the flow is blocked. Ball valves are used for its reliable sealing properties and long service life.

A ball valve is known for its durability, simplicity, and excellent sealing properties. They provide excellent shutoff even after years of service. This makes a ball valve an excellent choice as a shut off valve.

Advantages:

Low cost.
Straight bore
Low torque
It cleans itself up
Easy construction and maintenance.
No lubrication required
Compact

STANDARDS	
DESIGN	ASME B16.34 ISO 17292
FACE TO FACE	ASME B16.10 DIN 3202
FLANGED ENDS	ASME B16.5/DIN 2501
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

Manufactured in bronze, in its different alloys: Rg-5 (B-62), Rg-10 (B-584), B-61 and B-148 (aluminium bronze), among others

Bronze or stainless steel ball

Brass, bronze or stainless steel stem

PTFE or graphited PTFE seats and packing

BSP or NPT threaded, Flanged, SW ends

Full bore

Flexibility of connections in both ends

From ¼" to 6"

From PN-16 (232 psi) to PN-25 (362 psi)

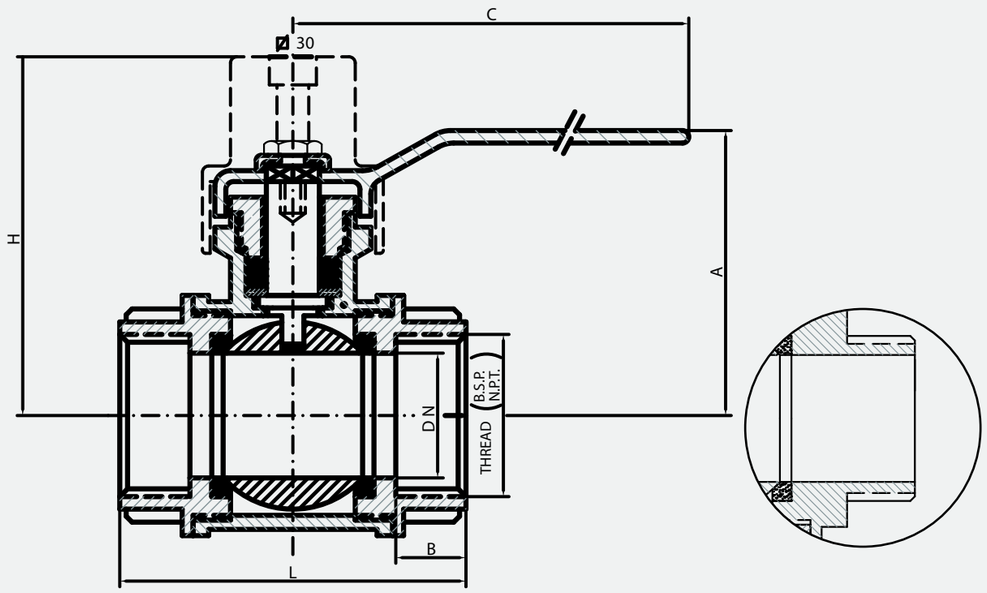
Bronze square handle available, special for underground structures or moved away (of dificult access)

"Idler shaft" system available, so the valve is protected against unauthorized entry

Adaptator for electric or pneumatic actuator available

BRONZE, FLOATING BALL VALVE THREADED
1/4" - 3" PN25 - CLASS 150
THREE PIECE, SIMPLE PACKING

FIG. FHT-LB-112-D 25



SIZE (")	DN (MM)	B (MM)	H (MM)	L (MM)	L2 (MM)	L3 (MM)
1/4	6	15	55	62	71	82
3/8	10	15	55	62	71	82
1/2	15	15	55	62	71	82
3/4	20	16	65	72	81	92
1	25	18	72	85	96	108
1 1/4	32	20	100	95	107	120
1 1/2	40	25	110	115	127	140
2	50	25	130	125	140	156
2 1/2	65	28	135	150	165	180
3	80	28	160	175	190	206

L FEMALE - FEMALE
L2 FEMALE - MALE
L3 MALE - MALE

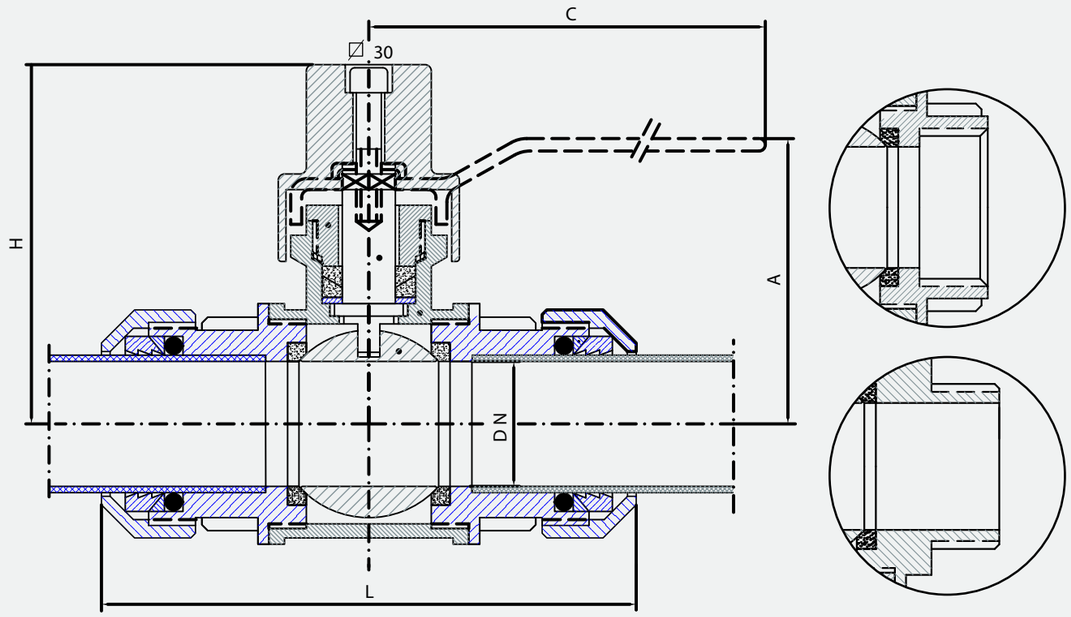
STANDARDS	
DESIGN	ASME B16.34 ISO 17292
FACE TO FACE	MANUFACTURER STANDARD
THREADED ENDS	ISO228-1/ANSI B1.20.1
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

MAIN FEATURES
Bidirectional
Split body
Threaded Ends
Full bore
Floating ball
Soft seat
Locking device

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SEATS	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

BRONZE, FLOATING BALL VALVE FITTING
1/4" - 3" PN25 - CLASS 150
THREE PIECE, SIMPLE PACKING

FIG. FHT-LB-111-D 25



SIZE (")	DN (MM)	B (MM)	H (MM)	L (MM)	L2 (MM)	L3 (MM)
1/2	15	15	61	100	80	71
3/4	20	16	71	110	90	81
1	25	18	75	135	110	96
1 1/4	32	20	98	155	125	107
1 1/2	40	25	105	185	150	127
2	50	25	116	225	175	140

L FITTING - FITTING
L2 FEMALE - FITTING
L3 MALE - FITTING

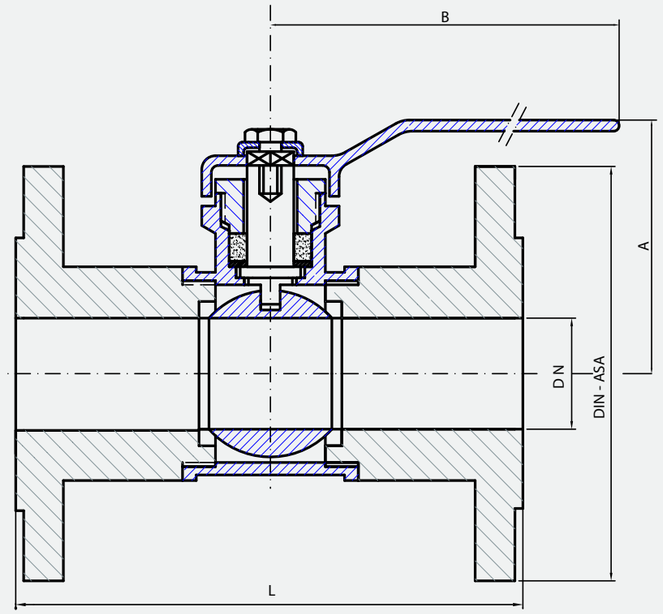
STANDARDS	
DESIGN	ASME B16.34 ISO 17292
FACE TO FACE	MANUFACTURER STANDARD
FITTING/THREADED ENDS	ISO228-1/ANSI B1.20.1
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

MAIN FEATURES
Bidirectional
Split body
Fitting or
Threaded Ends
Full bore
Floating ball
Soft seat
Locking device

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SEATS	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

SOFT SEATED, FLOATING BALL VALVE, FLANGED 3P
1/2” - 1 1/2” PN25 - CLASS 150
THREE PIECE, SIMPLE PACKING

FIG. FHT- LB-141-D 25



SIZE (“)	DN (MM)	Ø 1 FLANGE (MM)	Ø 2 FLANGE (MM)	H (MM)	B (MM)	L (MM)	L2 (MM)
1/2	15	88,9	95	55	90	108	115
3/4	20	98,4	105	65	110	117	120
1	25	107,9	115	72	110	127	125
1 1/4	32	117,5	140	100	135	140	130
1 1/2	40	127	150	110	135	165	140

L ASME B16.10
L2 DIN 3202 F4/R27
Ø1 ASME B16.5 150#
Ø2 DIN 2501 PN16

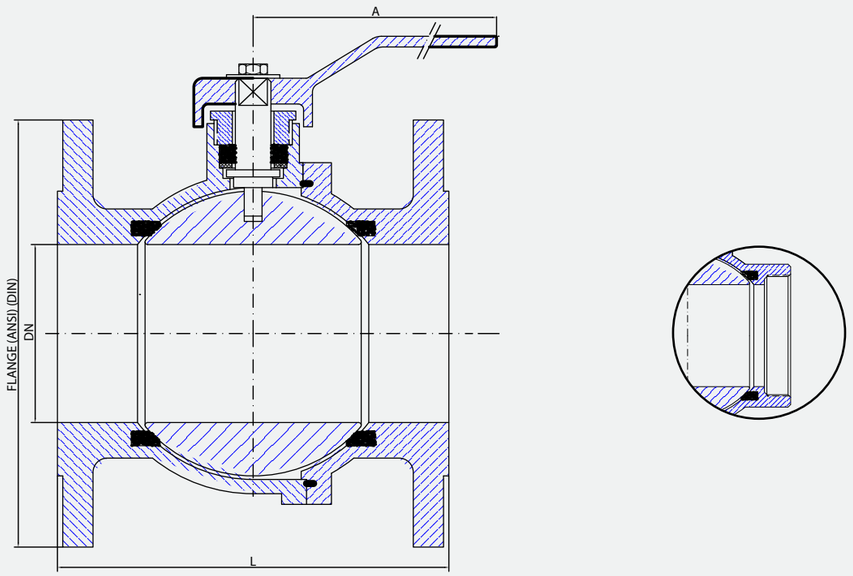
STANDARDS	
DESIGN	ASME B16.34 ISO 17292
FACE TO FACE	ASME B16.10/DIN 3202
FLANGED ENDS	ASME B16.5/DIN 2501/JIS/MIL
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

MAIN FEATURES
Bidirectional
Split body
Flanged Ends
Full bore
Floating ball
Soft seat
Locking device

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SEATS	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

SOFT SEATED, FLOATING BALL VALVE, FLANGED 2P
2” - 6” PN25 - CLASS 150
TWO PIECE, SIMPLE PACKING

FIG. FHT-LB-151-D25



SIZE (“)	DN (MM)	Ø 1 FLANGE (MM)	Ø 2 FLANGE (MM)	H (MM)	A (MM)	L (MM)	L2 (MM)
2	50	152,4	165	135	205	178	150
2 1/2	65	177,8	185	165	275	190	170
3	80	190,5	200	175	275	203	180
4	100	228,6	220	180	275	229	190
6	150	279,4	285	335	850	267	210

L ASME B16.10
L2 DIN 3202 F4/R27
Ø1 ASME B16.5 150#
Ø2 DIN 2501 PN16

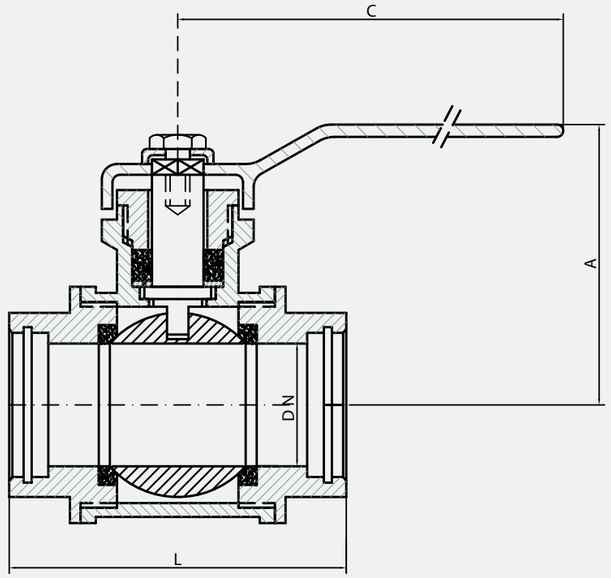
STANDARDS	
DESIGN	ASME B16.34 ISO 17292
FACE TO FACE	ASME B16.10/DIN 3202
FLANGED ENDS	ASME B16.5/DIN 2501/JIS/MIL
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

MAIN FEATURES
Bidirectional
Split body
Flanged Ends
Full bore
Floating ball
Soft seat
Locking device

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SEATS	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

SOFT SEATED, FLOATING BALL VALVE, SW
1/2” - 2” PN25 - CLASS 150
TWO PIECE, SIMPLE PACKING

FIG. FHT-LB-113-D25



SIZE (“)	DN (MM)	A (MM)	C (MM)	L (MM)
1/2	15	55	90	71
3/4	20	65	110	95,8
1	25	72	110	108
1 1/4	32	100	135	116
1 1/2	40	110	135	128
2	50	130	200	142,8

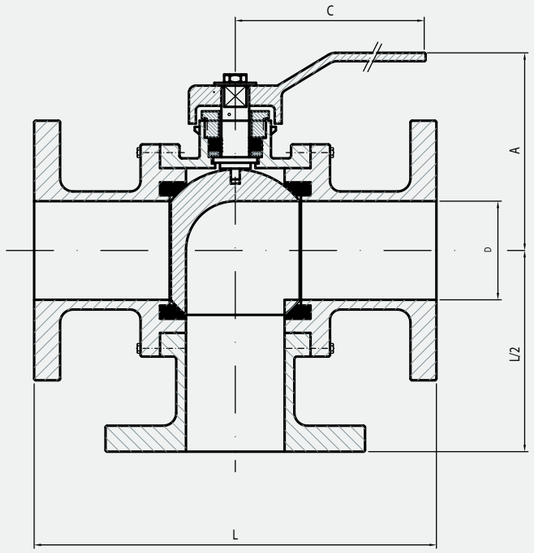
STANDARDS	
DESIGN	ASME B16.34 ISO 17292
FACE TO FACE	MANUFACTURER STANDARD
SOCKET ENDS	ASME B16.34
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

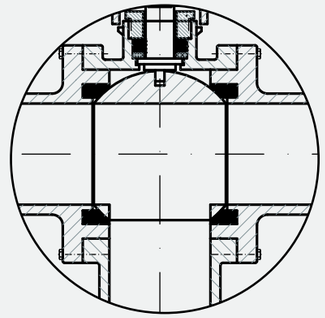
MAIN FEATURES
Bidirectional
Split body
SW Ends
Full bore
Floating ball
Soft seat
Locking device

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SEATS	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

3 WAYS, SOFT SEATED, FLOATING BALL VALVE
1 1/2” - 4” PN25 - CLASS 150
THREE PIECE, SIMPLE PACKING

FIG. FHT-LB-153-D 25





SIZE (“)	DN (MM)	Ø1 FLANGE (MM)	Ø2 FLANGE (MM)	D (MM)	L (MM)	A (MM)	C (MM)
1 1/2	40	127	150	38	200	120	200
2	50	152,4	165	51	230	132	250
2 1/2	65	177,8	185	65	290	144	250
3	80	190,5	200	76	310	154	500
4	100	228,6	220	102	350	212	500

Ø1 ASME B16.5 150#
Ø2 DIN 2501 PN16

STANDARDS	
DESIGN	ASME B16.34 ISO 17292
FACE TO FACE	DIN 3202 F1 * OTHER ST. UNDER REQUEST
FLANGED ENDS	ASME B16.5/DIN 2501
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

MAIN FEATURES
Bidirectional
Split body
Flanged Ends
Full bore
Floating ball
Soft seat
Locking device

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SEATS	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

2. GATE VALVES

Gate valves are a type of valve that is widely used in many different pipeline systems to connect and shut off flow of the medium. Not recommended for intermediate positions. Compared with other types of valves, the gate valve is more versatile and has a wider range of applications for pressure, temperature, and caliber

Advantages:

Low resistance
Low cost
Superior Sealing Performance
Easy construction and maintenance.
No lubrication required
Compact

STANDARDS	
DESIGN	BS 5154 MSS-SP-80
FACE TO FACE	ASME B16.10 DIN 3202
FLANGED ENDS	ASME B16.5/DIN 2501
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

Manufactured in bronze, in its different alloys: Rg-5 (B-62), Rg-10 (B-584), B-61 and B-148 (aluminium bronze), among others

Brass, bronze, stainless steel or monel stem

PTFE or graphited PTFE packing

Solid wedge

LB 212 figure:
From ½" to 4"
BSP or NPT thread
Threaded bonnet
Non-rising stem or inside screw rising stem

LB 213 figure:
From DN-25 to DN-300
DIN or ASA flanges, RF or FF
L=DIN or ASME
Threaded or screwed bonnet
Non rising stem or inside or outside screw rising stem

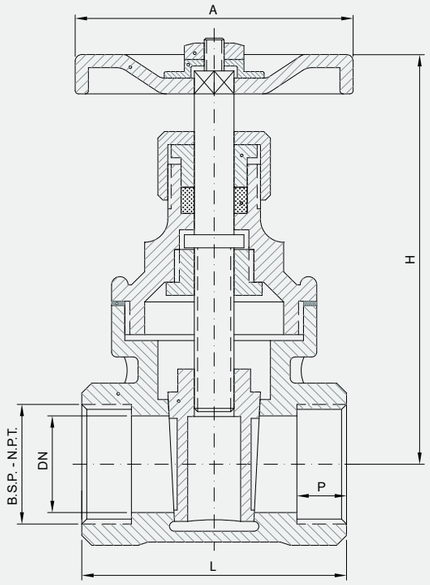
From PN-16 (232 psi) to PN-25 (362 psi)

Epoxi steel handwheel

Adaptator for electric or pneumatic actuator available

GATE VALVE
1/2” - 4” PN25 - CLASS 150
FEMALE ENDS

FIG. FHT-LB 212-D 25



SIZE (“)	DN (MM)	A (MM)	H (MM)	L (MM)	P (MM)
1/2	15	55	80	63	11
3/4	20	65	88	65	13
1	25	80	95	75	14
1 1/4	32	80	120	90	17
1 1/2	40	80	140	97	17
2	50	100	155	105	21
2 1/2	65	125	230	102	21
3	80	125	235	110	27
4	100	150	310	120	30

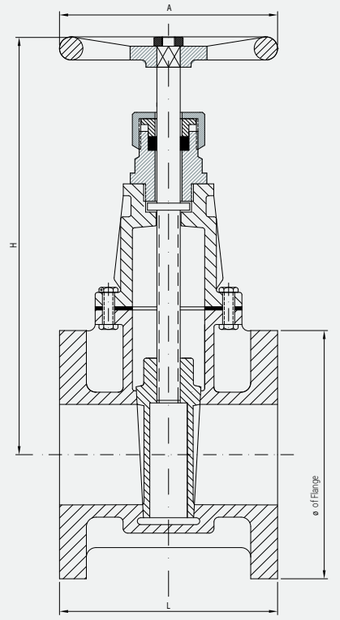
STANDARDS	
DESIGN	BS 5154
FACE TO FACE	MANUFACTURER STANDARD
THREADED ENDS	ISO228-1/ANSI B1.20.1
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Threaded Ends
Full bore
Threaded bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
PACKING	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

GATE VALVE
1 1/2” - 12” PN25 - CLASS 150
FLANGED ENDS

FIG. FHT-LB 213-D 25



SIZE (“)	DN (MM)	Ø 1 (MM)	Ø 2 (MM)	H (MM)	A (MM)	L (MM)	L2 (MM)	L3 (MM)
1 1/2	40	127	150	260	135	165	140	-
2	50	152,4	165	280	140	178	150	110
2 1/2	65	177,8	185	300	140	190	170	120
3	80	190,5	200	340	155	203	180	135
4	100	228.5	220	370	205	229	190	155
5	125	254	250	430	230	254	200	165
6	150	279,4	285	470	230	267	210	170
8	200	342,9	340	600	305	292	230	180
10	250	406,4	405	725	350	330	250	270
12	300	482,6	460	820	405	356	270	270

Ø 1 Ø 2	ASME B16.5 150# DIN 2501 PN16	L L2 L3	ASME B16.10 DIN 3202 F4 FHT STANDARD

STANDARDS	
DESIGN	BS 5154
FACE TO FACE	ASME B16.10/DIN 3202
FLANGED ENDS	ASME B16.5/DIN 2501/JIS/MIL
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Flangded Ends
Full bore
Bolted bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
PACKING	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

3. GLOBE VALVES

Due to their configuration, FHT bronze globe valves are perfect for regulating or limiting fluid. Depending on system needs, design or position, they could generate different load losses on the line. Globe valves are multiturn, in which the obturator is achieved by means of a disc or plug that cuts the passage of fluid in a seat that is usually parallel to the circulation in the pipe.

Advantages:

Efficient strangulation with minimal stretching or erosion
Short stroke of disc and few turns to operate them
Precise control
Multiple configuration possibilities

STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	ASME B16.10 DIN 3202
FLANGED ENDS	ASME B16.5/DIN 2501
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

Manufactured in bronze, in its different alloys: Rg-5 (B-62), Rg-10 (B-584), B-61 and B-148 (aluminium bronze), among others

Brass, bronze, stainless steel or monel stem

PTFE or graphited PTFE packing

Metal or PTFE disc

Straight way

Check or check and check

LB 311 figure:
From ½" to 2"
BSP or NPT thread

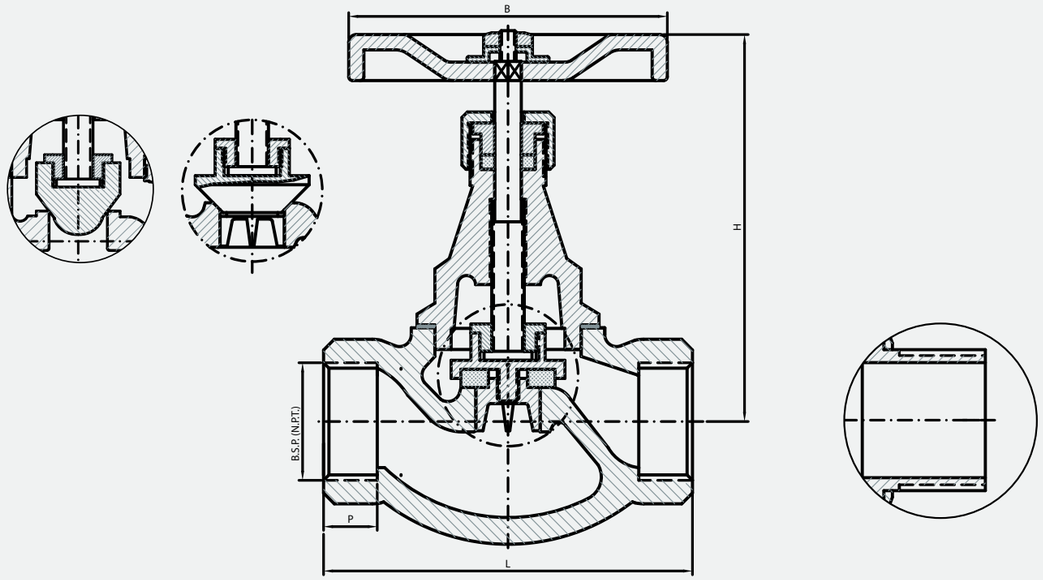
LB 312 figure:
From DN-15 to DN-50.
DIN or ASA flanges, RF or FF
L=DIN or ASME.

From PN-16 (232 psi) to PN-25 (362 psi)

Epoxi steel handwheel

GLOBE VALVE FEMALE-THREADED
1/2” - 2” PN25 - CLASS 150
METAL OR PTFE DISC

FIG. FHT-LB 311-D PN25



SIZE (“)	DN (MM)	P (MM)	A (MM)	H MAX-MIN (MM)	L (MM)
1/2	15	11	55	110-100	65
3/4	20	13	65	125-115	76
1	25	14	80	138-125	90
1 1/4	32	17	100	165-150	108
1 1/2	40	17	105	190-170	120
2	50	21	120	225-200	138

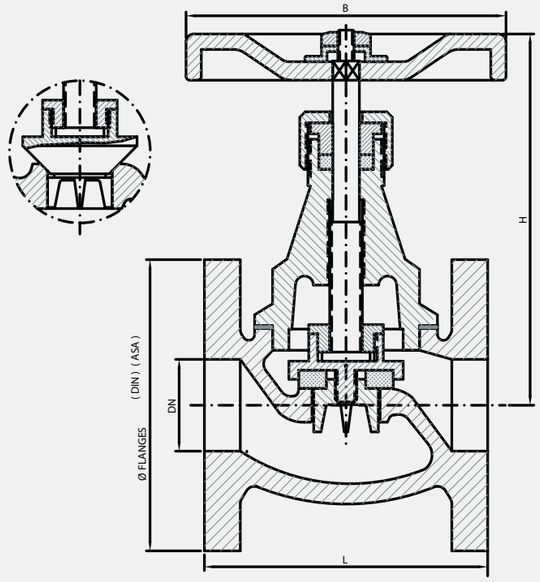
STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	MANUFACTURER STANDARD
THREADED ENDS	ISO228-1/ANSI B1.20.1
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Threaded bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
PACKING	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

GLOBE VALVE FLANGED
1/2” - 2” PN25 - CLASS 150
METAL OR PTFE DISC

FIG. FHT-LB 312-D PN25



SIZE (“)	DN (MM)	A (MM)	H MAX-MIN (MM)	Ø PN16	Ø 150#	L F4 R27 (MM)	L B16.10 (MM)
1/2	15	55	110-100	95	88,9	115	108
3/4	20	65	125-115	105	98,4	120	117
1	25	80	138-125	115	107,9	125	127
1 1/4	32	100	165-150	140	117,5	130	140
1 1/2	40	100	190-170	150	127	140	165
2	50	120	225-200	165	152	150	178

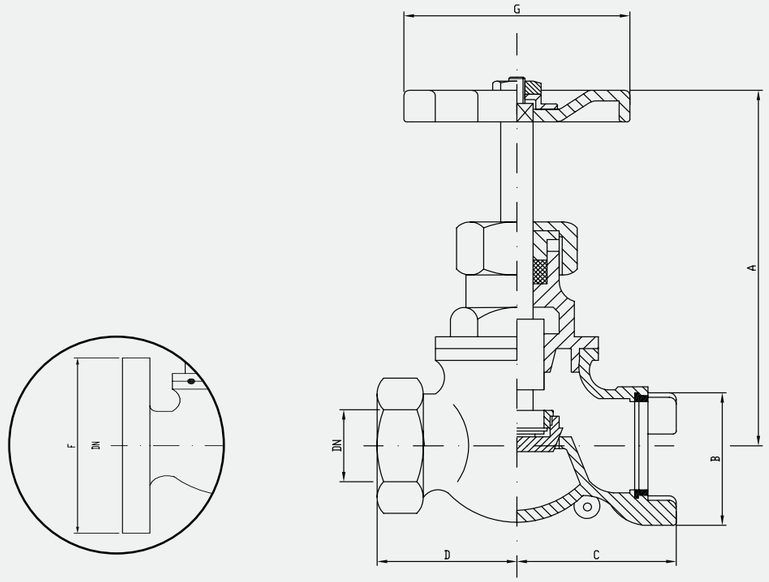
STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	ASME B16.10/DIN 3202
FLANGED ENDS	ASME B16.5/DIN 2501/JIS/MIL
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Bolted bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
PACKING	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

FIRE FIGHTING GLOBE VALVE
1 1/2” - 2 1/2” PN25 - CLASS 150
STRAIGHT BORE

FIG. FHT-LB 200AC-D PN25



SIZE (")	DN (MM)	A (MM)	B (MM)	C (MM)	D (MM)	F (MM)	G (MM)
1 1/2	40	100	45	80	55	150	80
2	50	125	45	95	65	165	100
2 1/2	65	160	70	110	75	185	120

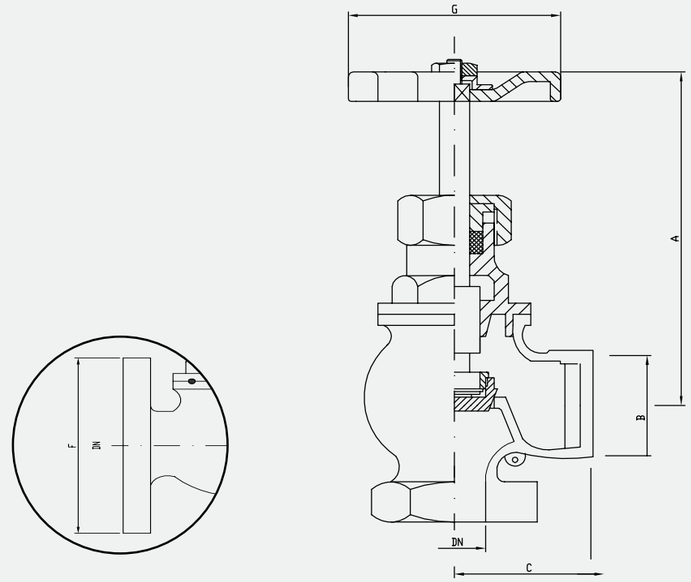
STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	MANUFACTURER STANDARD
THREADED ENDS	ISO228-1/ANSI B1.20.1
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Threaded bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
PACKING	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

FIRE FIGHTING GLOBE VALVE
1 1/2” - 2 1/2” PN25 - CLASS 150
ANGLE BORE

FIG. FHT-LB 200BD-D PN25



SIZE (")	DN (MM)	A (MM)	B (MM)	C (MM)	D (MM)	F (MM)	G (MM)
1 1/2	40	100	45	80	55	150	80
2	50	125	45	95	65	165	100
2 1/2	65	160	70	110	75	185	120

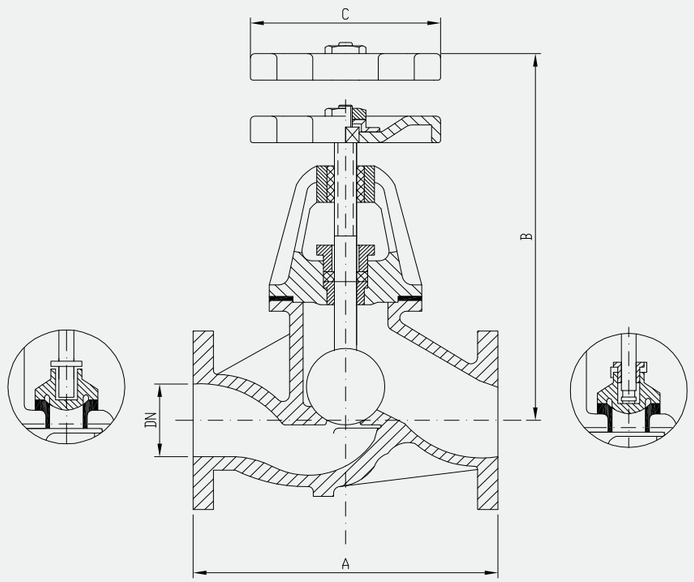
STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	MANUFACTURER STANDARD
FLANGED ENDS	ASME B16.5/DIN 2501/JIS/MIL
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Bolted bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
PACKING	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

GLOBE VALVE FLANGED ENDS
1/2” - 6” PN25 - CLASS 150
STRAIGHT BORE, BOLTED BONNET & YOKE

FIG. FHT-LB 206-D PN25



SIZE (“)	DN (MM)	A (MM)	B (MM)	C (MM)
1/2	15	130	250	120
3/4	20	150	260	130
1	25	160	300	130
1 1/4	32	180	310	135
1 1/2	40	200	320	150
2	50	230	350	165
2 1/2	65	290	400	180
3	80	310	450	200
4	100	350	450	200
5	125	400	500	250
6	150	480	540	280

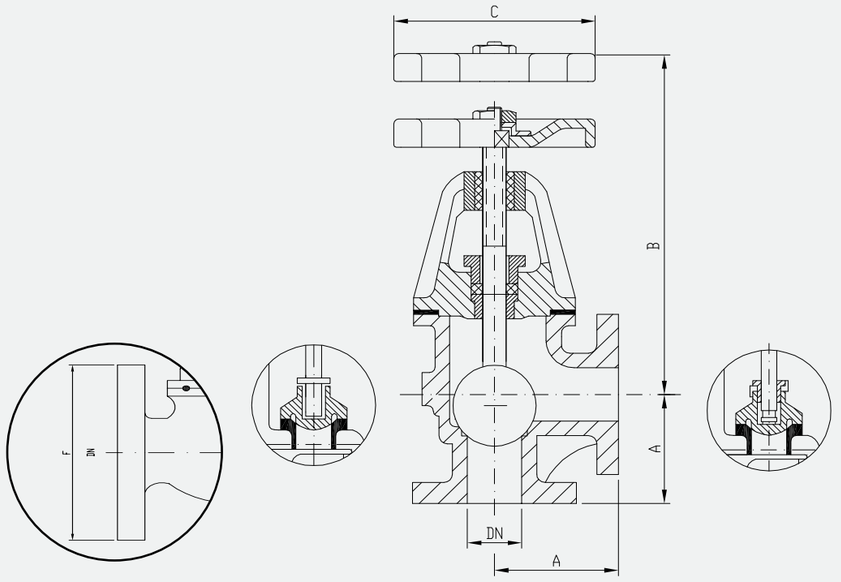
STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	ASME B16.10/DIN 3202
THREADED ENDS	ISO228-1/ANSI B1.20.1
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Threaded bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
PACKING	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

GLOBE VALVE FLANGED ENDS
1/2” - 6” PN25 - CLASS 150
ANGLE BORE, BOLTED BONNET & YOKE

FIG. FHT-LB 207-D PN25



SIZE (“)	DN (MM)	A (MM)	B (MM)	C (MM)
1/2	15	85	250	120
3/4	20	95	260	130
1	25	100	300	130
1 1/4	32	105	310	135
1 1/2	40	115	320	150
2	50	125	350	165
2 1/2	65	145	400	180
3	80	155	450	200
4	100	175	450	200
5	125	200	500	250
6	150	240	540	280

STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	MANUFACTURER STANDARD
FLANGED ENDS	ASME B16.5/DIN 2501/JIS/MIL
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Bolted bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
PACKING	PTFE, Reinforced PTFE, ...
SPECIAL REQUIREMENTS	Under request

4. CHECK VALVES

A check valve, also called a one-way valve, is a device that allows the flow of fluids to move only in one direction.

The primary purpose of a check valve is to prevent backflow in the system. Check valves are cheap, effective, and easy solutions to a potential issue.

Advantages:

Minimum disk stroke to fully open position
Rapid action

STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	ASME B16.10 DIN 3202
FLANGED ENDS	ASME B16.5/DIN 2501
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-55

Manufactured in bronze, in its different alloys:
Rg-5 (B-62), Rg-10 (B-584), B-61 and B-148
(aluminium bronze), among others

Metal or PTFE disc

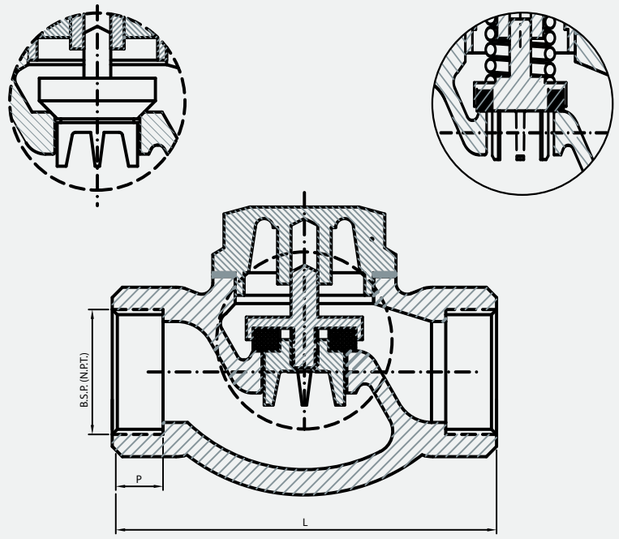
LB 411-416 figure:
From ½" to 2"
BSP or NPT thread

LB 412-417 figure:
From DN-15 to DN-50.
DIN or ASA flanges, RF or FF
L=DIN or ASME.

From PN-16 (232 psi) to PN-25 (362 psi)

PISTON CHECK VALVE FEMALE-THREADED
1/2” - 2” PN25 - CLASS 150
BACK PRESSURE, METAL OR PTFE DISC

FIG. FHT-LB 411-D PN25



SIZE (")	DN (MM)	P (MM)	H (MM)	L (MM)
1/2	15	11	38	65
3/4	20	13	42	76
1	25	14	52	90
1 1/4	32	17	60	108
1 1/2	40	17	75	120
2	50	21	85	138

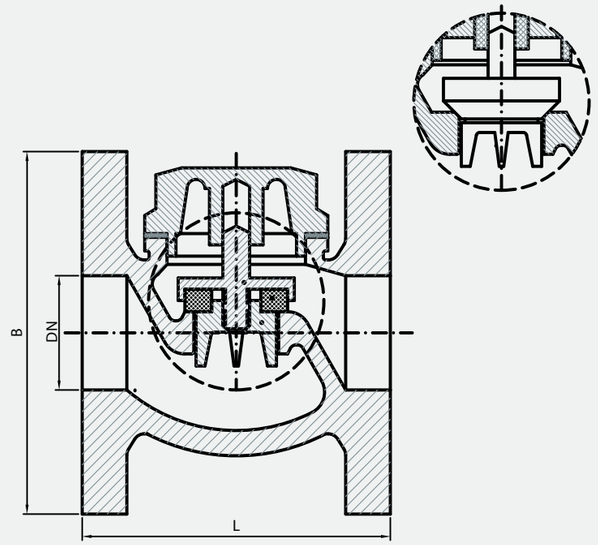
STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	MANUFACTURER STANDARD
THREADED ENDS	ISO228-1/ANSI B1.20.1
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Threaded bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SPECIAL REQUIREMENTS	Under request

PISTON CHECK VALVE FLANGED
1/2” - 2” PN25 - CLASS 150
METAL OR PTFE DISC

FIG. FHT-LB 412-D PN25



SIZE (")	DN (MM)	Ø 1 (MM)	Ø 2 (MM)	B (MM)	L (MM)	L2 (MM)
1/2	15	88,9	95	38	108	115
3/4	20	98,4	105	48	117	120
1	25	107,9	115	52	127	125
1 1/4	32	117,5	140	60	140	130
1 1/2	40	127	150	75	165	140
2	50	152	165	85	178	150

L	ASME B16.10
L2	DIN 3202 F4/R27
Ø1	ASME B16.5 150#
Ø2	DIN 2501 PN16

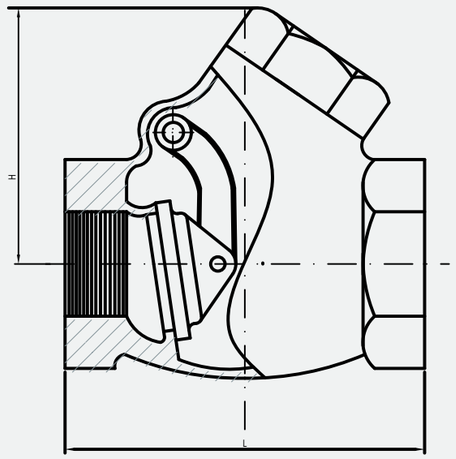
STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	ASME B16.10/DIN 3202
FLANGED ENDS	ASME B16.5/DIN 2501/JIS/MIL
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Bolted bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SPECIAL REQUIREMENTS	Under request

SWING CHECK VALVE FEMALE-THREADED
1/2” - 2” PN25 - CLASS 150
METAL DISC

FIG. FHT-LB 416-D PN25



SIZE (“)	DN (MM)	H (MM)	L (MM)
1/2	15	43	62
3/4	20	52	76
1	25	65	94
1 1/4	32	89	126
1 1/2	40	89	126
2	50	108	152

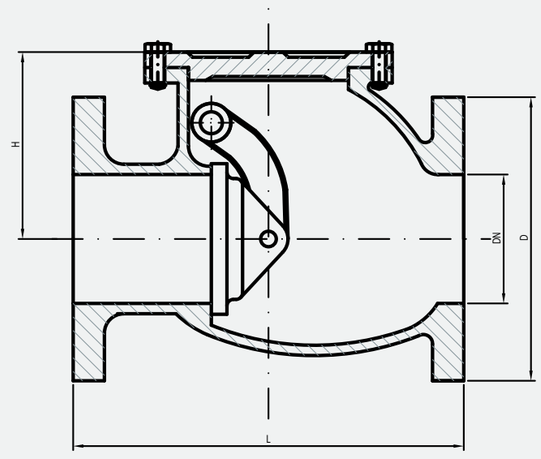
STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	MANUFACTURER STANDARD
THREADED ENDS	ISO228-1/ANSI B1.20.1
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Threaded bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SPECIAL REQUIREMENTS	Under request

SWING CHECK VALVE FLANGED
1-1/2” - 4” PN25 - CLASS 150
METAL DISC

FIG. FHT-LB 417-D PN25



SIZE (“)	DN (MM)	L (MM)	H (MM)	Ø1 (MM)	Ø2 (MM)
1 1/2	40	180	95	127	150
2	50	200	100	152.4	165
2 1/2	65	240	115	177.8	185
3	80	260	135	190.5	200
4	100	300	145	228.6	220

L DIN 3202 F6
Ø1 ASME B16.5 150#
Ø2 DIN 2501 PN16

STANDARDS	
DESIGN	ASME B16.34 MSS-SP-80
FACE TO FACE	MANUFACTURER STANDARD
FLANGED ENDS	ASME B16.5/DIN 2501/JIS/MIL
TOP FLANGE	ISO 5211
PRESSURE TESTS	EN12266-1/API 598/API 6D
VISUAL INSPECTION	MSS-SP-80

MAIN FEATURES
Bidirectional
Theraded Ends
Full bore
Bolted bonnet
Solid Wedge
Rising or Non rising stem

MATERIALS	
BODY	RG-5, RG-10, Aluminium Bronze
TRIM	Bronze, Brass, Stainless steel, Monel, Exotic materials...
SPECIAL REQUIREMENTS	Under request

MAIN INDUSTRIES

PETROCHEMICAL

SOLVENTS, DRUGS, PESTICIDES, EXPLOSIVES, SYNTHETIC FIBRES AND RUBBERS, PAINTS, EPOXY RESINS, FLOORING AND INSULATING MATERIALS, ...

CRYOGENIC & HYDROGEN

CRYOGENIC & HYDROGEN SERVICES; STATIONARY TANKS, FUEL STATIONS, GAS INDUSTRY,

PHARMA

MEDICATIONS, VACCINES, MAINLINE, GENERIC, RESEARCH & DEVELOPMENT, HOMEOPATHIC, COSMETICS, ...

ENERGY

WIND MILLS, SOLAR, GEOTHERMAL, RENEWABLE ENERGY STORAGE, HYDROPOWER, BIOMASS, ...

PULP & PAPER

PULP, PAPER, PAPERBOARD, CELLULOSE DERIVATIVES.

WATER

WATER TRANSMISSION SYSTEM, DESALINATION, WATER AND WASTEWATER, WATER TREATMENT, ...

MARINE SERVICES

SHIPBUILDING, FPSO, TANKERS, MILITAR SERVICES, OFFSHORE, ...

FEATURES & OPTIONS

V-PORT

For reliable flow control applications. When more precise control is required with the simplicity and sealing features of a ball valve. Standards 15°, 30°, 60°, 90° V´s are cut into the ball for diverse CV's and control requirements either in soft seated or metal seated ball valves.

ANTISTATIC DEVICE

To ensure electrical continuity between ball-stem and body.

CAVITY FILLER

Specially designed to avoid dead spaces inside the valve to prevent corrosion. This feature is a must in many applications on the chemical industry and solids handling.

DOUBLE BLOCK & BLEED

Double Block and Bleed reduces the risks of product contamination, which is why many Oil & Gas companies have adopted the practice as mandatory when working on field equipment.

EMERGENCY SEAT SEAL SYSTEM

Special sealants may be injected into fittings to restore sealing integrity if seat sealing surface is damaged.

SPRING LOADED SEATS

The “Spring Loaded seats” design ensures automatic pressure cavity relief and a constant operating torque not influenced by temperature fluctuations.

LIP SEAL

For applications where elastomeric O´rings are not reliable, different types of lip seals are used. Lip Seals are self energised seal systems, made of a Teflon and a spring. The spring provides the initial load (due to the low elasticity of Teflon), while the fluid pressure provides the load to force the lips on the sealing surfaces.

SELF ADJUSTING

The double cone shape packing is loaded with a set of two Belleville springs which ensures a constant operating torque and prevents stem leaks during the whole life of the valve in service. This design provides highest protection against fugitive emissions even after a high number of cycles. ISO 15848-1 Fugitive emissions requirements fulfilled.

ANTI-BLOW OUT PROOF STEM

Designed with integral “T”-type shoulder. The stem and the double cone shape stem packing are internally inserted to provide blow-out proof safety and to ensure tightness at all pressures. This design provides highest protection against fugitive emissions even after a high number of cycles. ISO 15848-1 Fugitive emissions requirements fulfilled.

METAL TO METAL

In Metal seated ball valves for high temperature services, where elastomeric seals are not suitable, this design with double graphite seat seal allows reaching higher temperatures.

SEALING INJECTION SYSTEM

The sealant injection system located on the body can be utilized in case of emergencies, o-ring damage, or if stem leakage occurs.

BALANCING HOLE FOR PRESSURE

The ball with a balance hole prevents pressure from being stucked within the body cavity.

25 YEARS
1997-2022

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