



Valves, Fittings & Boiler Mountings



Ball Valves

**GIVING
DIMENSION
TO YOUR FLUIDS** SINCE 1972

ATAM VALVES LIMITED



CATALOGUE



WHERE SAFETY & RELIABILITY COMES FIRST



**A LEADING
NAME IN
VALVE
DESIGN
&
MANUFACTURING**



ESTABLISHED IN
1972

STATE OF THE ART
TWO MANUFACTURING UNITS

DEDICATED & SKILLED WORKFORCE OF OVER
500 EMPLOYEES

ATAM is one of the leading manufacturer of Industrial & Plumbing Valves and Fittings, known for innovation and product quality. Mr Vimal Jain in 1972 established the parent company AMCO Industries, with an initiative of manufacturing automobile bushings in the brand name of 'AMCO'. In 1982 the organization has diversified from manufacturing of bushings to design, engineer and manufacturer of Industrial Valves under the brand "ATAM". In 1992 company further diversified its manufacturing to 'FEBI' make Ball Valves under the banner of FEBI Valves Pvt. Ltd.

To ensure the transparency and strength of the business operations towards its stake holders company got listed on "BSE (Bombay Stock Exchange)" in October 2020.

The advantage of advanced engineering capabilities and innovation has facilitated ATAM Valves to continuously expand offering of Industrial Valves and Fittings.

VIMAL JAIN
Chairman



Today, ATAM & FEBI make Gate, Globe, Check, Ball, Butterfly, Steam Traps, Boiler Mountings & Accessories and other Industrial Valves and Fittings are installed throughout the globe, to handle varied applications in steam, oil and gas, refining and petrochemicals, chemicals and pharmaceutical, marine, mining, water & wastewater, textile, sugar and HVAC industries. ATAM valves are engineered to handle service conditions at -192°C to 550°C and pressure upto 10000psi.

With a work force of more than 500 professionals and wide range of machining and testing facility, organization can efficiently handle large production lots to highly customized orders.

Manufacturing facilities are further complemented by a large sales and distribution network, offering quick access to our warehouses located across the India and other parts of the world.



ATAM's dedicated team backed with extensive experience and expertise in advanced design, simulation software and testing facilities, enables organization to find right solutions to any varied and complex customer needs.

AMIT JAIN
Managing Director

”

WHEN YOU'RE OUT OF
QUALITY
YOU'RE OUT OF
BUSINESS

Phil Crosby

ATAM VALVES - MANUFACTURING UNIT II

TOTAL COMMITMENT TO QUALITY



ATAM Valves is a recipient of
National Award for Quality Products
and

National Award for best efforts in Entrepreneurship

ATAM Valves is fully committed to its customer by offering the products that meet requirements and exceed the expectations.

The policy of total quality commitment has always kept ATAM at the leading position for maintaining the high industry standards.

ATAM holds all major industry certifications, including ISO 9001:2015, EMS 14001 and PED.

CERTIFICATIONS
ISO 9001
ISO 14001
PED . IBR . ISI



ATAM

APPROVALS



IndianOil



BOSCH



CAST IRON



CAST STEEL



FORGED STEEL



STAINLESS STEEL



BRONZE



GUN METAL





ATAM is an integrated valve manufacturing facility having two manufacturing units backed with three foundries, exclusively to handle all kind of non-ferrous alloys (Brass, Bronze and Aluminium Bronze), Ductile and Cast Iron, Carbon Steel, Alloy Steel, Low Alloy Steel, Stainless Steel and Duplex and Super Duplex Stainless Steel.

ATAM has the latest state-of-the-art Machine shop equipped with CNC, VMC machines and special-purpose machines. With a work force of more than 500 professional and wide range of machining and testing facility, organization can efficiently handle large production to highly customized orders.

ATAM Valves is a recipient of National Award for Quality Products and National Award for best efforts in Entrepreneurship. ATAM Valves is fully committed to its customer by offering the products that meet requirements and exceed the expectations.

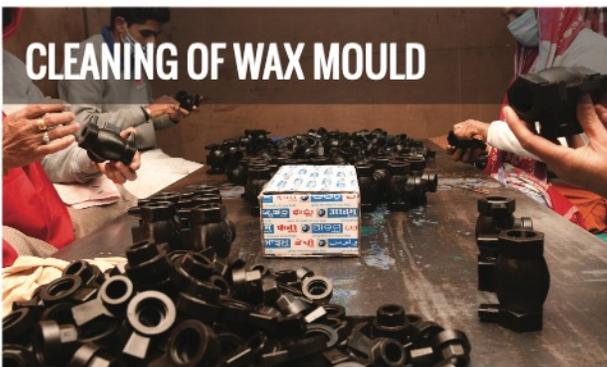
WAX INJECTION MOULDING



DIE PATTERN MAKING



CLEANING OF WAX MOULD



TREE MAKING

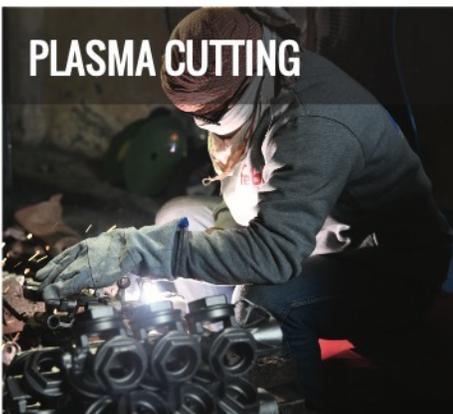


CREAMIC COATINGS



DE-WAXING

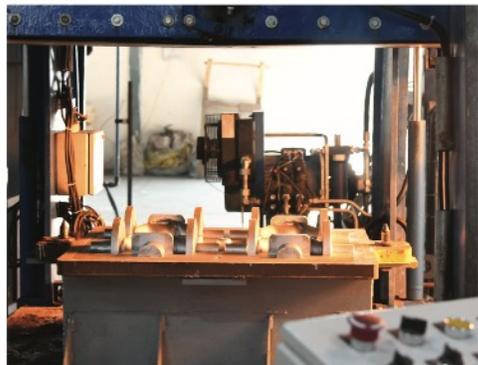




CNC MACHINE SHOP



NO BAKE CASTING





SHOT BLASTING



GRINDING & FETTLING



SAND HOPPERS

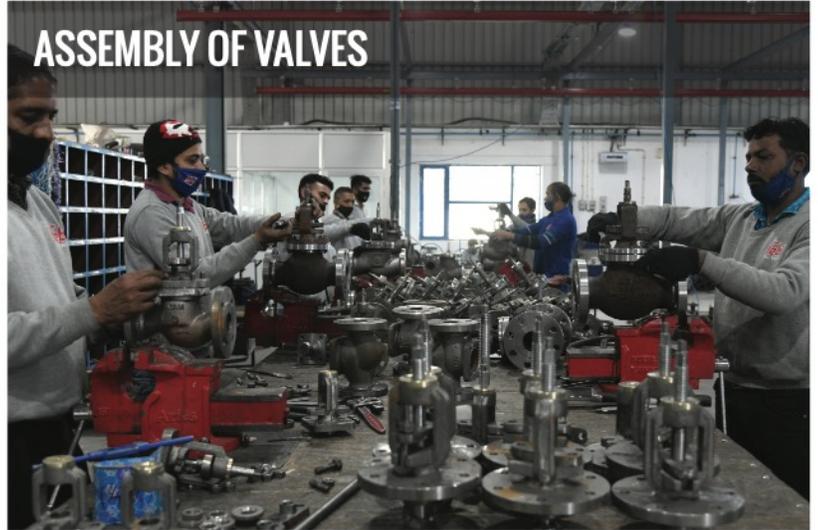


GAS CUTTING



LATHE MACHINING





ISI & Non IBR Valves

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ISI & Non IBR Valves

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As per our Continuous Product Improvement Program, the data mentioned in this product catalogue is subject to change without notice.
 Flange Drilling on demand for all undrilled mentioned flanges.
 Please contact us for any specific information regarding a product.

**ATAM**

Bronze Union Bonnet Globe Valve No.9 Screwed Ends, PN-20 / Class-150

AV-1

Product Standard	BS-5154
Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-20 / Class-150
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Union Bonnet, Inside Screw, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 450 Psig (Hyd.), Seat & Back Seat: 320 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)



Suitable for

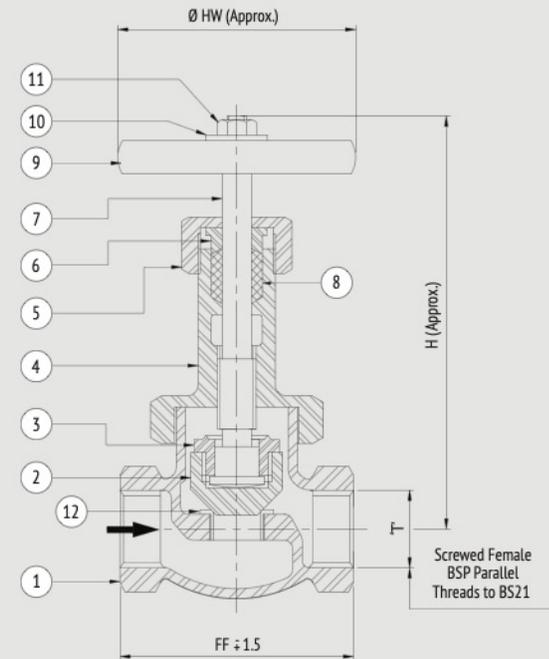
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.
Graphoil Gland Packing is available on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Stainless Steel	ASTM A 276 Type 410
3	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
4	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
5	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
6	Gland	1	Bronze	BSEN 1982 Gr. CC491K
7	Stem	1	Stainless Steel	ASTM A 276 Type 410
8	Packing	1	Graphited Asbestos	-
9	Handwheel	1	Cast Iron	BS 1452 Gr.220
10	Washer	1	Mild Steel	BS 916
11	Handwheel Nut	1	Mild Steel	BS 916
12	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410



Sizes & Dimensions

Size (mm)	FF	H	øHW	T
8	62	108	64	1/4"
10	62	108	64	3/8"
15	73	136	64	1/2"
20	87	158	71	3/4"
25	95	168	86	1"
32	110	180	96	1.1/4"
40	118	225	118	1.1/2"
50	145	248	148	2"
65	182	295	148	2.1/2"
80	203	325	197	3"
100	248	390	197	4"

**ATAM**

Bronze Union Bonnet Globe Valve No.9 Flanged Ends, Class-150

AV-2

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	Class-150
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Union Bonnet, Inside Screw, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends to BS-10 Table-F (Undrilled)
Test Pressure	Body: 450 Psig (Hyd.), Seat & Back Seat: 320 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)



Suitable for

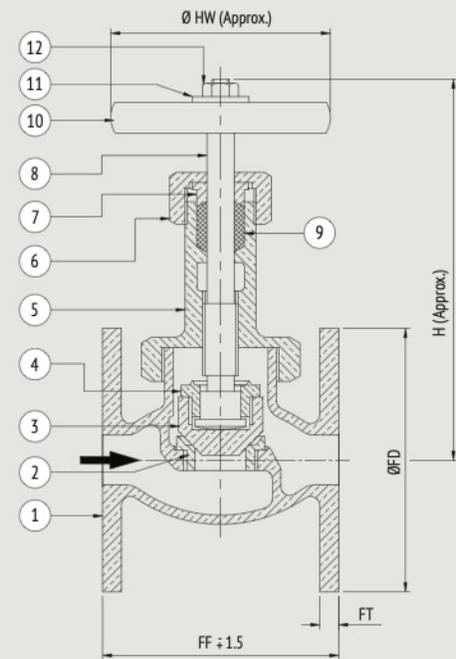
- Water
- Steam
- Gas
- Oil
- Air

Graphoil Gland Packing is available on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
5	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
6	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
7	Gland	1	Bronze	BSEN 1982 Gr. CC491K
8	Stem	1	Stainless Steel	ASTM A 276 Type 410
9	Packing	1	Graphited Asbestos	-
10	Handwheel	1	Cast Iron	BS 1452 Gr.220
11	Washer	1	Mild Steel	BS 916
12	Handwheel Nut	1	Mild Steel	BS 916



Sizes & Dimensions

Size (mm)	FF	H	øHW	øFD	FT
15	83	136	64	95.3	7.9
20	93	158	71	101.6	7.9
25	115	168	86	120.7	9.6
32	118	180	96	133.4	9.6
40	137	225	118	139.7	11.1
50	185	248	148	165.1	11.1
65	208	285	148	184.2	12.7
80	224	325	197	203.2	14.3
100	243	390	197	228.5	17.5

**ATAM**

Bronze Globe Valve No.5 with Gun Metal Guided Disc Screwed Ends, PN-20

AV-6

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-20
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 450 Psig (Hyd.), Seat & Back Seat: 320 Psig (Hyd.)



Suitable for

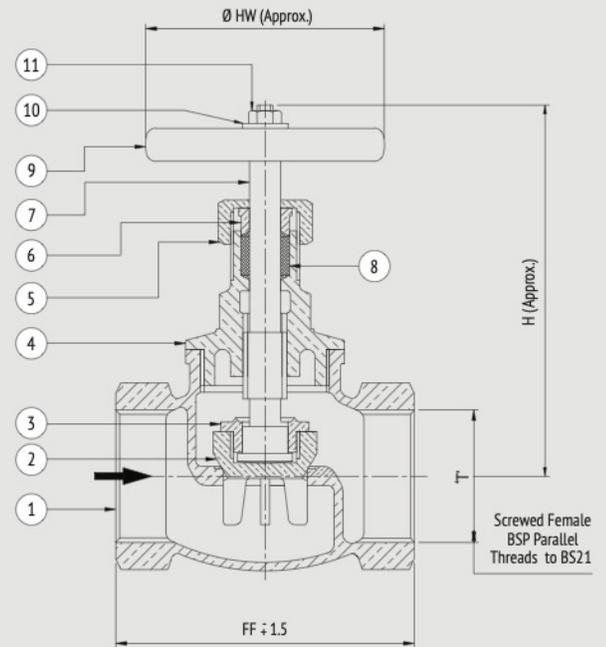
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze	BSEN 1982 Gr. CC491K
3	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
4	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
5	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
6	Gland	1	Bronze / Brass	BSEN 1982 Gr. CC491K
7	Stem	1	Bronze	BSEN 1982 Gr. CC491K
8	Packing	1	Asbestos	-
9	Handwheel	1	Cast Iron	BS 1452 Gr.220
10	Washer	1	Mild Steel	BS 916
11	Handwheel Nut	1	Mild Steel	BS 916



Sizes & Dimensions

Size (mm)	FF	H	øHW	T
8	50	56	50	1/4"
10	52	56	50	3/8"
15	56	100	56	1/2"
20	68	115	71	3/4"
25	78	125	71	1"
32	87	137	89	1.1/4"
40	102	139	95	1.1/2"
50	119	162	119	2"
65	136	185	127	2.1/2"
80	170	195	175	3"
100	200	240	195	4"

**ATAM**

Bronze Horizontal Lift Check Valve No.4 with Teflon / Rubber Disc Screwed Ends, PN-16

AV-7

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Cover
Type of Seat	Integral Seat
Type of Disc	Renewable Teflon / Rubber Disc
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 348 Psig (Hyd.), Seat: 255 Psig (Hyd.)



Suitable for

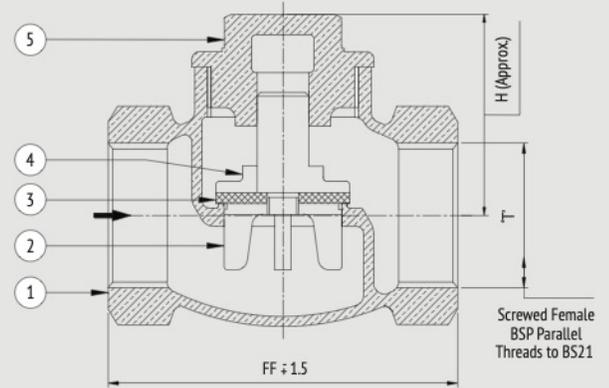
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc Guide	1	Bronze	BSEN 1982 Gr. CC491K
3	Disc	1	PTFE (Teflon) / Rubber	-
4	Disc Holder	1	Bronze	BSEN 1982 Gr. CC491K
5	Cover	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	H	T
8	39	37	1/4"
10	39	38	3/8"
15	50	39	1/2"
20	55	40	3/4"
25	68	42	1"
32	76	50	1.1/4"
40	82	55	1.1/2"
50	99	66	2"
65	128	77	2.1/2"
80	149	90	3"
100	191	112	4"



Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Teflon / Rubber Disc
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 348 Psig (Hyd.), Seat & Back Seat: 255 Psig (Hyd.)



Suitable for

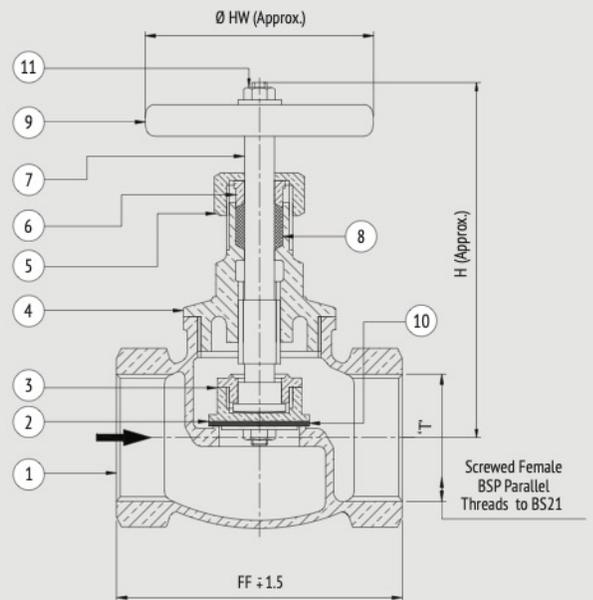
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze	BSEN 1982 Gr. CC491K
3	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
4	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
5	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
6	Gland	1	Bronze / Brass	BSEN 1982 Gr. CC491K
7	Stem	1	Brass	-
8	Packing	1	Graphited Asbestos	-
9	Handwheel	1	Cast Iron	BS 1452 Gr.220
10	Soft Seat	1	PTFE	-
11	Nut / Screw	1	Mild Steel	-



Sizes & Dimensions

Size (mm)	FF	H	$\varnothing HW$	T
15	50	77	50	1/2"
20	55	92	62	3/4"
25	68	98	66	1"
32	76	110	75	1.1/4"
40	82	120	87	1.1/2"
50	100	130	95	2"

**ATAM**

Bronze Thermodynamic Steam Trap Screwed Ends

AV-12

Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Thermodynamic Type with Inbuilt Guided Strainer
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)



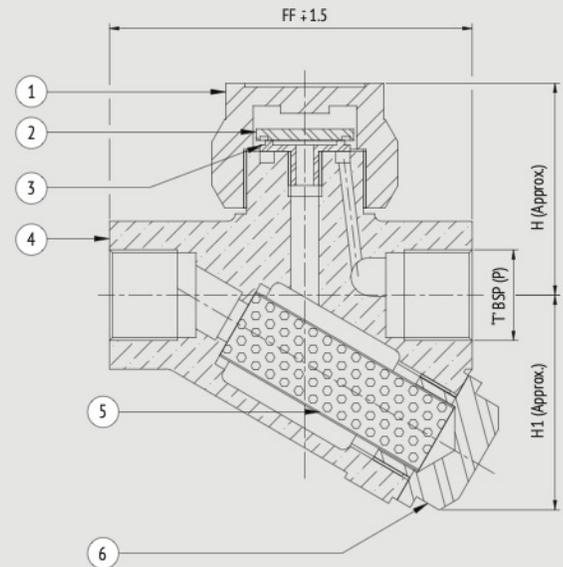
- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Top Nut	1	Stainless Steel	ASTM A 276 Type 410
2	Disc	1	Stainless Steel	ASTM A 276 Type 410
3	Seat	1	Stainless Steel	ASTM A 276 Type 410
4	Body	1	Bronze	IBR 282 (a) (iv) Gr. B
5	Screen	1	Stainless Steel	ASTM A 240 Type 304
6	Cover	1	Stainless Steel	ASTM A 276 Type 410



Sizes & Dimensions

Size (mm)	FF	T	H	H1
15	83	1/2"	60	56
20	95	3/4"	60	62
25	117	1"	70	76
32	125	1.1/4"	82	92
40	125	1.1/2"	82	92
50	142	2"	98	114

**ATAM**

Bronze Gland Packed Water Level Gauge Screwed Ends

AV-16A

Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Gland Packed
End Details	Screwed Male Inlet BSP Parallel Threads (BS-21)
Test Pressure	300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

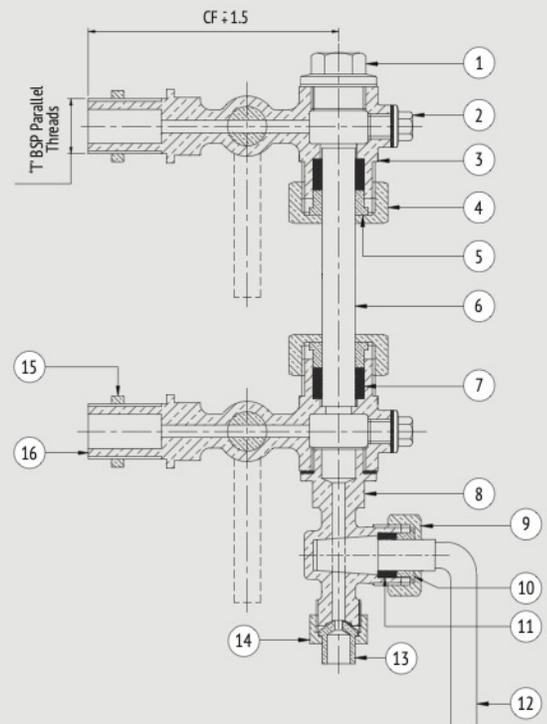
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Top Plug	1	Bronze	BSEN 1982 Gr. CC491K
2	Side Plug	2	Bronze	BSEN 1982 Gr. CC491K
3	Upper Arm	1	Bronze	BSEN 1982 Gr. CC491K
4	Gland Nut	2	Bronze	BSEN 1982 Gr. CC491K
5	Gland	2	Bronze / Brass Rod	BSEN 1982 Gr. CC491K
6	Glass Tube	1	Glass	-
7	Gland Packing	-	Graphited Asbestos	-
8	Drain Valve	1	Bronze	BSEN 1982 Gr. CC491K
9	Gland Nut	3	Bronze	BSEN 1982 Gr. CC491K
10	Gland	3	Bronze / Brass Rod	BSEN 1982 Gr. CC491K
11	Gland Packing	-	Graphited Asbestos	-
12	Plug	3	Bronze	BSEN 1982 Gr. CC491K
13	Nipple	1	Bronze	BSEN 1982 Gr. CC491K
14	Nut	1	Bronze	BSEN 1982 Gr. CC491K
15	Lock Nut	2	Bronze	BSEN 1982 Gr. CC491K
16	Lower Arm	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	CF ±1.5	T
10	96	3/8"
15	96	1/2"
18	110	5/8"
20	110	3/4"

**ATAM**

Bronze Gland Packed Water Level Gauge Flanged Ends

AV-17

Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Gland Packed
End Details	Flanged Ends to BS-10 Table-F (Undrilled)
Test Pressure	300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	225°C



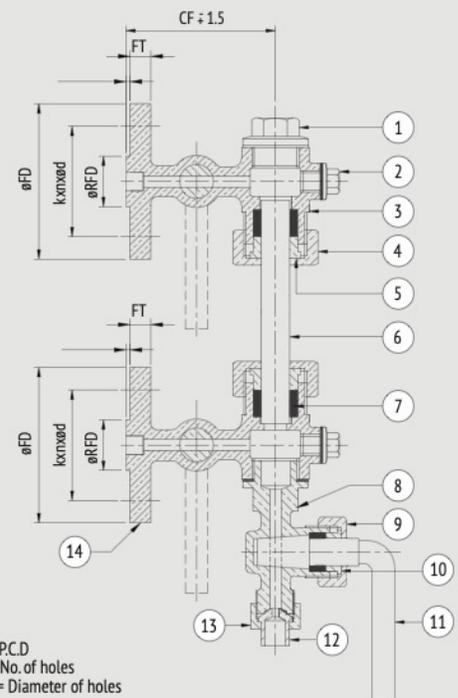
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Top Plug	1	Bronze	BSEN 1982 Gr. CC491K
2	Side Plug	2	Bronze	BSEN 1982 Gr. CC491K
3	Upper Arm	1	Bronze	BSEN 1982 Gr. CC491K
4	Gland Nut	2	Bronze	BSEN 1982 Gr. CC491K
5	Gland	2	Bronze	BSEN 1982 Gr. CC491K
6	Glass Tube	1	Glass	-
7	Gland Packing	-	Graphited Asbestos	-
8	Drain Valve Body	1	Bronze	BSEN 1982 Gr. CC491K
9	Gland Nut	3	Bronze	BSEN 1982 Gr. CC491K
10	Gland	3	Bronze	BSEN 1982 Gr. CC491K
11	Plug	3	Bronze	BSEN 1982 Gr. CC491K
12	Nipple	1	Bronze / Brass	BSEN 1982 Gr. CC491K
13	Nut	1	Bronze	BSEN 1982 Gr. CC491K
14	Lower Arm	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	CF	øFD	FT	øRFD	RFH
10	82	95.3	7.9	23	2
15	82	95.3	7.9	23	2
18	85	101.6	7.9	24	3
20	85	101.6	7.9	24	3

**ATAM**

Bronze Feed Check Valve Right Angle Pattern Screwed Ends

AV-24

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Cover, Vertical Lift
Type of Seat	Integral Seat
Trim	Cu-Alloy
End Details	Screwed Male Inlet BSP Parallel Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.), Seat: 250 Psig (Hyd.)



Suitable for

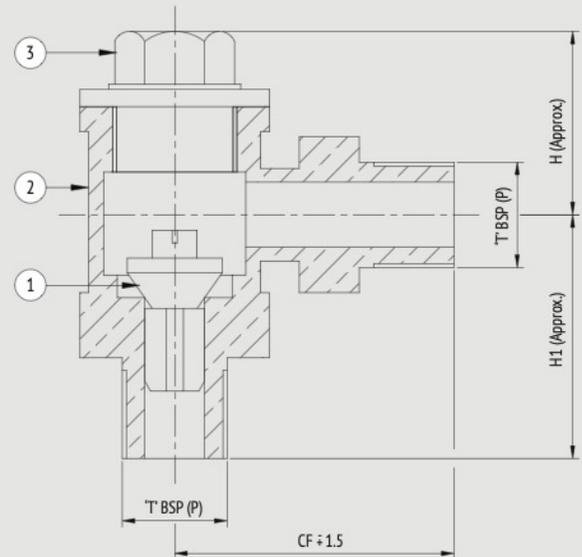
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Disc	1	Bronze	BSEN 1982 Gr. CC491K
2	Body	1	Bronze	BSEN 1982 Gr. CC491K
3	Cover	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	CF	T	H	H1
15	56	1/2"	36	49
20	63	3/4"	38	58
25	78	1"	42	62
32	85*	1.1/4"	60	70

* As per sample at assembly station

**ATAM**

Bronze Angle Check Valve Right Angle Pattern Screwed Ends, PN-16

AV-26

Type of Pattern	Right Angle Pattern
Product Standard	BS-5154
Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Cover, Vertical Lift
Type of Seat	Integral Seat
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 348 Psig (Hyd.), Seat: 255 Psig (Hyd.)



Suitable for

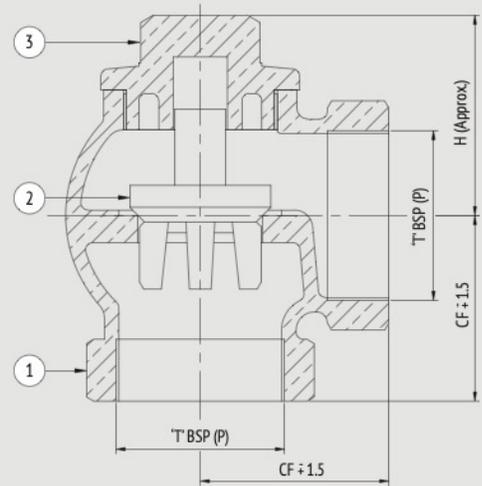
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze	BSEN 1982 Gr. CC491K
3	Cover	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	CF ± 1.5	T	H
15	27	1/2"	32
20	32	3/4"	36
25	38	1"	42
32	46	1.1/4"	53
40	51	1.1/2"	56
50	58	2"	68

**ATAM**

Bronze Needle Valve No.4 Screwed Ends, PN-16

AV-30

Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 348 Psig (Hyd.), Seat: 255 Psig (Hyd.), Seat: 100 Psig (Air)



Suitable for

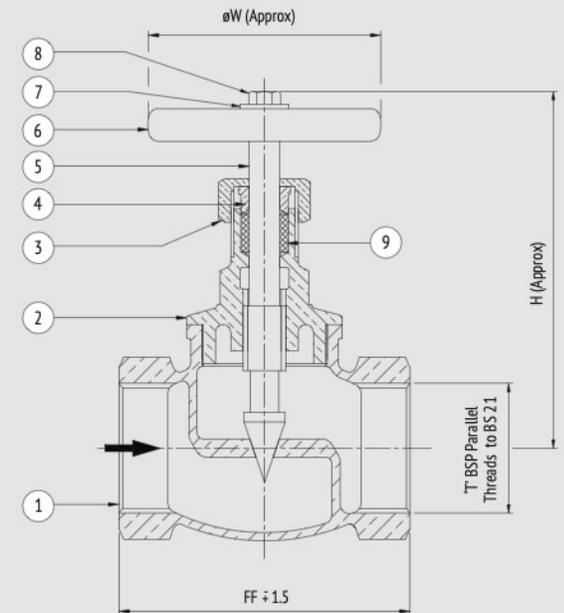
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Gun Metal	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
2	Bonnet	1	Gun Metal	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
3	Gland Nut	1	Gun Metal	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
4	Gland	1	Gun Metal / Brass	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
5	Stem	1	H.T. Brass	DIN 12164 Gr. CW721R / IS 6912 Gr. FHTB
6	Handwheel	1	Cast Iron	BS 1561 Gr. GIL 200 / IS 210 Gr. FG 200
7	Washer	1	Carbon Steel	-
8	Screw / Bolt	1	Carbon Steel	-
9	Packing	-	Asbestos	-



Sizes & Dimensions

Size (mm)	FF	T	H	øW
10	39	3/8"	71	44
15	50	1/2"	77	50
20	55	3/4"	92	62
25	68	1"	98	66

**ATAM**

Bronze Sight Flow Indicator with Moving Impeller Screwed Ends

AV-32

Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Single Window with Toughened Glass & Moving Impeller
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Hyd.)



Suitable for

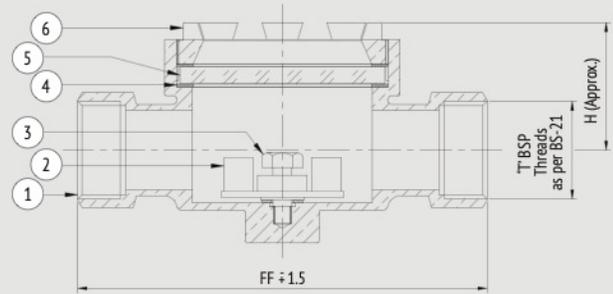
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Impeller	1	Plastic	-
3	Bolt	1	Brass	-
4	Gasket	2	C.A.F.	BS 1832
5	Window	1	Glass	Toughened
6	Cover	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	T	H
15	105	1/2"	34
20	105	3/4"	34
25	140	1"	43
40	165	1.1/2"	51



Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-20
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 450 Psig (Hyd.), Seat & Back Seat: 320 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)



Suitable for

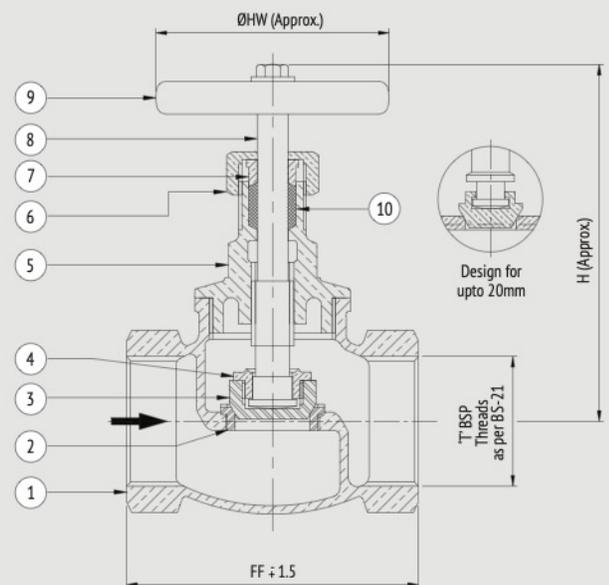
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
5	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
6	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
7	Gland	1	Bronze	BSEN 1982 Gr. CC491K
8	Stem	1	Stainless Steel	ASTM A 276 Type 410
9	Handwheel	1	Cast Iron	BS 1452 Gr.220
10	Packing	-	Graphited Asbestos	-



Sizes & Dimensions

Size (mm)	FF	T	H	ØHW
8	50	1/4"	86	50
10	52	3/8"	86	50
15	56	1/2"	100	56
20	68	3/4"	115	71
25	79	1"	125	71
32	87	1.1/4"	137	89
40	102	1.1/2"	155	95
50	119	2"	162	119
65	136	2.1/2"	185	127
80	164	3"	195	175
100	200	4"	240	195

**ATAM**

Bronze Pressure Relief Valve Open Discharge Screwed Ends

AV-36

Type of Pattern	Straight Pattern
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Spring Loaded, Open Discharge
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Screwed Male Inlet BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Set Pressure	150 Psig (Steam)



Suitable for

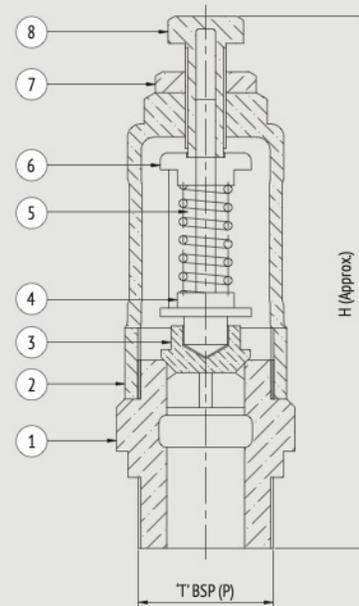
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Spring Chamber	1	Bronze	BSEN 1982 Gr. CC491K
3	Disc	1	Bronze	BSEN 1982 Gr. CC491K
4	Stem	1	Bronze	BSEN 1982 Gr. CC491K
5	Spring	1	Carbon Steel	EN 44
6	Spring Disc	1	Bronze	BSEN 1982 Gr. CC491K
7	Locking Nut	1	Bronze	BSEN 1982 Gr. CC491K
8	Adjusting Screw	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	H	T
15	148	1/2"
20	160	3/4"
25	178	1"
32	180	1.1/4"
40	210	1.1/2"
50	255	2"

**ATAM**

Bronze Pressure Relief Valve Closed Discharge Screwed Ends

AV-37

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Spring Loaded, Enclosed Discharge
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Screwed Male Inlet & Female Outlet BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Set Pressure	150 Psig (Steam)



Suitable for

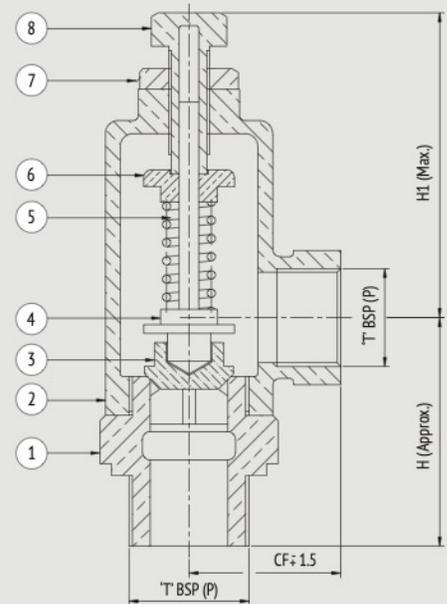
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Spring Chamber	1	Bronze	BSEN 1982 Gr. CC491K
3	Disc	1	Bronze	BSEN 1982 Gr. CC491K
4	Stem	1	Brass	IS 6912 Gr. FLB
5	Spring	1	Carbon Steel	EN 44
6	Spring Disc	1	Bronze	BSEN 1982 Gr. CC491K
7	Locking Nut	1	Bronze	BSEN 1982 Gr. CC491K
8	Adjusting Screw	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	CF	H	H1	T
15	38	60	98	1/2"
20	39	63	112	3/4"
25	48	66	122	1"
32	50	71	124	1.1/4"
40	59	80	140	1.1/2"
50	59	100	165	2"

**ATAM**

Bronze Globe Valve No.4 Screwed Ends, PN-16

AV-40

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 348 Psig (Hyd.), Seat & Back Seat: 255 Psig (Hyd.)



Suitable for

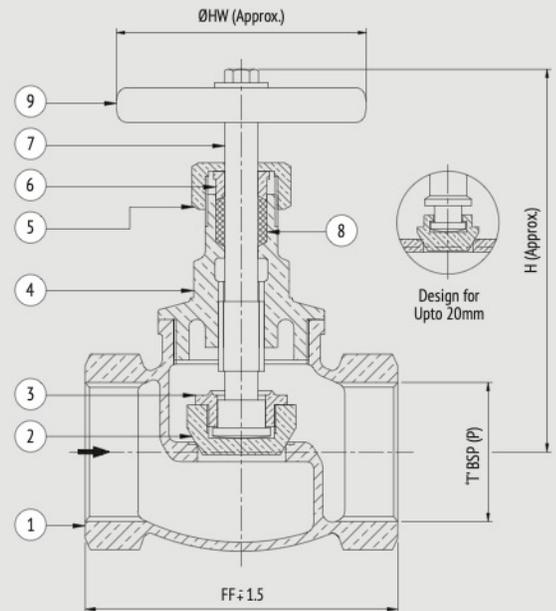
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze	BSEN 1982 Gr. CC491K
3	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
4	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
5	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
6	Gland	1	Bronze	BSEN 1982 Gr. CC491K
7	Stem	1	Bronze	BSEN 1982 Gr. CC491K
8	Packing	-	Asbestos	-
9	Handwheel	1	C.I.	BS 1452 Gr.220



Sizes & Dimensions

Size (mm)	FF	ØHW	H	T
8	39	44	71	1/4"
10	39	44	71	3/8"
15	49	50	77	1/2"
20	55	62	92	3/4"
25	67	66	98	1"
32	76	75	110	1.1/4"
40	82	87	120	1.1/2"
50	99	95	130	2"
65	128	115	155	2.1/2"
80	149	148	170	3"
100	191	160	240	4"

**ATAM**

Bronze Globe Valve No.8 Flanged Ends, PN-16

AV-41

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Flanged Ends as per BS-10 Table-D (Undrilled)
Test Pressure	Body: 348 Psig (Hyd.), Seat & Back Seat: 255 Psig (Hyd.)



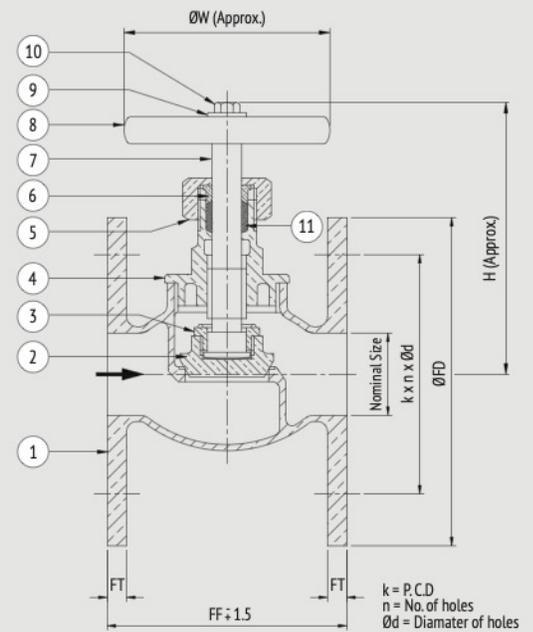
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze	BSEN 1982 Gr. CC491K
3	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
4	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
5	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
6	Gland	1	Bronze	BSEN 1982 Gr. CC491K
7	Stem	1	H.T.Brass	BS EN 2874 Gr. CZ121 / IS 6912 Gr. FLB
8	Handwheel	1	C.I.	BS 1452 Gr.220
9	Washer	1	Carbon Steel	-
10	Screw / Bolt	1	Carbon Steel	-
11	Packing	-	Graphited Asbestos	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	55	74	50	95.3	6.4	66.7	4	14.3
20	66	85	60	101.6	6.4	73	4	14.3
25	83	92	67	114.3	7.9	82.6	4	14.3
32	83	110	77	120.7	7.9	87.3	4	14.3
40	83	120	85	133.4	9.5	98.4	4	14.3
50	105	132	95	152.4	9.5	114.3	4	17.5
65	140	152	108	165.1	11.1	127	4	17.5
80	175	180	150	184.2	12.7	146.1	4	17.5
100	207	235	160	215.9	15.9	177.8	4	17.5

**ATAM**

Bronze Union Cover Horizontal Lift Check Valve No.9 Flanged Ends, PN-20

AV-53

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-20
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Union Cover, Guided Disc
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS-10 Table-F (Undrilled)
Test Pressure	Body: 450 Psig (Hyd.), Seat: 320 Psig (Hyd.)



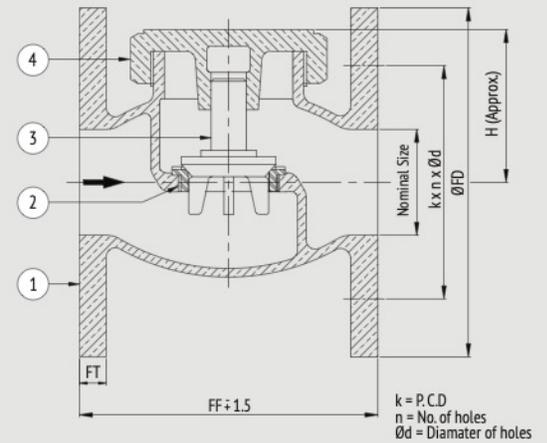
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Cover	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	H	ØFD	FT	k	n	Ød
15	83	44	95.3	7.9	66.7	4	14.3
20	93	55	101.6	7.9	73	4	14.3
25	115	65	120.7	9.5	87.3	4	17.5
32	118	70	133.4	9.5	98.4	4	17.5
40	137	72	139.7	11.1	104.8	4	17.5
50	185	85	165.1	11.1	127	4	17.5
65	206	102	184.2	12.7	146.1	8	17.5
80	224	110	203.2	14.3	165.1	8	17.5
100	243	125	228.6	17.5	190.5	8	17.5

**ATAM**

Bronze Horizontal Lift Check Valve No.4 with Gun Metal Guided Disc Flanged Ends, PN-16

AV-55

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Cover, Guided Disc
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Flanged Ends as per BS-10 Table-D (Undrilled)
Test Pressure	Body: 348 Psig (Hyd.), Seat: 255 Psig (Hyd.)



Suitable for

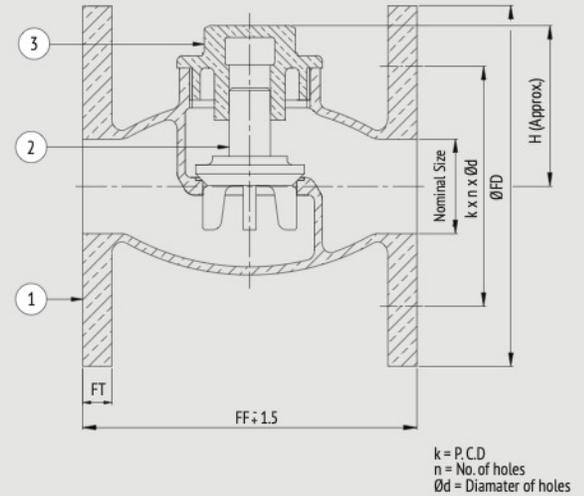
- Water
- Steam
- Gas
- Oil
- Air

Rubber Disc can be provided on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze	BSEN 1982 Gr. CC491K
3	Cover	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	H	ØFD	FT	k	n	Ød
15	54	36	95.3	6.4	66.7	4	14.3
20	65	39	101.6	6.4	73	4	14.3
25	83	42	114.3	7.9	82.6	4	14.3
32	83	50	120.7	7.9	87.3	4	14.3
40	83	55	133.4	9.5	98.4	4	14.3
50	105	66	152.4	9.5	114.3	4	17.5
65	140	77	165.1	11.1	127	4	17.5
80	175	90	184.2	12.7	146.1	4	17.5
100	207	112	215.9	15.9	177.8	4	17.5

**ATAM**

Bronze Gland Cock Screwed Ends

AV-57

Type of Pattern	Straight Pattern
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Gland Packed Fitted with Taper Plug in a Taper Seated Body
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 150 Psig (Hyd.)

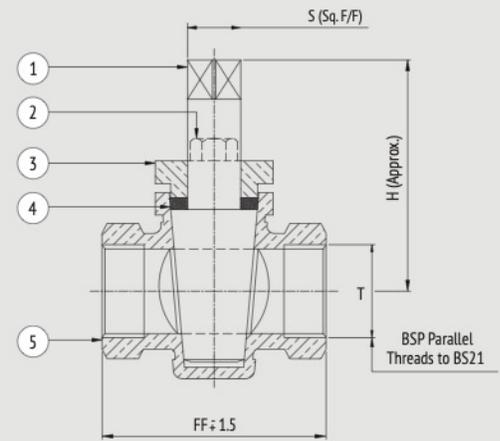


- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Plug	1	Bronze	BSEN 1982 Gr. CC491K
2	Bolt	2	M.S.	BS 916
3	Gland	1	Bronze	BSEN 1982 Gr. CC491K
4	Gland Packing	-	Asbestos	-
5	Body	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	H	S	T
15	56	60	11	1/2"
20	68	68	12	3/4"
25	78	75	16	1"
32	96	107	18	1.1/4"
40	107	107	20	1.1/2"
50	122	110	20	2"

**ATAM**

Bronze Plug Cock (Main Cock) Flanged Ends

AV-60

Type of Pattern	Straight Pattern
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Fitted with Taper Plug in a Taper Seated Body
End Details	Flanged Ends to BS-10 Table-D (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 150 Psig (Hyd.)

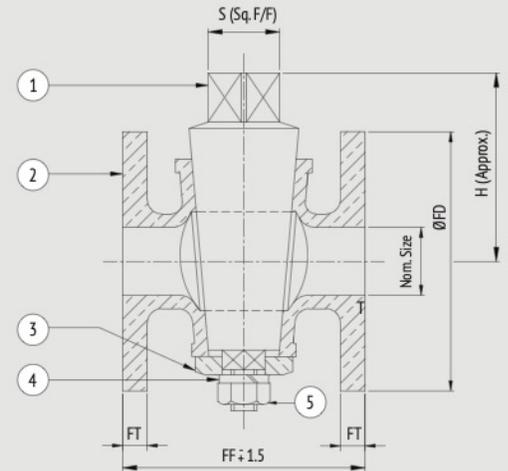


- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Plug	1	Bronze	BSEN 1982 Gr. CC491K
2	Body	1	Bronze	BSEN 1982 Gr. CC491K
3	Washer	1	Bronze	BSEN 1982 Gr. CC491K
4	Spring Washer	1	Spring Steel	-
5	Nut	1	M.S.	BS 916



Sizes & Dimensions

Size (mm)	FF	H	S	ØFD	FT
15	58	75	13	95.3	6.4
20	60	75	17	101.6	6.4
25	77	84	18	114.3	7.9
32	84	92	23	120.7	7.9
40	97	95	25	133.4	9.5
50	108	105	27	152.4	9.5
65	163	155	32	165.1	11.1
80	189	165	33	184.2	12.7
100	259	184	48	215.9	15.9

**ATAM**

Bronze Gland Cock Flanged Ends

AV-63

Type of Pattern	Straight Pattern
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Gland Packed Fitted with Taper Plug in a Taper Seated Body
End Details	Flanged Ends to BS-10 Table-D (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 150 Psig (Hyd.)



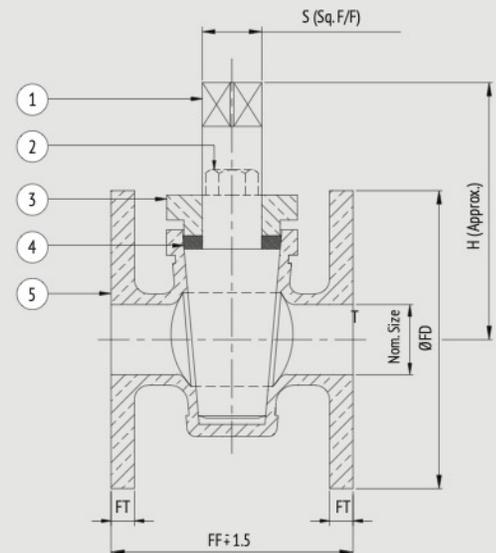
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Plug	1	Bronze	BSEN 1982 Gr. CC491K
2	Bolt	2	M.S.	BS 916
3	Gland	1	Bronze	BSEN 1982 Gr. CC491K
4	Gland Packing	-	Asbestos	-
5	Body	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	H	S	ØFD	FT
15	54	64	11	95.3	6.4
20	60	67	13.5	101.6	6.4
25	78	74	17	114.3	7.9
32	83	76	17	120.7	7.9
40	98	110	20	133.4	9.5
50	110	110	24	152.4	9.5
65	144	150	32	165.1	11.1
80	168	152	32	184.2	12.7
100	251	155	36	215.9	15.9

**ATAM**

Bronze Plug Cock (Main Cock) Screwed Ends

AV-64

Body Material Cum Standard Bronze (BS EN 1982 Gr. CC491K)
 Product Description Fitted with Taper Plug in a Taper Seated Body
 End Details Screwed Female BSP Parallel Threads (BS-21)
 Test Pressure Body: 200 Psig (Hyd.), Seat: 100 Psig (Hyd.)

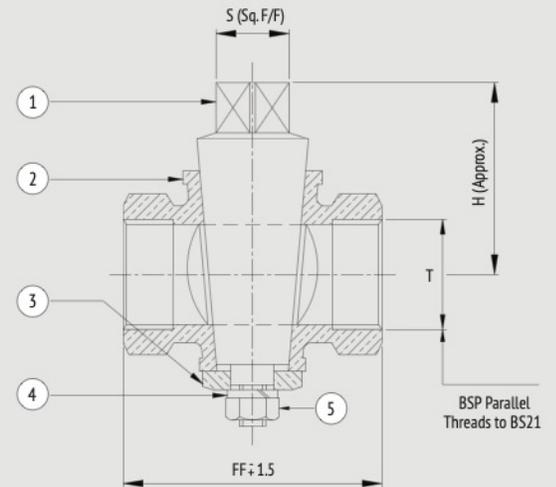


- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Plug	1	Bronze	BSEN 1982 Gr. CC491K
2	Body	1	Bronze	BSEN 1982 Gr. CC491K
3	Washer	1	Bronze	BSEN 1982 Gr. CC491K
4	Spring Washer	1	M.S.	BS 916
5	Nut	1	M.S.	BS 916



Sizes & Dimensions

Size (mm)	FF	H	S	T
10	56	46	13	3/8"
15	56	46	13	1/2"
20	62	48	15	3/4"
25	73	56	16	1"
32	95	70	22	1.1/4"
40	106	80	24	1.1/2"
50	134	98	26	2"
65	160	105	32	2.1/2"
80	185	110	33	3"

**ATAM**

Bronze Globe Valve No.5 with Teflon / Rubber Disc Screwed Ends

AV-69

Pressure / Class Rating	PN-20
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Teflon / Rubber Disc
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 450 Psig (Hyd.), Seat & Back Seat: 320 Psig (Hyd.), Seat: 100 Psig (Air)



Suitable for

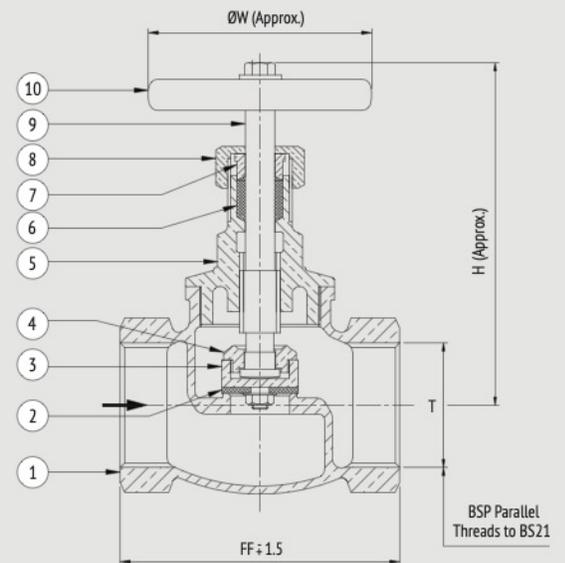
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	PTFE Teflon	BS EN 12086-1
3	Disc Holder	1	Bronze	BSEN 1982 Gr. CC491K
4	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
5	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
6	Packing	-	Graphited Asbestos	-
7	Gland	1	Bronze / Brass	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
8	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
9	Stem	1	H.T. Brass	DIN EN 12164 Gr. CW721R / IS 6912 Gr. FLB
10	Handwheel	1	C.I.	BS 1452 Gr.220



Sizes & Dimensions

Size (mm)	FF	H	ØW	T
8	50	86	50	1/4"
10	52	86	50	3/8"
15	61	99	56	1/2"
20	72	115	71	3/4"
25	84	125	71	1"
32	93	137	89	1.1/4"
40	108	155	95	1.1/2"
50	128	162	119	2"

**ATAM**

Bronze Angle Globe Valve No.4 Right Angle Pattern Screwed Ends, PN-16

AV-70

Type of Pattern	Right Angle Pattern
Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 348 Psig (Hyd.), Seat & Back Seat: 255 Psig (Hyd.)



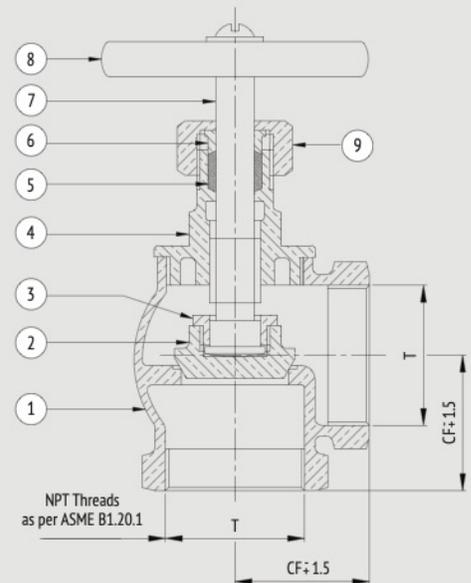
- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze	BSEN 1982 Gr. CC491K
3	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
4	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
5	Gland Packing	-	Graphited Asbestos	-
6	Gland	1	Bronze / Brass	BSEN 1982 Gr. CC491K
7	Stem	1	Brass	IS 6912 Gr. FLB
8	Handwheel	1	C.I.	BS 1452 Gr.220
9	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	CF	T
15	27	1/2"
20	32	3/4"
25	38	1"
32	46	1.1/4"
40	51	1.1/2"
50	58	2"



Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Non Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Flanged Ends as per BS-10 Table-D (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)

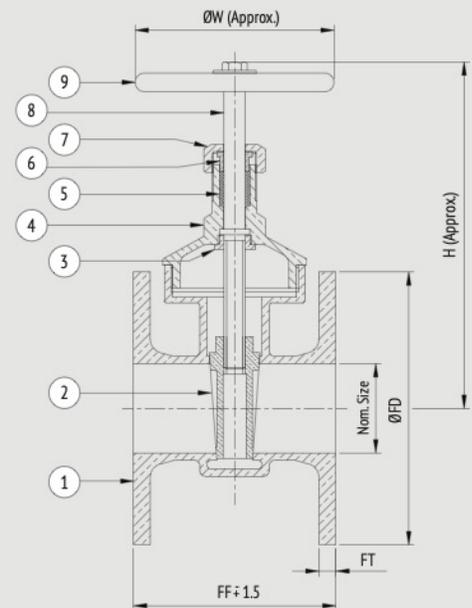


- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Wedge	1	Bronze	BSEN 1982 Gr. CC491K
3	Stem Nut	1	Bronze	BSEN 1982 Gr. CC491K
4	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
5	Packing	-	Graphited Asbestos	-
6	Gland	1	Bronze	BSEN 1982 Gr. CC491K
7	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
8	Stem	1	Brass	IS 6912 Gr. FLB
9	Handwheel	1	C.I.	BS EN 1561 Gr. GIL 220

**Sizes & Dimensions**

Size (mm)	FF	H	ØW	ØFD	FT
15	65	92	51	95.3	6.4
20	77	112	59	101.6	6.4
25	86	125	64	114.3	7.9
32	90	132	72	120.7	7.9
40	107	150	85	133.4	9.5
50	115	180	97	152.4	9.5
65	138	215	115	165.1	11.1
80	150	260	119	184.2	12.7
100	179	310	184	215.9	15.9
125	215	415	216	254	17.5
150	257	489	254	279.4	17.5

**ATAM**

Bronze Gate Valve Rising Stem Screwed Ends

AV-74

Testing Standard	BS EN 12266-Part 1
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)



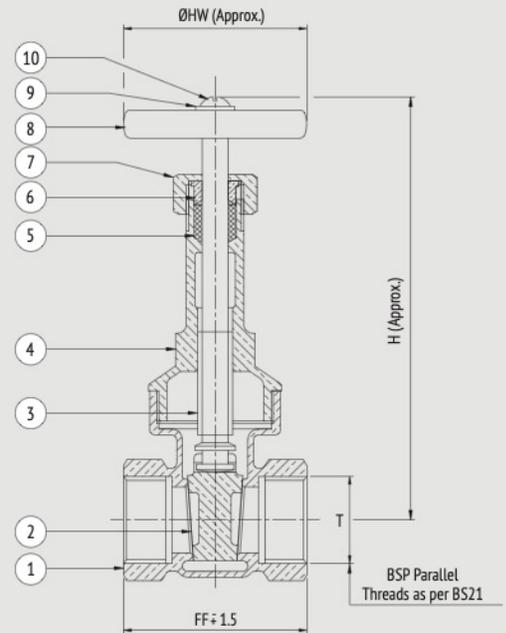
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Wedge	1	Bronze	BSEN 1982 Gr. CC491K
3	Stem	1	Brass	DIN EN 12164 Gr. CW721R
4	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
5	Packing	-	Asbestos	-
6	Gland	1	Bronze / Brass	BSEN 1982 Gr. CC491K
7	Gland Nut	1	Bronze / Brass	BSEN 1982 Gr. CC491K
8	Handwheel	1	C.I. / Steel	IS 210 Gr. FG200
9	Washer	1	Carbon Steel	-
10	Screw / Bolt	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	ØW	H	T
15	60	50	132	1/2"
20	60	60	155	3/4"
25	70	64	167	1"
32	80	76	180	1.1/4"
40	90	90	205	1.1/2"
50	100	100	245	2"
65	105	110	305	2.1/2"

**ATAM**

Bronze Gate Valve Pegular Type Screwed Ends

AV-75

Testing Standard	BS EN 12266-Part 1
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Non Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)



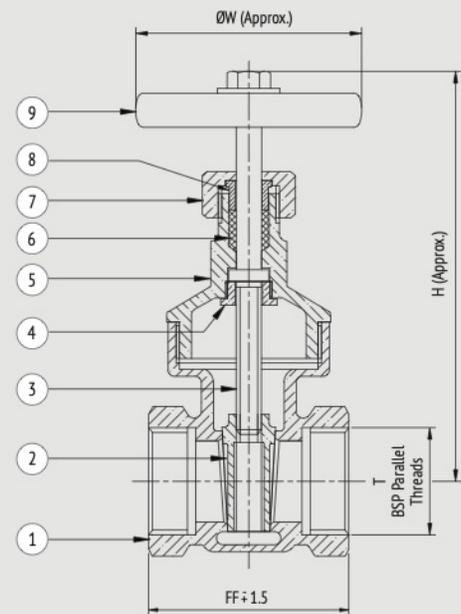
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Wedge	1	Bronze	BSEN 1982 Gr. CC491K
3	Stem	1	Brass	IS 6912 Gr. FLB
4	Stem Nut	1	Bronze	BSEN 1982 Gr. CC491K
5	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
6	Gland Packing	-	Asbestos	-
7	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
8	Gland	1	Bronze	BSEN 1982 Gr. CC491K
9	Handwheel	1	C.I.	BS EN 1561 Gr. GIL 220



Sizes & Dimensions

Size (mm)	FF	ØW	H	T
8	46	43	85	1/4"
10	46	43	85	3/8"
15	49	51	92	1/2"
20	56	62	112	3/4"
25	60	62	125	1"
32	64	72	132	1.1/4"
40	68	85	150	1.1/2"
50	84	97	180	2"
65	93	104	215	2.1/2"
80	103	119	280	3"
100	127	185	310	4"

**ATAM**

Bronze Swing Check Valve Screwed Ends, PN-16

AV-76

Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Cover
Type of Seat	Integral Seat
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 348 Psig (Hyd.), Seat: 255 Psig (Hyd.)



Suitable for

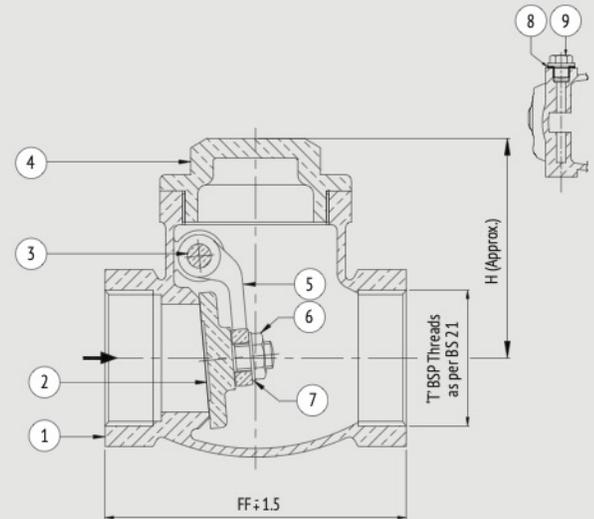
- Water
- Steam
- Gas
- Oil
- Air

Threads as per ASME B-1.20.1 can be provided on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze	BSEN 1982 Gr. CC491K
3	Hinge Pin	1	Brass	-
4	Cover	1	Bronze	BSEN 1982 Gr. CC491K
5	Hinge	1	Bronze	BSEN 1982 Gr. CC491K
6	Nut	1	Brass	-
7	Washer	1	Brass	-
8	Gasket (for side plug)	1	PTFE	-
9	Side Plug	1	Bronze / Brass	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	T	H
15	65	1/2"	48
20	75	3/4"	55
25	75	1"	57
32	85	1.1/4"	72
40	107	1.1/2"	80
50	150	2"	85
65	178	2.1/2"	93

**ATAM**

Bronze Vertical Lift Check Valve One Piece Design Screwed Ends

AV-79

Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Spring Loaded, Vertical Lift Type
Type of Seat	Integral Seat
Trim	Cu-Alloy with Rubber O-Ring Seated
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.), Seat: 80 Psig (Air)

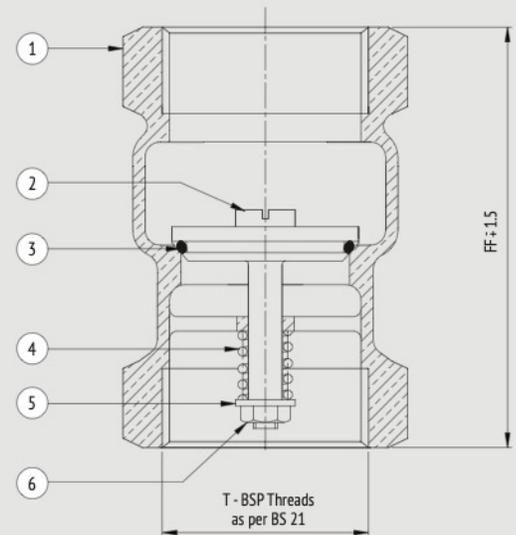


- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc Guide	1	Bronze	BSEN 1982 Gr. CC491K
3	O-Ring	1	Synthetic Rubber	-
4	Spring	1	Stainless Steel	AISI 304
5	Washer	1	Brass	-
6	Nut	1	Brass	-



Sizes & Dimensions

Size (mm)	FF	T
15	63	1/2"
20	68	3/4"
25	75	1"
32	85	1.1/4"
40	90	1.1/2"
50	104	2"
65	106	2.1/2"
80	126	3"
100	150	4"

**ATAM**

Bronze Vertical Lift Check Valve Two Piece Design Screwed Ends, PN-20

AV-80

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-20
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Vertical Lift Type
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 435 Psig (Hyd.), Seat: 320 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)



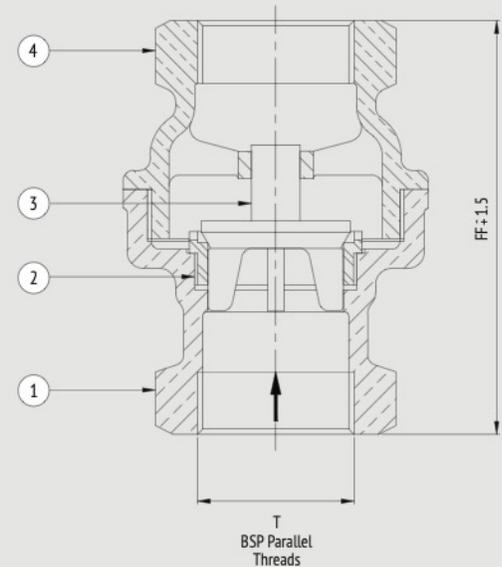
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Inlet Body	1	Gun Metal	BSEN 1982 Gr. CC491K
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Outlet Body	1	Gun Metal	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	T
15	73	1/2"
20	80	3/4"
25	89	1"
32	110	1.1/4"
40	126	1.1/2"
50	145	2"
65	157	2.1/2"
80	172	3"

**ATAM**

Bronze Foot Valve Screwed Ends, PN-20

AV-86

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-20
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Spring Loaded, Vertical Lift Type with Metallic Strainer
Type of Seat	Integral Seat
Trim	Cu-Alloy with Rubber O-Ring Seated
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 435 Psig (Hyd.), Seat: 320 Psig (Hyd.)



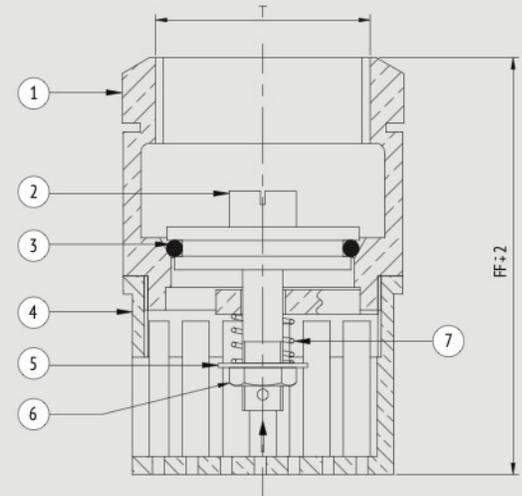
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze	BSEN 1982 Gr. CC491K
3	O-Ring	1	Synthetic Rubber	-
4	Strainer	1	Bronze	BSEN 1982 Gr. CC491K
5	Washer	1	Brass	-
6	Lock Nut	-	Brass	-
7	Spring	1	Stainless Steel	AISI 304



Sizes & Dimensions

Size (mm)	FF	T
15	68	1/2"
20	68	3/4"
25	73	1"
32	83	1.1/4"
40	88	1.1/2"
50	92	2"
65	108	2.1/2"
80	114	3"
100	137	4"
125	160	5"
150	199	6"



Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated with Open Shut Indicator & Pad Locking Arrangements
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy with PTFE / Teflon Seated
End Details	Inlet Flange End to BS-10 Table-D & Other Side Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)



Suitable for

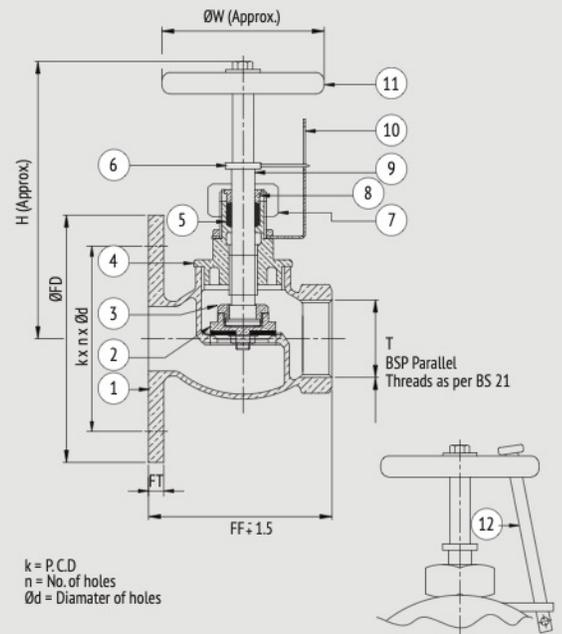
- Water
- Steam
- Gas
- Oil
- Air

These valves are suitable for transformers.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Disc	1	Bronze (PTFE Seated)	BSEN 1982 Gr. CC491K
3	Disc Nut	1	Bronze	BSEN 1982 Gr. CC491K
4	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
5	Gland Packing	-	Asbestos	-
6	Indicator	1	Bronze	BSEN 1982 Gr. CC491K
7	Gland Nut	1	Bronze / Brass	BSEN 1982 Gr. CC491K / -
8	Gland	1	Bronze / Brass	BSEN 1982 Gr. CC491K / -
9	Stem	1	H.T. Brass	DIN EN 12164 Gr. CW721R
10	Indicator Plate	1	Brass Sheet	-
11	Handwheel	1	Aluminium	-
12	Locking Rod	1	Carbon Steel	Galvanised



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	T	k	n	Ød
15	54	99	50	95	6.4	1/2"	66	4	14
20	71	100	60	101.6	6.4	3/4"	73	4	14
25	77	122	65	115	7.9	1"	82.6	4	14
32	87	130	77	120.7	7.9	1.1/4"	94	4	14
40	91	140	85	133.4	9.5	1.1/2"	98.4	4	14
50	107	160	98	150	9.5	2"	115	4	17

**ATAM**

Bronze Gate Valve with Indicator & Pad Locking Arrangement Mixed Ends

AV-92A

Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Non Rising Stem, Handwheel Operated with Open Shut Indicator & Pad Locking Arrangements
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Inlet Flange End to BS-10 Table-D & Other Side Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)



Suitable for

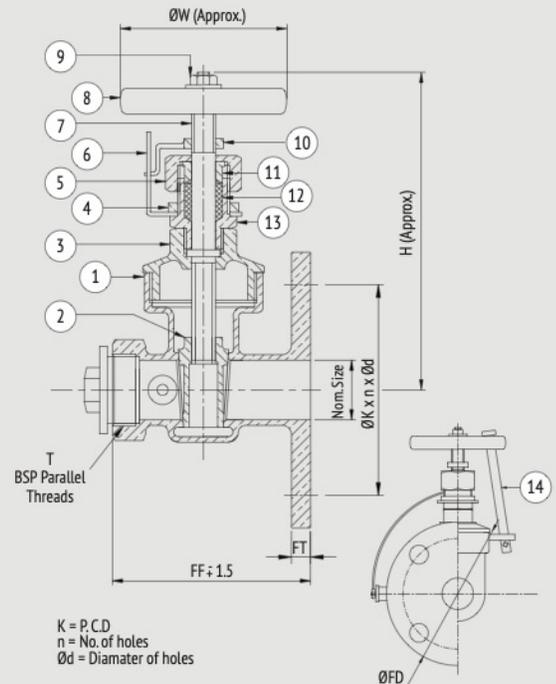
- Water
- Steam
- Gas
- Oil
- Air

These valves are suitable for transformers.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Wedge	1	Bronze	BSEN 1982 Gr. CC491K
3	Bonnet	1	Bronze	BSEN 1982 Gr. CC491K
4	Locking nut	1	Bronze	BSEN 1982 Gr. CC491K
5	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
6	Indicating Plate	1	Brass Sheet	-
7	Stem	1	H.T. Brass	EN 12164 Gr. CW721R
8	Handwheel	1	Aluminium	-
9	Screw / Nut	1	Steel	-
10	Indicator	1	Bronze	BSEN 1982 Gr. CC491K
11	Gland	1	Bronze	BSEN 1982 Gr. CC491K
12	Gland Packing	-	Asbestos	-
13	Stuffing Box	1	Bronze	BS EN 1982 Gr. CC491K
14	Locking Rod	1	M.S	Galvanised



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	T	ØK	n	Ød
15	66	95	63	95	6.4	1/2"	66	4	14
20	66	110	63	101.6	6.4	3/4"	73	4	14
25	80	125	78	115	7.9	1"	82.6	4	14
32	90	145	78	120.7	7.9	1.1/4"	94	4	14
40	100	160	100	133.4	9.5	1.1/2"	98.4	4	14
50	110	175	111	150	9.5	2"	115	4	17



Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Non Rising Stem, Handwheel Operated with Open Shut Indicator & Pad Locking Arrangements
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Flanges Ends as per BS-10 Table-D
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)



Suitable for

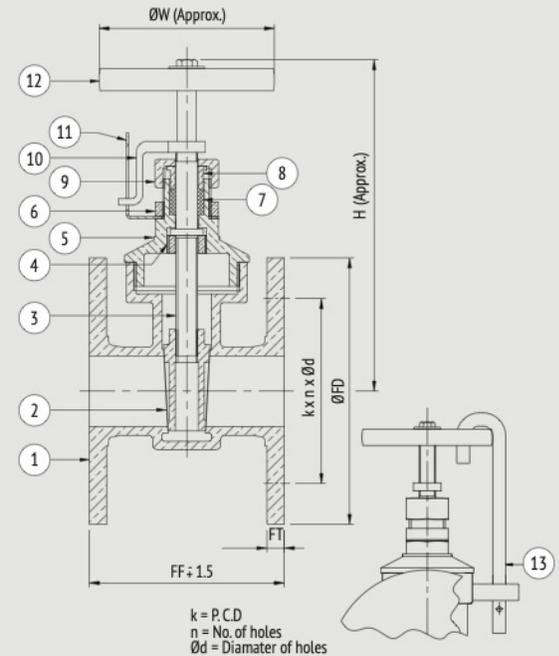
- Water
- Steam
- Gas
- Oil
- Air

These valves are suitable for transformers.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
2	Wedge	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 319
4	Stem Nut	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
5	Bonnet	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
6	Check Nut	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
7	Packing	-	PTFE	-
8	Gland Follower	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
9	Gland Nut	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
10	Indicator	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
11	Indicator Plate	1	Brass Sheet	-
12	Handwheel	1	Aluminium	-
13	Locking Rod	1	M.S.	Galvanised

**Sizes & Dimensions**

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	66	126	50	96	6.4	66	4	14
20	76	145	60	102	6.4	73	4	14
25	86	163	64	115	7.9	82	4	14
32	89	176	64	120	7.9	94	4	14
40	106	182	85	135	9.5	104	4	14
50	114	215	97	150	9.5	115	4	17
65	138	225	118	165	11.1	127	4	17
80	151	295	148	185	12.7	145	4	17
100	179	355	185	216	15.9	178	4	17
125	216	535	250	254	17.5	210	8	17



ATAM

Bronze Globe Valve with Indicator & Pad Locking Arrangement Flanged Ends

AV-94

Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated with Open Shut Indicator & Pad Locking Arrangements
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy with PTFE / Teflon Seated
End Details	Flanges Ends as per BS-10 Table-D
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)



Suitable for

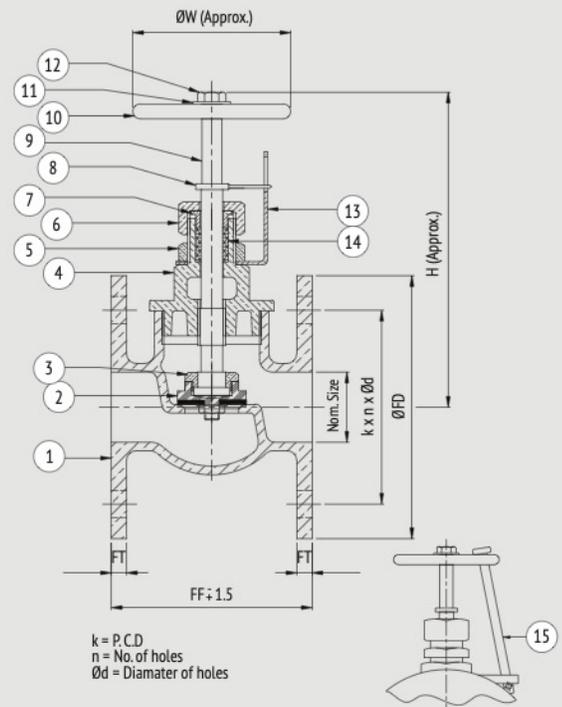
- Water
- Steam
- Gas
- Oil
- Air

These valves are suitable for transformers.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
2	Disc	1	Bronze (PTFE Seated)	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
3	Disc Nut	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
4	Bonnet	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
5	Locking Nut	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
6	Gland Nut	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
7	Gland	1	Bronze / Brass	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
8	Indicator	1	Bronze	BS EN 1982 Gr. CC491K / IS 318 Gr. LTB2
9	Stem	1	H.T. Brass	-
10	Handwheel	1	Aluminium	-
11	Washer	1	S.S.	-
12	Screw / Bolt	1	S.S.	-
13	Indicator Plate	1	Brass Sheet	-
14	Packing	-	PTFE	-
15	Locking Rod	1	M.S.	Galvanised



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	55	99	50	96	6.4	66	4	14
20	66	107	60	102	6.4	73	4	14
25	83	115	64	115	7.9	82	4	14
32	83	136	64	120	7.9	94	4	14
40	83	147	85	135	9.5	104	4	14
50	105	165	97	150	9.5	115	4	17
65	140	170	118	165	11.1	127	4	17
80	175	218	148	185	12.7	145	4	17
100	207	255	185	216	15.9	178	4	17

**ATAM**

Cast Iron Butterfly Valve with Stainless Steel Disc Class-125

AV-96A

Product Standard	IS-13095
Testing Standard	IS-13095
Pressure / Class Rating	Class-125
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG200)
Product Description	Wafer Type, without Lugs
Type of Seat	Renewable Liner
Trim	EPDM Liner, Disc: Stainless Steel (CF8), Stem: 13% Cr. (SS 410)
End Details	Suitable for Insertion between Flanges as per ANSI B16.1 Class-125 DIN ND-10 & BS-10 Table-E
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)
Max. Working Temperature	80°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

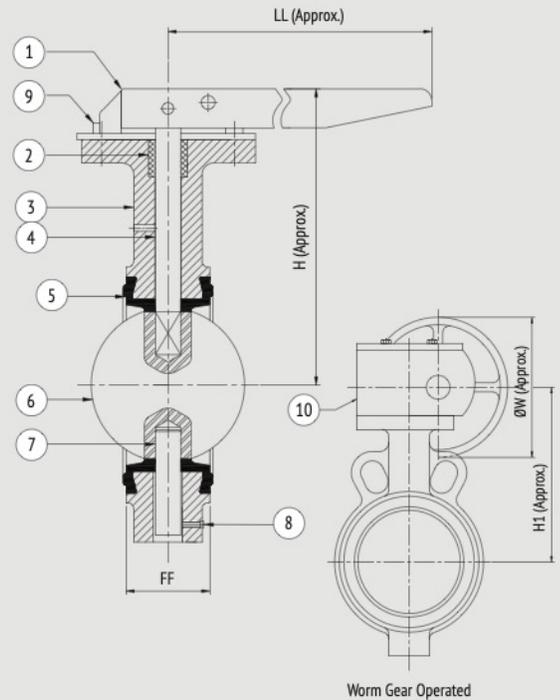


Face-to-Face dimensions are from the metal surface.
Valves Sizes 8" & above are available with Gear Arrangement.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Lever Assembly	1	D.I.	-
2	Packing Ring	1	PTFE	-
3	Body	1	C.I.	IS 210 Gr.FG200
4	Upper Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Body Liner	1	EPDM (Renewable Liner)	-
6	Disc	1	C.S.S.	ASTM A 351 Gr. CF8
7	Lower Stem	1	Stainless Steel	ASTM A 276 Type 410
8	L-Key Screw	2	Carbon Steel	-
9	L-Key Screw	2	Carbon Steel	-
10	Gear Box	1	C.I.	IS 210 Gr.FG200



Sizes & Dimensions

Size (mm)	FF	LL	H	H1	ØW
40	33	208	128	-	-
50	43	208	140	-	-
65	46	208	155	-	-
80	46	257	165	-	-
100	52	257	180	-	-
125	56	257	200	-	-
150	56	257	210	-	-
200	60	-	-	305	200
250	68	-	-	350	200
300	78	-	-	400	200

**ATAM**

Cast Iron Butterfly Valve with S.G Iron Disc Class-125

AV-96B

Product Standard	IS-13095
Testing Standard	IS-13095
Pressure / Class Rating	Class-125
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG200)
Product Description	Wafer Type, without Lugs
Type of Seat	Renewable Liner
Trim	EPDM Liner, Disc: S.G Iron, Stem: 13% Cr. (SS 410)
End Details	Suitable for insertion between Flanges as per ANSI B16.1 Class-125 DIN ND-10 & BS-10 Table-E
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)
Max. Working Temperature	80°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

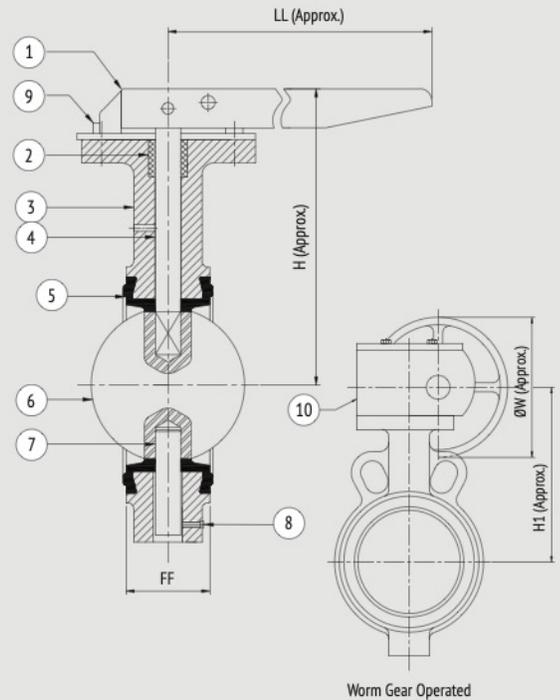


Face-to-Face dimensions are from the metal surface.
Valves Sizes 8" & above are available with Gear Arrangement.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Lever Assembly	1	D.I.	-
2	Packing Ring	1	PTFE	-
3	Body	1	C.I.	IS 210 Gr.FG200
4	Upper Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Body Liner	1	EPDM (Renewable Liner)	-
6	Disc	1	S.G. Iron	EN 1563 Gr. GJL 400 15
7	Lower Stem	1	Stainless Steel	ASTM A 276 Type 410
8	L-Key Screw	1	Carbon Steel	-
9	L-Key Screw	2	Carbon Steel	-
10	Gear Box	2	C.I.	IS 210 Gr.FG200



Sizes & Dimensions

Size (mm)	FF	LL	H	H1	ØW
40	33	208	128	-	-
50	43	208	140	-	-
65	46	208	155	-	-
80	46	257	165	-	-
100	52	257	180	-	-
125	56	257	200	-	-
150	56	257	210	-	-
200	60	-	-	305	200
250	68	-	-	350	200
300	78	-	-	400	200

**ATAM**

Cast Steel Butterfly Valve with Stainless Steel Disc Class-125

AV-96C

Product Standard	BS EN-593
Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	Class-125
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr.WCB)
Product Description	Wafer Type, without Lugs
Type of Seat	Renewable Liner
Trim	EPDM Liner, Disc: Stainless Steel (CF8), Stem: 13% Cr. (SS 410)
End Details	Suitable for insertion between Flanges as per ANSI B16.1 Class-125 DIN ND-10 & BS-10 Table-E
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)
Max. Working Temperature	80°C



Suitable for

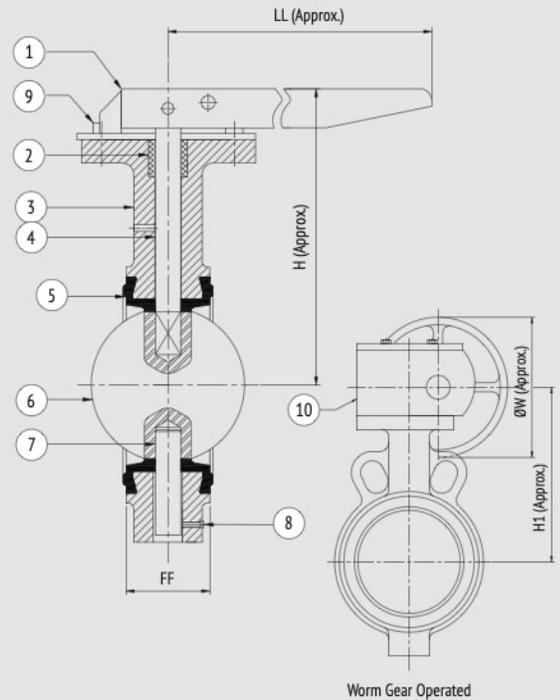
- Water
- Steam
- Gas
- Oil
- Air

Face-to-Face dimensions are from the metal surface.
Valves Sizes 8" & above are available with Gear Arrangement.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Lever Assembly	1	D.I.	-
2	Packing	-	PTFE	-
3	Body	1	C.S.S.	ASTM A 216 Gr.WCB
4	Upper Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Body Liner	2	EPDM (Renewable Liner)	-
6	Disc	1	C.S.S.	ASTM A 351 Gr.CF8
7	Lower Stem	1	Stainless Steel	ASTM A 276 Type 410
8	L-Key Screw	1	Carbon Steel	-
9	L-Key Screw	2	Carbon Steel	-
10	Gear Box	1	C.I.	IS 210 Gr.FG200



Sizes & Dimensions

Size (mm)	FF	LL	H	H1	ØW
40	33	208	128	-	-
50	43	208	140	-	-
65	46	208	155	-	-
80	46	257	165	-	-
100	52	257	180	-	-
125	56	257	200	-	-
150	56	257	210	-	-
200	63	-	-	305	200
250	72	-	-	350	200
300	82	-	-	400	200

**ATAM**

Cast Iron Butterfly Valve with S.G Iron Disc PN-16

AV-96D

Product Standard	IS-13095
Testing Standard	IS-13095
Pressure / Class Rating	PN-16
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG200)
Product Description	Wafer Type, without Lugs
Type of Seat	Integrally Moulded Liner
Trim	EPDM Liner, Disc: S.G Iron, Stem: 13% Cr. (SS 410)
End Details	Suitable for insertion between Flanges as per ANSI B16.1 Class-125 DIN ND-10 & BS-10 Table-E
Test Pressure	Body: 350 Psig (Hyd.), Seat: 255 Psig (Hyd.)
Max. Working Temperature	80°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

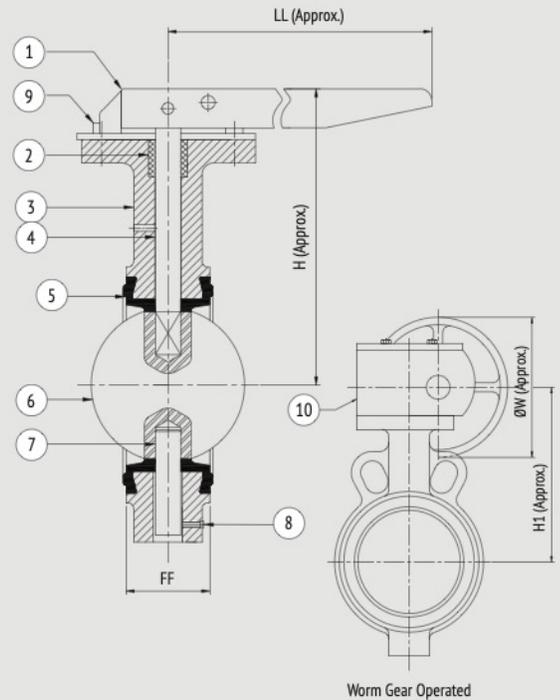


Face-to-Face dimensions are from the metal surface.
Valves Sizes 8" & above are available with Gear Arrangement.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Lever Assembly	1	D.I.	-
2	Packing Ring	1	PTFE	-
3	Body	1	C.I.	IS 210 Gr. FG200
4	Upper Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Body Liner	2	EPDM (Integrally Moulded)	-
6	Disc	1	S.G. Iron	EN 1563 Gr. GJL 400 15
7	Lower Stem	1	Stainless Steel	ASTM A 276 Type 410
8	L-Key Screw	1	Carbon Steel	-
9	L-Key Screw	2	Carbon Steel	-
10	Gear Box	1	C.I.	IS 210 Gr. FG200



Sizes & Dimensions

Size (mm)	FF	LL	H	H1	ØW
40	33	208	128	-	-
50	43	208	140	-	-
65	46	208	155	-	-
80	46	257	165	-	-
100	52	257	180	-	-
125	56	257	200	-	-
150	56	257	210	-	-
200	60	-	-	305	200
250	68	-	-	350	200
300	78	-	-	400	200

**ATAM**

Cast Iron Butterfly Valve with Stainless Steel Disc PN-16

AV-96E

Product Standard	IS-13095
Testing Standard	IS-13095
Pressure / Class Rating	PN-16
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG200)
Product Description	Wafer Type, without Lugs
Type of Seat	Integrally Moulded Liner
Trim	EPDM Liner, Disc: Stainless Steel (CF8), Stem: 13% Cr. (SS 410)
End Details	Suitable for insertion between Flanges as per ANSI B16.1 Class-125 DIN ND-10 & BS-10 Table-E
Test Pressure	Body: 350 Psig (Hyd.), Seat: 255 Psig (Hyd.)
Max. Working Temperature	80°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

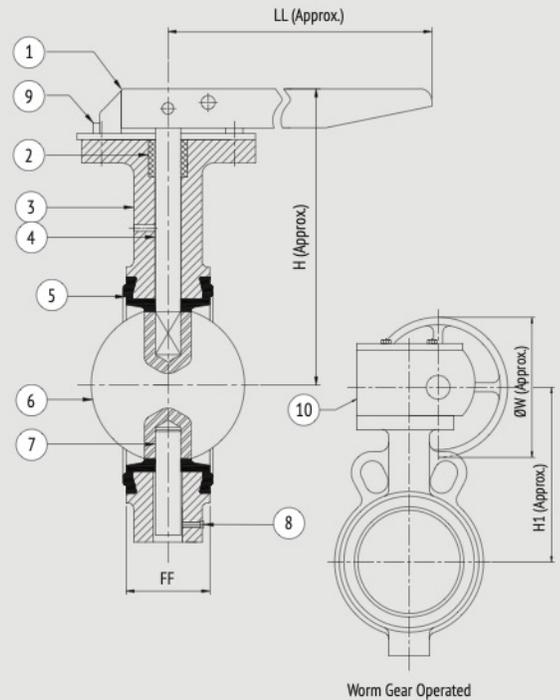


Face-to-Face dimensions are from the metal surface.
Valves Sizes 8" & above are available with Gear Arrangement.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Lever Assembly	1	D.I.	-
2	Packing Ring	1	PTFE	-
3	Body	1	C.I.	IS 210 Gr.FG200
4	Upper Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Body Liner	2	EPDM (Integrally Moulded)	-
6	Disc	1	C.S.S.	ASTM A351 Gr. CF8
7	Lower Stem	1	Stainless Steel	ASTM A 276 Type 410
8	L-Key Screw	1	Carbon Steel	-
9	L-Key Screw	2	Carbon Steel	-
10	Gear Box	1	C.I.	IS 210 Gr.FG200



Sizes & Dimensions

Size (mm)	FF	LL	H	H1	ØW
40	33	208	128	-	-
50	43	208	140	-	-
65	46	208	155	-	-
80	46	257	165	-	-
100	52	257	180	-	-
125	56	257	200	-	-
150	56	257	210	-	-
200	60	-	-	305	200
250	68	-	-	350	200
300	78	-	-	400	200

**ATAM**

S.G. Iron Flap Non Return Valve PN-16

AV-97

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-16
Body Material Cum Standard	S.G Iron (EN 1563 Gr. GJS-400-15)
Product Description	Flap Type with Swing Disc
Type of Seat	Renewable Seat
Trim	Seat: NBR Rubber O-Ring, Disc: S.G Iron
End Details	Suitable for insertion between Flanges as per ANSI B16.1 Class-125 DIN ND-10 & BS-10 Table-E
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.)



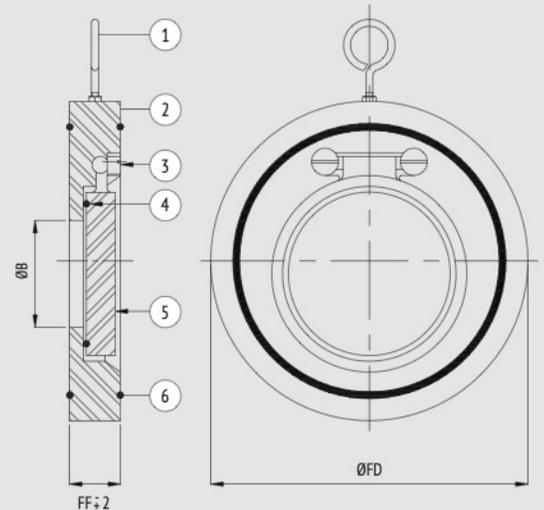
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Hook	1	Carbon Steel	-
2	Body	1	S.G. Iron	EN 1563 Gr. GJS-400-15
3	Screw	2	Carbon Steel	-
4	O-Ring	2	Nitrile Rubber	-
5	Disc	1	S.G. Iron	EN 1563 Gr. GJS-400-15
6	O-Ring	2	EPDM (Integrally Moulded)	-



Sizes & Dimensions

Size (mm)	FF	ØFD	ØB
40	19	86	23
50	19	97	30
65	19	110	40
80	19	130	50
100	19	160	70
125	19	192	92
150	19	216	112
200	28	273	157
250	28	330	195
300	38	385	230

**ATAM**

Bronze Gate Valve Screwed Ends, Class-1

AV-102

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-1
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Inside Screw, Non-Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

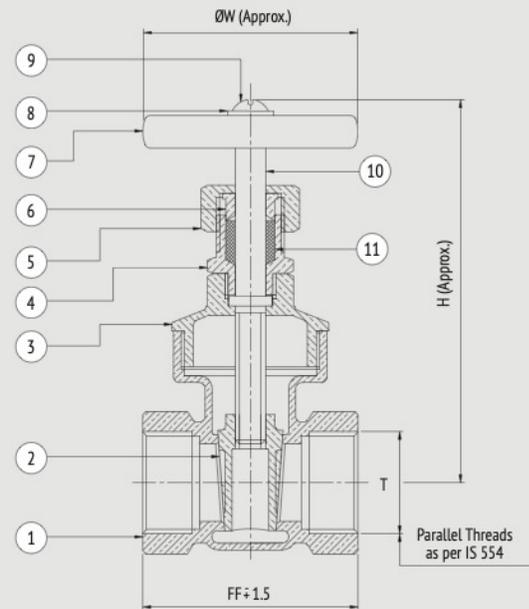


Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Wedge	1	Bronze	IS 318 Gr. LTB2
3	Bonnet	1	Bronze	IS 318 Gr. LTB2
4	Stuffing Box	1	Bronze	IS 318 Gr. LTB2
5	Gland Nut	1	Bronze	IS 318 Gr. LTB2
6	Gland	1	Bronze / Brass	IS 318 Gr. LTB2 / BS EN 1982 Gr. CC491K
7	Handwheel	1	C.I. / Steel	BS EN 1561 Gr. GIL 220 / IS 210 Gr. FG200
8	Washer	1	Carbon Steel	-
9	Screw	1	Carbon Steel	-
10	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
11	Packing	-	Asbestos	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	T
15	60	100	53	1/2"
20	60	110	58	3/4"
25	70	130	67	1"
32	80	144	79	1.1/4"
40	90	160	87	1.1/2"
50	100	175	98	2"
65	105	222	104	2.1/2"
80	125	248	140	3"
100	160	310	183	4"

**ATAM**

Bronze Gate Valve Flanged Ends, Class-1

AV-103

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-1
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Inside Screw, Non-Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Flanged Ends as per IS:778 Class-1 Flat Face (Undrilled)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

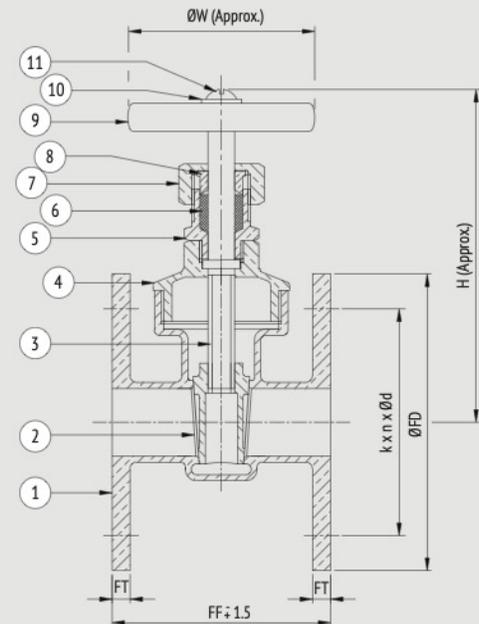
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Wedge	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Stuffing Box	1	Bronze	IS 318 Gr. LTB2
6	Packing	-	Hemp & Jute / Asbestos	IS 5414 / IS 4687
7	Gland Nut	1	Bronze	IS 318 Gr. LTB2
8	Gland	1	Bronze	IS 318 Gr. LTB2
9	Handwheel	1	C.I. / D.I.	BS 1561 Gr. GJL 200 / -
10	Washer	1	Carbon Steel	-
11	Screw	1	Carbon Steel	-



k = P.C.D
n = No. of holes
Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	Ød	n
15	72	100	53	95	6	65	14	4
20	76	110	60	105	6	75	14	4
25	90	130	70	115	8	85	14	4
32	100	144	80	140	8	100	18	4
40	110	160	87	150	9	110	18	4
50	120	175	98	165	11	125	18	4
65	140	222	104	185	13	145	18	4
80	150	248	140	200	13	160	18	8
100	190	310	183	220	16	180	18	8

**ATAM**

Bronze Globe Valve Flanged Ends, Class-1

AV-104

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-1
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem., Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Flanged Ends as per IS:778 Class-1 Flat Face (Undrilled)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

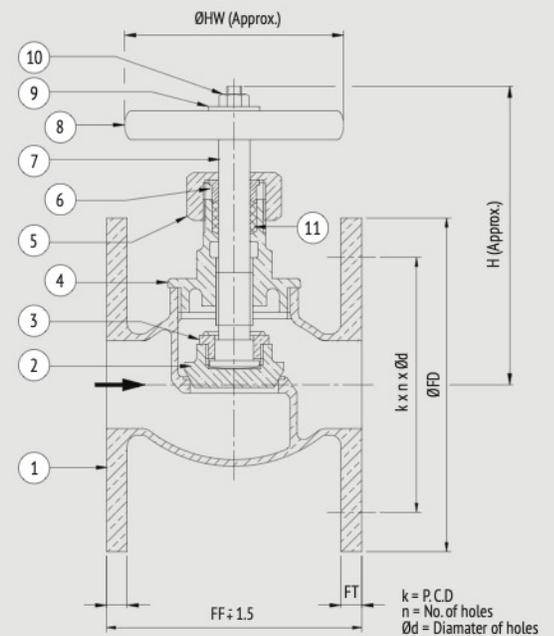
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Disc	1	Bronze	IS 318 Gr. LTB2
3	Disc Nut	1	Bronze	IS 318 Gr. LTB2
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Gland Nut	1	Bronze	IS 318 Gr. LTB2
6	Gland	1	Bronze	IS 318 Gr. LTB2
7	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 319
8	Handwheel	1	Cast Iron	BS EN 1561 Gr. GJL 220 / IS 210 Gr. FG200
9	Washer	1	M.S.	-
10	Handwheel Nut	1	M.S.	-
11	Packing	-	Asbestos	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	Ød	n
15	75	95	53	95	6	65	14	4
20	85	100	58	105	6	75	14	4
25	95	105	67	115	8	85	14	4
32	110	130	79	140	8	100	18	4
40	120	135	87	150	9	110	18	4
50	145	160	98	165	11	125	18	4
65	165	175	104	185	13	145	18	4
80	185	215	140	200	13	160	18	8
100	216	260	183	220	16	180	18	8

**ATAM**

Bronze Globe Valve Screwed Ends, Class-1

AV-105

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-1
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem., Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

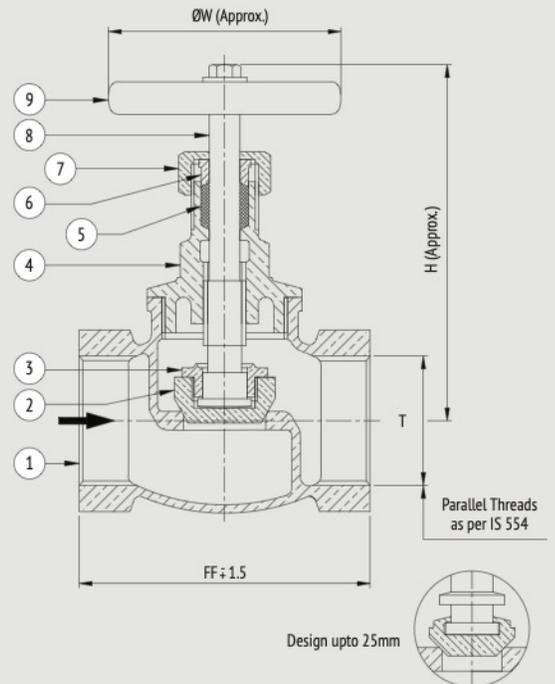


Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Disc	1	Bronze	IS 318 Gr. LTB2
3	Disc Nut	1	Bronze	IS 318 Gr. LTB2
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	-	Asbestos	-
6	Gland	1	Bronze / Brass Rod	IS 318 Gr. LTB2 / IS 319 Type I/II
7	Gland Nut	1	Bronze	IS 318 Gr. LTB2
8	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
9	Handwheel	1	Cast Iron / Steel	IS 210 Gr. FG200



Sizes & Dimensions

Size (mm)	FF	H	ØW	T
15	60	95	53	1/2"
20	70	100	58	3/4"
25	80	105	67	1"
32	95	130	79	1.1/4"
40	110	135	87	1.1/2"
50	125	160	98	2"
65	160	175	104	2.1/2"
80	180	215	140	3"
100	216	260	183	4"

**ATAM**

Bronze Horizontal Lift Check Valve Flanged Ends, Class-1

AV-107

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-1
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Cover, Guided Disc
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Flanged Ends as per IS:778 Class-1 Flat Face (Undrilled)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

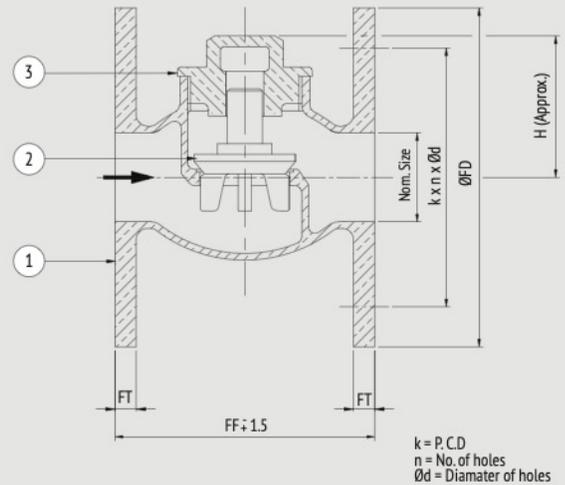
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Disc (Plug Type)	1	Bronze	IS 318 Gr. LTB2
3	Cover	1	Bronze	IS 318 Gr. LTB2



Sizes & Dimensions

Size (mm)	FF	H	ØFD	FT	k	n	Ød
15	75	42	95	6	65	4	14
20	85	47	105	6	75	4	14
25	95	55	115	8	85	4	14
32	110	62	140	8	100	4	18
40	120	65	150	9	110	4	18
50	145	85	165	11	125	4	18
65	165	95	185	13	145	4	18
80	185	105	200	13	160	8	18
100	216	140	220	16	180	8	18

**ATAM**

Bronze Gate Valve Rising Stem Screwed Ends, Class-2

AV-110

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-2
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

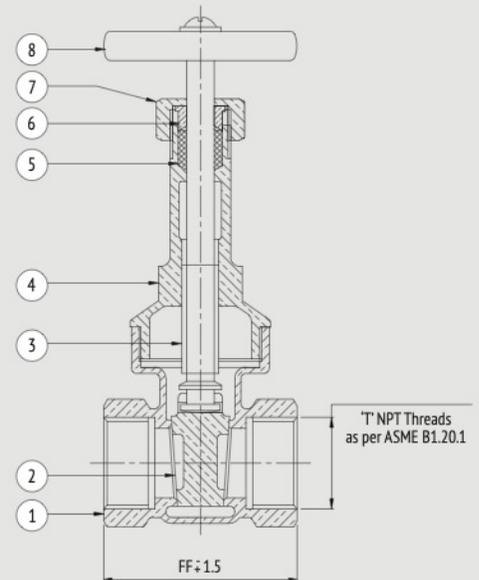


HSN Code - 84818030

Other screwed end specifications can be provided on request.

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Wedge	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	Brass	IS 6912 Gr. FLB
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	-	Graphited Asbestos	-
6	Gland	1	Bronze	IS 318 Gr. LTB2
7	Gland Nut	1	Bronze	IS 318 Gr. LTB2
8	Handwheel	1	M.I.	-



Sizes & Dimensions

Size (mm)	FF	T
15	60	1/2"
20	60	3/4"
25	70	1"
32	80	1.1/4"
40	90	1.1/2"
50	100	2"
65	105	2.1/2"
80	125	3"
100	160	4"

**ATAM**

Bronze Gate Valve Non-Rising Stem Screwed Ends, Class-2

AV-111

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-2
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Inside Screw, Non Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

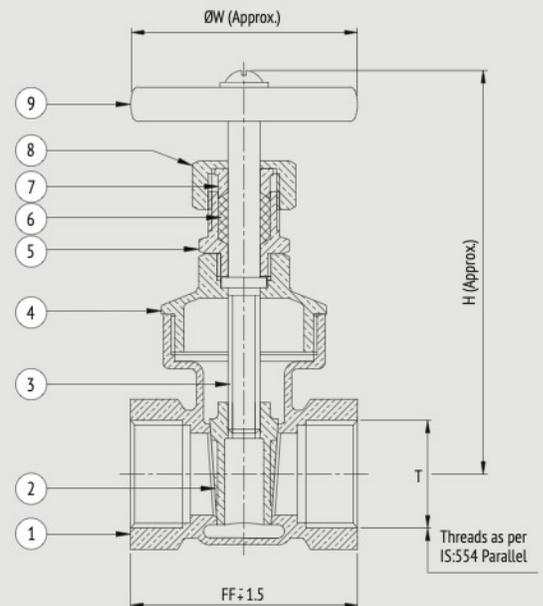


Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Wedge	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Stuffing Box	1	Bronze	IS 318 Gr. LTB2
6	Packing	-	Asbestos	-
7	Gland	1	Bronze	IS 318 Gr. LTB2
8	Gland Nut	1	Bronze	IS 318 Gr. LTB2
9	Handwheel	1	C.I. / D.I.	IS:210 Gr. FG200 / -



Sizes & Dimensions

Size (mm)	FF	H	ØW	T
15	60	100	53	1/2"
20	60	110	58	3/4"
25	70	130	67	1"
32	80	144	79	1.1/4"
40	90	162	87	1.1/2"
50	100	175	98	2"
65	105	222	104	2.1/2"
80	125	248	140	3"
100	160	310	183	4"

**ATAM**

Bronze Gate Valve Flanged Ends, Class-2

AV-112

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-2
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Inside Screw, Non Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Flanged Ends as per IS:778 Class-2 Flat Face (Undrilled)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

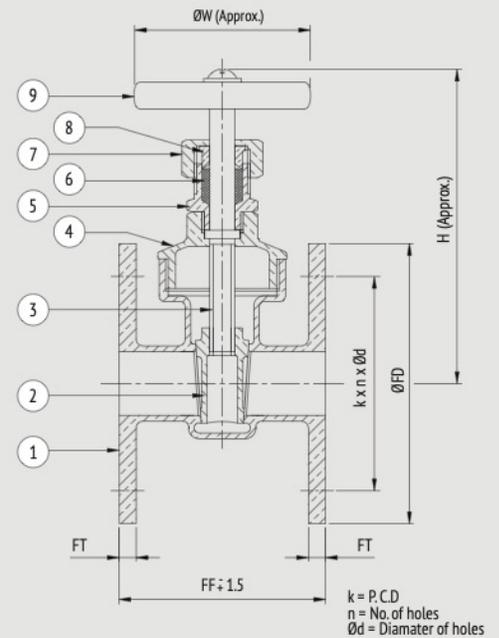
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Wedge	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Stuffing Box	1	Bronze	IS 318 Gr. LTB2
6	Packing	-	Asbestos	-
7	Gland	1	Bronze	IS 318 Gr. LTB2
8	Gland Nut	1	Bronze	IS 318 Gr. LTB2
9	Handwheel	1	C.I. / Steel	IS 210 Gr. FG200



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	72	100	53	95	6	65	4	14
20	76	110	60	105	6	75	4	14
25	90	130	70	115	8	85	4	14
32	100	144	80	140	8	100	4	18
40	110	160	87	150	9	110	4	18
50	120	175	98	165	11	125	4	18
65	140	222	104	185	13	145	4	18
80	150	248	140	200	13	160	8	18
100	190	310	183	220	16	180	8	18

**ATAM**

Bronze Globe Valve Flanged Ends, Class-2

AV-113

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-2
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Flanged Ends as per IS:778 Class-2 Flat Face (Undrilled)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

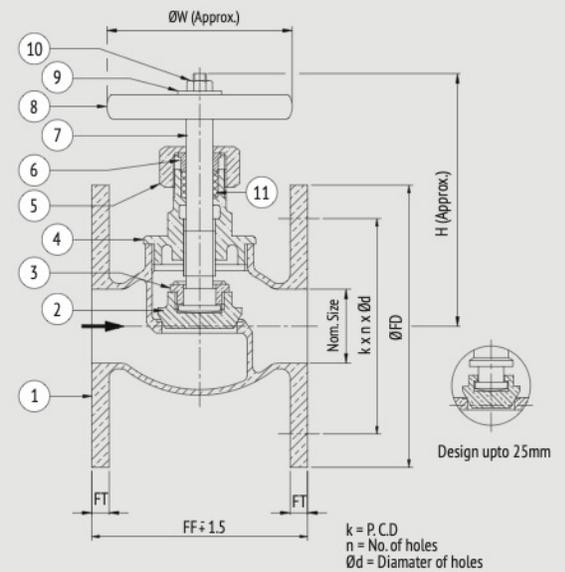
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Disc	1	Bronze	IS 318 Gr. LTB2
3	Disc Nut	1	Bronze	IS 318 Gr. LTB2
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Gland Nut	1	Bronze / Brass	IS 318 Gr. LTB2
6	Gland	1	Bronze	IS 318 Gr. LTB2
7	Stem	1	H.T. Brass	IS 6912 Gr. FLB
8	Handwheel	1	Cast Iron	IS 210 Gr. FG200
9	Washer	1	Carbon Steel	-
10	Handwheel Nut	1	Carbon Steel	-
11	Packing	-	Asbestos	-



Sizes & Dimensions

Size (mm)	FF	H	ØHW	ØFD	FT	k	n	Ød
15	75	95	53	95	6	65	4	14
20	85	100	58	105	6	75	4	14
25	95	105	67	115	8	85	4	14
32	110	130	79	140	8	100	4	18
40	120	135	87	150	9	110	4	18
50	145	160	98	165	11	125	4	18
65	165	175	104	185	13	145	4	18
80	185	215	140	200	13	160	8	18
100	216	260	183	220	16	180	8	18

**ATAM**

Bronze Globe Valve Screwed Ends, Class-2

AV-114

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-2
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

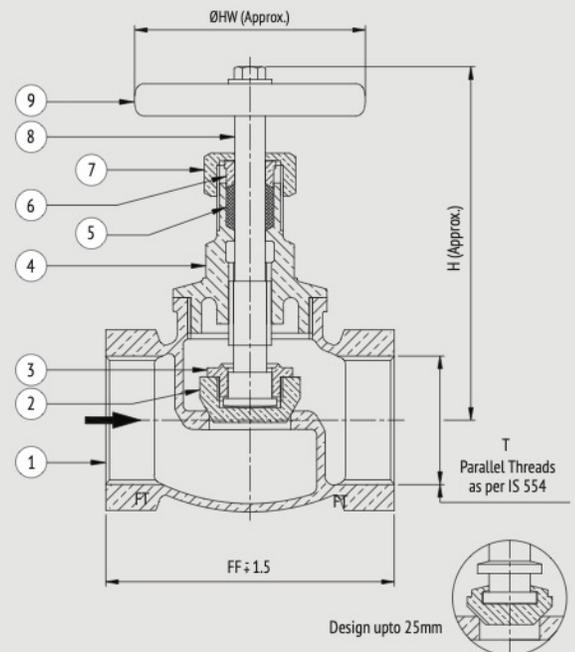


Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Disc	1	Bronze	IS 318 Gr. LTB2
3	Disc Nut	1	Bronze	IS 318 Gr. LTB2
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	1	Asbestos	IS 5414 / IS 4687
6	Gland	1	Bronze / Brass Rod	IS 318 Gr. LTB2
7	Gland Nut	1	Bronze	IS 318 Gr. LTB2
8	Stem	1	H.T.Brass	IS 6912 Gr. FLB / IS 320
9	Handwheel	1	Cast Iron / Steel	IS 210 Gr. FG200



Sizes & Dimensions

Size (mm)	FF	H	ØHW	T
15	60	95	53	1/2"
20	70	100	58	3/4"
25	80	105	67	1"
32	95	130	79	1.1/4"
40	110	135	87	1.1/2"
50	125	160	98	2"
65	160	175	104	2.1/2"
80	180	215	140	3"
100	216	260	183	4"

**ATAM**

Cast Iron Sluice Valve Flanged Ends, PN-1.0

AV-117

Product Standard	IS-14846
Pressure / Class Rating	PN-1.0
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG 200)
Product Description	Bolted Bonnet, Inside Screw, Non Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Wedge	Solid Wedge
Trim	Stem: 13% Cr. (SS 410)
Seat Facing	Cu-Alloy
End Details	Flanged Ends as per IS:1538 PN-1.0 Flat Face (Drilled)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

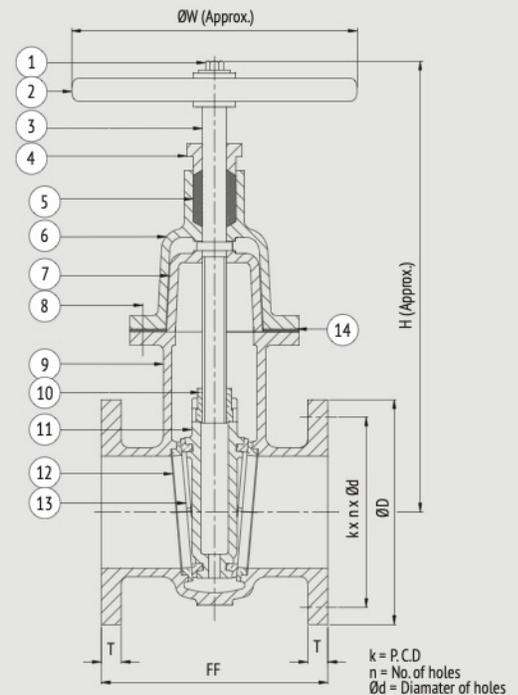


Sizes 350mm & above are supplied with Gear

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Screw	1	Carbon Steel	IS:1363
2	Handwheel / Cap	1	Cast Iron	IS:210 Gr. FG.200
3	Stem	1	Stainless Steel	IS 6603 Gr. 12 CR.12 / IS 6604 Gr. 04 Cr 19N109 / ASTM A276 TP 410
4	Gland	1	Cast Iron	IS:210 Gr. FG.200
5	Gland Packing	1	Hemp & Jute / Rubber	IS 5414 / IS 638 Type B
6	Bonnet	1	Cast Iron	IS:210 Gr. FG.200
7	Thrust Plate	1	Cast Iron	IS:210 Gr. FG.200
8	Bolts / Nuts	To Suit	Carbon Steel	IS:1363 Part 1 / IS:1363 Part 3
9	Body	1	Cast Iron	IS:210 Gr. FG.200
10	Wedge Nut	1	Leaded Tin Bronze	IS:318 Gr. LTB2
11	Wedge	1	Cast Iron	IS:210 Gr. FG.200
12	Body Seat Ring	2	Leaded Tin Bronze	IS:318 Gr. LTB2
13	Wedge Ring	2	Leaded Tin Bronze	IS:318 Gr. LTB2
14	Gasket	1	Rubber	IS 638 Type B
15	T-Head Bolts / Nuts	2 Each	Carbon Steel	IS:1363 Part 1 / IS:1363 Part 3



Sizes & Dimensions

Size (mm)	FF	ØW	H	ØD	T	k	n	Ød
50	178	225	330	165	16	125	4	19
65	190	225	370	185	16	145	4	19
80	203	225	410	200	21	160	4	19
100	229	320	460	220	22	180	8	19
125	254	320	485	250	22.5	210	8	19
150	267	320	557	285	23	240	8	23
200	292	360	680	340	24.5	295	8	23
250	330	400	770	395	26	350	12	23
300	356	400	865	445	27.5	400	12	23
350	381	500	1020	505	29	460	16	23
400	406	640	1110	565	30	513	16	28
450	432	720	1200	615	31.5	565	20	28
500	457	720	1300	670	33	620	20	28
600	508	720	1500	780	36	725	20	31

**ATAM**

Cast Iron Sluice Valve Flanged Ends, PN-1.6

AV-117A

Product Standard	IS-14846
Pressure / Class Rating	PN-1.6
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG 200)
Product Description	Bolted Bonnet, Inside Screw, Non Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Wedge	Solid Wedge
Trim	Stem: 13% Cr. (SS 410)
Seat Facing	Cu-Alloy
End Details	Flanged Ends as per IS:1538 PN-1.6 Flat Face (Drilled)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

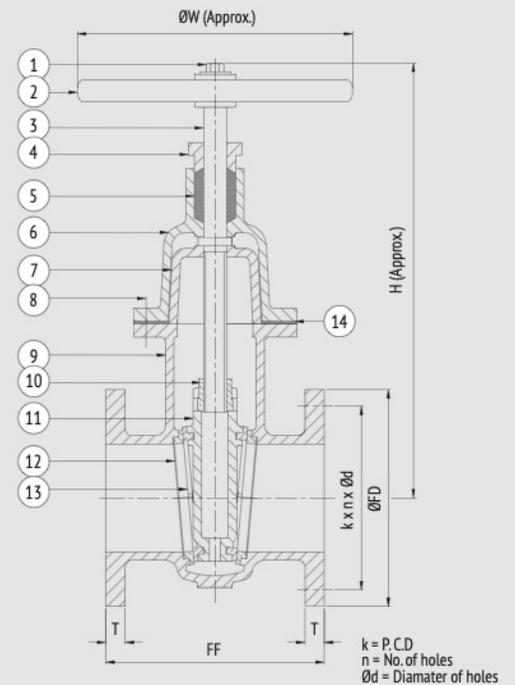


Sizes 350mm & above are supplied with Gear

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Screw	1	Carbon Steel	IS:1363
2	Handwheel / Cap	1	Cast Iron	IS:210 Gr. FG.200
3	Stem	1	Stainless Steel	IS 6603 Gr. 12 CR.12 / IS 6604 Gr. 04 Cr 19N109 / ASTM A276 TP 410
4	Gland	1	Cast Iron	IS:210 Gr. FG.200
5	Gland Packing	1	Hemp & Jute / Rubber	IS 5414 / IS 638 Type B
6	Bonnet	1	Cast Iron	IS:210 Gr. FG.200
7	Thrust Plate	1	Cast Iron	IS:210 Gr. FG.200
8	Bolts / Nuts	To Suit	Carbon Steel	IS:1363 Part 1 / IS:1363 Part 3
9	Body	1	Cast Iron	IS:210 Gr. FG.200
10	Wedge Nut	1	Leaded Tin Bronze	IS:318 Gr. LTB2
11	Wedge	1	Cast Iron	IS:210 Gr. FG.200
12	Body Seat Ring	2	Leaded Tin Bronze	IS:318 Gr. LTB2
13	Wedge Ring	2	Leaded Tin Bronze	IS:318 Gr. LTB2
14	Gasket	1	Rubber	IS 638 Type B
15	T-Head Bolts / Nuts	2 Each	Carbon Steel	IS:1363 Part 1 / IS:1363 Part 3



Sizes & Dimensions

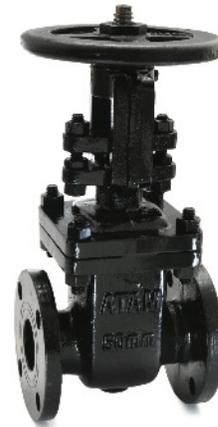
Size (mm)	FF	ØW	H	ØFD	T	k	n	Ød
50	178	280	365	165	16	125	4	19
65	190	280	380	185	16	145	4	19
80	203	280	425	200	21	160	4	19
100	229	360	470	220	22	180	8	19
125	254	360	485	250	22.5	210	8	19
150	267	360	595	285	23	240	8	23
200	292	450	725	340	24.5	295	8	23
250	330	640	835	395	26	350	12	23
300	356	640	910	445	27.5	400	12	23
350	381	640	1030	505	29	460	16	23
400	406	730	1110	565	30	515	16	28
450	432	800	1210	615	31.5	565	20	28
500	457	800	1340	670	33	620	20	28
600	508	800	1500	780	36	725	20	31

**ATAM**

Cast Iron Gate Valve Flanged Ends, PN-1.0

AV-118

Product Standard	BS EN-1171 / IS-14846
Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-1.0
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG 200)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Wedge	Solid Wedge
Trim	Stem: 13% Cr. (SS 410)
Seat Facing	Cu-Alloy
End Details	Flanged Ends as per IS:1538 PN-1.0 Flat Face (Drilled)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

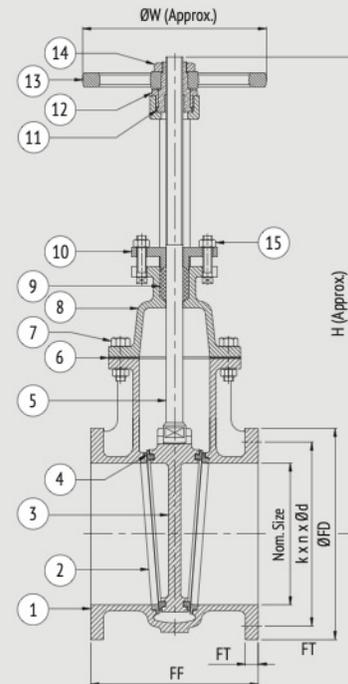


Sizes 350mm & above are supplied with Gear

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IS 210 Gr.FG200 / BS EN 1561 Gr.GJL 220
2	Body Seat Ring	2	Gun Metal	IS 318 Gr.LTB2 / BS EN 1982 Gr.CC491K
3	Wedge	1	Cast Iron	IS 210 Gr.FG200 / BS EN 1561 Gr.GJL 220
4	Wedge Ring	2	Gun Metal	IS 318 Gr.LTB2 / BS EN 1982 Gr.CC491K
5	Stem	1	Stainless Steel	ASTM A 276 Type 410
6	Gasket	1	C.A.F	-
7	Body / Bonnet Bolts & Nuts	To Suit	Carbon Steel	-
8	Bonnet	1	Cast Iron	IS 210 Gr.FG200 / BS EN 1561 Gr.GJL 220
9	Gland Packing	-	Hemp & Jute / Non Asbestos	IS 4687
10	Gland Flange	1	Cast Iron	IS 210 Gr.FG200 / BS EN 1561 Gr.GJL 220
11	Yoke Sleeve	1	Bronze / Stainless Steel	BS EN 1982 Gr. CC3314 / ASTM A 582 Type 416
12	Yoke Sleeve Nut	1	Carbon Steel	-
13	Handwheel	1	M.I. / C.I.	-
14	Handwheel Retaining Nut	1	Carbon Steel	-
15	Gland Flange Bolts & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	ØW	H	ØFD	FT	k	n	Ød
50	178	225	320	165	16	125	4	19
65	190	225	375	185	16	145	4	19
80	203	225	422	200	21	160	4	19
100	229	320	490	220	22	180	8	19
125	254	320	560	250	22.5	210	8	19
150	267	320	640	285	23	240	8	23
200	292	360	782	340	24.5	295	8	23
250	330	400	1040	395	26	350	12	23
300	356	400	1170	445	27.5	400	12	23
350	381	500	1300	505	29	460	16	23
400	406	640	1370	565	30	513	16	28
450	432	720	1430	615	31.5	565	20	28
500	457	720	1510	670	33	620	20	28
600	508	720	-	780	36	725	20	31

**ATAM**

Cast Iron Gate Valve Flanged Ends, PN-1.6

AV-118A

Product Standard	BS EN-1171 / IS-14846
Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-1.6
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG 200)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Wedge	Solid Wedge
Trim	Stem: 13% Cr. (SS 410)
Seat Facing	Cu-Alloy
End Details	Flanged Ends as per IS:1538 PN -1.6 Flat Face (Drilled)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

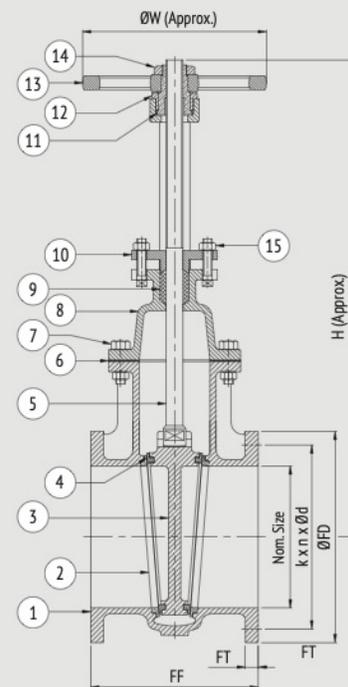


Sizes 350mm & above are supplied with Gear

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IS 210 Gr.FG200 / BS EN 1561 Gr.GJL 220
2	Body Seat Ring	2	Gun Metal	IS 318 Gr.LTB2 / BS EN 1982 Gr.CC491K
3	Wedge	1	Cast Iron	IS 210 Gr.FG200 / BS EN 1561 Gr.GJL 220
4	Wedge Ring	2	Gun Metal	IS 318 Gr.LTB2 / BS EN 1982 Gr.CC491K
5	Stem	1	Stainless Steel	ASTM A 276 Type 410
6	Gasket	1	C.A.F	-
7	Body / Bonnet Bolts & Nuts	To Suit	Carbon Steel	-
8	Bonnet	1	Cast Iron	IS 210 Gr.FG200 / BS EN 1561 Gr.GJL 220
9	Gland Packing	-	Hemp & Jute / Non Asbestos	IS 4687
10	Gland Flange	1	Cast Iron	IS 210 Gr.FG200 / BS EN 1561 Gr.GJL 220
11	Yoke Sleeve	1	Bronze / Stainless Steel	BS EN 1982 Gr. CC3314 / ASTM A 582 Type 416
12	Yoke Sleeve Nut	1	Carbon Steel	-
13	Handwheel	1	M.I. / C.I.	-
14	Handwheel Retaining Nut	1	Carbon Steel	-
15	Gland Flange Bolts & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	ØW	H	ØFD	FT	k	n	Ød
50	178	225	320	165	16	125	4	19
65	190	225	375	185	16	145	4	19
80	203	225	422	200	21	160	4	19
100	229	320	490	220	22	180	8	19
125	254	320	560	250	22.5	210	8	19
150	267	320	640	285	23	240	8	23
200	292	360	782	340	24.5	295	8	23
250	330	400	1040	395	26	350	12	23
300	356	400	1170	445	27.5	400	12	23
350	381	500	1300	505	29	460	16	23
400	406	640	1370	565	30	513	16	28
450	432	720	1430	615	31.5	565	20	28
500	457	720	1510	670	33	620	20	28
600	508	720	-	780	36	725	20	31

**ATAM**

Cast Iron Reflux (Non-Return) Valve Flanged Ends, PN-1.0

AV-119

Product Standard	IS-5312 (Part-1)
Pressure / Class Rating	PN-1.0
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG 200)
Product Description	Bolted Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
Seat Facing	Rubber Facing
End Details	Flanged Ends as per IS:1538 PN-1.0 Flat Face (Drilled)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

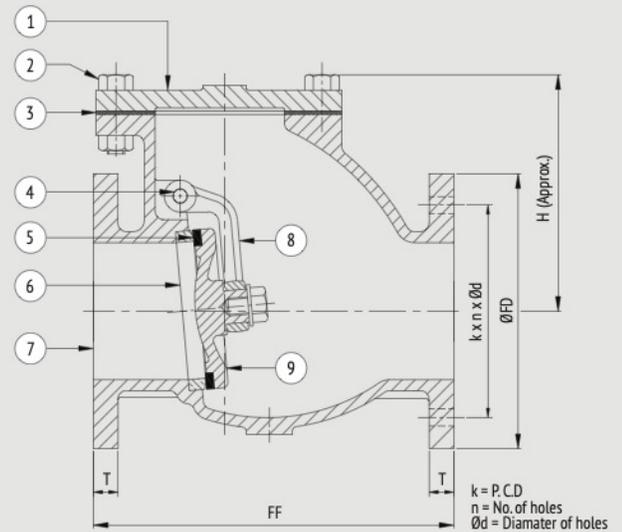
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Cover	1	Cast Iron	IS 210 Gr.FG200
2	Bolts & Nuts	To Suit	Carbon Steel	IS 1363 (Part 1) / IS 1363 (Part 3)
3	Gasket	1	Rubber	IS 638 Type B
4	Hinge Pin	1	H.T.Brass	IS 320 Gr.HT2
5	Disc Ring	1	Leaded Tin Bronze / N. Rubber	IS 318 Gr.LTB2 / -
6	Body Seat Ring	1	Leaded Tin Bronze	IS 318 Gr.LTB2
7	Body	1	Cast Iron	IS 210 Gr.FG200
8	Hinge	1	Cast Iron	IS 210 Gr.FG200
9	Disc	1	Cast Iron	IS 210 Gr.FG200



Sizes & Dimensions

Size (mm)	FF	H	ØD	T	k	n	Ød
50	203	140	165	16	125	4	19
65	216	165	185	16	145	4	19
80	241	168	200	21	160	4	19
100	292	190	220	22	180	8	19
125	330	230	250	22.5	210	8	19
150	356	230	285	23	240	8	23
200	495	261	340	24.5	295	8	23
250	622	345	395	26	350	12	23
300	698	356	445	27.5	400	12	23

**ATAM**

Cast Iron Reflux (Non-Return) Valve Flanged Ends, PN-1.6

AV-119A

Product Standard	IS-5312 (Part-1)
Pressure / Class Rating	PN-1.6
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG 200)
Product Description	Bolted Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
Seat Facing	Rubber Facing
End Details	Flanged Ends as per IS:1538 PN-1.6 Flat Face (Drilled)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

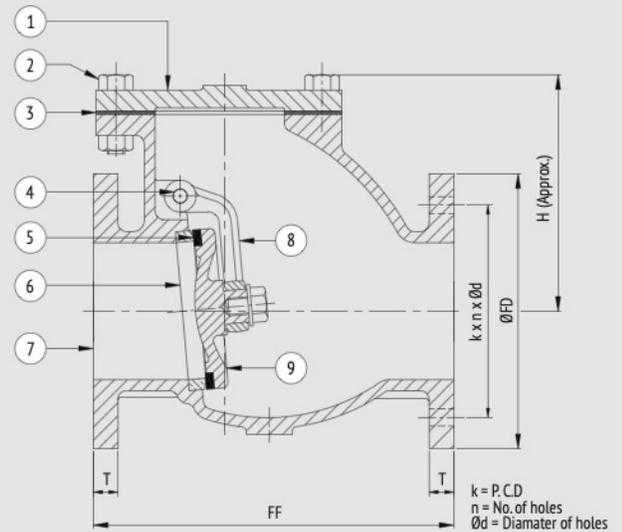
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Cover	1	Cast Iron	IS 210 Gr. FG200
2	Bolts & Nuts	To Suit	Carbon Steel	IS 1363 (Part 1) / IS 1363 (Part 3)
3	Gasket	1	Rubber	IS 638 Type B
4	Hinge Pin	1	H.T. Brass	IS 320 Gr. HT2
5	Disc Ring	1	Leaded Tin Bronze / N. Rubber	IS 318 Gr. LTB2 / -
6	Body Seat Ring	1	Leaded Tin Bronze	IS 318 Gr. LTB2
7	Body	1	Cast Iron	IS 210 Gr. FG200
8	Hinge	1	Cast Iron	IS 210 Gr. FG200
9	Disc	1	Cast Iron	IS 210 Gr. FG200



Sizes & Dimensions

Size (mm)	FF	H	ØD	T	k	n	Ød
50	203	140	165	16	125	4	19
65	216	165	185	16	145	4	19
80	241	168	200	21	160	4	19
100	292	190	220	22	180	8	19
125	330	230	250	22.5	210	8	19
150	356	230	285	23	240	8	23
200	495	261	340	24.5	295	8	23
250	622	345	395	26	350	12	23
300	698	356	445	27.5	400	12	23

**ATAM**

Bronze Gate Valve Yoke Type Screwed Ends, Class-1

AV-120

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-1
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

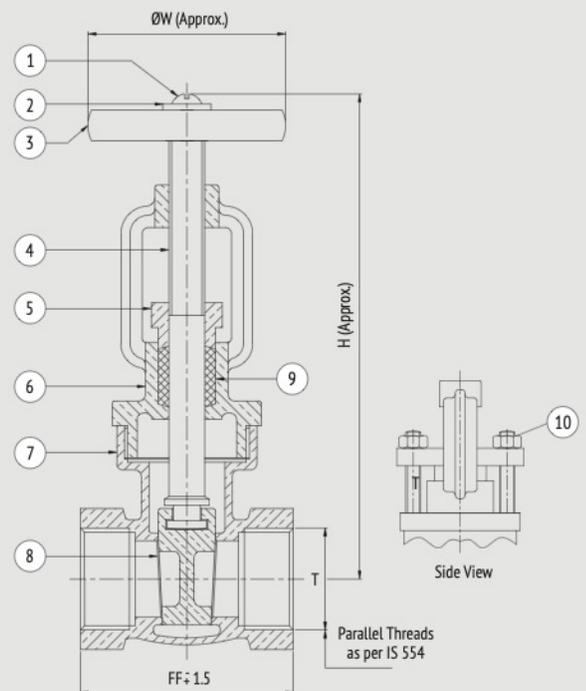


Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Screw	1	Carbon Steel	-
2	Washer	To Suit	Carbon Steel	-
3	Handwheel	1	C.I. / C.S.	IS 210 Gr. FG200
4	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
5	Gland Flange	1	Bronze	IS 318 Gr. LTB2
6	Bonnet	1	Bronze	IS 318 Gr. LTB2
7	Body	1	Bronze	IS 318 Gr. LTB2
8	Wedge	1	Bronze	IS 318 Gr. LTB2
9	Packing	-	Graphited Asbestos	-
10	Studs & Nuts for Gland	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	T
15	60	138	60	1/2"
20	60	147	60	3/4"
25	70	155	70	1"
32	80	185	79	1.1/4"
40	90	225	87	1.1/2"
50	100	235	96	2"
65	105	280	104	2.1/2"
80	125	352	140	3"
100	160	415	183	4"

**ATAM**

Bronze Gate Valve Yoke Type Flanged Ends, Class-1

AV-121

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-1
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Flanged Ends as per IS:778 Class-1 Flat Face (Undrilled)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

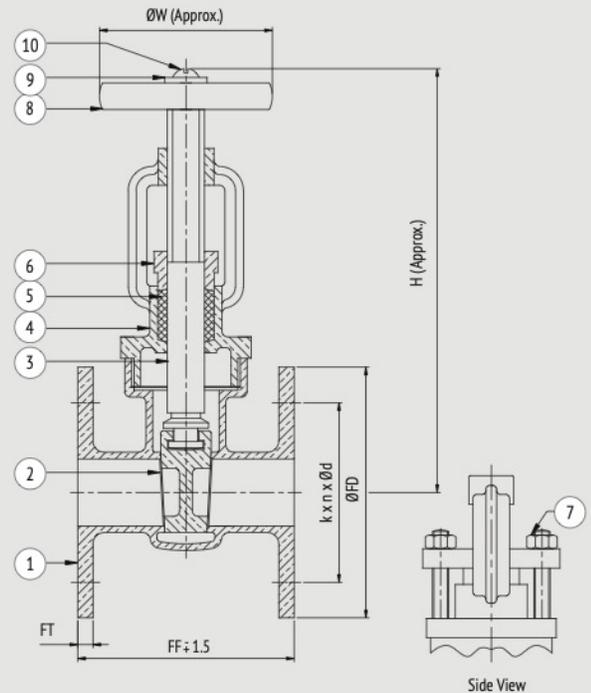
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Wedge	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	-	Graphited Asbestos	-
6	Gland Flange	1	Bronze	IS 318 Gr. LTB2
7	Studs & Nuts for Gland	2 Each	Carbon Steel	-
8	Handwheel	1	C.I./ C.S.	IS 210 Gr. FG200 / -
9	Washer	1	Carbon Steel	-
10	Screw	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	72	138	60	95	6	65	4	14
20	76	147	60	105	6	75	4	14
25	90	155	70	115	8	85	4	14
32	100	185	79	140	8	100	4	18
40	110	225	87	150	9	110	4	18
50	120	235	96	165	11	125	4	18
65	140	280	104	185	13	145	4	18
80	150	352	140	200	13	160	8	18
100	190	415	183	220	16	180	8	18

**ATAM**

Bronze Gate Valve Yoke Type Screwed Ends, Class-2

AV-122

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-2
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

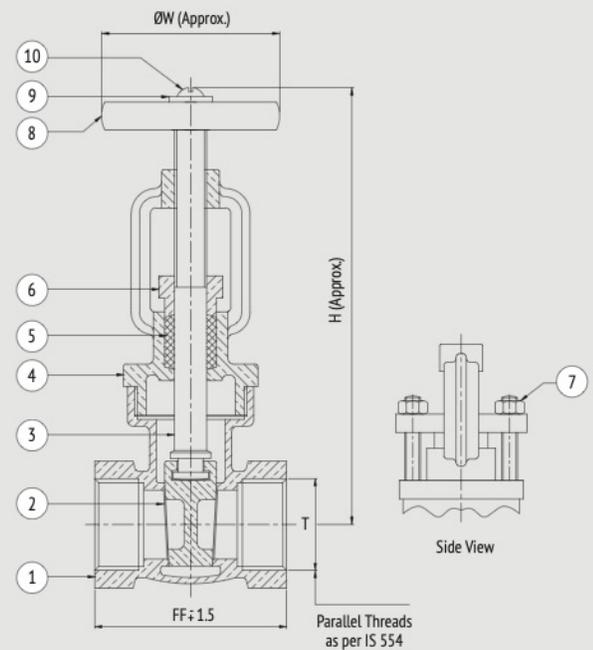
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Wedge	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	-	Graphited Asbestos	-
6	Gland Flange	1	Bronze	IS 318 Gr. LTB2
7	Studs & Nuts for Gland	2 Each	Carbon Steel	-
8	Handwheel	1	C.I./C.S.	IS 210 Gr. FG200 / -
9	Washer	1	Carbon Steel	-
10	Screw	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	T
15	60	138	60	1/2"
20	60	147	60	3/4"
25	70	155	70	1"
32	80	185	79	1.1/4"
40	90	225	87	1.1/2"
50	100	235	96	2"
65	105	280	104	2.1/2"
80	125	352	140	3"
100	160	415	183	4"

**ATAM**

Bronze Gate Valve Yoke Type Flanged Ends, Class-2

AV-123

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-2
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Wedge	Solid Wedge
Trim	Cu-Alloy
End Details	Flanged Ends as per IS:778 Class-2 Flat Face (Undrilled)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

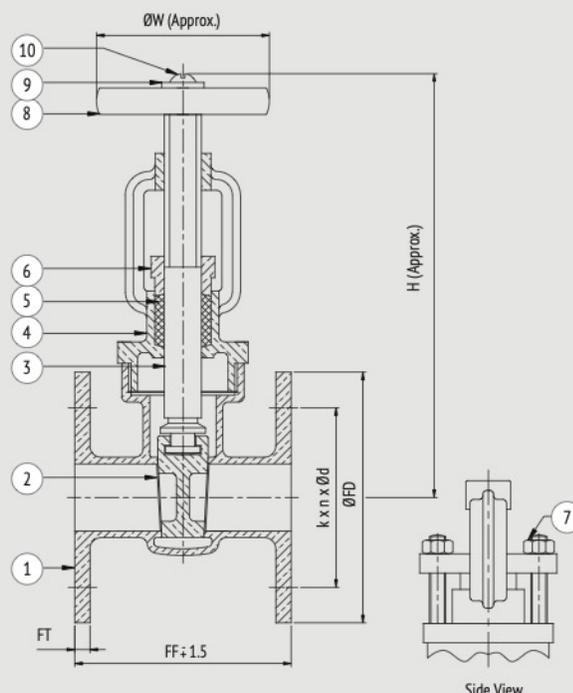
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Wedge	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	-	Graphited Asbestos	-
6	Gland Flange	1	Bronze	IS 318 Gr. LTB2
7	Studs & Nuts for Gland	2 Each	Carbon Steel	-
8	Handwheel	1	C.I./ C.S.	IS 210 Gr. FG200 / -
9	Washer	1	Carbon Steel	-
10	Screw	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	72	138	60	95	6	65	4	14
20	76	147	60	105	6	75	4	14
25	90	155	70	115	8	85	4	14
32	100	185	79	140	8	100	4	18
40	110	225	87	150	9	110	4	18
50	120	235	96	165	11	125	4	18
65	140	280	104	185	13	145	4	18
80	150	352	140	200	13	160	8	18
100	190	415	183	220	16	180	8	18

**ATAM**

Bronze Globe Valve Yoke Type Screwed Ends, Class-1

AV-124

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-1
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

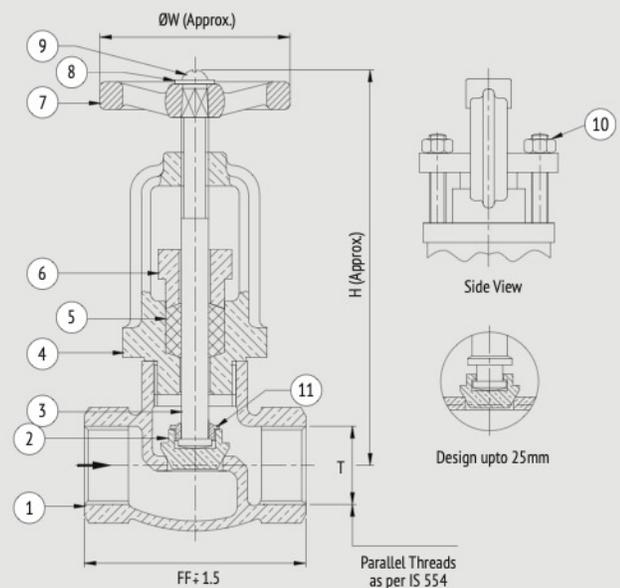


Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Disc	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	-	Graphited Asbestos	-
6	Gland Flange	1	Bronze	IS 318 Gr. LTB2
7	Handwheel	1	C.I. / C.S.	IS 210 Gr. FG200 / -
8	Washer	1	Carbon Steel	-
9	Screw	1	Carbon Steel	-
10	Studs & Nuts	2 Each	Carbon Steel	-
11	Check Nut	1	Bronze	IS 318 Gr. LTB2



Sizes & Dimensions

Size (mm)	FF	H	ØW	T
15	60	112	53	1/2"
20	70	127	58	3/4"
25	80	135	67	1"
32	95	142	79	1.1/4"
40	110	155	87	1.1/2"
50	125	170	98	2"
65	160	190	104	2.1/2"
80	180	210	140	3"
100	216	230	183	4"

**ATAM**

Bronze Globe Valve Yoke Type Flanged Ends, Class-1

AV-125

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-1
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Flanged Ends as per IS:778 Class-1 Flat Face (Undrilled)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

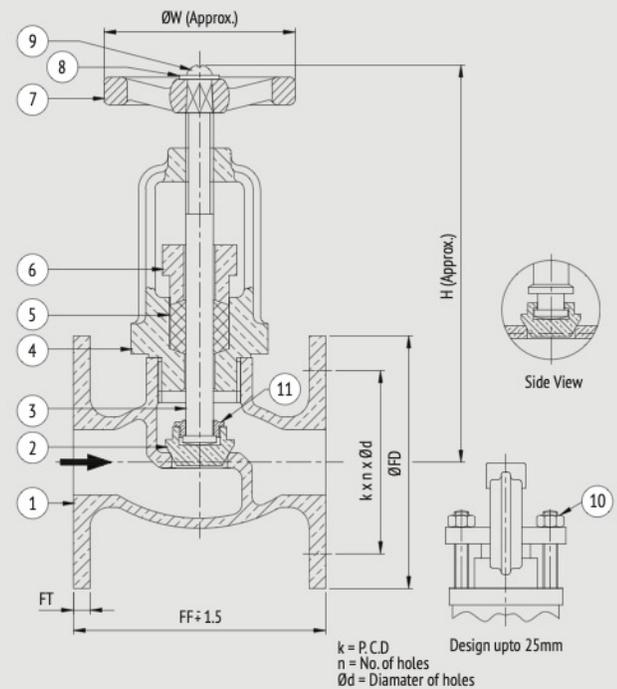
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Disc	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	-	Graphited Asbestos	-
6	Gland Flange	1	Bronze	IS 318 Gr. LTB2
7	Handwheel	1	C.I. / C.S.	IS 210 Gr. FG200 / -
8	Washer	1	Carbon Steel	-
9	Screw	1	Carbon Steel	-
10	Studs & Nuts	2 Each	Carbon Steel	-
11	Check Nut	1	Bronze	IS 318 Gr. LTB2



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	75	112	53	95	6	65	4	14
20	85	127	58	105	6	75	4	14
25	95	130	67	115	8	85	4	14
32	110	142	79	140	8	100	4	18
40	120	155	87	150	9	110	4	18
50	145	170	98	165	11	125	4	18

**ATAM**

Bronze Globe Valve Yoke Type Screwed Ends, Class-2

AV-126

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-2
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

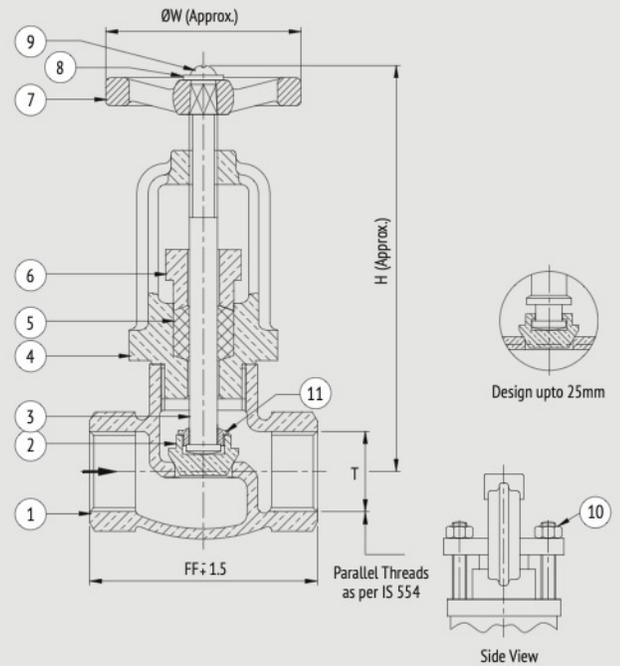


Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Disc	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	-	Graphited Asbestos	-
6	Gland Flange	1	Bronze	IS 318 Gr. LTB2
7	Handwheel	1	C.I. / C.S.	IS 210 Gr. FG200 / -
8	Washer	1	Carbon Steel	-
9	Screw	1	Carbon Steel	-
10	Studs & Nuts	2 Each	Carbon Steel	-
11	Check Nut	1	Bronze	IS 318 Gr. LTB2



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD
15	60	112	53	1/2"
20	70	127	58	3/4"
25	80	130	67	1"
32	95	142	79	1.1/4"
40	110	155	87	1.1/2"
50	125	170	98	2"
65	160	190	104	2.1/2"
80	180	210	140	3"
100	216	230	183	4"

**ATAM**

Bronze Globe Valve Yoke Type Flanged Ends, Class-2

AV-127

Product Standard	IS-778
Testing Standard	IS-778
Pressure / Class Rating	Class-2
Body Material Cum Standard	Bronze (IS 318 Gr. LTB2)
Product Description	Screwed in Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Cu-Alloy
End Details	Flanged Ends as per IS:778 Class-2 Flat Face (Undrilled)
Test Pressure	Body: 2.4 Mpa (Hyd.), Seat: 1.6 Mpa (Hyd.)
Max. Working Temperature	45°C



Suitable for

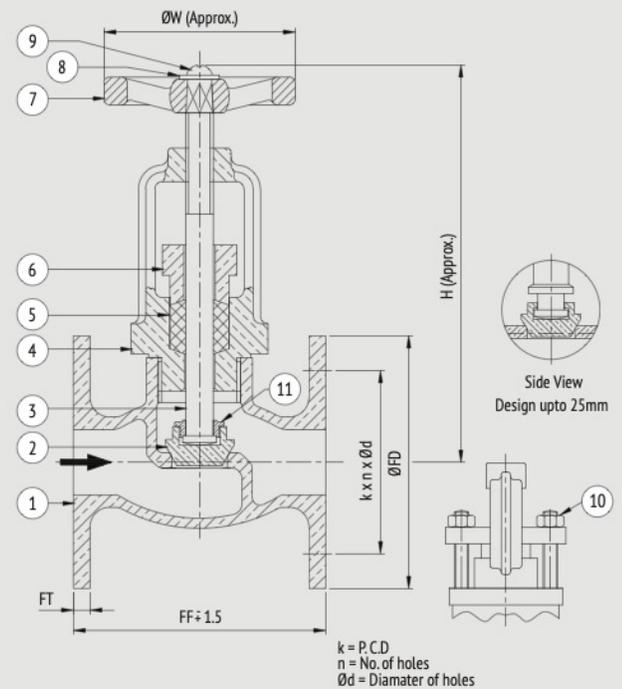
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IS 318 Gr. LTB2
2	Disc	1	Bronze	IS 318 Gr. LTB2
3	Stem	1	H.T. Brass	IS 6912 Gr. FLB / IS 320
4	Bonnet	1	Bronze	IS 318 Gr. LTB2
5	Packing	-	Hemp & Jute Asbestos	-
6	Gland Flange	1	Bronze	IS 318 Gr. LTB2
7	Handwheel	1	C.I. / C.S.	IS 210 Gr. FG200 / -
8	Washer	1	Carbon Steel	-
9	Screw	1	Carbon Steel	-
10	Studs & Nuts	2 Each	Carbon Steel	-
11	Check Nut	1	Bronze	IS 318 Gr. LTB2



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	75	112	53	95	6	65	4	14
20	85	127	58	105	6	75	4	14
25	95	130	67	115	8	85	4	14
32	110	142	79	140	8	100	4	18
40	120	155	87	150	9	110	4	18
50	145	170	98	165	11	125	4	18

**ATAM**

Cast Iron Kinetic Type Air Release Valve Flanged Ends

AV-128

Product Standard	IS-14845
Pressure / Class Rating	PN-1.0
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG 200)
Product Description	Double Ball Type
End Details	Flanged Ends as per IS:1538 PN-1.0 Flat Face (Drilled)
Test Pressure	Body: 1.5 Mpa (Hyd.), Seat: 1.0 Mpa (Hyd.)



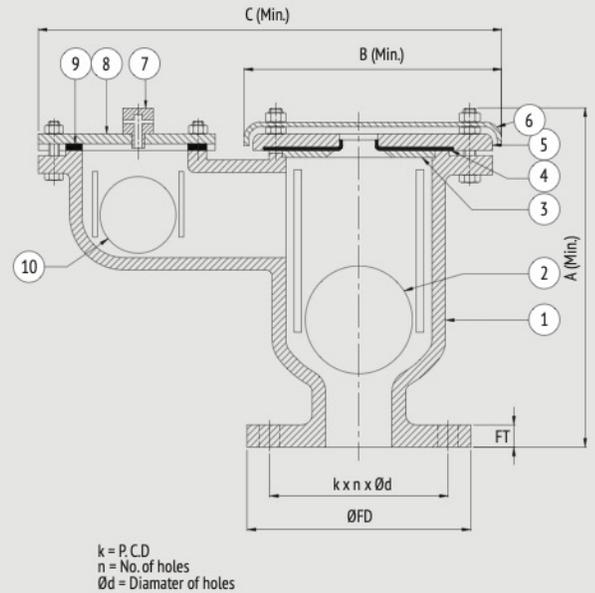
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IS 210 Gr.FG200
2	LP Float	1	Rubber Coated Wood	-
3	Joint Support Ring	1	Cast Iron	IS 210 Gr.FG200
4	LP Seat Ring	1	Neoprene Rubber	-
5	LP Cover	1	Cast Iron	IS 210 Gr.FG200
6	Splash Cover	1	Cast Iron	IS 210 Gr.FG200
7	HP Orifice	1	Bronze	IS 318 Gr.LTB2
8	HP Cover	1	Cast Iron	IS 210 Gr.FG200
9	Gasket	-	Rubber	IS 638 Type B
10	HP Float	1	Rubber Coated Wood / S.S.	-



Sizes & Dimensions

Size (mm)	A	B	C	ØFD	FT	k	n	Ød
15	280	211	352	165	16	125	4	19
20	305	236	373	200	21	160	4	19
25	360	280	424	220	22	180	8	19
32	487	450	674	285	23	240	8	23
40	700	506	739	340	24.5	295	8	23

**ATAM**

Cast Iron Dual Plate Check Valve Class-125

AV-131

Product Standard	API-594
Testing Standard	API-598
Pressure / Class Rating	Class-125
Body Material Cum Standard	Cast Iron (BS EN 1561 Gr.GIL 220)
Product Description	Wafer Type, Spring Loaded
Type of Seat	Resilient Seated
Trim	Spring: SS 316, Disc - Ductile Iron, Seat: EPDM / Nitrile
End Details	Suitable for clamping between Flanges as per ASME / ANSI B 16.1, Class-125
Test Pressure	Body: 20.7 Bar (Hyd.), Seat: 15.2 Bar (Hyd.)



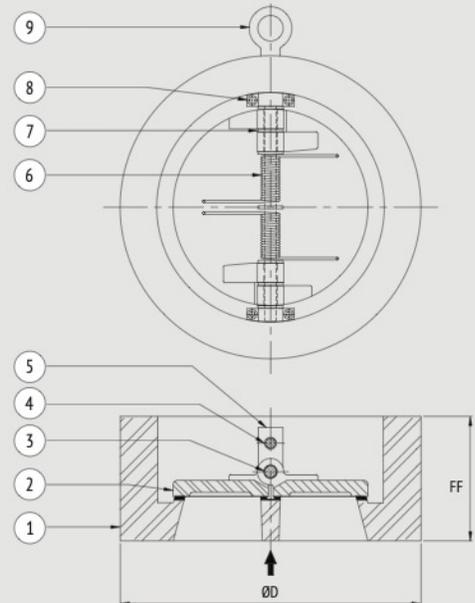
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	BS EN 1561 Gr. GIL 220
2	Disc	2	Ductile Iron	EN 1563 Gr.GIL 400 15
3	Disc Holding Pin	1	Stainless Steel	AISI 410
4	Stopper Pin	1	Stainless Steel	AISI 410
5	Disc Holding Plate	2	Cast Iron	BS EN 1561 Gr. GIL 220
6	Spring	2	Stainless Steel	AISI 316
7	Bush	2	Stainless Steel	AISI 316
8	L-Key Screw	4	Carbon Steel	-
9	Eye Bolt	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	ØD
50	54	101
65	60	119
80	67	130
100	67	170
125	83	191
150	95	214
200	127	273

**ATAM**

Cast Iron Y-Type Strainer Flanged Ends

AV-133

Body Material Cum Standard	Cast Iron (BS EN 1561 Gr. GJL 220)
Product Description	Y-Type, Bolted Cover
Trim	SS (Type 304) Screen Having 1mm Diameter Perforations
End Details	Flanged Ends as per BS-10 Table-D Flat Face (Drilled)
Test Pressure	Body: 15 kg/cm ² (Hyd.)
Max. Working Pressure	10 kg/cm ² (Steam)
Max. Working Temperature	200°C



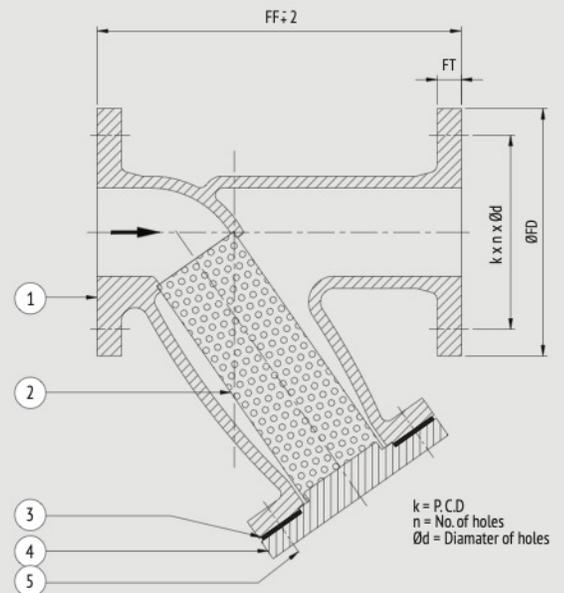
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	BS EN 1561 Gr. GJL 220
2	Strainer	1	Stainless Steel	AISI 304
3	Gasket	1	C.A.F.	-
4	Cover	1	Cast Iron	BS EN 1561 Gr. GJL 220
5	Studs & Nuts	To Suit	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	ØFD	FT	k	n	Ød
40	173	133.4	14	98.4	4	14.3
50	202	152.4	16	114.3	4	17.5
65	212	165.1	16	127	4	17.5
80	260	184.2	21	146.1	4	17.5
100	330	215.9	22	184.2	8	17.5
125	385	254	22.5	209.6	8	17.5
150	385	279.4	23	235	8	22.3
200	460	336.6	24	292.1	8	22.3
250	550	406.4	26	355.6	12	22.3
300	595	457.2	27.5	406.6	12	25.4

**ATAM**

Cast Iron Y-Type Strainer Screwed Ends

AV-134

Body Material Cum Standard	Cast Iron (BS EN 1561 Gr. GJL 220)
Product Description	Y-Type, Bolted Cover
Trim	SS (Type 304) Screen Having 1mm Diameter Perforations
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 15 kg/cm ² (Hyd.)
Max. Working Pressure	10 kg/cm ² (Steam)
Max. Working Temperature	200°C



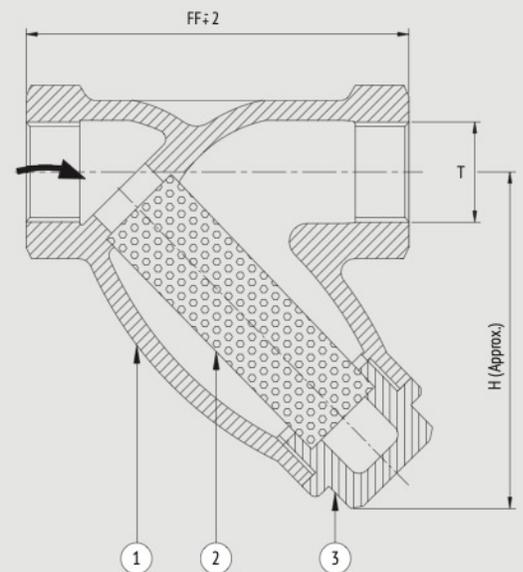
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	EN 1561 Gr. GJL 200
2	Screen	1	Stainless Steel	Type 304
3	Cover	1	Cast Iron	EN 1561 Gr. GJL 200



Sizes & Dimensions

Size (mm)	FF	T	H
15	75	1/2"	63
20	94	3/4"	75
25	109	1"	88
32	124	1.1/4"	93
40	182	1.1/2"	145
50	222	2"	190



FEBI Ball Valves



Bronze Ball Valve Two Piece Design Screwed Ends, PN-20

FV-501

Pressure / Class Rating	PN-20
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.), Seat: 250 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)



Suitable for

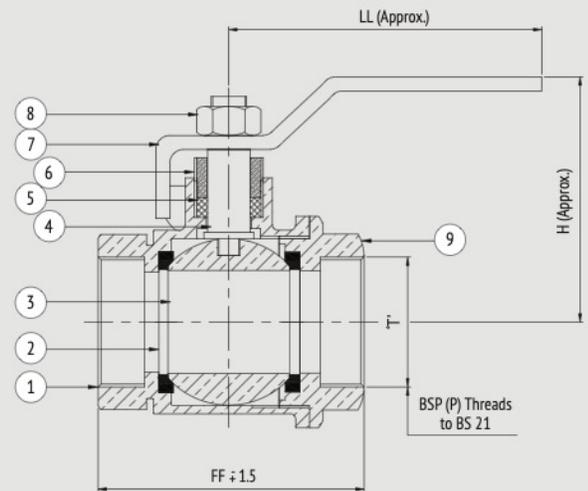
- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Gun Metal / Bronze	BSEN 1982 Gr. CC491K
2	Seat	1	PTFE	-
3	Ball	1	Stainless Steel	AISI 304
4	Stem	1	Stainless Steel	AISI 304
5	Packing	1	PTFE	-
6	Gland	1	Gun Metal / Bronze	BSEN 1982 Gr. CC491K
7	Lever	1	Carbon Steel	PVC Coated
8	Lever Nut	1	Stainless Steel	AISI 410
9	Body Connector	1	Gun Metal	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF ±1.5	H	LL	T
15	60	65	100	1/2"
20	68	64	115	3/4"
25	74	74	130	1"
32	86	87	150	1.1/4"
40	98	105	175	1.1/2"
50	119	110	205	2"
65	146	160	325	2.1/2"
80	158	190	380	3"
100	202	205	380	4"



Bronze Ball Valve Two Piece Design Flanged Ends, PN-16

FV-502

Pressure / Class Rating	PN-16
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Flanges as per BS-10 Table-D (Undrilled)
Test Pressure	Body: 348 Psig (Hyd.), Seat: 232 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)



Suitable for

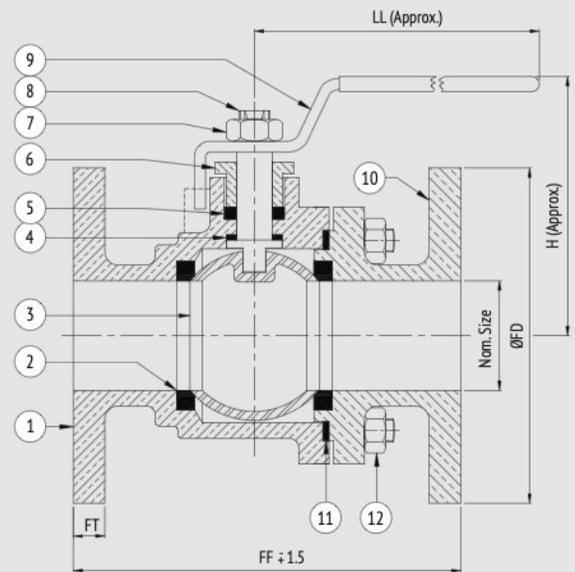
- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	BSEN 1982 Gr. CC491K
2	Seat	2	PTFE	-
3	Ball	1	Stainless Steel	AISI 304
4	Stem Seal	1	PTFE	-
5	Packing Ring	1	PTFE	-
6	Gland Nut	1	Bronze	BSEN 1982 Gr. CC491K
7	Nut	1	Carbon Steel	-
8	Stem	1	Stainless Steel	AISI 410 / 304
9	Lever	1	Carbon Steel	PVC Coated
10	Body Connector	1	Bronze	BSEN 1982 Gr. CC491K
11	Gasket	1	PTFE	-
12	Studs / Bolts & Nuts	To Suit	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	LL	H	ØFD	FT
15	76	110	60	95.3	6.4
20	90	130	60	101.6	6.4
25	102	130	70	114.3	7.9
32	117	150	92	120.7	7.9
40	130	166	107	133.4	9.5
50	159	215	117	152.4	9.5
65	170	285	120	165.1	11.1
80	185	323	135	184.2	12.7
100	219	370	165	215.9	15.9
125	266	400	200	254	17.5



Cast Iron Ball Valve Two Piece Design Screwed Ends, Class-125

FV-503

Product Standard	IS-9890
Pressure / Class Rating	Class-125
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG 220)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Screwed Female Parallel Threads (IS:554)
Test Pressure	Body: 20.7 Bar (Hyd.), Seat: 15.2 Bar (Hyd.)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

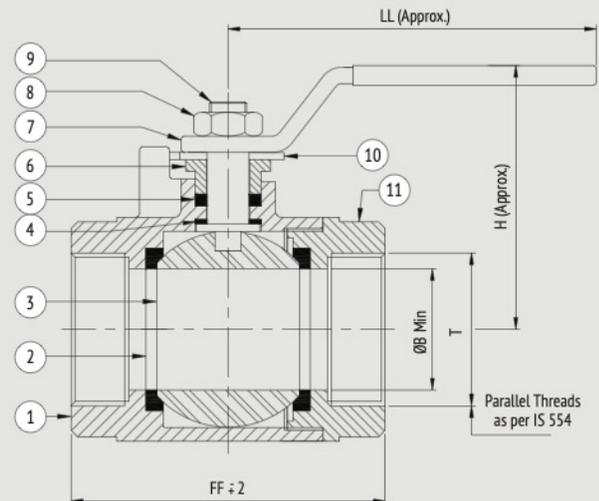


Suitable for steam service with specialized PTFE.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IS 210 Gr.FG220
2	Seat	2	PTFE	-
3	Ball	1	Stainless Steel	-
4	Stem Seal	1	PTFE	-
5	Packing	-	PTFE	-
6	Gland	1	Stainless Steel	IS 6603 Gr. 12 Cr. 12
7	Lever	1	Carbon Steel	with Plastic Sleeve
8	Lever Nut	1	Carbon Steel	-
9	Stem	1	Stainless Steel	IS 6603 Gr. 12 Cr. 12
10	Stopper	1	Carbon Steel	-
11	Body Connector	1	Cast Iron	IS 210 Gr. FG220



Sizes & Dimensions

Size (mm)	FF	øB	H	LL	T
15	72	12.5	80	115	1/2"
20	79	18	87	135	3/4"
25	97	23	92	165	1"
32	106	30.5	98	180	1.1/4"
40	119	37	103	205	1.1/2"
50	136	50	110	205	2"
65	152	62.5	130	325	2.1/2"
80	189	75.5	140	325	3"
100	219	98	170	370	4"



Cast Iron Ball Valve Three Piece Design Flanged Ends

FV-504

Product Standard	IS-9890
Body Material Cum Standard	Cast Iron (IS 210 Gr. FG 220)
Port Opening	Full Bore
Product Description	Three Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Flanges as per BS-10 Table-F (Undrilled)
Test Pressure	Body: 20.7 Bar (Hyd.), Seat: 15.2 Bar (Hyd.)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

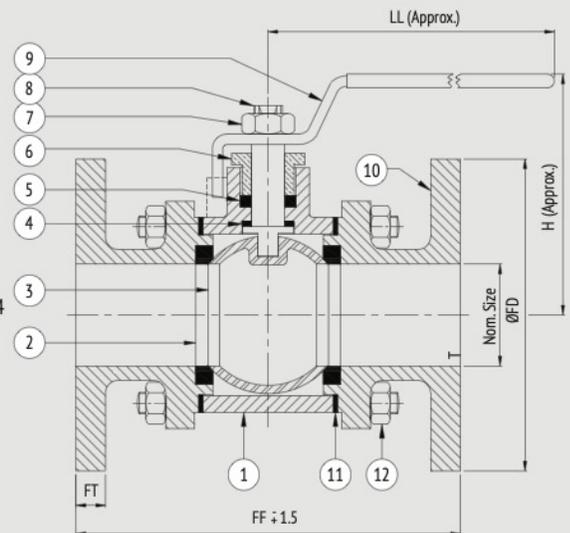


Suitable for steam service with specialized PTFE.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IS 210 Gr.FG220
2	Seat	2	PTFE	-
3	Ball	1	Stainless Steel	ASTM A351 Gr.CF8
4	Stem Seal	1	PTFE	-
5	Packing Ring	-	PTFE	-
6	Gland Nut	1	Gun Metal	BS EN 1982 Gr. CC 491K
7	Nut	1	Carbon Steel	-
8	Stem	1	Stainless Steel	ASTM A276 Type 410 / ASTM A276 Type 304
9	Lever	1	Carbon Steel	-
10	Body Connector	1	Cast Iron	IS 210 Gr.FG220
11	Gasket	1	PTFE	-
12	Studs / Bolts & Nuts	To Suit	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	LL	H	ØFD	FT
15	129	120	70	95.3	12.7
20	129	120	70	101.6	12.7
25	151	125	82	120.7	12.7
32	161	155	82	133.4	15.9
40	173	172	105	139.7	15.9
50	207	216	117	165.1	19.1
65	218	321	140	184.2	19.1
80	247	321	147	203.2	19.1
100	283	368	166	228.6	22.3
150	394	570	-	304.8	25.4
200	460	740	-	368.3	28.6



Forged Brass Ball Valve Two Piece Design Screwed Ends, PN-25

FV-505

Product Standard	BS EN 17292
Pressure / Class Rating	PN-25
Body Material Cum Standard	Forged Brass (IS 6912 Gr. FLB)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Cu-Alloy, PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 550 Psig (Hyd.), Seat: 400 Psig (Hyd.), Seat: 100 Psig (Air)



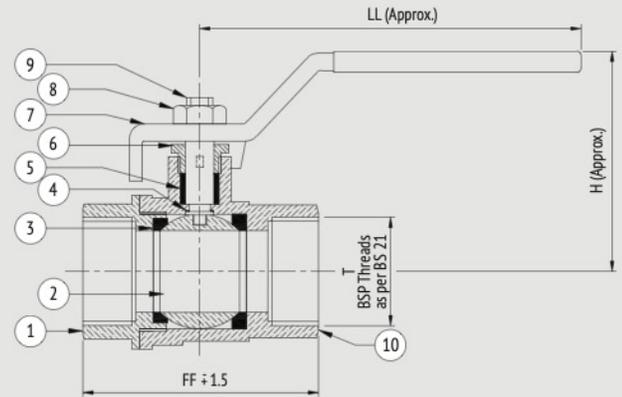
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body Connector	1	Forged Brass	IS 6912 Gr. FLB
2	Ball	1	Forged Brass	IS 6912 Gr. FLB
3	Seat	2	PTFE	-
4	Gasket	1	PTFE	-
5	Packing Ring	-	PTFE	-
6	Gland	1	Brass	IS 6912 Gr. FLB / FHTB1
7	Lever	1	Carbon Steel	PVC Coated
8	Locking Nut	1	Brass	IS 6912 Gr. FLB / FHTB1
9	Stem	1	Brass	IS 6912 Gr. FLB / FHTB1
10	Body	1	Forged Brass	IS 6912 Gr. FLB



Sizes & Dimensions

Size (mm)	FF	LL	H	T
15	50	96	48	1/2"
20	58	102	52	3/4"
25	63	102	54	1"
32	80	168	79	1.1/4"
40	90	117	82	1.1/2"
50	103	157	83	2"
65	135	217	125	2.1/2"
80	150	225	125	3"
100	180	225	150	4"



Bronze Ball Valve with Strainer One Piece Design Screwed Ends, PN-20

FV-506

Pressure / Class Rating	PN-20
Body Material Cum Standard	Bronze (BS EN 1982 Gr. CC491K)
Port Opening	Full Bore
Product Description	One Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Inlet Screwed Female & Outlet Screwed Male BSP Parallel Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.), Seat: 250 Psig (Hyd.), Seat: 100 Psig (Air)



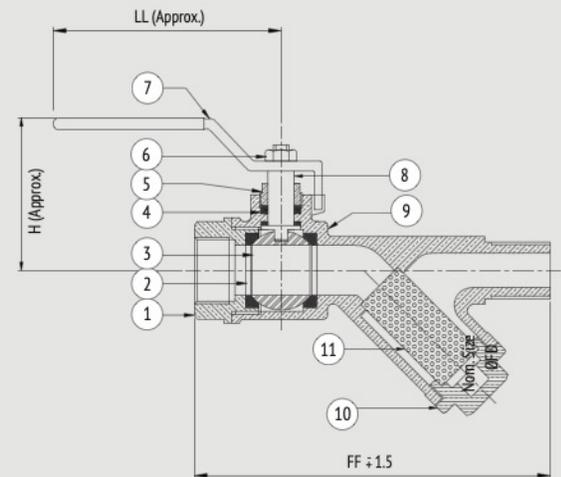
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body Connector	1	Bronze	BSEN 1982 Gr. CC491K
2	Seat	2	PTFE	-
3	Ball	1	Stainless Steel	AISI 304
4	Gland Packing Ring	-	PTFE	-
5	Gland	1	Bronze	BSEN 1982 Gr. CC491K
6	Lever Nut	1	Brass / Carbon Steel	-
7	Lever	1	Steel	with PVC Sleeve
8	Stem	1	Stainless Steel	AISI 304
9	Body	1	Bronze	BSEN 1982 Gr. CC491K
10	Screen	1	Stainless Steel	Type 304
11	Plug	1	Bronze	BSEN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	LL	H
15	131	94	60
20	144	130	67
25	194	137	72
32	198	152	72
40	214	170	87
50	248	195	105



Investment Casting Stainless Steel (CF8) Ball Valve Two Piece Design Screwed Ends

FV-507

Product Standard	BS EN 17292
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21), Socket Welded Ends as per ASME B16.11
Test Pressure	Body: 2000 Psig (Hyd.), Seat: 1000 Psig (Hyd.), Seat: 100 Psig (Air)
Max. Working Pressure	150 Psig (Steam)



Suitable for

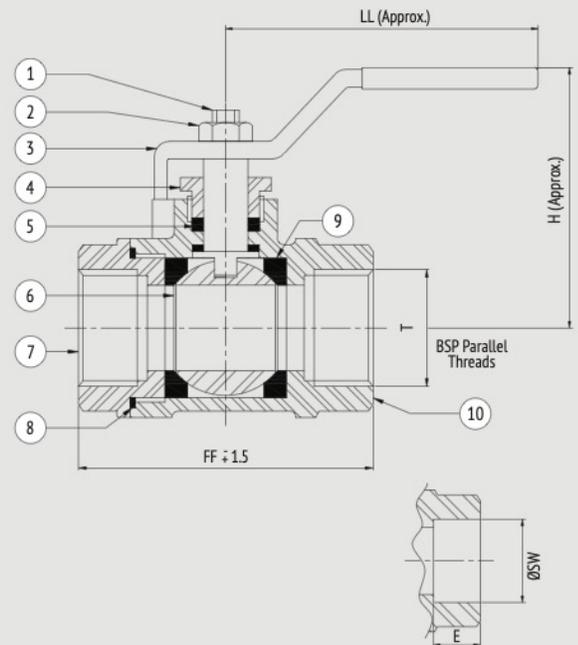
- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Stem	1	Stainless Steel	AISI 304
2	Locking Nut	1	Stainless Steel	AISI 304
3	Lever	1	Stainless Steel Sheet	PVC Coated
4	Gland	1	Stainless Steel	AISI 304
5	Packing Ring	-	PTFE	-
6	Ball	1	C.S.S.	ASTM A351 Gr. CF8
7	Body Connector	1	C.S.S.	ASTM A351 Gr. CF8
8	Gasket	1	PTFE	-
9	Seat	2	PTFE	-
10	Body	1	C.S.S.	ASTM A351 Gr. CF8



Sizes & Dimensions

Size (mm)	FF	LL	H	T	E	ØSW
8	60	100	50	1/4"	9.5	14.6 / 14.2
10	60	100	50	3/8"	9.5	18.0 / 17.6
15	62	125	50	1/2"	9.5	22.2 / 21.8
20	75	125	55	3/4"	12.5	27.6 / 27.6
25	85	150	60	1"	12.5	34.3 / 33.9
32	95	170	75	1.1/4"	12.5	43.1 / 42.7
40	105	220	95	1.1/2"	12.5	49.2 / 48.8
50	125	260	100	2"	16.0	61.7 / 61.2



Investment Casting Stainless Steel (CF8M) Ball Valve Two Piece Design Screwed Ends

FV-508

Product Standard	BS EN 17292
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8M)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 316), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21), Socket Welded Ends as per ASME B16.11
Test Pressure	Body: 2000 Psig (Hyd.), Seat: 1000 Psig (Hyd.), Seat: 100 Psig (Air)
Max. Working Pressure	150 Psig (Steam)



Suitable for

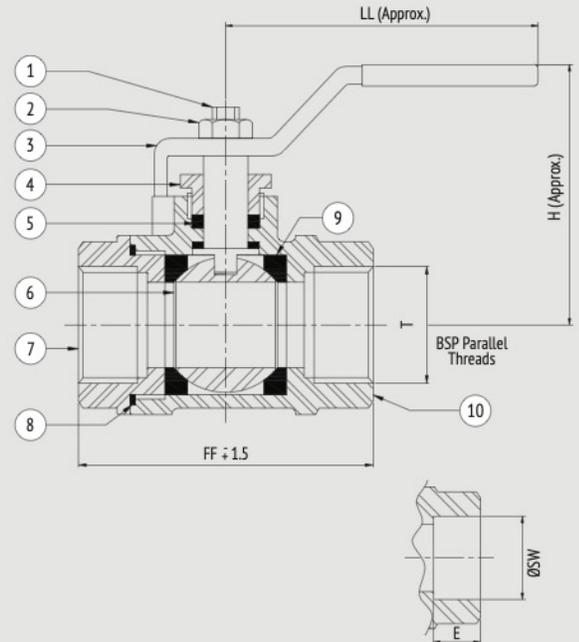
- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Stem	1	Stainless Steel	AISI 316
2	Locking Nut	1	Stainless Steel	AISI 316
3	Lever	1	Stainless Steel Sheet	PVC Coated
4	Gland	1	Stainless Steel	AISI 316
5	Packing Ring	-	PTFE	-
6	Ball	1	C.S.S.	ASTM A351 Gr. CF8M
7	Body Connector	1	C.S.S.	ASTM A351 Gr. CF8M
8	Gasket	1	PTFE	-
9	Seat	2	PTFE	-
10	Body	1	C.S.S.	ASTM A351 Gr. CF8M



Sizes & Dimensions

Size (mm)	FF	LL	H	T	E	ØSW
8	60	100	50	1/4"	9.5	14.6 / 14.2
10	60	100	50	3/8"	9.5	18.0 / 17.6
15	62	125	50	1/2"	9.5	22.2 / 21.8
20	75	125	55	3/4"	12.5	27.6 / 27.6
25	85	150	60	1"	12.5	34.3 / 33.9
32	95	170	75	1.1/4"	12.5	43.1 / 42.7
40	105	220	95	1.1/2"	12.5	49.2 / 48.8
50	125	260	100	2"	16.0	61.7 / 61.2

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	Class-150
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8M)
Port Opening	Full Bore
Product Description	Three Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 316), PTFE Seats
End Details	Flanged Ends as per ASME B16.5 (Class-150) Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)
Application Medium	Nitric Acid, Acetic Acid

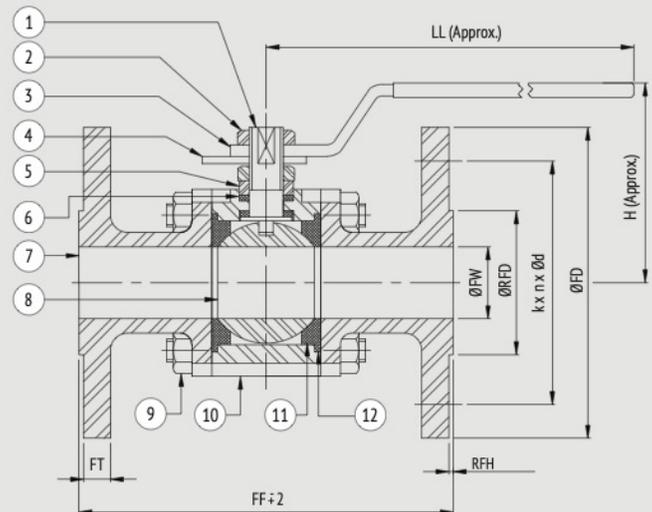


- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.

HSN Code - 84818030

S.No	Description	No.	Material	Specifications
1	Stem	1	Stainless Steel	ASTM A 276 Type 316
2	Nut	1	Stainless Steel	ASTM A 276 Type 316
3	Lever (with Plastic Sleeve)	1	Carbon Steel	-
4	Stopper	1	Carbon Steel	-
5	Gland	1	Stainless Steel	ASTM A 276 Type 316
6	Packing Ring	-	PTFE	-
7	Body Connector	2	Cast Stainless Steel	ASTM A 351 Gr. CF8M
8	Ball	1	Stainless Steel	ASTM A 351 Gr. CF8M
9	Stud / Bolts & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7/B8 ASTM A 194 Gr. 2H/8
10	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8M
11	Seat	2	PTFE	-
12	Gasket	2	PTFE	-



k = P.C.D
n = No. of holes
Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	ØD	LL	H
15	108	8	11	34.9	2	90	60.3	4	5/8"	167	55
20	117	8.9	17	42.9	2	100	69.9	4	5/8"	167	60
25	127	9.6	23	50.8	2	110	79.4	4	5/8"	180	72
40	165	12.7	37	73	2	125	98.4	4	5/8"	206	90
50	178	14.3	49	92.1	2	150	120.7	4	3/4"	230	100
65	190	15.9	62	104.8	2	180	139.7	4	3/4"	400	155
80	203	17.5	74	127	2	190	152.4	4	3/4"	400	175
100	229	22.3	98	157.2	2	230	190.5	8	3/4"	450	195

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	Class-150
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Port Opening	Full Bore
Product Description	Three Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Flanged Ends as per ASME B16.5 (Class-150) Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)
Application Medium	Nitric Acid, Acetic Acid

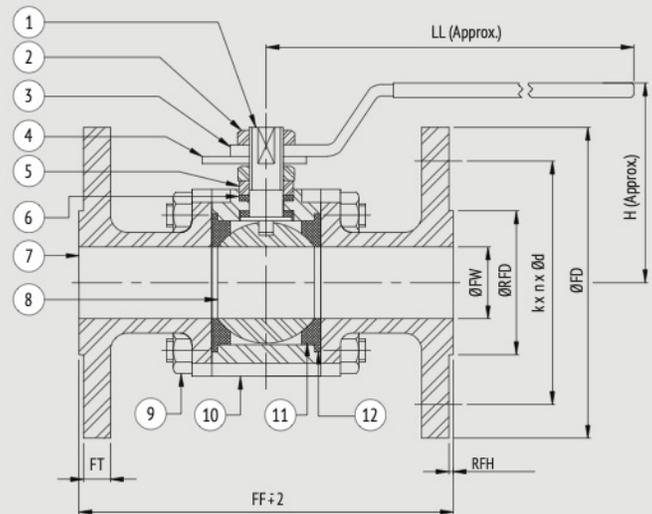


- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.

HSN Code - 84818030

S.No	Description	No.	Material	Specifications
1	Stem	1	Stainless Steel	ASTM A 276 Type 304
2	Nut	1	Stainless Steel	ASTM A 276 Type 304
3	Lever (with Plastic Sleeve)	1	Carbon Steel	-
4	Stopper	1	Carbon Steel	-
5	Gland	1	Stainless Steel	ASTM A 276 Type 304
6	Packing Ring	-	PTFE	-
7	Body Connector	2	Cast Stainless Steel	ASTM A 351 Gr. CF8
8	Ball	1	Stainless Steel	ASTM A 351 Gr. CF8
9	Stud / Bolts & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7/B8 ASTM A 194 Gr. 2H/8
10	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
11	Seat	2	PTFE	-
12	Gasket	2	PTFE	-



k = P.C.D
n = No. of holes
Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	ØD	LL	H
15	108	8	11	34.9	2	90	60.3	4	5/8"	167	55
20	117	8.9	17	42.9	2	100	69.9	4	5/8"	167	60
25	127	9.6	23	50.8	2	110	79.4	4	5/8"	180	72
40	165	12.7	37	73	2	125	98.4	4	5/8"	206	90
50	178	14.3	49	92.1	2	150	120.7	4	3/4"	230	100
65	190	15.9	62	104.8	2	180	139.7	4	3/4"	400	155
80	203	17.5	74	127	2	190	152.4	4	3/4"	400	175
100	229	22.3	98	157.2	2	230	190.5	8	3/4"	450	195



Investment Casting Stainless Steel (CF8) Ball Valve One Piece Design, Screwed Ends

FV-511

Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Port Opening	Reduced Bore
Product Description	One Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	500 Psig (Hyd)
Application Medium	Nitric Acid, Acetic Acid

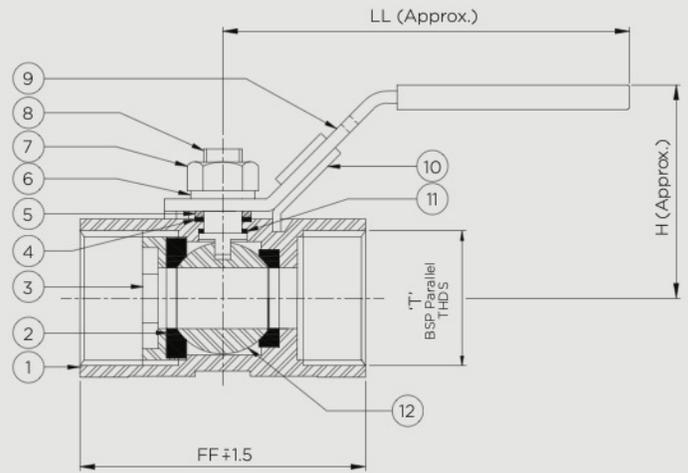


- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

Suitable for steam service with specialized PTFE.

HSN Code - 84818030

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	AISI A 351 Gr. CF8
2	Seat	2	PTFE	-
3	Seat Retainer	1	Cast Stainless Steel	AISI A 351 Gr. CF8
4	Packing Ring	1	PTFE	-
5	Gland	1	Stainless Steel	ASTM A 276 Type 304
6	Washer	1	Stainless Steel	AISI 304
7,8	Nut, Stem	1	Stainless Steel	ASTM A 276 Type 304
9	Lever	1	Stainless Steel	PVC Coated
10	Locking Device	1	Stainless Steel	AISI 304
11	Stem Seal	1	PTFE	-
12	Ball	1	Cast Stainless Steel	AISI A 351 Gr. CF8



Sizes & Dimensions

Size (mm)	FF	LL	H	T
15	57	100	45	1/2"
20	59	110	50	3/4"
25	71	135	55	1"
32	78	135	62	1.1/4"
40	83	160	65	1.1/2"
50	100	160	76	2



Investment Casting Stainless Steel (CF8M) Ball Valve One Piece Design, Screwed Ends

FV-512

Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8M)
Port Opening	Reduced Bore
Product Description	One Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 316), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	500 Psig (Hyd)
Application Medium	Nitric Acid, Acetic Acid



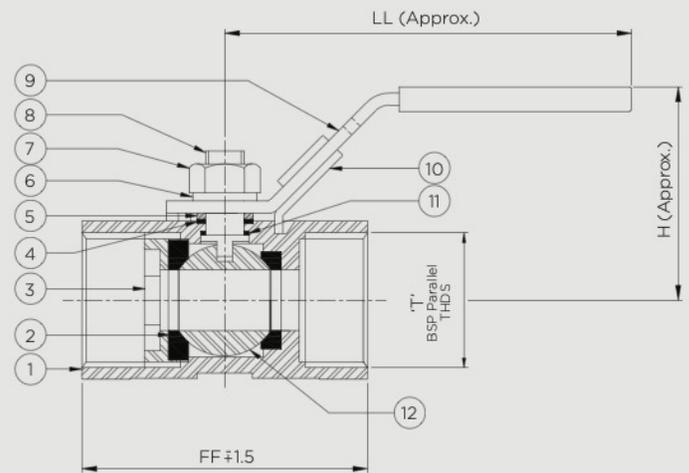
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.

HSN Code - 84818030

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	AISI A 351 Gr. CF8M
2	Seat	2	PTFE	-
3	Seat Retainer	1	Cast Stainless Steel	AISI A 351 Gr. CF8M
4	Packing Ring	1	PTFE	-
5	Gland	1	Stainless Steel	ASTM A 276 Type 316
6	Washer	1	Stainless Steel	AISI 316
7,8	Nut, Stem	1	Stainless Steel	ASTM A 276 Type 316
9	Lever	1	Stainless Steel	PVC Coated
10	Locking Device	1	Stainless Steel	AISI 316
11	Stem Seal	1	PTFE	-
12	Ball	1	Cast Stainless Steel	AISI A 351 Gr. CF8M



Sizes & Dimensions

Size (mm)	FF	LL	H	T
15	57	100	45	1/2"
20	59	110	50	3/4"
25	71	135	55	1"
32	78	135	62	1.1/4"
40	83	160	65	1.1/2"
50	100	160	76	2

Product Standard	BS EN 17292
Pressure / Class Rating	Class-800
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Port Opening	Full Bore
Product Description	Three Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21), Socket Welded Ends as per ASME B16.11
Test Pressure	Body: 178 Bar (Hyd.), Seat: 76 Bar (Hyd.), Seat: 7 Bar (Air)
Application Medium	Nitric Acid, Acetic Acid



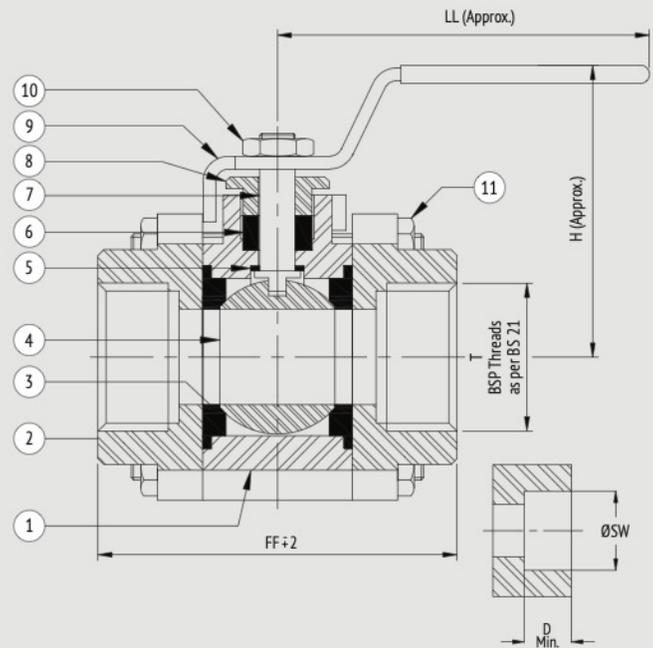
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.
 Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.
 Other screwed end specifications can be provided on request.

HSN Code - 84818030

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Pipe Connector	2	Cast Stainless Steel	ASTM A 351 Gr. CF8
3	Body Seal	2	PTFE	-
4	Ball	1	Stainless Steel	ASTM A 351 Gr. CF8 ASTM A 276 Type 304
5	Stem Seal	1	PTFE	-
6	Packing	1	PTFE	-
7	Stem	1	Stainless Steel	ASTM A 276 Type 304
8	Gland Nut	1	Stainless Steel	ASTM A 276 Type 304
9	Lever (with Plastic Sleeve)	1	Stainless Steel	-
10	Lever Nut	1	Stainless Steel	Type 304
11	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7/B8 ASTM A 194 Gr. 2H/8



Sizes & Dimensions

Size (mm)	FF	LL	H	T	ØSW	D
15	66	104	55	1/2"	21.8 / 22.2	9.5
20	75	104	65	3/4"	27.2 / 27.6	12.5
25	85	135	82	1"	33.9 / 34.3	12.5
32	102	180	85	1.1/4"	42.7 / 43.1	12.5
40	115	180	94	1.1/2"	48.8 / 49.2	12.5
50	130	216	115	2"	61.2 / 61.7	16



Investment Casting Stainless Steel (CF8M) Ball Valve Three Piece Design, Screwed Ends, Class-800

FV-514

Product Standard	BS EN 17292
Pressure / Class Rating	Class-800
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8M)
Port Opening	Full Bore
Product Description	Three Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 316), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21), Socket Welded Ends as per ASME B16.11
Application Medium	Nitric Acid, Acetic Acid



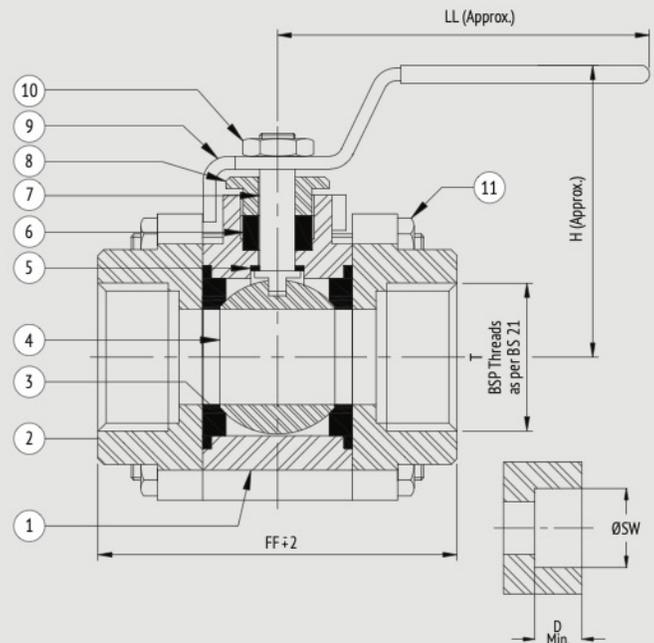
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.
Other screwed end specifications can be provided on request.

HSN Code - 84818030

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8M
2	Pipe Connector	2	Cast Stainless Steel	ASTM A 351 Gr. CF8M
3	Body Seal	2	PTFE	-
4	Ball	1	Stainless Steel	ASTM A 351 Gr. CF8M ASTM A 276 Type 316
5	Stem Seal	1	PTFE	-
6	Packing	1	PTFE	-
7	Stem	1	Stainless Steel	ASTM A 276 Type 316
8	Gland Nut	1	Stainless Steel	ASTM A 276 Type 316
9	Lever (with Plastic Sleeve)	1	Stainless Steel	-
10	Lever Nut	1	Stainless Steel	Type 316
11	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7/B8 ASTM A 194 Gr. 2H/8



Sizes & Dimensions

Size (mm)	FF	LL	H	T	ØSW	D
15	66	104	55	1/2"	21.8 / 22.2	9.5
20	75	104	65	3/4"	27.2 / 27.6	12.5
25	85	135	82	1"	33.9 / 34.3	12.5
32	102	180	85	1.1/4"	42.7 / 43.1	12.5
40	115	180	94	1.1/2"	48.8 / 49.2	12.5
50	130	216	115	2"	61.2 / 61.7	16



Investment Casting Carbon Steel (WCB) Ball Valve Three Piece Design, Screwed Ends, Class-800

FV-515

Product Standard	BS EN 17292
Pressure / Class Rating	Class-800
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Port Opening	Full Bore
Product Description	Three Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21), Socket Welded Ends as per ASME B16.11
Test Pressure	Body: 178 Bar (Hyd.), Seat: 76 Bar (Hyd.), Seat: 7 Bar (Air)



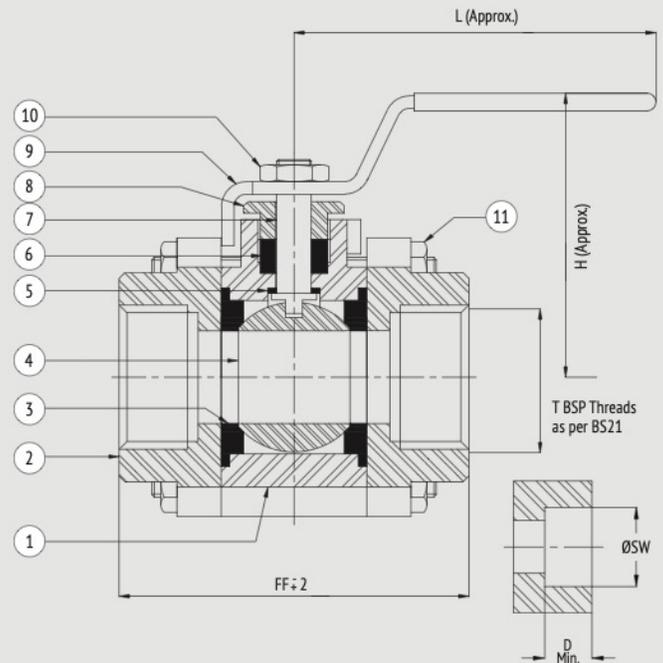
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.
Other screwed end specifications can be provided on request.

HSN Code - 84818030

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Carbon Steel	ASTM A216 Gr. WCB
2	Pipe Connector	2	Cast Carbon Steel	ASTM A216 Gr. WCB
3	Body Seal	2	PTFE	-
4	Ball	1	Stainless Steel	ASTM A 351 Gr. CF8 ASTM A 276 Type 304
5	Stem Seal	1	PTFE	-
6	Packing	1	PTFE	-
7	Stem	1	Stainless Steel	ASTM A 276 Type 410
8	Gland Nut	1	Stainless Steel	ASTM A 276 Type 410
9	Lever (with Plastic Sleeve)	1	Carbon Steel	-
10	Lever Nut	1	Stainless Steel	Type 410
11	Studs & Nuts	To Suit	Alloy Steel	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H



Sizes & Dimensions

Size (mm)	FF	LL	H	T	ØSW	D
15	66	104	55	1/2"	21.8 / 22.2	9.5
20	75	104	65	3/4"	27.2 / 27.6	12.5
25	85	135	82	1"	33.9 / 34.3	12.5
32	102	180	85	1.1/4"	42.7 / 43.1	12.5
40	115	180	94	1.1/2"	48.8 / 49.2	12.5
50	130	216	115	2"	61.2 / 61.7	16

Product Standard	BS EN 17292
Pressure / Class Rating	Class-150
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Port Opening	Full Bore
Product Description	Three Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Flanged Ends as per ASME B16.5 (Class-150) Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)



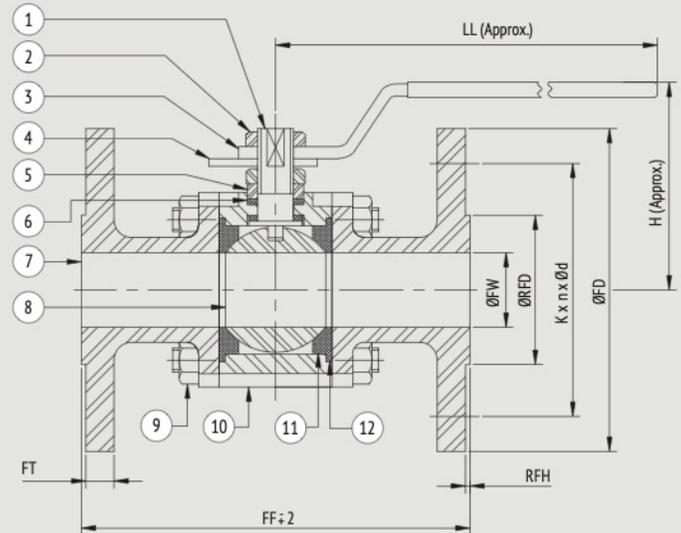
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.
 Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.
 Actuator available on request.

HSN Code - 84818030

S.No	Description	No.	Material	Specifications
1	Stem	1	Stainless Steel	ASTM A 276 Type 410
2	Nut	1	Stainless Steel	ASTM A 276 Type 410
3	Lever (Plastic Sleeve)	1	Carbon Steel	-
4	Stopper	1	Carbon Steel	-
5	Gland	1	Stainless Steel	ASTM A 276 Type 410
6	Packing Ring	-	PTFE	-
7	Body Connector	2	Cast Carbon Steel	ASTM A216 Gr. WCB
8	Ball	1	Stainless Steel	AISI A 351 Gr. CF8
9	Studs / Bolts & Nuts	To Suit	Alloy Steel / HT Steel	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H
10	Body	1	Cast Carbon Steel	ASTM A216 Gr. WCB
11	Seat	2	PTFE	-
12	Gasket	2	PTFE	-



k = P.C.D
 n = No. of holes
 Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	ØD	LL	H
15	108	8	11	34.9	2	90	60.3	4	5/8"	167	55
20	117	8.9	17	42.9	2	100	69.9	4	5/8"	167	60
25	127	9.6	23	50.8	2	110	79.4	4	5/8"	180	72
40	165	12.7	37	73	2	125	98.4	4	5/8"	206	90
50	178	14.3	49	92.1	2	150	120.7	4	3/4"	230	100



Investment Casting Carbon Steel (WCB) Ball Valve Two Piece Design, Flanged Ends, Class-150

FV-516A

Product Standard	BS EN 17292
Pressure / Class Rating	Class-150
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Flanged Ends as per ASME B16.5 (Class-150) Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)



Suitable for

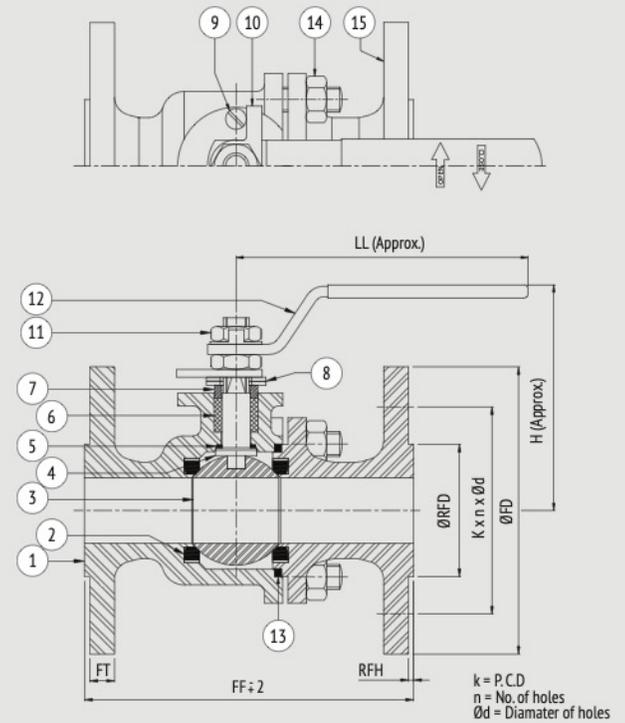
- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Carbon Steel	ASTM A216 Gr. WCB
2	Seat	2	PTFE with Graphoil	-
3	Ball	1	Stainless Steel	AISI A 351 Gr. CF8 / AISI 304
4	Stem	1	Stainless Steel	ASTM A 276 Type 410 / 304
5	Stem Seal	1	Graphoil	-
6	Packing	-	PTFE with Graphoil	-
7	Gland	1	Stainless Steel	ASTM A 276 Type 410
8	Disc Spring	2	Stainless Steel	Any Grade
9	Stopper Pin	1	Carbon Steel	-
10	Stopper	1	Carbon Steel	-
11	Locking Nut	2	Stainless Steel	-
12	Lever	1	Carbon Steel (with PVC Sleeve)	-
13	Gasket	1	Spiral Wound	S.S. 304 with Graphoil Filled
14	Studs & Nuts	To Suit	Alloy Steel / HT Steel	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H
15	Cap	1	Cast Carbon Steel	ASTM A216 Gr. WCB



Sizes & Dimensions

Size (mm)	FF	FT	ØRFD	RFH	ØFD	K	n	ØD	LL	H
25	127	9.6	50.8	2	110	79.4	4	5/8"	140	102
40	165	12.7	73	2	125	98.4	4	5/8"	200	130
50	178	14.3	92.1	2	150	120.7	4	3/4"	200	145
65	191	15.9	104.8	2	180	139.7	4	3/4"	250	150
80	203	17.5	127	2	190	152.4	4	3/4"	400	175
100	229	22.3	157.2	2	230	190.5	8	3/4"	500	226
150	394	23.9	215.9	2	280	241.3	8	7/8"	800	274



ATAM

IBR Valves

**ATAM**

Bronze Globe Steam Stop Valve Screwed Ends

AV-201

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

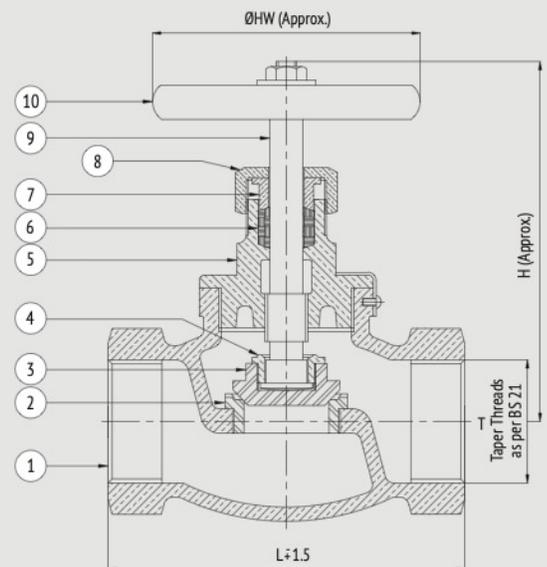
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B
2	Body Seat Ring	1	Stainless Steel	AISI 410
3	Disc	1	Stainless Steel	AISI 410
4	Disc Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
5	Bonnet	1	Bronze	IBR 282 (a) (iv) Gr. B
6	Packing	-	Graphited Asbestos	-
7	Gland	1	Bronze	IBR 282 (a) (iv) Gr. B
8	Gland Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
9	Stem	1	Stainless Steel	AISI 410
10	Handwheel	1	Cast Iron	-



Sizes & Dimensions

Size (mm)	L	H	ØHW	T
15	83	115	80	1/2"
20	95	115	80	3/4"
25	111	130	100	1"
32	133	160	127	1.1/4"
40	150	170	127	1.1/2"
50	178	185	150	2"

**ATAM**

Bronze Globe Steam Stop Valve Flanged Ends (Table-H)

AV-202

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS-10 Table-H Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

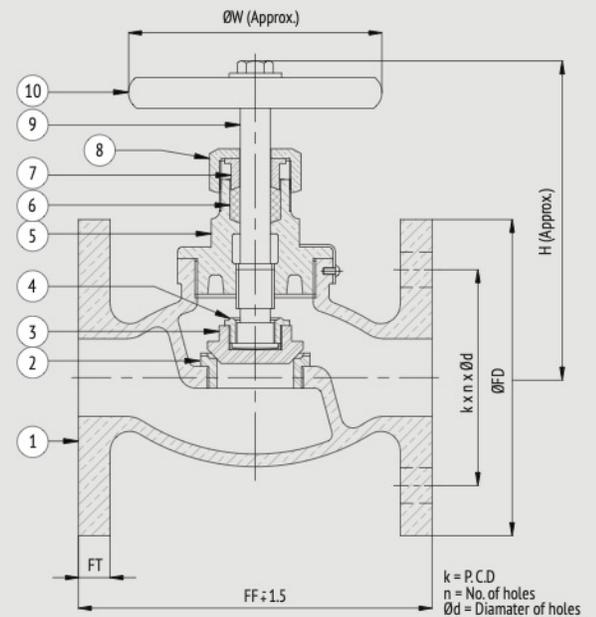
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B
2	Body Seat Ring	1	Stainless Steel	AISI 410
3	Disc	1	Stainless Steel	AISI 410
4	Disc Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
5	Bonnet	1	Bronze	IBR 282 (a) (iv) Gr. B
6	Packing	-	Graphited Asbestos	-
7	Gland	1	Bronze	IBR 282 (a) (iv) Gr. B
8	Gland Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
9	Stem	1	Stainless Steel	AISI 410
10	Handwheel	1	Cast Iron	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	102	117	80	114.3	9.5	82.6	4	17.5
20	117	128	80	114.3	9.5	82.6	4	17.5
25	127	137	100	120.7	11.1	87.3	4	17.5
32	140	160	127	133.4	11.1	98.5	4	17.5
40	150	170	127	139.7	12.7	104.8	4	17.5
50	178	185	150	165.1	12.7	127	4	17.5

**ATAM**

Bronze Globe Steam Stop Valve Flanged Ends (Table-F)

AV-202A

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS-10 Table-F Flat Face (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

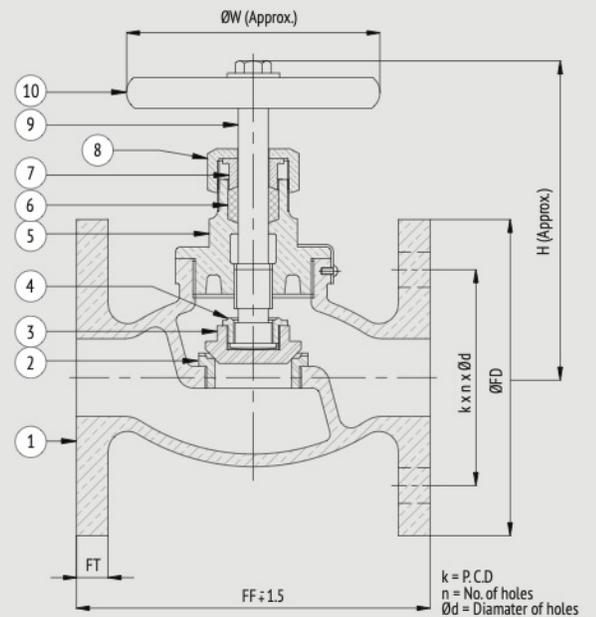
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B
2	Body Seat Ring	1	Stainless Steel	AISI 410
3	Disc	1	Stainless Steel	AISI 410
4	Disc Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
5	Bonnet	1	Bronze	IBR 282 (a) (iv) Gr. B
6	Packing	-	Graphited Asbestos	-
7	Gland	1	Bronze	IBR 282 (a) (iv) Gr. B
8	Gland Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
9	Stem	1	Stainless Steel	AISI 410
10	Handwheel	1	Cast Iron	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	95	117	80	95.3	7.9	66.7	4	14.3
20	108	128	80	101.6	7.9	73	4	14.3
25	118	137	100	120.7	9.5	87.3	4	17.5
32	127	160	127	133.4	9.5	98.4	4	17.5
40	143	170	127	139.7	11.1	104.8	4	17.5
50	171	185	150	165.1	11.1	127	4	17.5

**ATAM**

Bronze Auxiliary Steam Stop Valve Screwed Ends

AV-203

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

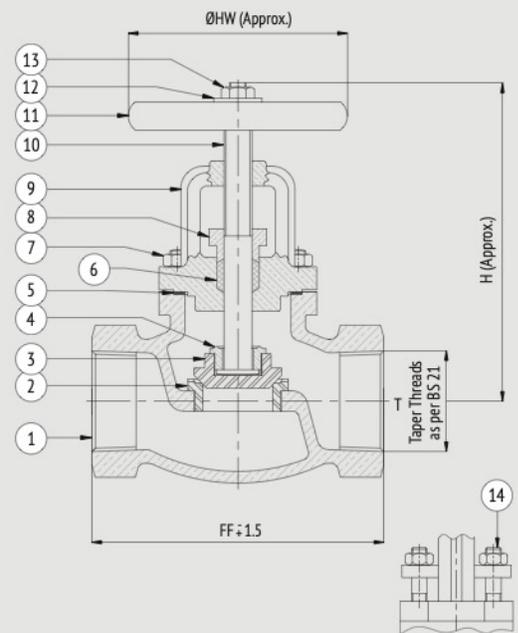
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Disc Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Gasket	1	CAF	IS 2712
6	Packing	-	Graphited Asbestos	-
7	Studs & Nuts	4 Each	Carbon Steel	-
8	Gland Flange	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
9	Bonnet	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Stem	1	Stainless Steel	ASTM A 276 Type 410
11	Handwheel	1	Cast Iron	-
12	Washer	1	Carbon Steel	-
13	Nut	1	Carbon Steel	-
14	Gland Studs & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	L	H	ØHW	T
15	83	130	80	1/2"
20	95	135	80	3/4"
25	111	145	100	1"
32	133	170	127	1.1/4"
40	150	180	127	1.1/2"
50	178	210	150	2"

**ATAM**

Bronze Auxiliary Steam Stop Valve Flanged Ends (Table-H)

AV-204

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS-10 Table-H Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

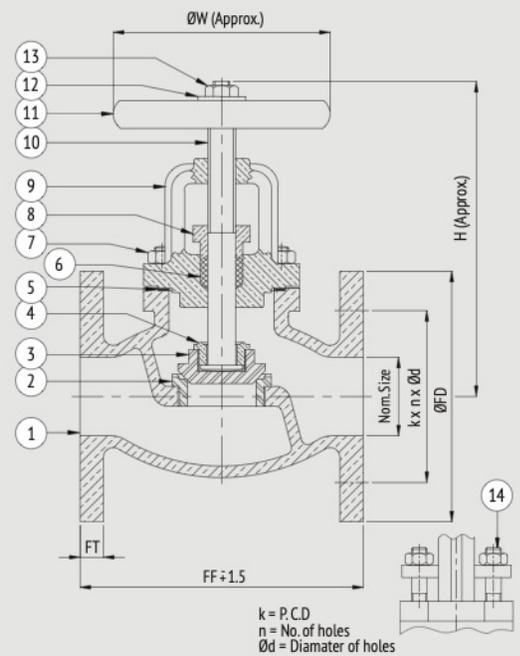
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Disc Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Gasket	1	CAF	IS 2712
6	Packing	-	Graphited Asbestos	-
7	Studs & Nuts	4 Each	Carbon Steel	-
8	Gland Flange	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
9	Bonnet	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Stem	1	Stainless Steel	ASTM A 276 Type 410
11	Handwheel	1	Cast Iron	BS EN 1561 Gr. GIL 200
12	Washer	1	M.S.	-
13	Nut	1	M.S.	-
14	Gland Studs & Nuts	2 Each	M.S.	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	102	130	80	114.3	9.5	82.6	4	17.5
20	117	135	80	114.3	9.5	82.6	4	17.5
25	127	145	100	120.7	11.1	87.3	4	17.5
32	140	170	127	133.4	11.1	98.4	4	17.5
40	150	180	127	139.7	12.7	104.8	4	17.5
50	178	210	150	165.1	12.7	127	4	17.5

**ATAM**

Bronze Auxiliary Steam Stop Valve Flanged Ends (Table-F)

AV-204A

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS-10 Table-F Flat Face (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

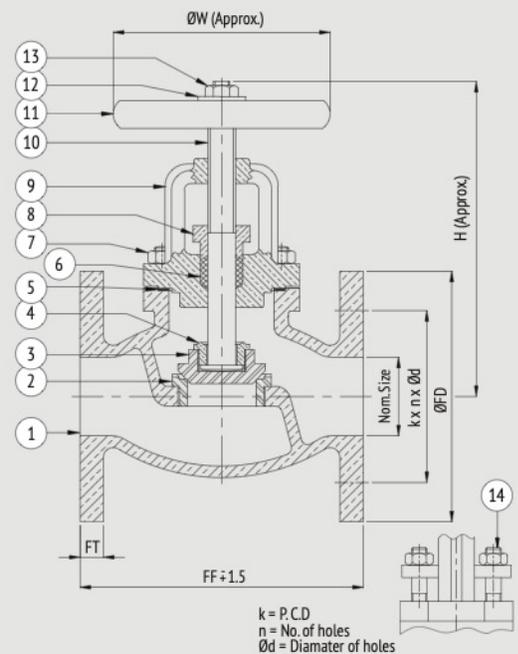
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Disc Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Gasket	1	CAF	IS 2712
6	Packing	-	Graphited Asbestos	-
7	Studs & Nuts	4 Each	Carbon Steel	-
8	Gland Flange	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
9	Bonnet	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Stem	1	Stainless Steel	ASTM A 276 Type 410
11	Handwheel	1	Cast Iron	BS EN 1561 Gr. GIL 200
12	Washer	1	Carbon Steel	-
13	Nut	1	Carbon Steel	-
14	Gland Studs & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	FT	k	n	Ød
15	95	130	80	95.3	7.9	66.7	4	14.3
20	108	135	80	101.6	7.9	73	4	14.3
25	118	145	100	120.7	9.5	87.3	4	17.5
32	127	170	127	133.4	9.5	98.4	4	17.5
40	143	180	127	139.7	11.1	104.8	4	17.5
50	171	210	150	165.1	11.1	127	4	17.5

**ATAM**

Bronze Y-Type Strainer Screwed Ends

AV-208

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Y-Type, Screwed in Cover
Trim	Stainless Steel (Type 304) Screen Having 1mm Diameter Perforations
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

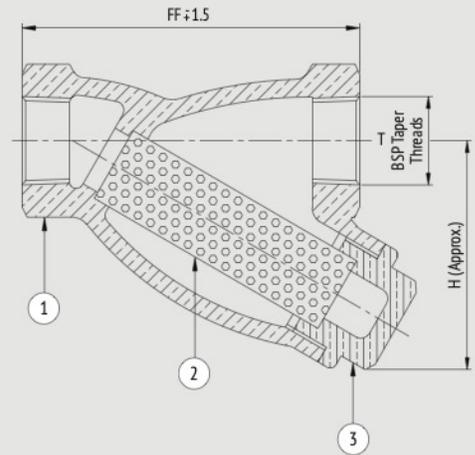
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Screen	1	Stainless Steel	ASTM A 240 Type 304 (1mm Dia. Perforation)
3	Cover	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	H	T
15	78	55	1/2"
20	100	68	3/4"
25	138	85	1"
32	152	100	1.1/4"
40	178	115	1.1/2"
50	222	140	2"

**ATAM**

Bronze Y-Type Strainer Flanged Ends

AV-209

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Y-Type, Screwed in Cover
Trim	Stainless Steel (Type 304) Screen Having 1mm Diameter Perforations
End Details	Flanged Ends as per BS-10 Table-H Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

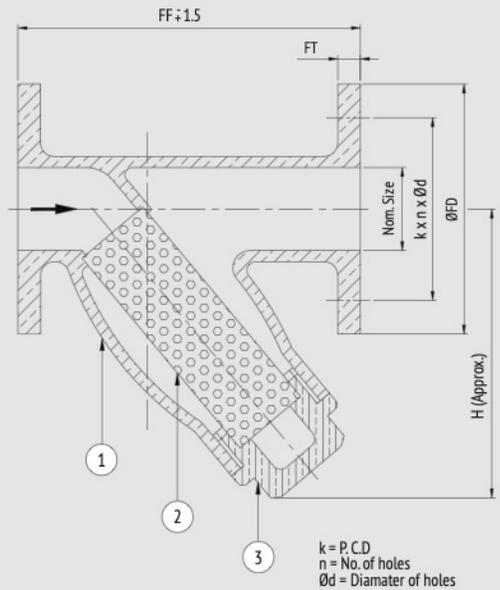
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Screen	1	Stainless Steel	ASTM A 240 Type 304 (1mm Dia. Perforation)
3	Cover	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	H	ØFD	FT	k	n	Ød
15	125	67	114.3	9.5	82.6	4	17.5
20	140	85	114.3	9.5	82.6	4	17.5
25	162	110	120.7	11.1	87.3	4	17.5
32	178	120	133.4	11.1	98.4	4	17.5
40	203	146	139.7	12.7	104.8	4	17.5
50	203	195	165.1	12.7	127	4	17.5

**ATAM**

Bronze Horizontal Lift Check Valve Screwed Ends

AV-210

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Screwed in Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

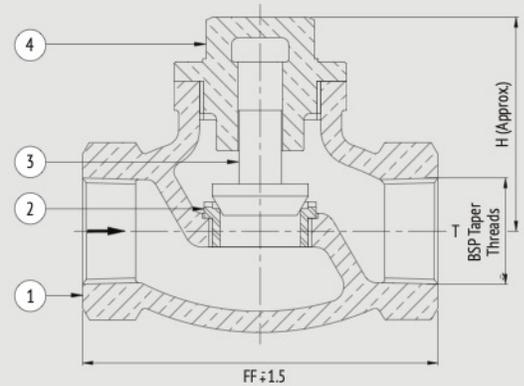
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Cover	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	H	T
15	83	55	1/2"
20	95	55	3/4"
25	111	64	1"
32	133	74	1.1/4"
40	150	80	1.1/2"
50	178	90	2"

**ATAM**

Bronze Horizontal Lift Check Valve Flanged Ends

AV-211

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Screwed in Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS-10 Table-H Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

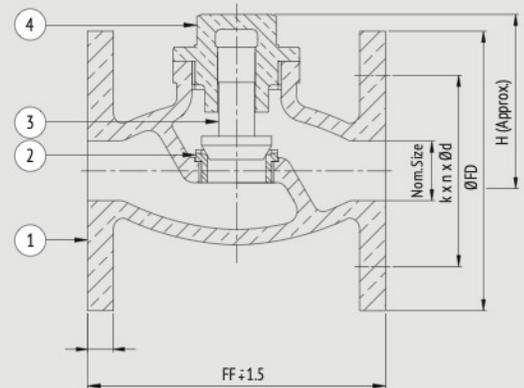
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Cover	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K



k = P.C.D
n = No. of holes
Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	H	ØFD	FT	k	n	Ød
15	102	55	114.3	9.5	82.6	4	17.5
20	114	55	114.3	9.5	82.6	4	17.5
25	127	64	120.7	11.1	87.3	4	17.5
32	140	74	133.4	11.1	98.4	4	17.5
40	150	80	139.7	12.7	104.8	4	17.5
50	178	90	165.1	12.7	127	4	17.5

**ATAM**

Bronze Sleeve Packed Water Level Gauge Flanged Ends

AV-214

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	with Automatic Shut-Off Device in the Water Arm (LH or RH)
End Details	Flanged Ends as per BS-10 Table-H Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

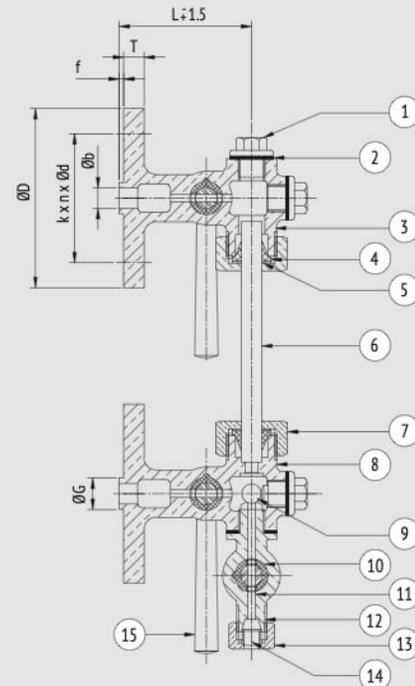
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Plug	1	Bronze	IBR 282 (a) (iv) Gr. B
2	Gasket	1	CAF	IS 2712
3	upper Arm	1	Bronze	IBR 282 (a) (iv) Gr. B
4	Cone	1	Rubber	-
5	Washer	1	Bronze	IBR 282 (a) (iv) Gr. B
6	Glass Tube	1	-	-
7	Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
8	Lower Arm	1	Bronze	IBR 282 (a) (iv) Gr. B
9	Ball	1	Stainless Steel	AISI 304
10	Sleeve	1	Moulded Asbestos	-
11	Stem	1	Stainless Steel	AISI 304
12	Drain Valve	1	Bronze	IBR 282 (a) (iv) Gr. B
13	Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
14	Nipple	1	Bronze	IBR 282 (a) (iv) Gr. B
15	Handle	1	M.S.	-



n = No. of holes
 Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	L	ØD	Øb	ØG	T	f	Øk	n	Ød
15	82	114.3	12.7	19	9.6	3	82.6	4	17.5
18	95	114.3	15.8	25.4	9.6	3	82.6	4	17.5
20	95	114.3	19	25.4	9.6	3	82.6	4	17.5



ATAM

Bronze Thermodynamic Steam Trap Screwed Ends

AV-220

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	with SS 304 Strainer
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

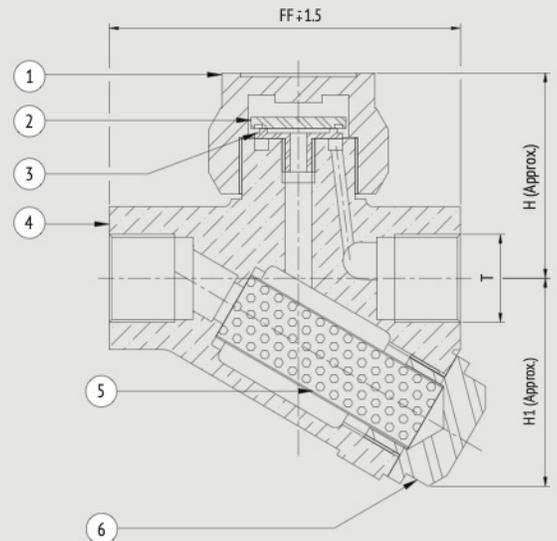
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Top Nut	1	Stainless Steel	AISI 410
2	Disc	1	Stainless Steel	AISI 410
3	Seat	1	Stainless Steel	AISI 410
4	Body	1	Bronze	IBR 282 (a) (iv) Gr. B
5	Screen	1	Stainless Steel	AISI 304
6	Cover	1	Stainless Steel	AISI 410



Sizes & Dimensions

Size (mm)	FF	T	H	H1
15	83	1/2"	60	56
20	95	3/4"	60	62
25	117	1"	70	76



ATAM

Bronze Parallel Slide Blow Off Valve Flanged Ends

AV-221

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Rack & Pinion Operated with Stellite Face, Supplied with Operating Key
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	Seat & Disc: 13% Cr. (SS 410) + Stellite
End Details	Flanged Ends as per BS-10 Table-H Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

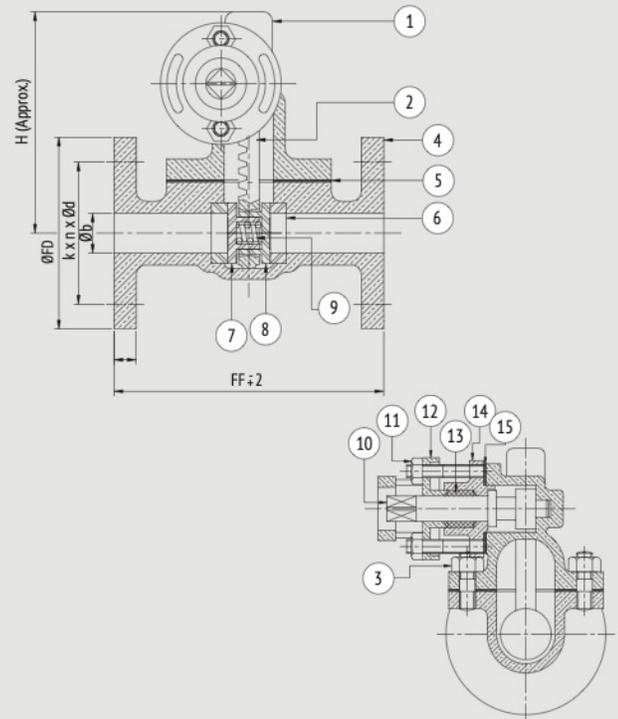
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Bonnet	1	Bronze	IBR 282 (a) (iv) Gr. B
2	Rack	1	C.A.S.	ASTM A 217 Gr. CA15
3	Studs & Nuts	To Suit	Carbon Steel	-
4	Body	1	Bronze	IBR 282 (a) (iv) Gr. B
5	Gasket	1	Non Asbestos	-
6	Body Seat Ring	1	Stainless Steel	AISI 410 Stellite
7	Male Disc	1	Stainless Steel	AISI 410 Stellite
8	Female Disc	1	Stainless Steel	AISI 410 Stellite
9	Spring	1	Spring Steel	-
10	Pinion	1	C.A.S.	ASTM A 217 Gr. CA15
11	Studs & Nuts	2 Each	Carbon Steel	-
12	Gland Flange	1	S.G. Iron	EN 1563 Gr.GJL 400 15
13	Gland Packing	-	Graphited Asbestos	-
14	Stuffing Box	1	S.G. Iron	EN 1563 Gr.GJL 400 15
15	Gasket	1	Non Asbestos	-



Sizes & Dimensions

Size (mm)	FF	H	Øb	ØFD	FT	k	n	Ød
25	167	142	25	120.7	11.1	87.3	4	17.5
32	173	158	32	133.4	11.1	98.4	4	17.5
40	190	205	38	139.7	12.7	104.8	4	17.5
50	206	227	50	165.1	12.7	127	4	17.5
65	228	270	63.5	184.1	14.3	146.1	8	17.5
80	254	312	76.2	203.2	16	165	8	17.5

**ATAM**

Bronze Fusible Plug Two Piece Design Screwed Ends

AV-222

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Two Piece Design
End Details	Screwed Male BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

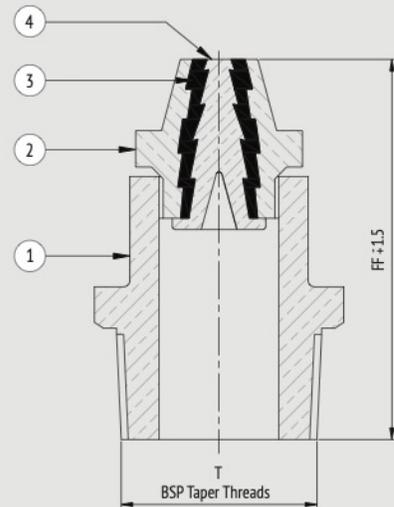
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Cone	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
3	Fusible Alloy	1	Pb. Sn. Alloy	IBR 333
4	Plug	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	T
15	53	1/2"
20	63	3/4"
25	70	1"
32	83	1.1/4"
40	89	1.1/2"
50	100	2"



ATAM

Bronze Fusible Plug One Piece Design Screwed Ends

AV-223

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	One Piece Design
End Details	Screwed Male BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

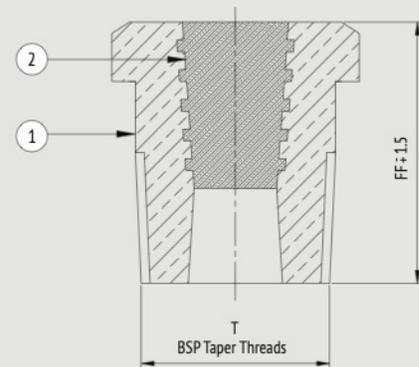
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Fusible Alloy	1	Pb. Sn. Alloy	IBR 333



Sizes & Dimensions

Size (mm)	FF	T
15	32	1/2"
20	38	3/4"
25	44	1"



ATAM

Bronze Vertical Non-Return Valve Two Piece Design Screwed Ends

AV-227

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Screwed in Cover, Guided Disc
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

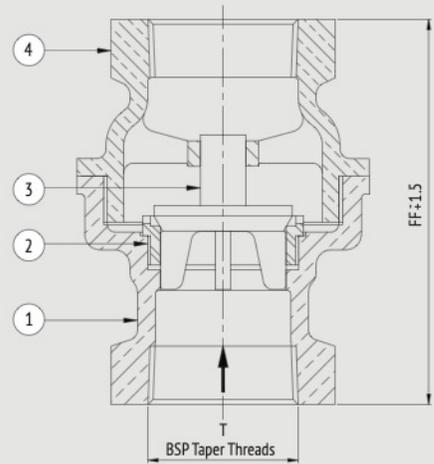
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Inlet Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Outlet Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	T
15	73	1/2"
20	83	3/4"
25	97	1"
32	120	1.1/4"
40	127	1.1/2"
50	157	2"

**ATAM**

Bronze Vertical Non-Return Valve Two Piece Design Flanged Ends

AV-228

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Screwed in Cover, Guided Disc
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS-10 Table-H Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

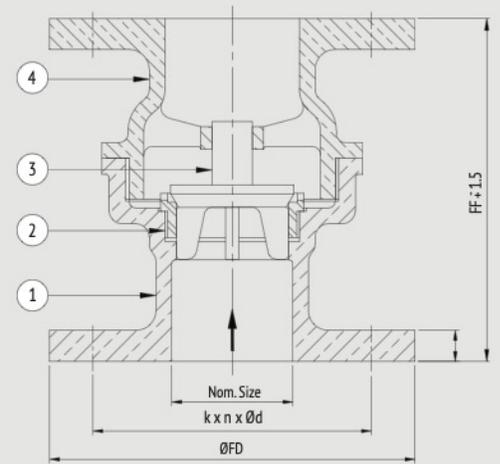
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Inlet Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Outlet Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K



k = P.C.D
n = No. of holes
Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	ØFD	FT	k	n	Ød
15	70	114.3	9.5	82.6	4	17.5
20	76	114.3	9.5	82.6	4	17.5
25	95	120.7	11.1	87.3	4	17.5
32	106	133.4	11.1	98.4	4	17.5
40	123	139.7	12.7	104.8	4	17.5
50	140	165.1	12.7	127	4	17.5

**ATAM**

Bronze Pressure Reducing Valve Diaphragm Type Screwed Ends

AV-229

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Spring Loaded, Outlet Pressure Range Available 5/60, 20/80, 40/125 Psig
Trim	Seat & Disc: Stainless Steel (Type 304)
Diaphragm	Stainless Steel (AISI 304)
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

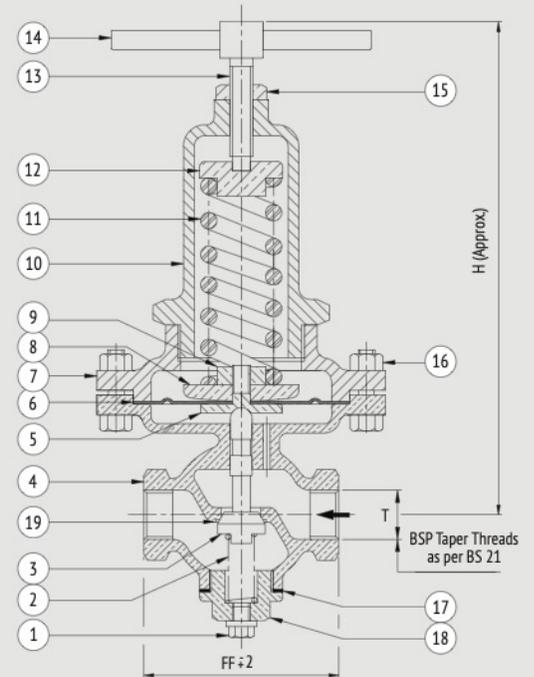
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84811000

Material Specification

S.No	Description	No.	Material	Specifications
1	Drain Plug	1	Bronze	IBR 282 (a) (iv) Gr. B
2, 11	Spring	1	Carbon Steel	IBR 307
3, 4	Valve Disc, Body	1	Bronze	IBR 282 (a) (iv) Gr. B
5, 6	Disc, Diaphragm	1	Stainless Steel	AISI 304
7, 10	Bonnet, Spring Chamber	1	Cast Iron	IBR 86 to 93 Gr.A
8	Lower Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B
9	Disc Nut	1	Bronze / Brass	IBR 282 (a) (iv) Gr. B / -
12	Upper Spring Disc	1	Cast Iron	IBR 86 to 93 Gr.A
13	Adjusting Screw	1	Carbon Steel	-
14	Tommy Bar	1	Carbon Steel	-
15	Locking Nut	1	Carbon Steel	-
16	Bolts & Nuts	To Suit	Carbon Steel	-
17	Gasket	1	C.A.F.	IS 2712
18	Bottom Cover	1	Gun Metal	BS EN 1982 Gr. CC491K
19	Ring	1	Stainless Steel	AISI 304



Sizes & Dimensions

Size (mm)	FF	H	T
15	76	240	1/2"
20	108	278	3/4"
25	114	325	1"
32	133	345	1.1/4"
40	137	380	1.1/2"
50	170	410	2"

**ATAM**

Bronze Safety Valve Right Angle Enclosed Discharge Screwed Ends

AV-230

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Spring Loaded, Enclosed Discharge
Trim	Cu-Alloy
End Details	Inlet Screwed Male BSP Taper Threads (BS-21), Outlet Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	225°C
Max. Set Pressure	150 Psig (Steam)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

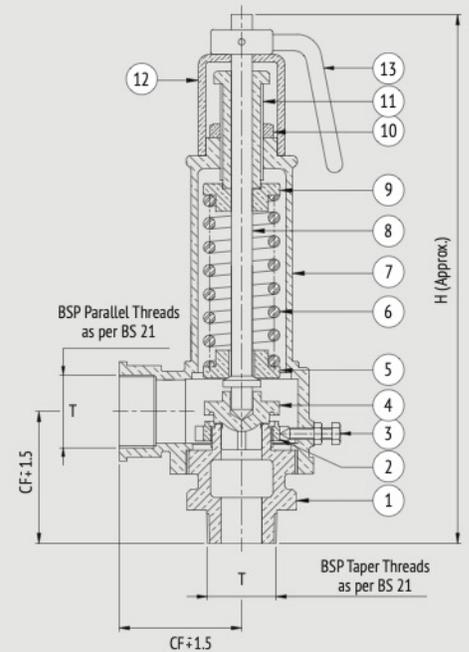
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Regulating Ring	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
3	Locking Screw	1	Brass	-
4	Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Lower Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
6	Spring	1	Stainless Steel	IBR 307 / AISI 304
7	Spring Chamber	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
8	Stem	1	Brass / Stainless Steel	IS 6912 Gr. FLB / ASTM A 276 Type 410
9	Upper Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Check Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
11	Adjusting Screw	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
12	Cap	1	Aluminium	-
13	Lever	1	Bronze	IBR 282 (a) (iv) Gr. B



Sizes & Dimensions

Size (mm)	CF	CF1	H	T
15	48	62	220	1/2"
20	48	62	220	3/4"
25	60	74	235	1"
32	74	81	291	1.1/4"
40	75	91	300	1.1/2"
50	81	110	360	2"

**ATAM**

Bronze Safety Valve Right Angle Enclosed Discharge Flanged Ends

AV-230A

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Spring Loaded, Enclosed Discharge
Trim	Cu-Alloy
End Details	Flanged Ends as per BS-10 Table-F Flat Face (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	225°C
Max. Set Pressure	150 Psig (Steam)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

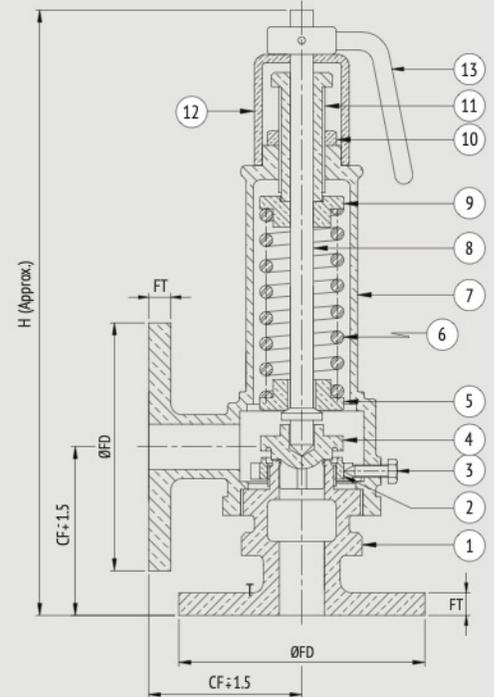
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Regulating Ring	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
3	Locking Screw	1	Brass	-
4	Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Lower Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
6	Spring	1	Stainless Steel	IBR 307 / AISI 304
7	Spring Chamber	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
8	Stem	1	Brass / Stainless Steel	IS 6912 Gr. FLB / ASTM A 276 Type 410
9	Upper Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Check Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
11	Adjusting Screw	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
12	Cap	1	Aluminium	-
13	Lever	1	Bronze	IBR 282 (a) (iv) Gr. B



Sizes & Dimensions

Size (mm)	CF	CF1	H	ØFD	FT
25	74	72	239	120.7	9.5
40	86	87	295	139.7	11.1

**ATAM**

Bronze Safety Valve Open Discharge Screwed Ends

AV-231

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Spring Loaded, Open Discharge
Trim	Cu-Alloy
End Details	Inlet Screwed Male BSP Taper Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	225°C
Max. Set Pressure	150 Psig (Steam)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

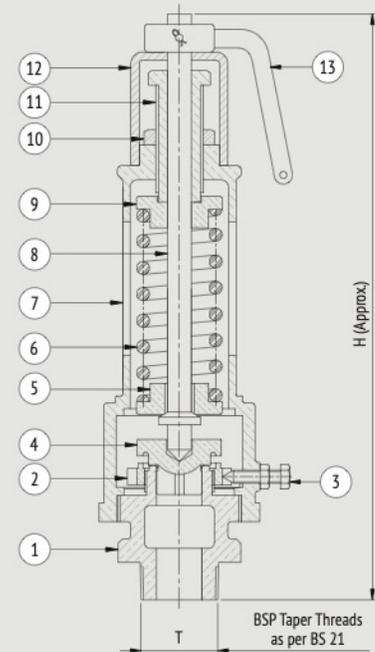
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Regulating Ring	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
3	Locking Screw	1	Brass	-
4	Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Lower Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
6	Spring	1	Stainless Steel	IBR 307 / AISI 304
7	Spring Chamber	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
8	Stem	1	Brass / Stainless Steel	IS 6912 Gr. FLB / ASTM A 276 Type 410
9	Upper Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Check Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
11	Adjusting Screw	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
12	Cap	1	Aluminium	-
13	Lever	1	Bronze	IBR 282 (a) (iv) Gr. B



Sizes & Dimensions

Size (mm)	H	T
15	204	1/2"
20	205	3/4"
25	228	1"
32	291	1.1/4"
40	300	1.1/2"
50	360	2"

**ATAM**

Bronze Safety Valve Pop Type, Open Discharge Screwed Ends

AV-232

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Pop Type, Spring Loaded, Open Discharge
Trim	Cu-Alloy
End Details	Inlet Screwed Male BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C
Max. Set Pressure	250 Psig (Steam)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

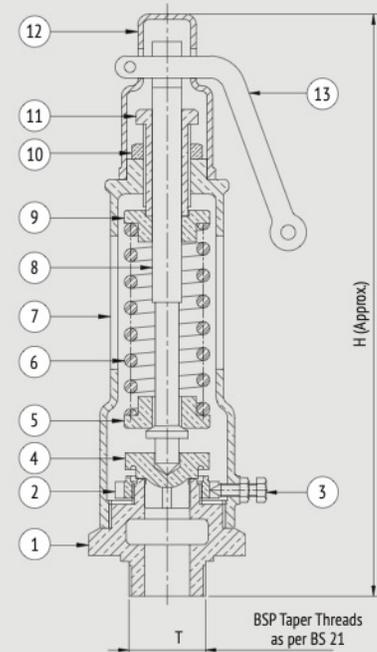
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Regulating Ring	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
3	Locking Screw	1	Brass	-
4	Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Lower Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
6	Spring	1	Stainless Steel	IBR 307 / AISI 304
7	Spring Chamber	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
8	Stem	1	Brass / Stainless Steel	IS 6912 Gr. FLB / ASTM A 276 Type 410
9	Upper Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Check Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
11	Adjusting Screw	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
12	Cap	1	Aluminium	-
13	Lever	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	H	T
15	279	3/4"
20	317	1"
25	325	1.1/4"
32	396	1.1/2"
40	400	2"
50	450	2.1/2"

**ATAM**

Bronze Safety Valve Pop Type, Open Discharge Flanged Ends

AV-233

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Pop Type, Spring Loaded, Open Discharge
Trim	Cu-Alloy
End Details	Flanged Ends as per BS-10 Table-H Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C
Max. Set Pressure	250 Psig (Steam)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

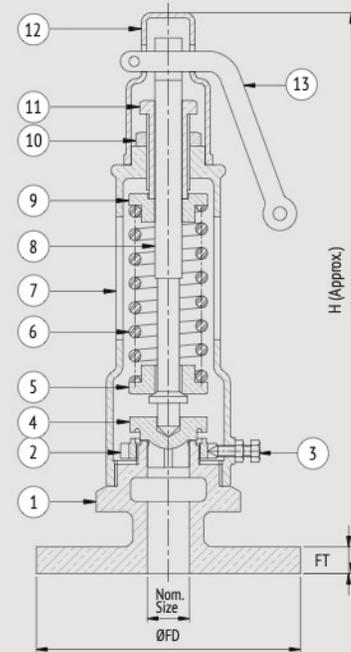
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Regulating Ring	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
3	Locking Screw	1	Brass	-
4	Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Lower Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
6	Spring	1	Carbon Steel	-
7	Spring Chamber	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
8	Stem	1	Forged Brass	-
9	Upper Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Check Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
11	Adjusting Screw	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
12	Cap	1	Aluminium	-
13	Lever	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	H	ØFD	FT
15	287	114.3	9.5
20	324	114.3	9.5
25	325	120.7	11.1
32	398	133.4	11.1
40	400	139.7	12.7
50	451	165.1	12.7



ATAM

Bronze Safety Valve Right Angle Pop Type, Enclosed Discharge Screwed Ends

AV-234

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Pop Type, Spring Loaded, Enclosed Discharge
Trim	Cu-Alloy
End Details	Inlet Screwed Male BSP Taper Threads (BS-21), Outlet Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C
Max. Set Pressure	250 Psig (Steam)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

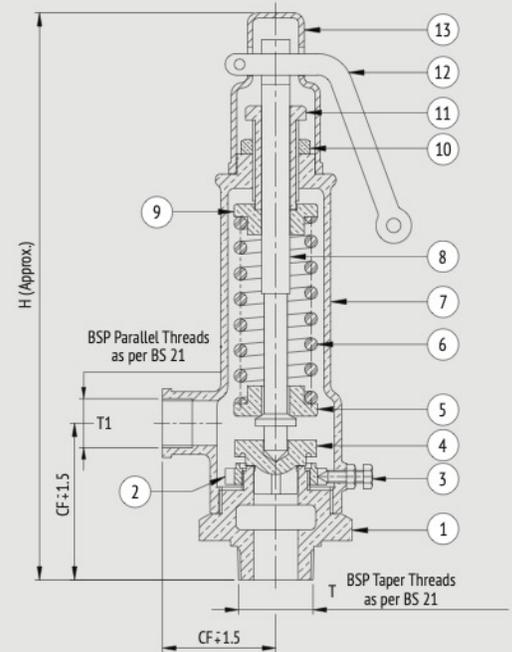
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Regulating Ring	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
3	Locking Screw	1	Brass	-
4	Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Lower Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
6	Spring	1	Carbon Steel	-
7	Spring Chamber	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
8	Stem	1	H.T.Brass	IS 6912 Gr. FLB
9	Upper Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Check Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
11	Adjusting Screw	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
12	Lever	1	Carbon Steel	-
13	Cap	1	Aluminium	-



Sizes & Dimensions

Size (mm)	CF	CF1	H	T	T1
15	45	75	298	3/4"	1/2"
20	65	85	317	1"	3/4"
25	65	89	325	1.1/4"	1"
32	66	98	396	1.1/2"	1.1/4"
40	66	110	400	2"	1.1/2"
50	86	113	450	2.1/2"	2"

**ATAM**

Bronze Safety Valve Right Angle Pop Type, Enclosed Discharge Flanged Ends

AV-235

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Pop Type, Spring Loaded, Enclosed Discharge
Trim	Cu-Alloy
End Details	Flanged Ends as per BS-10 Table-H Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C
Max. Set Pressure	250 Psig (Steam)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

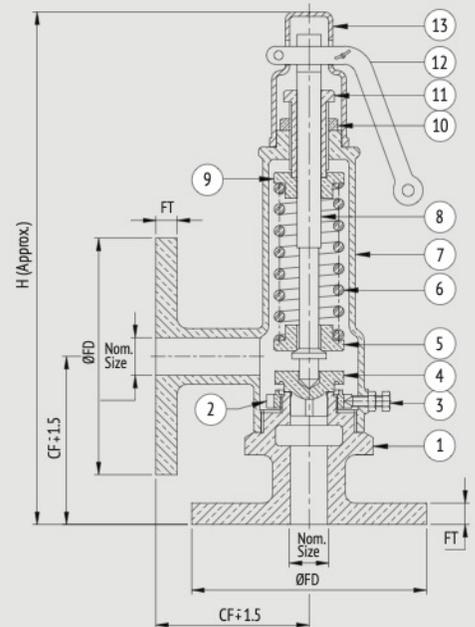
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Regulating Ring	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
3	Locking Screw	1	Brass	-
4	Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Lower Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
6	Spring	1	Carbon Steel	-
7	Spring Chamber	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
8	Stem	1	H.T.Brass	IS 6912 Gr. FLB
9	Upper Spring Disc	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
10	Check Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
11	Adjusting Screw	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
12	Lever	1	Carbon Steel	-
13	Cap	1	Aluminium	-



Sizes & Dimensions

Size (mm)	CF	CF1	H	ØFD	FT
15	70	66	287	114.3	9.5
20	74	73	324	114.3	9.5
25	74	75	325	120.7	11.1
32	83	93	398	133.4	11.1
40	83	95	400	139.7	12.7
50	111	110	451	165.1	12.7

**ATAM**

Bronze Sight Flow indicator Single Window Screwed Ends

AV-238

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Single Window with Toughened Glass
Trim	Cu-Alloy
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

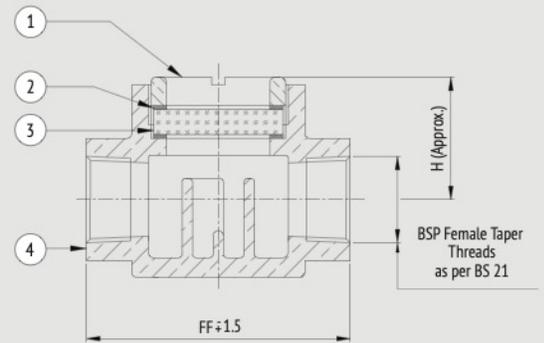
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Cover	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Gasket	1	C.A.F.	IS 2712
3	Glass	1	Toughened	-
4	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K



Sizes & Dimensions

Size (mm)	FF	H	T
15	89	40	1/2"
20	92	42	3/4"
25	102	47	1"
32	105	52	1.1/4"
40	110	55	1.1/2"
50	115	62	2"

**ATAM**

Bronze Inspector's Test Gauge Cock Screwed Ends

AV-239

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Inspector Test Gauge Cock with Bend Threaded M20 x 1.5 connection
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

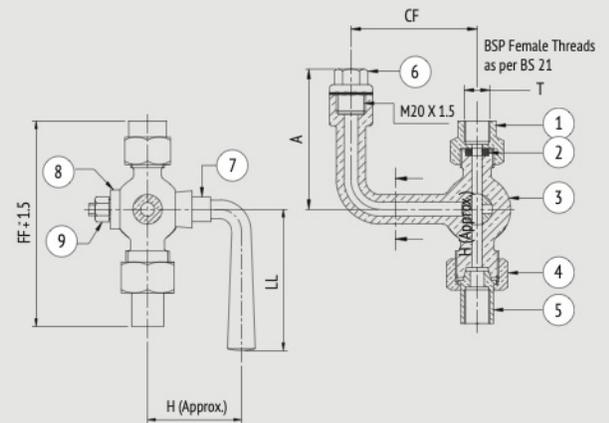
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
2	Washer	1	Lead	-
3	Body	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
4	Union Nut	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
5	Tail Pipe	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
6	Plug	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
7	Plug	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
8	Washer	1	Bronze	IBR 282 (a) (iv) Gr. B / BS EN 1982 Gr. CC491K
9	Nut	1	Brass	-



Sizes & Dimensions

Size (mm)	FF	H	LL	A	CF	T
10	146	60	91	87	84	3/8"
15	146	60	91	87	84	1/2"

**ATAM**

Bronze Pressure Gauge Cock Screwed Ends

AV-241

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Pressure Gauge Cock fitted with Pressure Coupling Nut & Tail Pipe
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

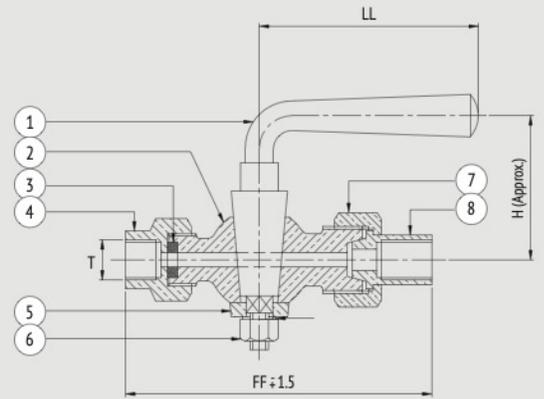
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Plug	1	Bronze	IBR 282 (a) (iv) Gr. B
2	Body	1	Bronze	IBR 282 (a) (iv) Gr. B
3	Washer	1	Lead	-
4	Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
5	Washer	1	Bronze	IBR 282 (a) (iv) Gr. B
6	Nut	1	Brass	-
7	Union Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
8	Tail Pipe	1	Bronze	IBR 282 (a) (iv) Gr. B
9	Spring Washer	1	Spring Steel	-



Sizes & Dimensions

Size (mm)	FF	H	LL	T
10	135	62	90	3/8"
15	135	62	90	1/2"



ATAM

Bronze Fusible Plug Loco Type Screwed Ends

AV-242

Body Material Cum Standard	Bronze (IBR 282 (a) (iv) Gr. B)
Product Description	Fusible Plug, Loco Type
End Details	Screwed Male BSP Taper Threads (BS-21)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	225°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

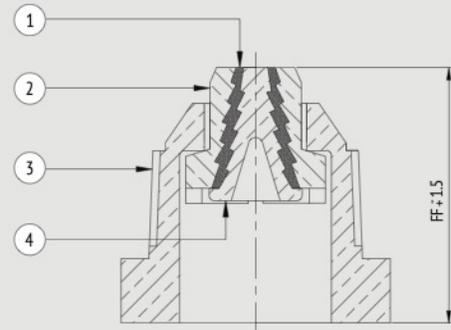
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Fusible Alloy	-	Lead Tin Alloy	IBR 333
2	Plug	1	Bronze	IBR 282 (a) (iv) Gr. B
3	Body	1	Bronze	IBR 282 (a) (iv) Gr. B
4	Cone	1	Bronze	IBR 282 (a) (iv) Gr. B



Sizes & Dimensions

Size (mm)	FF
25	53
32	53



ATAM

Cast Iron Globe Steam Stop Valve Flanged Ends, PN-16

AV-251

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-16
Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Drilling as per BS-10 Table-H Raised Face (PN-16)
Test Pressure	Body: 24 kg/cm ² (Hyd.), Seat & Back Seat : 17.6 kg/cm ²
Max. Working Pressure	13 kg/cm ² (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

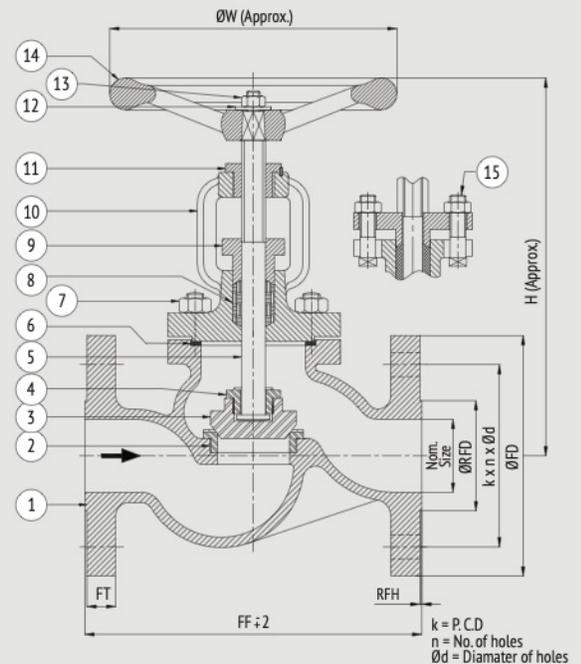
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	BS EN 1561 Gr. GIL 220 / IBR 86 to 93 Gr. A
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A217 Gr. CA15
4	Disc Nut	1	Stainless Steel	ASTM A 276 Type 410
5	Stem	1	Stainless Steel	ASTM A 276 Type 410
6	Gasket	1	C.A.F. / Non Asbestos Fibre	IS 2712
7	Studs & Nuts	To Suit	Carbon Steel	-
8	Packing	-	Graphited Asbestos	-
9	Gland Flange	1	Cast Iron	BS EN 1561 Gr. GIL 220 / IBR 86 to 93 Gr. A
10	Bonnet	1	Cast Iron	BS EN 1561 Gr. GIL 220 / IBR 86 to 93 Gr. A
11	Yoke Bush	1	Al. Bronze	BS EN 1982 Gr. CC331G
12	Washer	1	Carbon Steel	-
13	Nut	1	Carbon Steel	-
14	Handwheel	1	M.I.	-
15	T-Bolts & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	ØRFD	ØRFH	k	n	Ød	FT
15	130	175	100	114.3	-	-	82.6	4	17.5	14
20	150	180	100	114.3	-	-	82.6	4	17.5	16
25	160	205	100	115	65	3	87.3	4	17.5	16
32	180	240	165	140	76	3	98.4	4	17.5	18
40	200	265	165	150	84	3	104.8	4	17.5	18
50	230	275	165	165	99	3	127	4	17.5	20
65	290	317	200	185	118	3	146	8	17.5	20
80	310	330	200	203.2	132	3	165	8	17.5	22
100	350	380	250	228.6	-	-	190.5	8	17.5	24
125	400	410	250	279.4	-	-	235	8	22.3	26
150	480	440	315	304.8	-	-	260.4	12	22.3	26



ATAM

Cast Iron Globe Steam Stop Valve Flanged Ends, PN-10

AV-251A

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-10
Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Drilling as per BS-10 Table-H Raised Face (PN-10)
Test Pressure	Body: 16 kg/cm ² (Hyd.), Seat & Back Seat : 10 kg/cm ²
Max. Working Pressure	8 kg/cm ² (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

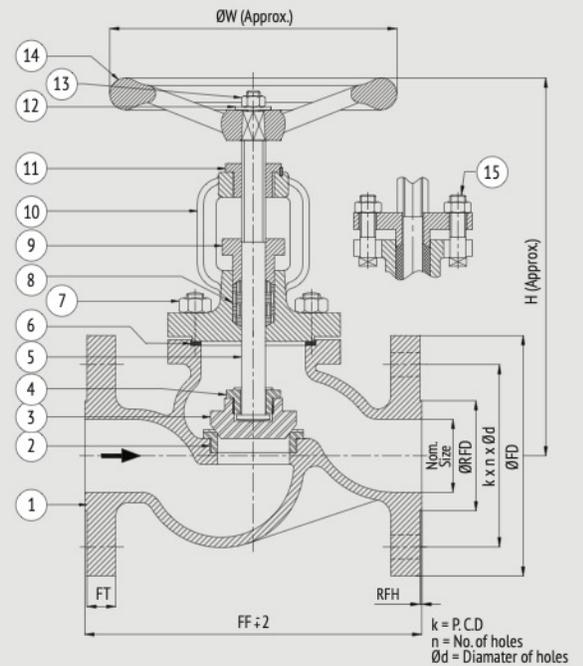
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	BS EN 1561 Gr. GJL 220
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
3	Disc	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
4	Disc Nut	1	Stainless Steel	ASTM A 276 Type 410
5	Stem	1	Stainless Steel	ASTM A 276 Type 410
6	Gasket	1	C.A.F. / Non Asbestos Fibre	-
7	Studs & Nuts	To Suit	Carbon Steel	-
8	Packing	-	Graphited Asbestos	-
9	Gland Flange	1	Cast Iron	BS EN 1561 Gr. GJL 220
10	Bonnet	1	Cast Iron	BS EN 1561 Gr. GJL 220
11	Yoke Bush	1	Al. Bronze	BS EN 1982 Gr. CC331G
12	Washer	1	Carbon Steel	-
13	Nut	1	Carbon Steel	-
14	Handwheel	1	M.I.	-
15	T-Bolts & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØFD	ØRFD	ØRFH	k	n	Ød	FT
200	600	490	400	368.3	-	-	324	12	22.3	26
250	730	630	400	431.8	-	-	381	12	25.4	28

**ATAM**

Cast Iron Junction Steam Stop Valve Flanged Ends, PN-16

AV-252

Type of Pattern	Right Angle Pattern
Pressure / Class Rating	PN-16
Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Drilling as per BS-10 Table-H Raised Face (PN-16)
Test Pressure	Body: 24 kg/cm ² (Hyd.), Seat & Back Seat : 17.6 kg/cm ²
Max. Working Pressure	13 kg/cm ² (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

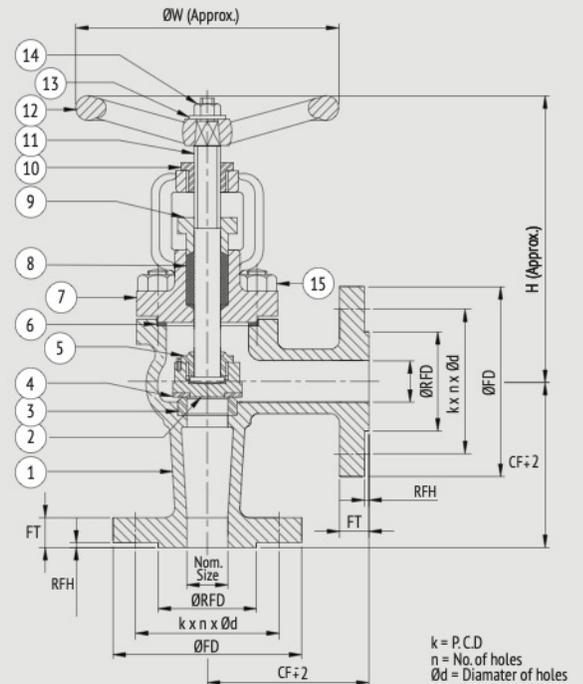
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IBR 86 to 93 Gr.A
2	Disc Holder	1	Cast Iron	IBR 86 to 93 Gr.A
3	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
4	Disc	1	Stainless Steel	ASTM A 276 Type 410
5	Disc Nut	1	Stainless Steel	ASTM A 276 Type 410
6	Gasket	1	C.A.F.	IS 2712
7	Bonnet	1	Cast Iron	IBR 86 to 93 Gr.A
8	Gland Packing	-	Graphited Asbestos	-
9	Gland	1	Cast Iron	IBR 86 to 93 Gr.A
10	Yoke Bush	1	Stainless Steel	ASTM A 582 Type 416
11	Stem	1	Stainless Steel	ASTM A 276 Type 410
12	Handwheel	1	Cast Iron	IS 210 Gr.FG200
13	Washer	1	Carbon Steel	-
14	Nut	1	Carbon Steel	-
15	Studs & Nuts	To Suit	Carbon Steel	-
16	T-Head Bolts & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	CF	H	ØW	ØFD	FT	ØRFD	RFH	k	n	Ød
15	90	150	100	114.3	14	46	2	82.6	4	17.5
20	95	150	100	114.3	16	56	2	82.6	4	17.5
25	100	160	100	115	16	65	3	87.3	4	17.5
32	105	170	125	140	18	76	3	98.4	4	17.5
40	115	220	160	150	18	84	3	104.8	4	17.5
50	125	260	200	165	20	99	3	127	4	17.5
65	145	280	200	185	20	118	3	146	8	17.5
80	155	300	250	203.2	22	132	3	165	8	17.5
100	175	350	250	228.8	24	156	3	190.5	8	17.5
125	200	400	315	279.4	26	184	3	235	8	22.3
150	225	430	400	304.8	26	211	3	260.4	12	22.3

**ATAM**

Cast Iron Horizontal Lift Check Valve Flanged Ends, PN-16

AV-253

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-16
Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Bolted Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Drilling as per BS-10 Table-H Raised Face (PN-16)
Test Pressure	Body: 24 kg/cm ² (Hyd.), Seat & Back Seat : 17.6 kg/cm ²
Max. Working Pressure	13 kg/cm ² (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

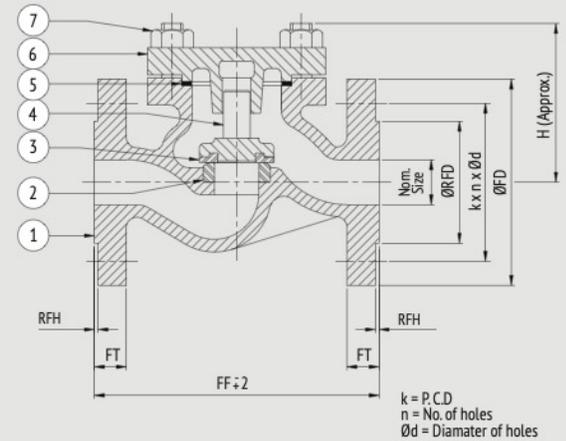
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IBR 86 to 93 Gr.A / IS 210 Gr. FG200
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
3	Disc Ring	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
4	Disc	1	Cast Iron	IBR 86 to 93 Gr.A / IS 210 Gr. FG200
5	Gasket	1	C.A.F.	-
6	Cover	1	Cast Iron	IBR 86 to 93 Gr.A / IS 210 Gr. FG200
7	Studs & Nuts	To Suit	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	H	ØFD	FT	ØRFD	RFH	k	n	Ød
15	130	75	114.3	14	-	-	82.6	4	17.5
20	150	75	114.3	16	-	-	82.6	4	17.5
25	160	84	115	16	65	3	87.3	4	17.5
32	180	98	140	18	76	3	98.4	4	17.5
40	200	106	150	18	84	3	104.8	4	17.5
50	230	114	165	20	99	3	127	4	17.5
65	290	128	185	20	118	3	146	8	17.5
80	310	166	203.2	22	132	3	165	8	17.5
100	350	172	228.8	24	-	-	190.5	8	17.5
125	400	205	279.4	26	-	-	235	8	22.3
150	480	220	304.8	26	-	-	260.4	12	22.3

**ATAM**

Cast Iron Horizontal Lift Check Valve Flanged Ends, PN-10

AV-253A

Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-10
Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Bolted Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Drilling as per BS-10 Table-H Raised Face (PN-10)
Test Pressure	Body: 16 kg/cm ² (Hyd.), Seat & Back Seat : 10 kg/cm ²
Max. Working Pressure	8 kg/cm ² (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

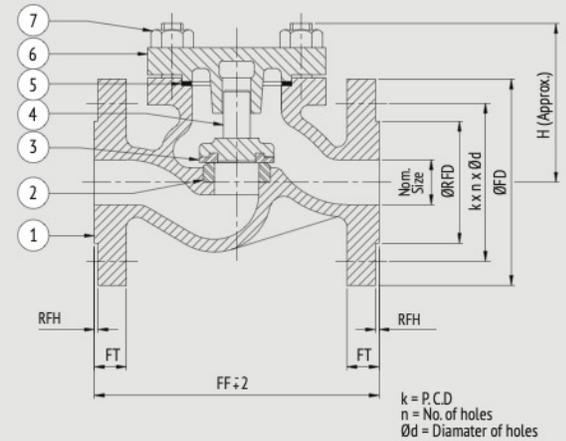
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IBR 86 to 93 Gr.A / IS 210 Gr. FG200
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
3	Disc Ring	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
4	Disc	1	Cast Iron	IBR 86 to 93 Gr.A / IS 210 Gr. FG200
5	Gasket	1	C.A.F.	-
6	Cover	1	Cast Iron	IBR 86 to 93 Gr.A / IS 210 Gr. FG200
7	Studs & Nuts	To Suit	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	H	ØFD	FT	ØRFD	RFH	k	n	Ød
200	600	250	368.3	26	-	-	324	12	22.3
250	730	280	431.5	28	-	-	381	12	22.3

**ATAM**

Cast Iron Horizontal Lift Check Valve Right Angle Pattern Flanged Ends, PN-16

AV-255

Type of Pattern	Right Angle Pattern
Testing Standard	BS EN 12266-Part 1
Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Bolted Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Drilling as per BS-10 Table-H Raised Face (PN-16)
Test Pressure	Body: 24 kg/cm ² (Hyd.), Seat & Back Seat : 17.6 kg/cm ²
Max. Working Pressure	13 kg/cm ² (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

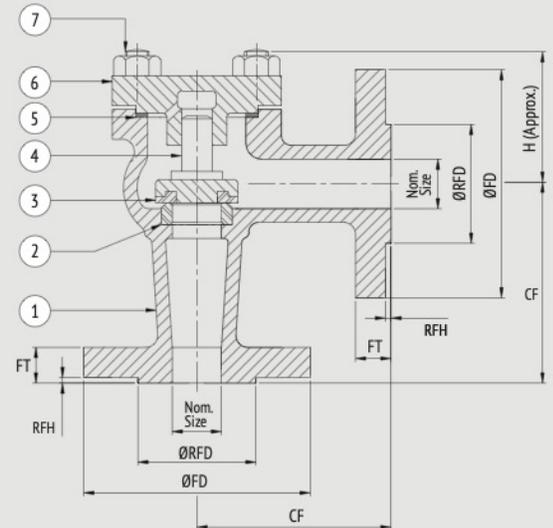
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IBR 86 to 93 Gr.A
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
3	Disc Ring	1	Stainless Steel	ASTM A 276 Type 410
4	Disc Holder	1	Cast Iron	IBR 86 to 93 Gr.A
5	Gasket	1	C.A.F.	-
6	Cover	1	Cast Iron	IBR 86 to 93 Gr.A
7	Studs & Nuts	To Suit	Carbon Steel	-



Sizes & Dimensions

Size (mm)	CF	H	ØFD	FT	ØRFD	RFH
15	90	60	114.3	14	46	2
20	95	60	114.3	16	56	2
25	100	62	115	16	65	3
32	105	70	140	18	76	3
40	115	75	150	18	84	3
50	125	80	165	20	99	3
65	145	100	185	20	118	3
80	155	110	203	22	132	3
100	175	120	228.6	24	156	3
125	200	130	279.4	26	184	3
150	225	150	304.8	26	211	3

Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Y-Type, Bolted Cover
Trim	Stainless Steel (AISI 304), Screen Having 1.5 mm Diameter Perforations
End Details	Flanged Ends as per BS-10 Table-F Flat Face (Drilled)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

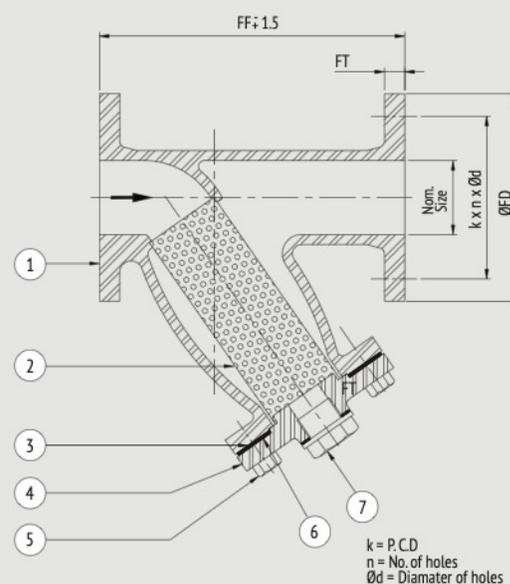
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	BS EN 1561 Gr. GJL 220 / IBR 86 to 93 Gr.A
2	Strainer	1	Stainless Steel	Type 304 (1mm Dia perforation)
3	Gasket	1	C.A.F.	IS 2712
4	Cover	1	Cast Iron	BS EN 1561 Gr. GJL 220 / IBR 86 to 93 Gr.A
5	Studs & Nuts	To Suit	Carbon Steel	-
6	Gasket	1	C.A.F.	-
7	Drain Plug	1	Cast Iron	BS EN 1561 Gr. GJL 220 / IBR 86 to 93 Gr.A



Sizes & Dimensions

Size (mm)	FF	ØFD	k	n	Ød	FT
25	162	120.7	87.3	4	17.5	12.7
40	206	139.7	104.8	4	17.5	15.9
50	210	165.1	127	4	17.5	19.1
65	248	184.2	146.1	8	17.5	19.1
80	270	203.2	165.1	8	17.5	19.1
100	381	228.6	190.5	8	17.5	22.3
125	416	279.4	235	8	22.3	25.4
150	451	304.8	260.4	12	22.3	25.4
200	523	368.3	323.9	12	22.3	28.6

**ATAM**

Cast Iron Y-Type Strainer Screwed Ends

AV-257

Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Y-Type, Screwed in Cover
Trim	Stainless Steel (AISI 304), Screen Having 1.5 mm Diameter Perforations
End Details	Screwed Female BSP Taper Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

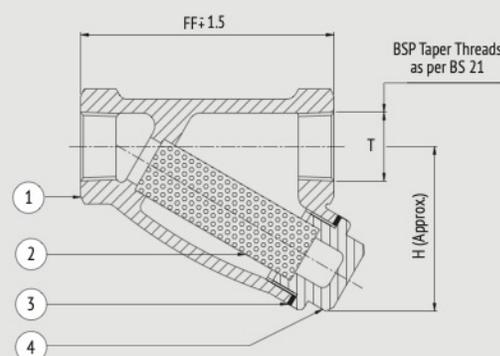
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.
1.1/2" & 2" available in Bolted Bonnet Design.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Iron	IBR 86 to 93 Gr.A
2	Screen	1	Stainless Steel	Type 304 (1mm Dia perforation)
3	Gasket	1	C.A.F.	-
4	Cover	1	Cast Iron	IBR 86 to 93 Gr.A



Sizes & Dimensions

Size (mm)	FF	H	T
15	79	62	1/2"
20	98	71	3/4"
25	136	90	1"
32	152	115	1.1/4"
40	181	142	1.1/2"
50	222	162	2"

**ATAM**

Cast Iron Accessible Feed Check Valve Flanged Ends

AV-258

Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS-10 Table-F Flat Face (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

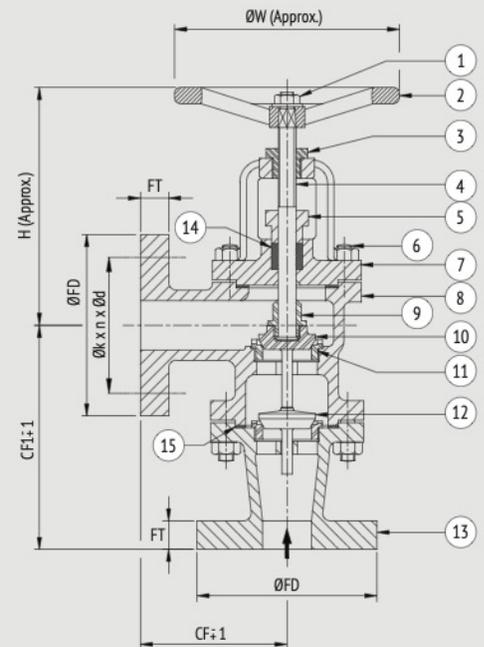
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Nut	1	Carbon Steel	-
2	Handwheel	1	Cast Iron / M.I.	IS 210 Gr. FG200
3	Yoke Bush	1	Stainless Steel	ASTM A 582 Type 416 / ASTM A 276 Type 410
4	Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Gland	1	Cast Iron	IBR 86 to 93 Gr.A / IS 210 Gr. FG200
6	Studs & Nuts	To Suit	Carbon Steel	-
7,8	Bonnet, Body	1	Cast Iron	IBR 86 to 93 Gr.A / IS 210 Gr. FG200
9	Disc Nut	1	Stainless Steel	ASTM A 276 Type 410
10	Disc	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
11	Body Seat Ring	2	Stainless Steel	ASTM A 276 Type 410 + Stellite
12	Check Valve Disc	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
13	Inlet Body	1	Cast Iron	IBR 86 to 93 Gr.A / IS 210 Gr. FG200
14	Gland Packing	-	Graphited Asbestos	-
15	Gasket	2	C.A.F.	-
16	T-Head Bolts & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	CF	CF1	H	ØW	ØFD	FT	Øk	n	Ød
25	116	152.5	190	175	120.7	12.7	87.3	4	17.5
32	108	167	200	175	133.4	15.9	98.4	4	17.5
40	114	173	210	175	139.7	15.9	104.8	4	17.5
50	127	203	230	175	165.1	19.1	127	4	17.5
65	152	238	275	250	184.2	19.1	146	8	17.5

**ATAM**

Cast Iron Stop Cum Non-Return Valve Straight / Right Angle Pattern Flanged Ends, PN-16

AV-259

Type of Pattern	Straight / Right Angle Pattern
Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Drilling as per BS-10 Table-H Raised Face (PN-16)
Test Pressure	Body: 24 kg/cm ² (Hyd.), Seat & Back Seat : 17.6 kg/cm ²
Max. Working Pressure	13 kg/cm ² (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

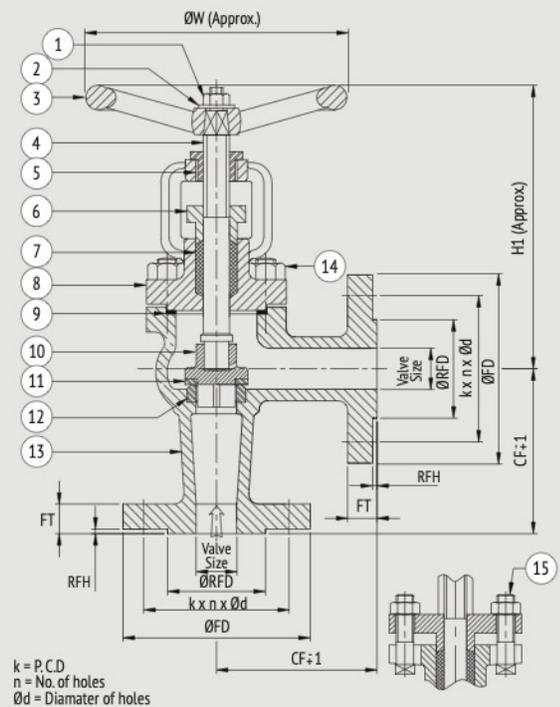
IBR

Note : Straight Pattern also available for all sizes.
Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Nut	1	Carbon Steel	-
2	Washer	1	Carbon Steel	-
3	Handwheel	1	Cast Iron	IS 210 Gr.FG200
4	Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Yoke Bush	1	Al. Bronze / Stainless Steel	BS 1982 Gr. CC 331G / ASTM A 582 Type 416
6	Gland Flange	1	Cast Iron	IBR 86 to 93 GrA
7	Gland Packing	-	Graphited Asbestos	-
8	Bonnet	1	Cast Iron	IBR 86 to 93 GrA
9	Gasket	1	C.A.F.	-
10	Disc	1	Cast Iron	IBR 86 to 93 GrA
11	Disc Ring	1	Stainless Steel	ASTM A 276 Type 410
12	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410
13	Body	1	Cast Iron	IBR 86 to 93 GrA
14	Studs & Nuts	To Suit	Carbon Steel	-
15	T Heads Bolts & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	CF	H1	ØW	ØFD	FT	ØRFD	RFH	k	n	Ød
15	90	150	100	114.3	14	46	2	82.6	4	17.5
20	95	150	100	114.3	16	56	2	82.6	4	17.5
25	100	160	100	115	16	65	3	87.3	4	17.5
32	105	170	165	140	18	76	3	98.4	4	17.5
40	115	220	165	150	18	84	3	104.8	4	17.5
50	125	260	165	165	20	99	3	127	4	17.5
65	145	280	200	185	20	118	3	146	8	17.5
80	155	300	200	203.2	22	132	3	165	8	17.5
100	175	350	250	228.6	24	156	3	190.5	8	17.5
125	200	400	250	279.4	26	184	3	235	8	22.3
150	225	430	315	304.8	26	211	3	260.4	12	22.3

**ATAM**

Cast Iron Vertical Inverted Bucket Type Steam Trap Screwed Ends

AV-260

Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	with Renewable Stainless Steel Working Parts
Trim	Valve & Ball Seat: 13% Cr. (SS 410) Bucket: Stainless Steel (Type 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

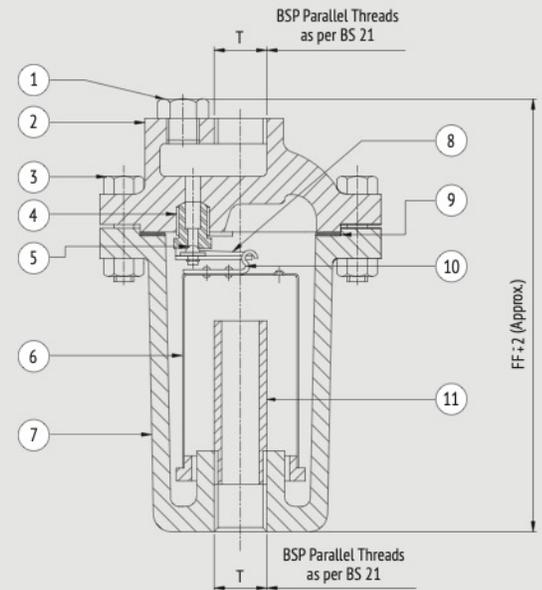
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Plug	1	Carbon Steel	-
2	Cover	1	Cast Iron	IBR 86 to 93 Gr.A
3	Bolts & Nuts	To Suit	Carbon Steel	-
4	Valve Seat	1	Stainless Steel	ASTM A 276 Type 410
5	Ball Seat	1	Stainless Steel	ASTM A 276 Type 410
6	Bucket	1	Stainless Steel	ASTM A 276 Type 410
7	Body	1	Cast Iron	IBR 86 to 93 Gr.A
8	Valve Lever	1	Stainless Steel	ASTM A 276 Type 410
9	Gasket	1	C.A.F.	IS 2712
10	Hook	1	Stainless Steel	ASTM A 276 Type 410
11	Syphon Pipe	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	T
15	175	1/2"
20	210	3/4"
25	275	1"
32	395	1.1/4"
40	395	1.1/2"
50	452	2"

**ATAM**

Cast Iron Single Post Hi-Lift Safety Valve Right Angle Pattern Flanged Ends

AV-261

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Spring Loaded, High Lift
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Inlet Flanged Ends as per BS-10 Table-F Flat Face (Undrilled), Outlet Flanged Ends as per BS-10 Table-D Flat Face (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

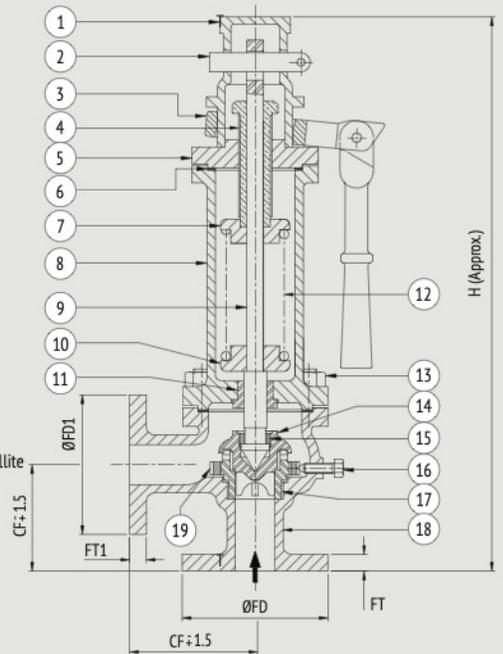
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1, 3, 5	Cap, Lever, Cover	1	Cast Iron	IBR 86 to 93 Gr.A
2	Cotter	1	Bronze	IBR 282 (a) (iv) Gr. B
4	Adjusting Screw	1	Bronze	IBR 282 (a) (iv) Gr. B
6	Gasket	2	C.A.F.	-
7, 10	Upper / Lower Spring Disc	1	Cast Iron	IBR 86 to 93 Gr.A
8	Spring Chamber	1	Cast Iron	IBR 86 to 93 Gr.A
9	Stem	1	Stainless Steel	ASTM A 276 Type 410
11	Bush	1	Bronze	IBR 282 (a) (iv) Gr. B
12	Spring	1	Carbon Steel	IBR 307 to 314
13	Bolts & Nuts	To Suit	Carbon Steel	-
14	Disc	1	Stainless Steel	ASTM A 217 Gr. CA15 / ASTM A 276 Type 410 + Stellite
15	Ring	1	Bronze	IBR 282 (a) (iv) Gr. B
16	Screw	1	Carbon Steel	-
17	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410 + Stellite
18	Body	1	Cast Iron	IBR 86 to 93 Gr.A
19	Adjusting Screw	1	Bronze	IBR 282 (a) (iv) Gr. B



Sizes & Dimensions

Size (mm)	CF	CF1	ØFD	FT	ØFD1	FT1	H
25	108	89	120.7	12.7	114.3	12.7	455
40	121	102	139.7	15.9	133.4	15.9	525
50	140	121	165.1	19.1	152.4	17.5	580



ATAM

Cast Iron Double Post Hi-Lift Safety Valve Flanged Ends

AV-262

Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Spring Loaded, High Lift
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Inlet Flanged Ends as per BS-10 Table-F Flat Face (Undrilled), Outlet Flanged Ends as per BS-10 Table-D Flat Face (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	220°C



- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

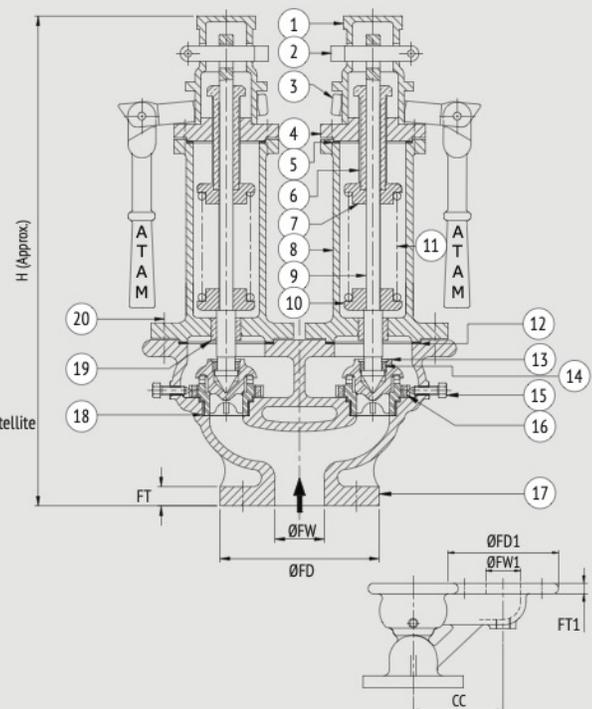
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1, 3, 4	Cap, Lever, Cover	2	Cast Iron	IBR 86 to 93 Gr.A
2	Cotter	2	Bronze	IBR 282 (a) (iv) Gr. B
5, 12	Gasket	2	C.A.F.	-
6	Adjusting Screw	2	Bronze	IBR 282 (a) (iv) Gr. B
7, 10	Upper / Lower Spring Disc	2	Cast Iron	IBR 86 to 93 Gr.A
8	Spring Chamber	2	Cast Iron	IBR 86 to 93 Gr.A
9	Stem	2	Stainless Steel	AISI 410
11	Spring	2	Spring Steel	IBR 307
13	Disc	2	Stainless Steel	ASTM A 217 Gr. CA15 / ASTM A 276 Type 410 + Stellite
14	Ring	2	Bronze	IBR 282 (a) (iv) Gr. B
15	Screw	2	Carbon Steel	-
16	Regulating Ring	2	Bronze	IBR 282 (a) (iv) Gr. B
17	Body	1	Cast Iron	IBR 86 to 93 Gr.A
18	Body Seat Ring	2	Stainless Steel	ASTM A 276 Type 410 + Stellite
19	Bush	2	Bronze	IBR 282 (a) (iv) Gr. B
20	Bolts & Nuts	To Suit	Carbon Steel	-



Sizes & Dimensions

Size (mm)	CC	ØFW	ØFD	FT	ØFW1	ØFD1	FT1	H
25	152.4	38.1	139.7	15.9	38.1	133.4	15.9	480
40	165	57.2	184.2	19.1	63.5	165.1	17.5	565
50	190.5	73	203.2	19.1	76.2	184.2	19.1	630

**ATAM**

Cast Iron Pilot Operated Pressure Reducing Valve Flanged Ends

AV-263

Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Pilot Operated, Outlet Pressure Range available 5/45, 40/100, 90/125 Psig
Type of Seat	Renewable Seat
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Flanged Ends as per BS-10 Table-F Flat Face (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

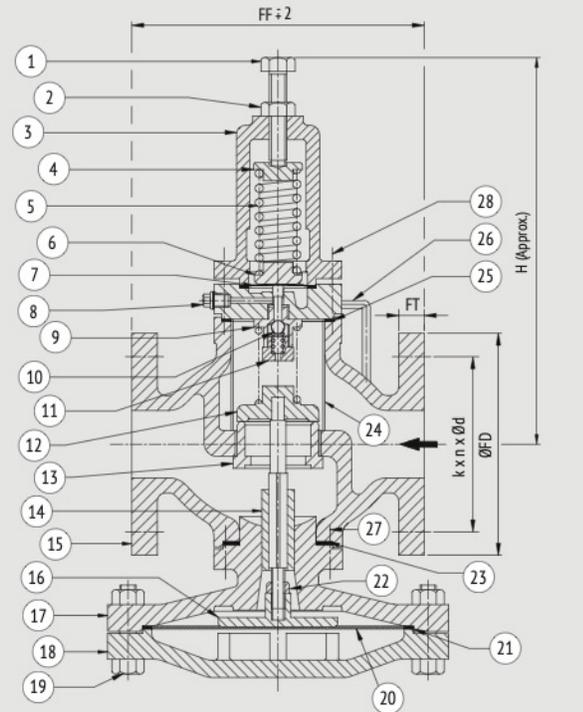
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84811000

Material Specification

S.No	Description	No.	Material	Specifications
1,2	Adjusting Screw, Locking Nut	1	Carbon Steel	-
3	Spring Housing	1	S.G.I.	EN 1563 Gr. GJS-400-15
4, 6	Spring Top Disc, Spring Bottom Disc	1	Stainless Steel	AISI 410
5, 7	Pressure Adjusting Spring, Diaphragm	1	Stainless Steel	AISI 304
8	Side Plug	1	Stainless Steel	AISI 410
9, 10	Pilot Valve Body, Ball	1	Stainless Steel	AISI 304
11	Pilot Valve Spring Retaining Check Nut	1	Stainless Steel	AISI 304
12, 13	Main Valve Disc, Body Seat Ring	1	Stainless Steel	AISI 410 + Stellite
14	Push Rod Guide Sleeve	1	Stainless Steel	AISI 410
15	Main Valve Body	1	Cast Iron	IBR 86 to 93 Gr.A
16	Main Diaphragm Disc	1	G.M. / S.S.	IBR 282 (a) (iv) Gr. B / AISI 410
17, 18	Half Upper Cover, Half Lower Cover	1	Cast Iron	IBR 86 to 93 Gr.A
19	Bolts & Nuts	To Suit	Carbon Steel	-
20	Diaphragm	1	Stainless Steel	AISI 304
21, 23	Gasket	1	C.A.F.	IS 2712
22	Push Rod Lock Nut	1	Stainless Steel	AISI 410
24	Strainer Screen	1	Stainless Steel	AISI 304
25	Gasket	1	C.A.F.	-
26	By Pass Assy.	-	-	-
27, 28	Studs & Nuts	To Suit	Carbon Steel	-



k = P.C.D
n = No. of holes
Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	H	ØFD	FT	k	n	Ød
25	165	215	120.7	12.7	87.3	4	17.5
40	203	245	139.7	15.9	104.8	4	17.5
50	248	295	165.1	19.1	127	4	17.5

**ATAM**

Cast Iron Ball Float Steam Trap Screwed Ends

AV-269

Body Material Cum Standard	Cast Iron (IBR 86 to 93 Gr. A)
Product Description	Horizontal Type
Trim	Stainless Steel (AISI 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	220°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

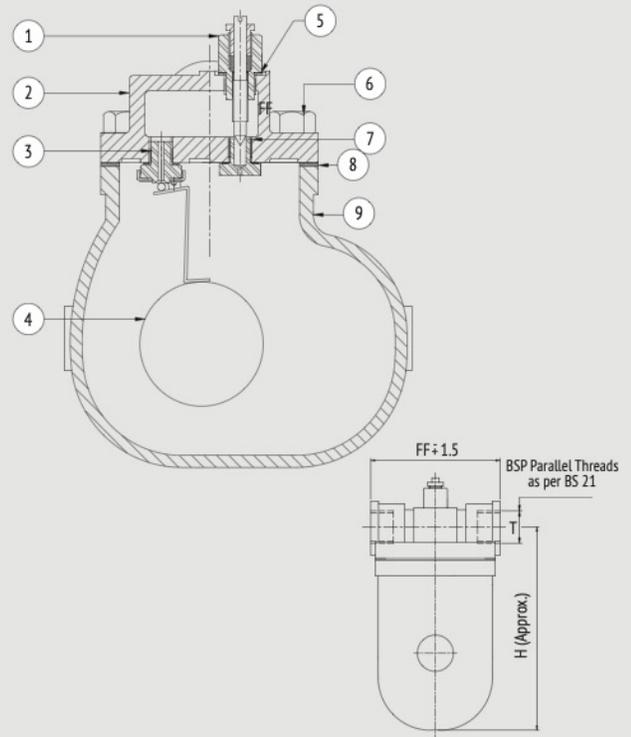
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	SLR Assembly	1	Stainless Steel	AISI 304
2	Cover	1	Cast Iron	IBR 86 to 93 Gr.A
3	Seat Assembly	1	Stainless Steel	AISI 304
4	Ball Float	1	Stainless Steel	AISI 304
5	Washer	1	Copper	-
6	Bolts & Nuts	4 Each	Carbon Steel	-
7	Nipple	1	Stainless Steel	AISI 410
8	Gasket	1	C.A.F.	-
9	Body	1	Cast Iron	IBR 86 to 93 Gr.A



Sizes & Dimensions

Size (mm)	FF	H	T
15	131	157	1/2"
20	131	162	3/4"
25	133	200	1"
40	272	250	1.1/2"
50	301	272	2"

**ATAM**

Cast Carbon Steel Piston Valve Flanged Ends, PN-40

AV-271

Product Standard	BS EN-13709
Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-40
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Piston
Trim	Valve Rings: Atam Standard, Spacer & Piston: 13% Cr. (SS 410)
End Details	Flanged Ends as per BS EN 1092-1 PN-40 Raised Face (Drilled)
Test Pressure	Body: 60 Bar (Hyd.), Seat: 44 Bar (Hyd.)
Max. Working Temperature	400°C
Application Medium	Super Heated Steam, Condensate, Thermic Fluids, Hydro Carbons, Chemicals



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

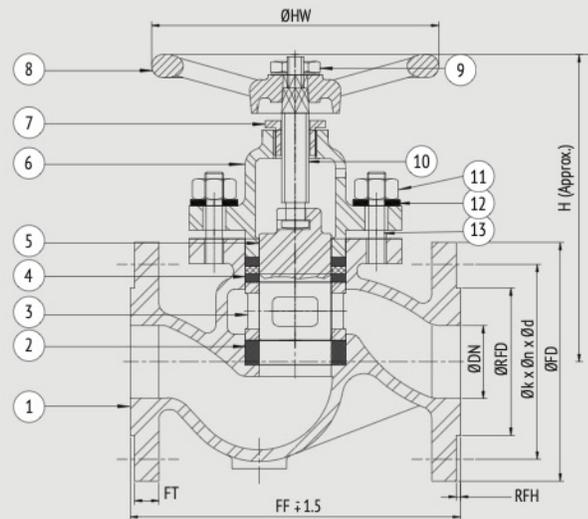
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HSN Code - 84818030

Test Certificate in Form III-C as per IBR is furnished with every supply.
Balanced piston arrangement is available in sizes 65mm & above, to address high torque.
Contact for other service applications.

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Steel	ASTM A 216 Gr. WCB
2	Lower Valve Ring	1	Atam Standard	S.S. Re-inforced Graphite
3	Spacer	1	Stainless Steel	ASTM A 217 Gr. CA 15
4	Upper Valve Ring	1	Atam Standard	S.S. Re-inforced Graphite
5	Piston*	1	Stainless Steel	ASTM A 276 TP 410
6	Bonnet	1	Cast Steel	ASTM A 216 Gr. WCB
7	Stem Nut	1	Aluminium Bronze	BS 1982 Gr. CC 331G
8	Handwheel	1	Cast Iron / Mild Iron	GG 20/FG 200/MI
9	Handwheel Nut	1	Carbon Steel	-
10	Stem	1	Stainless Steel	ASTM A 276 TP 410
11	Nut	4	Carbon Steel	ASTM A 194 Gr. 2H
12	Belleville Washers	4	Carbon Steel	-
13	Stud & Nut	4	Alloy Steel & H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H



* To address high torque, balanced piston arrangement in size 65mm and above

Sizes & Dimensions

øDN	FF	H	øHW	øFD	FT	RFD	RFH	øK	n	ød
25	160	154	140	115	16	68	2	85	4	14
40	200	185	200	150	15	88	3	110	4	18
50	230	210	200	165	17	102	3	125	4	18
65	290	320	250	185	19	122	3	145	8	18
80	310	330	250	200	21	138	3	160	8	18
100	350	390	280	235	21	162	3	190	8	22

Product Standard	ASME B16.34
Testing Standard	API-598
Pressure / Class Rating	Class-150
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Piston
Trim	Valve Rings: Atam Standard, Spacer & Piston: 13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-150 Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C
Application Medium	Super Heated Steam, Condensate, Thermic Fluids, Hydro Carbons, Chemicals



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

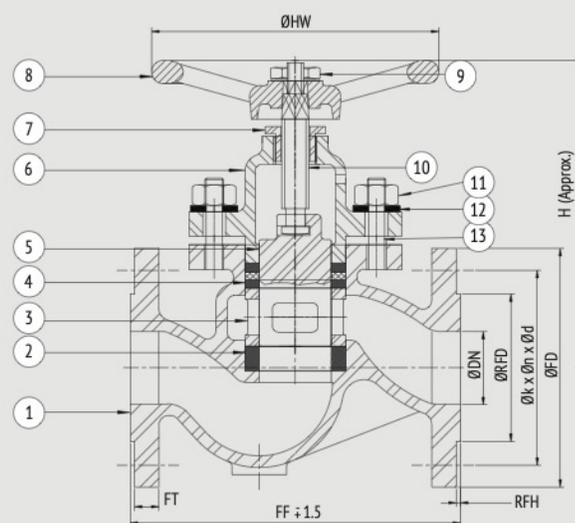
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Test Certificate in Form III-C as per IBR is furnished with every supply.
Balanced piston arrangement is available in sizes 65mm & above, to address high torque.
Contact for other service applications.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Steel	ASTM A 216 Gr. WCB
2	Lower Valve Ring	1	Atam Standard	S.S. Re-inforced Graphite
3	Spacer	1	Stainless Steel	ASTM A 217 Gr. CA 15
4	Upper Valve Ring	1	Atam Standard	S.S. Re-inforced Graphite
5	Piston*	1	Stainless Steel	ASTM A 276 TP 410
6	Bonnet	1	Cast Steel	ASTM A 216 Gr. WCB
7	Stem Nut	1	Aluminium Bronze	BS 1982 Gr. CC 331G
8	Handwheel	1	Cast Iron / Mild Iron	GG 20/FG 200/MI
9	Handwheel Nut	1	Carbon Steel	-
10	Stem	1	Stainless Steel	ASTM A 276 TP 410
11	Nut	4	Carbon Steel	ASTM A 194 Gr. 2H
12	Belleville Washers	4	Carbon Steel	-
13	Stud & Nut	4	Alloy Steel & H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H



* To address high torque, balanced piston arrangement in size 65mm and above

Sizes & Dimensions

øDN	FF	H	øHW	øFD	FT	RFD	RFH	øK	n	ød
25	127	154	140	110	9.6	51	2	79.4	4	16
40	165	185	200	125	12.7	73	2	98.4	4	16
50	203	210	200	150	14.3	92	2	121	4	19
65	216	320	250	180	15.9	105	2	139.7	4	19
80	241	330	250	190	17.5	127	2	152.4	4	19
100	292	390	280	230	22.3	157.2	2	190.5	8	19

Product Standard	ASME B16.34
Testing Standard	API-598
Pressure / Class Rating	Class-300
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Piston
Trim	Valve Rings: Atam Standard, Spacer & Piston: 13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-300 Raised Face (Drilled)
Test Pressure	Body: 77 Bar (Hyd.), Seat: 57 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C
Application Medium	Super Heated Steam, Condensate, Thermic Fluids, Hydro Carbons, Chemicals



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

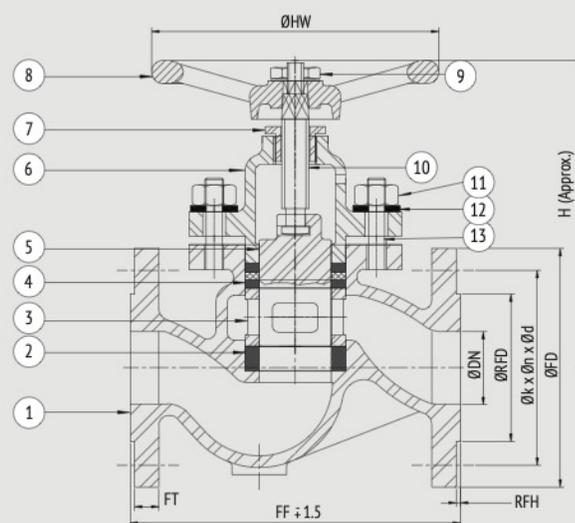
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HSN Code - 84818030

Test Certificate in Form III-C as per IBR is furnished with every supply.
Balanced piston arrangement is available in sizes 65mm & above, to address high torque.
Contact for other service applications.

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Steel	ASTM A 216 Gr. WCB
2	Lower Valve Ring	1	Atam Standard	S.S. Re-inforced Graphite
3	Spacer	1	Stainless Steel	ASTM A 217 Gr. CA 15
4	Upper Valve Ring	1	Atam Standard	S.S. Re-inforced Graphite
5	Piston*	1	Stainless Steel	ASTM A 276 TP 410
6	Bonnet	1	Cast Steel	ASTM A 216 Gr. WCB
7	Stem Nut	1	Aluminium Bronze	BS 1982 Gr. CC 331G
8	Handwheel	1	Cast Iron / Mild Iron	GG 20/FG 200/MI
9	Handwheel Nut	1	Carbon Steel	-
10	Stem	1	Stainless Steel	ASTM A 276 TP 410
11	Nut	4	Carbon Steel	ASTM A 194 Gr. 2H
12	Belleville Washers	4	Carbon Steel	-
13	Stud & Nut	4	Alloy Steel & H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H



* To address high torque, balanced piston arrangement in size 65mm and above

Sizes & Dimensions

øDN	FF	H	øHW	øFD	FT	RFD	RFH	øK	n	ød
25	203	154	140	125	16	51	2	89	4	19
40	229	185	200	155	19	73	2	114.3	4	22
50	267	210	200	165	20.7	92	2	127	8	19
65	292	320	250	190	24	105	2	149.2	8	22
80	318	330	250	210	27	127	2	168.3	8	22
100	356	390	280	255	30.2	157.2	2	200	8	22

Product Standard	BS EN-13709
Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-40
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS EN 1092-1 PN-40 Raised Face (Drilled) Drilling as per BS-10 Table-H
Test Pressure	Body: 60 Bar (Hyd.), Seat & Back Seat: 44 Bar (Hyd.)
Max. Working Temperature	400°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

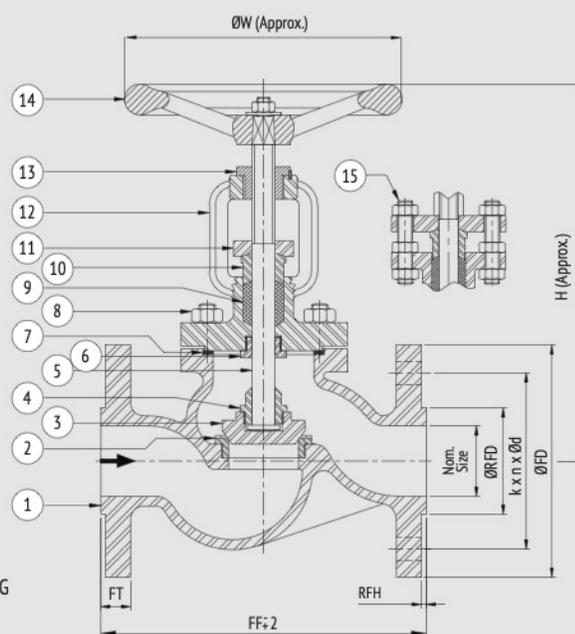
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
3	Disc	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
4	Disc Nut	1	Stainless Steel	ASTM A 276 Type 410
5	Stem	1	Stainless Steel	ASTM A 276 Type 410
6	Back Seat Bush	1	Stainless Steel	ASTM A 276 Type 410
7	Gasket	1	Non Asbestos	-
8	Studs & Nuts	To Suit	Carbon Steel	-
9	Packing	-	Flexible Graphite	-
10	Gland	1	Stainless Steel	ASTM A 276 Type 410
11	Gland Flange	1	C.C.S.	ASTM A 216 Gr. WCB
12	Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
13	Yoke Bush	1	Stainless Steel / AL. Bronze	ASTM A 582 Type 416 / BS EN 1982 Gr. CC331G
14	handwheel	1	C.I. / M.I.	-
15	Studs & Nuts	2 & 6	Carbon Steel	-



k = P.C.D
n = No. of holes
Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	ØFD	ØRFD	RFH	k	n	Ød	FT	ØW	H
15	130	95	45	2	65	04	14	16	125	215
20	150	115	58	2	82.6	04	17.5	18	125	224
25	160	115	68	2	87.3	04	17.5	18	160	240
32	180	140	78	2	98.4	04	17.5	18	160	297
40	200	150	88	3	104.8	04	17.5	18	200	322
50	230	165	102	3	127	04	17.5	20	200	348
65	290	185	122	3	146.1	08	17.5	22	250	412
80	310	200	138	3	165.1	08	17.5	24	250	450
100	350	235	162	3	190.5	08	17.5	24	315	529
125	400	280	188	3	235	08	22.3	26	315	600
150	480	300	218	3	260.4	12	22.3	28	400	690
200	600	375	285	3	324	12	22.3	34	450	832
250	730	450	345	3	381	12	25.4	38	450	-

Product Standard	BS EN-13709
Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-40
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS EN 1092-1 PN-40 Raised Face (Drilled)
	Drilling as per BS-10 Table-H
Test Pressure	Body: 60 Bar (Hyd.), Seat: 44 Bar (Hyd.)
Max. Working Temperature	400°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

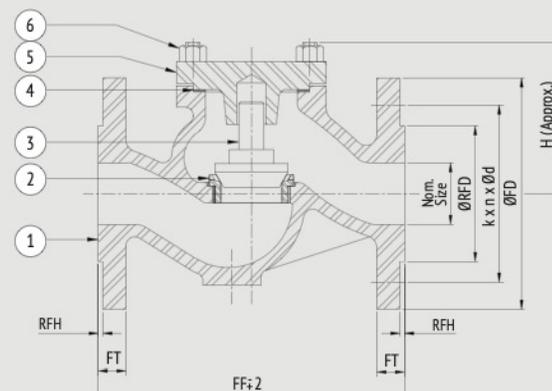
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	S.S./ F.S.S./ C.A.S.	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15 ASTM A 182 Gr. F6A
3	Disc	1	Stainless Steel	ASTM A 276 Type 410
4	Gasket	1	C.A.F./ Non Asbestos Fibre	-
5	Cover	1	C.C.S.	ASTM A 216 Gr. WCB
6	Studs & Nuts	To Suit	Carbon Steel	-



k = P.C.D
 n = No. of holes
 Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	H	ØFD	FT	ØRFD	RFH	k	n	Ød
15	130	75	95	16	45	2	65	4	14
20	150	80	115	18	58	2	82.6	4	17.5
25	160	88	115	18	68	2	87.3	4	17.5
32	180	96	140	18	78	2	98.4	4	17.5
40	200	100	150	18	88	3	104.8	4	17.5
50	230	116	165	20	102	3	127	4	17.5
65	290	140	185	22	122	3	146.1	8	17.5
80	310	152	200	24	138	3	165.1	8	17.5
100	350	178	235	24	162	3	190.5	8	17.5
125	400	215	280	26	188	3	235	8	22.3
150	480	260	300	28	218	3	260.4	12	22.3
200	600	335	375	34	285	3	324	12	22.3
250	730	350	450	38	345	3	381	12	25.4

**ATAM**

Cast Carbon Steel Parallel Slide Blow Off Valve Flanged Ends (Table-J)

AV-278

Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Rack & Pinion Operated, Supplied with Operating Key
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Flanged Ends as per BS-10 Table-J Flat Face (Undrilled)
Test Pressure	Body: 700 Psig (Hyd.)
Max. Working Pressure	350 Psig (Steam)
Max. Working Temperature	400°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

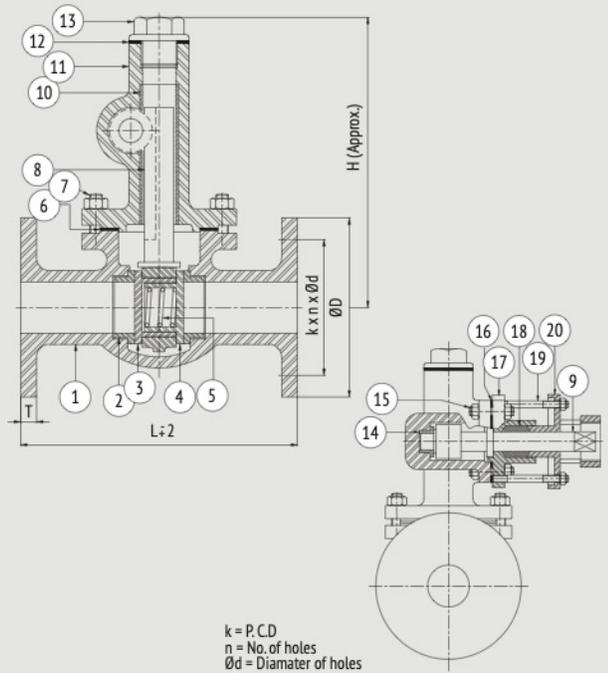
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S	ASTM A 216 Gr. WCB
2	Body Seat Ring	2	Stainless Steel	AISI 410 + Stellite
3, 4	Female Disc, Male Disc	1	Stainless Steel	AISI 410 + Stellite
5	Spring	1	Carbon Steel	IBR 307
6	Gasket	1	SP, WD, SS 304 with Graphoil Filler	
7, 15	Studs & Nuts	To Suit	Carbon Steel	-
8	Rack	1	S.S. / C.A.S.	AISI 410 / ASTM A 217 Gr. CA15
9	Pinion	1	S.S. / C.A.S.	AISI 410 / ASTM A 217 Gr. CA15
10, 14	Bush	1	Bronze	IBR 282 (a) Gr. B
11	Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
12, 16	Gasket	1	Non Asbestos	-
13	Plug	1	Stainless Steel	AISI 410
17	Stuffing Box	1	C.C.S.	ASTM A 216 Gr. WCB
18	Gland Packing	-	Graphoil	-
19	Studs & Nuts	2 Each	Carbon Steel	-
20	Gland Flange	1	C.C.S.	ASTM A 216 Gr. WCB



Sizes & Dimensions

Size (mm)	L	H	ØD	T	ØK	n	Ød
25	203	225	120.7	19.1	87.3	4	17.5
32	242	260	133.4	19.1	98.4	4	17.5
40	267	280	139.7	22.3	104.8	4	17.5
50	305	312	165.1	25.4	127	4	22.3
65	330	320	184.2	25.4	146.1	8	22.3

**ATAM**

Cast Carbon Steel Parallel Slide Blow Off Valve Flanged Ends, Class-300

AV-278A

Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Rack & Pinion Operated, Supplied with Operating Key
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Flanged Ends as per ASME B16.5 Class-300 Raised Face (Drilled)
Test Pressure	Body: 700 Psig (Hyd.)
Max. Working Pressure	350 Psig (Steam)
Max. Working Temperature	400°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

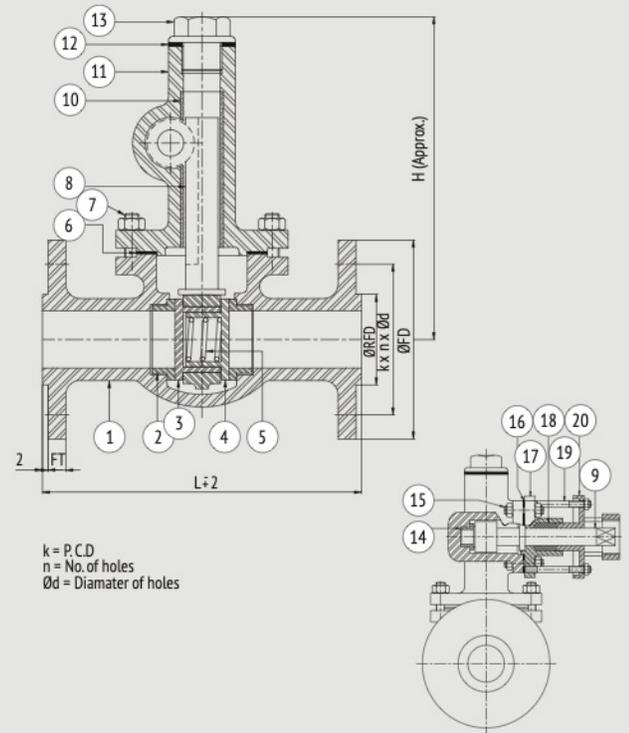
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S	ASTM A 216 Gr. WCB
2	Body Seat Ring	2	Stainless Steel	AISI 410 + Stellite
3, 4	Female Disc, Male Disc	1	Stainless Steel	AISI 410 + Stellite
5	Spring	1	Carbon Steel	IBR 307
6	Gasket	1	SP, WD, SS 304 with Graphoil Filler	
7, 15	Studs & Nuts	To Suit	Carbon Steel	-
8	Rack	1	S.S. / C.A.S.	AISI 410 / ASTM A 217 Gr. CA15
9	Pinion	1	S.S. / C.A.S.	AISI 410 / ASTM A 217 Gr. CA15
10, 14	Bush	1	Bronze	IBR 282 (a) Gr. B
11	Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
12, 16	Gasket	1	Non Asbestos	-
13	Plug	1	Stainless Steel	AISI 410
17	Stuffing Box	1	C.C.S.	ASTM A 216 Gr. WCB
18	Gland Packing	-	Graphoil	-
19	Studs & Nuts	2 Each	Carbon Steel	-
20	Gland Flange	1	C.C.S.	ASTM A 216 Gr. WCB



Sizes & Dimensions

Size (mm)	L	H	ØD	FT	ØK	n	Ød	ØRFD
25	203	225	125	15.9	88.9	4	19.1	50.8
32	242	260	135	17.5	98.4	4	19.1	63.5
40	267	280	155	19.1	114.3	4	22.3	73
50	305	312	165	20.7	127	8	19.1	92.1
65	330	320	190	23.9	149.2	8	22.3	104.8

**ATAM**

Cast Carbon Steel Y-Type Strainer Flanged Ends

AV-279

Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Y-Type, Bolted Cover
Trim	SS (AISI 304) Screen having 1.5 mm Diameter Perforations
End Details	Flanged Ends as per BS-10 Table-J Flat Face (Undrilled)
Test Pressure	Body: 700 Psig (Hyd.)
Max. Working Pressure	350 Psig (Steam)
Max. Working Temperature	400°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

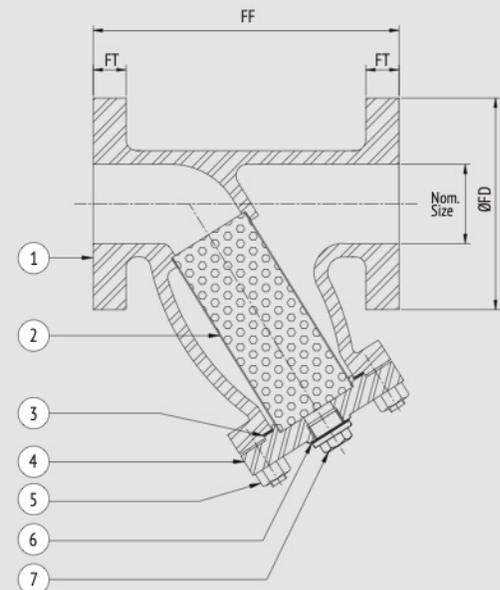
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S	ASTM A 216 Gr. WCB
2	Screen	1	Stainless Steel	AISI 304 (1mm Perforation)
3	Gasket	1	C.A.F.	BS 1832
4	Cover	1	C.C.S	ASTM A216 Gr. WCB
5	Studs & Nuts	To Suit	Carbon Steel	-
6	Gasket	1	C.A.F.	BS 1832
7	Drain Plug	1	Stainless Steel	ASTM A216 Type 410



Sizes & Dimensions

Size (mm)	FF	ØFD	FT
25	181 ±2	120.7	19.1
40	260 ±2	139.7	22.3
50	277 ±2	165.1	25.4
65	277 ±2	184.2	25.4
80	296 ±2	203.2	31.8
100	403 ±3	228.6	34.9
125	429 ±3	279.4	38.1
150	476 ±4	304.8	38.1
200	670 ±5	368.3	41.3

**ATAM**

Cast Carbon Steel Globe Steam Stop Valve Right Angle Pattern Flanged Ends, PN-40

AV-280

Type of Pattern	Right Angle Pattern
Product Standard	BS EN-13709
Testing Standard	BS EN 12266-Part 1
Pressure / Class Rating	PN-40
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr.WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS EN 1092-1 PN-40 Raised Face (Drilled)
Test Pressure	Body: 60 Bar (Hyd.), Seat: 44 Bar (Hyd.)
Max. Working Temperature	400°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

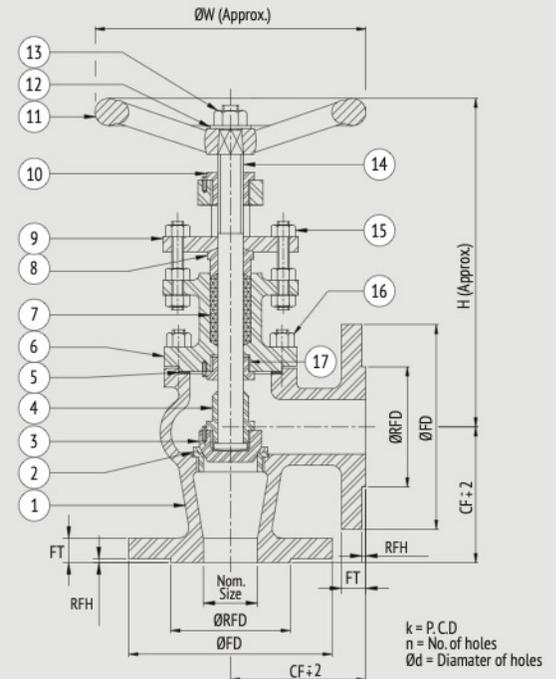
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S	ASTM A 216 Gr.WCB
2, 3	Body Seat Ring, Disc	1	Stainless Steel	ASTM A 276 Type 410 / A182 Gr.F6a / A217 Gr.CA15
4	Disc Nut	1	Stainless Steel	ASTM A 276 Type 410
5	Gasket	1	C.A.F.	-
6	Bonnet	1	C.C.S	ASTM A216 Gr.WCB
7	Gland Packing	-	Graphited Asbestos	-
8	Gland Follower	1	Stainless Steel	ASTM A 276 Type 410
9	Gland Flange	1	C.C.S	ASTM A 216 Gr.WCB
10	Yoke Bush	1	Stainless Steel	ASTM A582 Type 416 / A276 Type 410
11	Handwheel	1	C.I. / M.I.	IS 210 Gr.FG200
12	Washer	1	Carbon Steel	-
13	Nut	1	Carbon Steel	-
14	Stem	1	Stainless Steel	ASTM A 276 Type 410
15	Studs & Nuts	2 & 6	Carbon Steel	-
16	Studs & Nuts	To Suit	Carbon Steel	-
17	Back Seat Bushing	1	Stainless Steel	ASTM A 276 Type 410



Sizes & Dimensions

Size (mm)	CF	H	ØW	ØFD	FT	ØRFD	RFH	Øk	n	Ød
25	100	210	160	115	18	68	2	85	4	14
32	105	245	160	140	18	78	2	100	4	18
40	115	275	200	150	18	88	3	110	4	18
50	125	275	200	165	20	102	3	125	4	18
65	145	305	250	185	22	122	3	145	8	18
80	155	305	250	200	24	138	3	160	8	18
100	175	360	315	235	24	162	3	190	8	22
125	200	410	315	270	26	188	3	220	8	26
150	225	505	400	300	28	218	3	250	8	26



ATAM

Cast Carbon Steel Stop Cum Non Return Valve Straight / Right Angle Pattern, Flanged Ends, PN-40

AV-280A

Type of Pattern	Straight / Right Angle Pattern
Product Standard	BS EN-13709
Testing Standard	BS EN 12266-Part 1
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per BS EN 1092-1 PN-40 Raised Face (Drilled)
Test Pressure	Body: 60 Bar (Hyd.), Seat: 44 Bar (Hyd.)
Max. Working Temperature	400°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

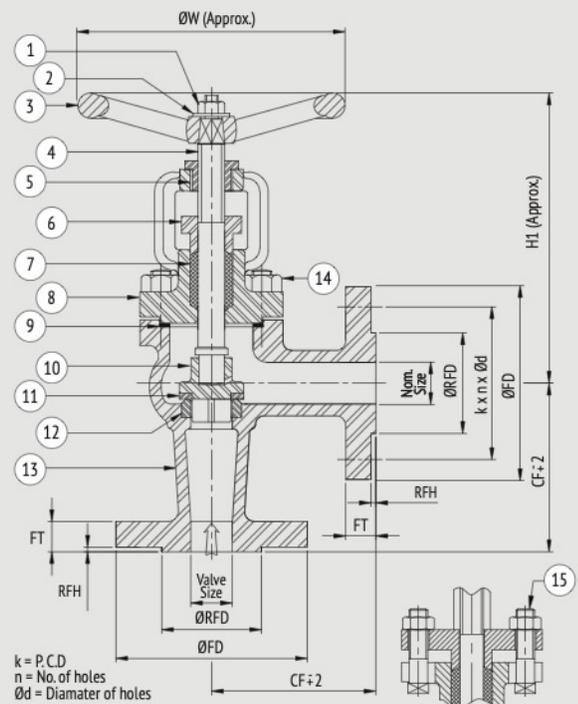
IBR

Note : Straight Pattern also available for all sizes.
Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Nut	1	Carbon Steel	-
2	Washer	1	Carbon Steel	-
3	Handwheel	1	C.I./M.I.	-
4	Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Yoke Bush	1	Al Bronze / S.S.	BS 1982 Gr. CC331G / ASTM A 582 Type 416
6	Gland Flange	1	C.C.S	ASTM A216 Gr. WCB
7	Gland Packing	-	Graphited Asbestos	-
8	Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
9	Gasket	1	CAF	-
10	Disc	1	S.S./ C.C.S	ASTM A276 Type 410 / ASTM A216 Gr. WCB
11	Disc Ring	1	S.S./ Stainless Steel	ASTM A276 Type 410 / ASTM A217 Gr. CA15
12	Body Seat Ring	1	Stainless Steel	ASTM A276 Type 410
13	Body	1	C.C.S.	ASTM A 276 Type 410
14	Studs & Nuts	To Suit	Carbon Steel	-
15	T-Head Bolts & Nuts	2 Each	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	CF	H1	ØW	ØFD	ØRFD	RFH	K	n	Ød	FT
25	160	100	210	160	115	68	2	85	4	14	18
32	180	105	245	160	140	78	2	100	4	18	18
40	200	115	275	200	150	88	3	110	4	18	18
50	230	125	275	200	165	102	3	125	4	18	20
65	290	145	305	250	185	122	3	145	8	18	22
80	310	155	305	250	200	138	3	160	8	18	24
100	350	175	360	315	235	162	3	190	8	22	24
125	400	200	410	315	270	188	3	220	8	26	26
150	480	225	505	400	300	218	3	250	8	26	28

**ATAM**

Cast Carbon Steel Sleeve Packed Water Level Gauge Flanged Ends

AV-281

Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	With Automatic Shut Off Device in the Water Arm, Available for Left Hand or Right Hand Mounting
End Details	Flanged Ends as per BS-10 Table-J Flat Face (Undrilled)
Test Pressure	Body: 700 Psig (Hyd.)
Max. Working Pressure	350 Psig (Steam)
Max. Working Temperature	400°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

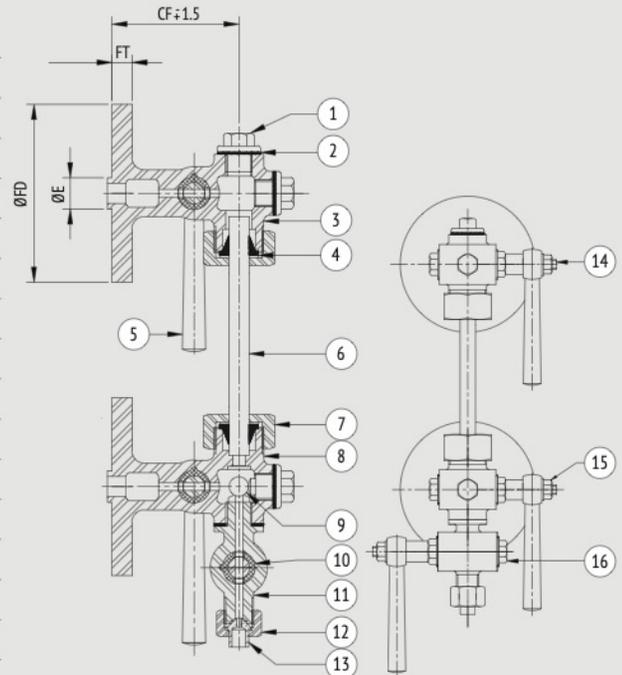
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Plug	3	Carbon Steel	-
2	Gasket	3	C.A.F.	-
3	Upper Arm	1	C.C.S.	ASTM A 216 Gr. WCB
4	Cone	2	Rubber	-
5	Handle	3	M.I.	-
6	Glass Tube	1	Glass	-
7	Nut	2	Carbon Steel	-
8	Lower Arm	1	C.C.S.	ASTM A 216 Gr. WCB
9	Ball	1	Stainless Steel	AISI 304
10	Sleeve	3	Moulded Asbestos	-
11	Drain Valve Body	1	C.C.S	ASTM A 216 Gr. WCB
12	Union Nut	1	Carbon Steel	-
13	Nipple	1	Stainless Steel	ASTM A 276 Type 410
14	Stem	3	Stainless Steel	ASTM A 276 Type 410
15	Nut	3	Carbon Steel	-
16	Bottom Nut	3	Carbon Steel	-



Sizes & Dimensions

Size (mm)	CF	ØFD	FT	ØE
20	95	114.3	15.9	25.4

**ATAM**

Cast Carbon Steel Accessible Feed Check Valve Flanged Ends

AV-282

Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Flanged Ends as per BS-10 Table-J Flat Face (Undrilled)
Test Pressure	Body: 700 Psig (Hyd.)
Max. Working Pressure	350 Psig (Steam)
Max. Working Temperature	400°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

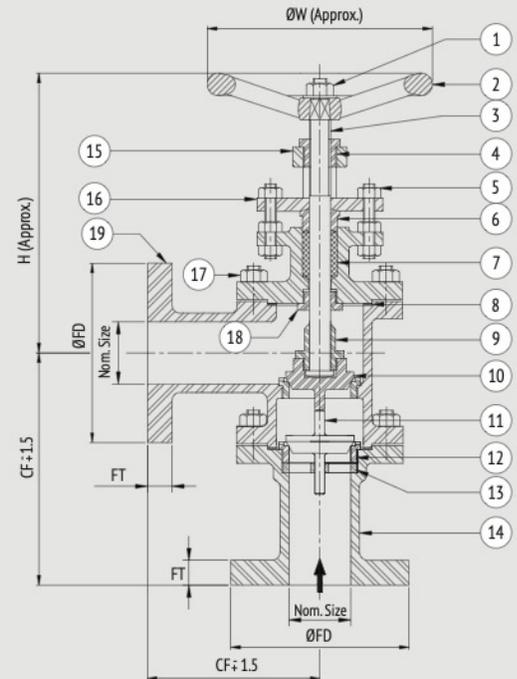
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Nut	1	Carbon Steel	-
2	Handwheel	1	C.I./M.I.	IS 210 Gr. FG200 / -
4	Yoke Bush	1	Stainless Steel	ASTM A 582 Type 416 / 276 Type 410
5	Gland Studs & Nuts	2 & 6	Carbon Steel	-
6, 3	Gland Follower, Stem	1	Stainless Steel	ASTM A 276 Type 410
7	Gland Packing	-	Graphited Asbestos	-
8	Gasket	2	C.A.F.	-
9	Disc Nut	1	Stainless Steel	ASTM A 276 Type 410
10, 11	Disc, Check Valve Disc	1	Stainless Steel	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
12	Body Seat Ring	2	Stainless Steel	ASTM A 276 Type 410 + Stellite
13	Disc Guide	1	Bronze	IBR 282 (a) (iv) Gr. B
14	Inlet Body	1	C.C.S.	IBR 73 to 80 / ASTM A 216 Gr. WCB
15, 16	Bonnet, Gland Flange	1	C.C.S.	IBR 73 to 80 / ASTM A 216 Gr. WCB
17	Studs & Nuts	To Suit	Carbon Steel	-
18	Back Seat Bush	1	Stainless Steel	ASTM A 276 Type 410
19	Body	1	C.C.S.	IBR 73 to 80 / ASTM A 216 Gr. WCB



Sizes & Dimensions

Size (mm)	CF	CF1	H	ØW	ØFD	FT
25	127	165	225	160	120.7	19.1
40	140	190	235	200	139.7	22.3
50	152	215	255	200	165.1	25.4
65	178	240	285	250	184.2	25.4
80	203	265	315	250	203.2	31.8



ATAM

Cast Carbon Steel Single Post Hi-Lift Safety Valve Flanged Ends

AV-283

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Spring Loaded, High Lift
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Inlet Flanged Ends as per BS-10 Table-H Flat Face (Undrilled), Outlet Flanged Ends as per BS-10 Table-D Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	400°C
Max. Set Pressure	250 Psig (Steam)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

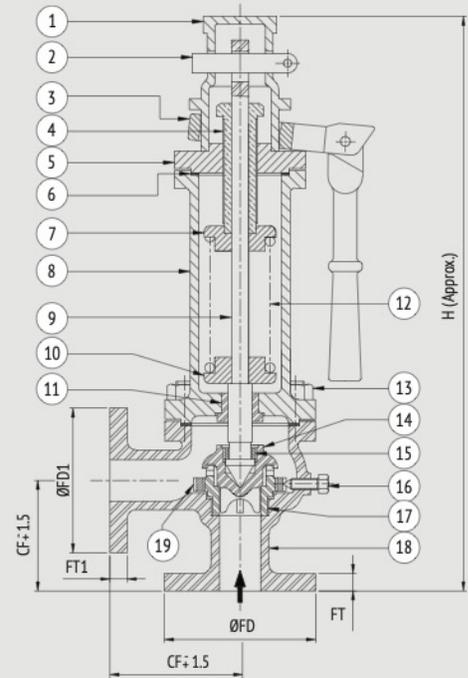
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1, 3, 5	Cap, Lever, Cover	1	Cast Iron	IBR 86 to 93 Gr. A
2	Cotter	1	Bronze	IBR 282 (a) (iv) Gr. B
4	Adjusting Screw	1	Stainless Steel	AISI 410
6	Gasket	2	C.A.F.	-
7	Upper Spring Disc	1	Cast Iron	IBR 86 to 93 Gr. A
8	Spring Chamber	1	Cast Iron	IBR 86 to 93 Gr. A
9	Stem	1	Stainless Steel	ASTM A 276 Type 410
10	Lower Spring Disc	1	Cast Iron	IBR 86 to 93 Gr. A
11, 15	Bush, Ring	1	Bronze	IBR 282 (a) (iv) Gr. B
12	Spring	2	Carbon Steel	IBR 307 to 314
13	Bolts & Nuts	To Suit	Carbon Steel	-
14	Disc	1	Stainless Steel	ASTM A 217 Gr. CA15 / ASTM A 276 Type 410
16	Screw	1	Carbon Steel	-
17	Body Seat Ring	1	Stainless Steel	ASTM A 276 Type 410 + Stellite
18	Body	1	C.C.S.	IBR 73 to 80
19	Adjusting Ring	1	Bronze	IBR 282 (a) (iv) Gr. B



Sizes & Dimensions

Size (mm)	CF	CF1	ØFD	FT	ØFD1	FT1	H
25	108	89	120.7	14.3	114.3	9.5	455
40	121	102	139.7	17.5	133.4	12.7	525
50	140	121	165.1	19.1	152.4	14.3	580



ATAM

Cast Carbon Steel Double Post Hi-Lift Safety Valve Flanged Ends

AV-284

Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Spring Loaded, High Lift
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Inlet Flanged Ends as per BS-10 Table-H Flat Face (Undrilled), Outlet Flanged Ends as per BS-10 Table-D Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	400°C
Max. Set Pressure	250 Psig (Steam)



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

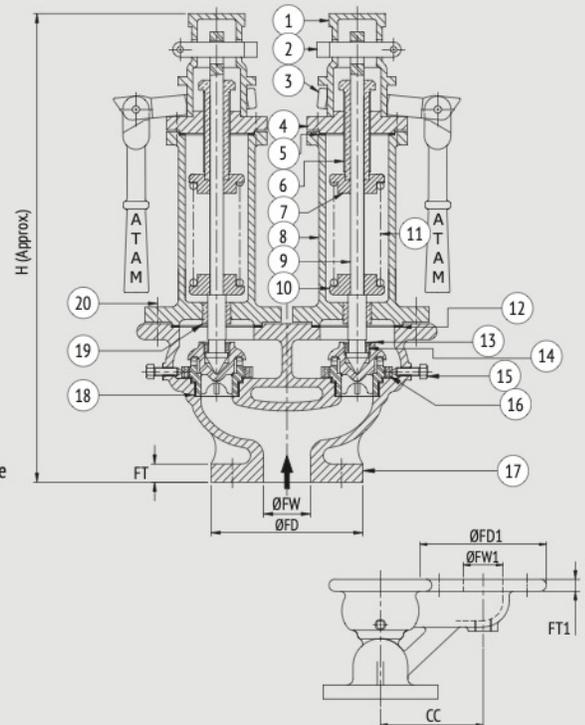
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1, 3, 4	Cap, Lever, Cover	2	Cast Iron	IBR 86 to 93 Gr. A
2	Cotter	2	Bronze	IBR 282 (a) (iv) Gr. B
5, 12	Gasket	2	C.A.F.	-
6	Adjusting Screw	2	Stainless Steel	AISI 410
7	Upper Spring Disc	2	Cast Iron	IBR 86 to 93 Gr. A
8	Spring Chamber	2	Cast Iron	IBR 86 to 93 Gr. A
9	Stem	2	Stainless Steel	AISI 410
10	Lower Spring Disc	2	Cast Iron	IBR 86 to 93 Gr. A
11	Spring	2	Spring Steel	IBR 307
13	Disc	2	Stainless Steel	ASTM A 217 Gr. CA15 / ASTM A 276 Type 410 + Stellite
14, 16	Ring, Regulating Ring	2	Bronze	IBR 282 (a) (iv) Gr. B
15	Screw	2	Carbon Steel	-
17	Body	2	Carbon Steel	IBR 73 to 80
18	Body Seat Ring	2	Stainless Steel	ASTM A 276 Type 410 + Stellite
19	Bush	1	Bronze	IBR 282 (a) (iv) Gr. B
20	Bolts & Nuts	To Suit	Carbon Steel	-



Sizes & Dimensions

Size (mm)	CC	ØFW	ØFD	FT	ØFW1	FD1	FT1	H
25	152.4	38.1	139.7	17.5	38.1	133.4	12.7	480
40	165	57.2	184.2	19.1	63.5	165.1	14.3	565
50	190.5	73	203.2	22.3	76.2	184.2	14.3	630

Table H

Table D

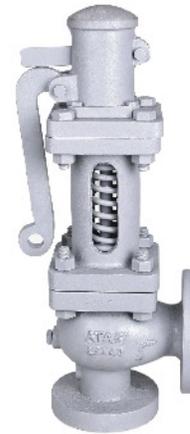


ATAM

Cast Carbon Steel Full Lift Safety Valve Right Angle Pattern Flanged Ends

AV-285

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Spring Loaded, Full Lift
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Inlet Flanged Ends as per BS-10 Table-H Flat Face (Undrilled), Outlet Flanged Ends as per BS-10 Table-D Flat Face (Undrilled)
Test Pressure	Body: 500 Psig (Hyd.)
Max. Working Pressure	250 Psig (Steam)
Max. Working Temperature	400°C
Max. Set Pressure	250 Psig (Steam)



- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

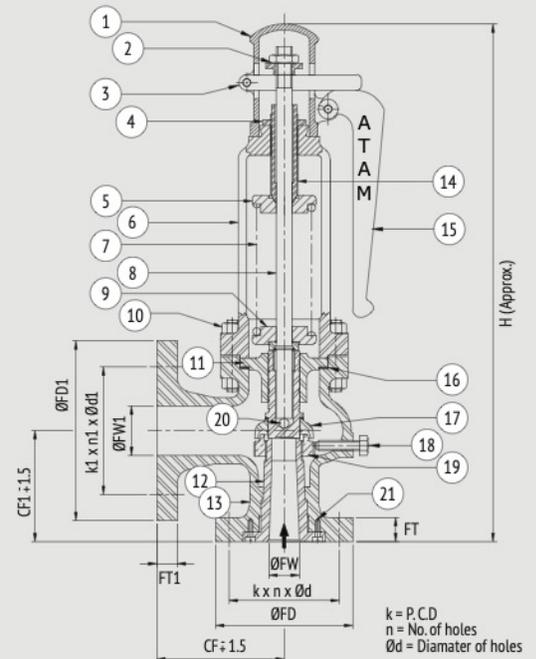
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1	Cap	1	Cast Iron	IBR 86 to 93 Gr. A
2	Locking Nut	1	Bronze	IBR 282 (a) (iv) Gr. B
3, 6, 11	Fork, Bonnet, Disc Guide	1	C.C.S.	IBR 73 to 80
4, 8	Check Nut, Stem	1	Stainless Steel	AISI 410
5, 9	Upper / Lower Spring Disc	1	C.C.S. / Carbon Steel	IBR 73 to 80 / -
7, 18	Spring, Bolt	1	Carbon Steel	-
10	Bolts / Studs & Nuts	To Suit	Carbon Steel	-
12	Nozzle	1	Stainless Steel	AISI 410 + Stellite
13	Body	1	C.C.S.	IBR 73 to 80
14	Adjusting Screw	1	Stainless Steel	AISI 410
15	Handle	1	S.G. Iron / C.I.	-
16	Gasket	1	C.A.F.	-
17	Disc	1	C.S.S. / S.S.	ASTM A 217 Gr. CA15 / ASTM A 276 Type 410 + Stellite
19	Regulating Ring	1	Bronze	IBR 282 (a) (iv) Gr. B
20	Ball	1	Stainless Steel	-
21	Screw	4	Carbon Steel	-



Sizes & Dimensions

Size (mm)	CF	ØFW	ØFD	FT	k	n	Ød	CF1	ØFW1	ØFD1	FT1	k1	n1	Ød1	H
25 x 40	100	26	120.7	14.3	87.3	4	17.5	95	40	133.4	12.7	98.4	4	14.3	435
40 x 50	130	40	139.7	17.5	104.8	4	17.5	112	50	152.4	14.3	114.3	4	17.5	520
50 x 80	140	50	165.1	19.1	127	4	17.5	130	76	184.2	14.3	146.1	4	17.5	580
80 x 100	200	76	203.2	22.3	165.1	8	17.5	190	100	215.9	17.5	177.8	4	17.5	860
100 x 150	205	100	228.6	25.4	190.5	8	17.5	220	152	279.4	17.5	235	8	17.5	1035

Table H

Table D

**ATAM**

Cast Carbon Steel Full Lift Safety Valve Right Angle Pattern Flanged Ends, Class-300

AV-285A

Type of Pattern	Right Angle Pattern
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Spring Loaded, Full Lift
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Inlet Flanged Ends as per ASME B16.5 Class-300, Outlet Flanged Ends as per ASME B16.5 Class-300
Test Pressure	Body: 700 Psig (Hyd.)
Max. Working Pressure	350 Psig (Steam)
Max. Working Temperature	400°C
Max. Set Pressure	350 Psig (Steam)



- Suitable for
- Water
 - Steam
 - Gas
 - Oil
 - Air

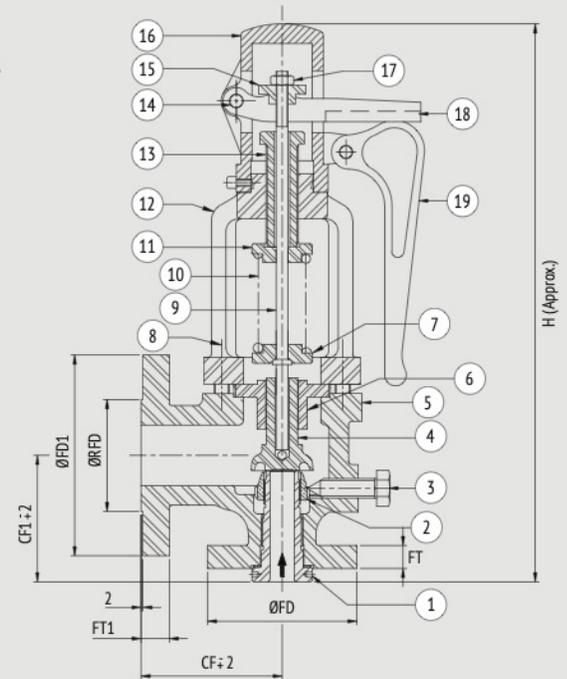
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84814000

Material Specification

S.No	Description	No.	Material	Specifications
1, 4	Nozzle, Disc	1	S.S./ C.C.S.	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15 + Stellite
2	Regulating Ring	1	Bronze	IBR 282 (a) (iv) Gr. B
3	Screw	1	Carbon Steel	-
5	Body	1	C.C.S.	ASTM A216 Gr. WCB
6	Disc Guide	1	S.S./ C.C.S.	ASTM A 276 Type 410 / ASTM A 217 Gr. CA15
7, 11	Lower/ Upper Spring Disc	1	Carbon Steel	-
8	Studs & Nuts	To Suit	Carbon Steel	-
9	Stem	1	Stainless Steel	ASTM A 276 Type 410
10, 13	Spring, Adjusting Screw	1	Carbon Steel / S.S.	IBR 307 to 314 / -
12	Yoke	1	C.C.S.	ASTM A216 Gr. WCB
14	Pin	1	Steel	-
15	Locking Nut	1	Steel	-
16	Cap	1	C.C.S.	ASTM A216 Gr. WCB
17	Nut	1	Carbon Steel	-
18	Fulcrum	1	SG Iron	-
19	Lever	4	SG Iron	-



Sizes & Dimensions

Size (mm)	CF	CF1	ØFD	ØFD1	ØRFD	FT	FT1	H
25 x 50	108	85	125	165	92.1	17.9	22.7	482
40 x 80	127	120	155	210	127	21.1	29	560
50 x 100	150	157	165	255	157.2	22.7	32.2	

**ATAM**

Cast Carbon Steel Pilot Operated Pressure Reducing Valve Flanged Ends

AV-287

Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Pilot Operated, Outlet Pressure Range available 5/45, 40/125 Psig
Type of Seat	Renewable Seat
Trim	13% Cr. (SS 410) + Stellite Facing
End Details	Flanged Ends as per BS-10 Table-F Flat Face (Undrilled)
Test Pressure	Body: 300 Psig (Hyd.)
Max. Working Pressure	150 Psig (Steam)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

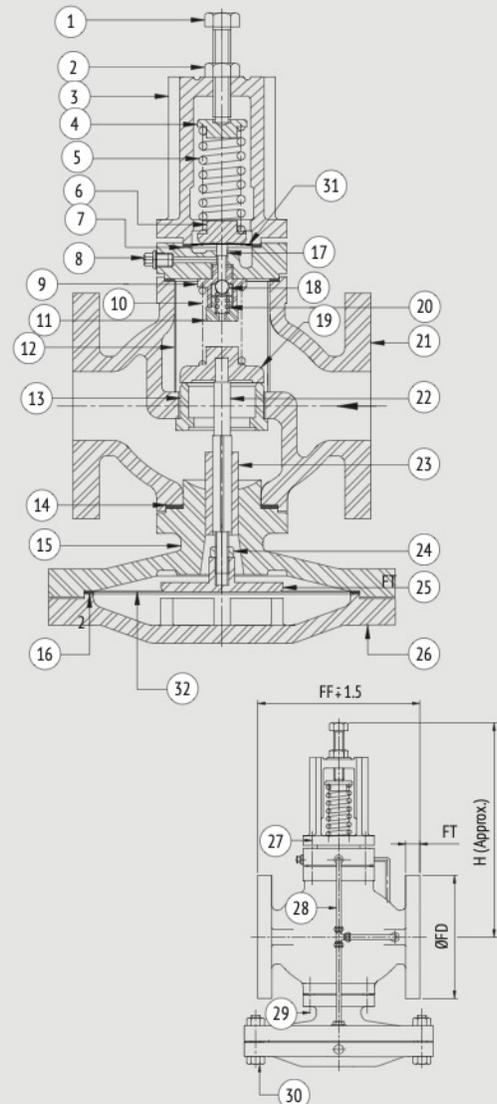
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84811000

Material Specification

S.No	Description	No.	Material	Specifications
1,2	Adj. Screw / Locking Nut	1	Carbon Steel	-
3	Spring Housing	1	S.G.I.	EN 1563 Gr. GJS 400 15
4	Sprint Top Disc	1	Stainless Steel	AISI 304
5	Pressure Adjusting Screw	1	Spring Steel	IBR 307 to 314
6	Spring Bottom Disc	1	Stainless Steel	AISI 304
7	Gasket	1	C.A.F.	-
8	Side Plug	1	Carbon Steel	-
9	Pilot Valve Body	1	Stainless Steel	AISI 304
10	Main Valve Return Spring	1	Carbon Steel	IBR 307 to 314
11	PV Spring Ret. Check Nut	1	Stainless Steel	AISI 304
12	Strainer Screen	1	Stainless Steel	AISI 304
13	Main Valve Body Seat Ring	1		AISI 410 + Stellite
14,16	Gasket	1	C.A.F.	-
15	D Chamber Top Half	1	C.S.	IBR 73 to 80 Gr. A
17,18	Pilot Valve Plunger / Ball	1	Stainless Steel	AISI 304
19	Main Valve Disc	1	Stainless Steel	AISI 410 + Stellite
20	Pilot Valve Spring	1	Stainless Steel	AISI 304
21	Main Valve Body	1	Cast Steel	IBR 73 to 80 Gr. A
22,23	Valve Push Rod / G Sleeve	1	Stainless Steel	AISI 410
24,25	P Rod Lock Nut / D. Disc	1	Stainless Steel	AISI 410
26	Main D. C Lower Half	1	Cast Steel	IBR 73 to 80 Gr. A
27,29	Studs & Nuts	4 Each	Carbon Steel	-
28	Pipe Assembly	-	-	-
30	Bolts & Nuts	To Suit	Carbon Steel	-
31,32	Main Diaphragm / Pilot D	1	Stainless Steel	AISI 304



Sizes & Dimensions

Size (mm)	FF	ØFD	FT	H
25	165	120.7	9.5	215
40	203	139.7	12.7	240
50	248	165.1	15.9	260

Product Standard	API 600
Testing Standard	API-598
Pressure / Class Rating	Class-150
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Wedge	Solid or Flexible Wedge
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-150 Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

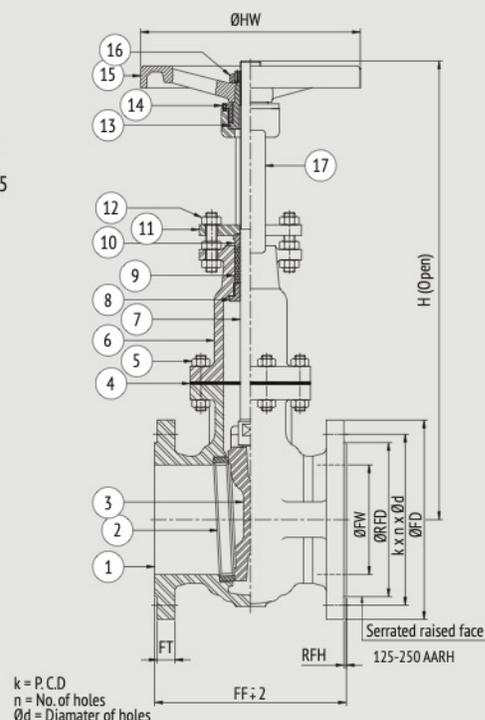
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply. Other trim material combinations are available on request. ±3mm tolerance for sizes 300mm and above.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S.	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	C.C.S. / F.S.S.	ASTM A 216 Gr. WCB + 13% Cr. Deposit / ASTM A 182 Gr. F6a
3	Wedge	1	C.C.S. / C.S.S.	ASTM A 216 Gr. WCB + 13% Cr. Deposit / ASTM A 217 Gr. CA15
4	Gasket	1	S.S. 304 Graphoil Filler with Inner Ring (C.S. or S.S.304)	
5	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
6	Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
7,8	Stem, Back Seat Bush	1	Stainless Steel	ASTM A 276 Type 410
9	Gland Packing	-	Flexible Graphite (Min. 5 Rings)	
10	Gland Follower	1	Stainless Steel	ASTM A 276 Type 410
11	Gland Flange	1	C.C.S.	ASTM A 216 Gr. WCB / Carbon Steel
12	Gland Studs & Nuts	2 / 4	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
13	Yoke Sleeve	1	Al. Bronze / S.S.	BS EN 1982 Gr. CC 331G / AISI 410
14	Yoke Sleeve Retaining Nut	1	Carbon Steel	-
15	Handwheel	1	M.I./D.I.	ASTM A338 / ASTM A536 Gr. 80-55-06
16	Handwheel Retaining Nut	1	Carbon Steel	-
17	Yoke	1	C.C.S.	ASTM A 216 Gr. WCB



Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	Ød	ØHW	H
15	108	8	15	34.9	2	90	60.3	4	5/8"	80	140
20	117	9	20	42.9	2	100	70	4	5/8"	80	165
25	127	9.6	25	50.8	2	110	79.5	4	5/8"	127	190
40	165	12.7	38.1	73	2	125	98.4	4	5/8"	210	365
50	178	14.3	50.8	92.1	2	150	120.7	4	3/4"	210	390
65	190	15.9	63.5	104.8	2	180	139.7	4	3/4"	210	440
80	203	17.5	76.2	127	2	190	152.4	4	3/4"	225	460
100	229	22.3	101.6	157.2	2	230	190.5	8	3/4"	255	570
125	254	22.3	127	185.7	2	255	215.9	8	7/8"	310	690
150	267	23.9	152.4	215.9	2	280	241.3	8	7/8"	310	780
200	292	27	203.2	269.9	2	345	298.5	8	7/8"	400	975
250	330	28.6	254	323.8	2	405	362	12	1"	460	1215
300	356	30.2	304.8	381	2	485	431.8	12	1"	500	1350
350	381	33.4	336.6	412.8	2	535	476.3	12	1.1/8"	450	1605
400	406	35	387.4	469.9	2	595	539.8	16	1.1/8"	450	1960
450	432	38.1	436.2	533.4	2	635	577.9	16	1.1/4"	450	2055
500	457	41.3	489	584.2	2	700	700	20	1.1/4"	450	2410
600	508	46.1	590.6	692.2	2	815	815	20	1.3/8"	450	2875



ATAM

**Cast Carbon Steel Gate Valve
Flanged Ends, Class-300**

AV-288A

Product Standard	API 600
Testing Standard	API-598
Pressure / Class Rating	Class-300
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Wedge	Solid or Flexible Wedge
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-300 Raised Face (Drilled)
Test Pressure	Body: 77 Bar (Hyd.), Seat: 57 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

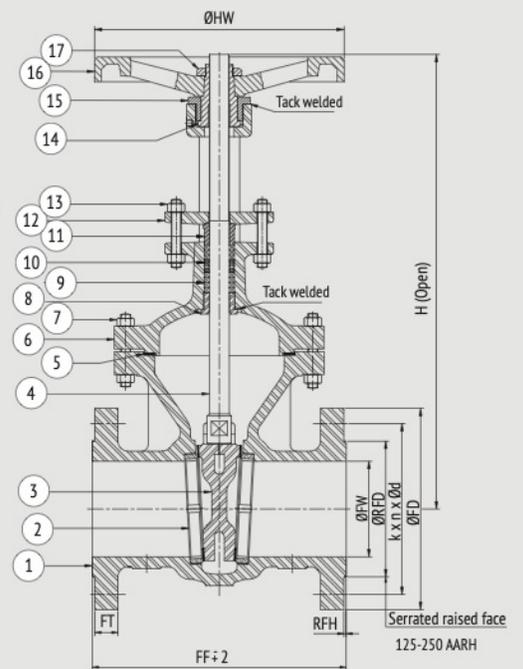
IBR

HSN Code - 84818030

+3mm tolerance for sizes 300mm and above.
Test Certificate in Form III-C as per IBR is furnished with every supply.
Other trim material combinations are available on request.

Material Specification

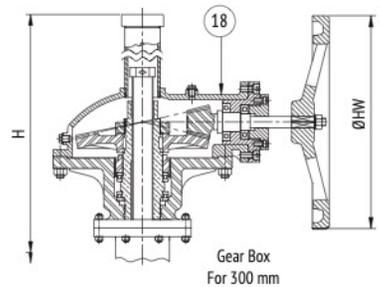
S.No	Description	No.	Material	Specifications
1, 6	Body, Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	C.C.S. / F.S.S.	ASTM A 216 Gr. WCB + 13% Cr. Deposit / ASTM A 182 Gr. F6a
3	Wedge	1	C.C.S. / C.S.S.	ASTM A 216 Gr. WCB + 13% Cr. Welding / ASTM A 217 Gr. CA15
4	Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Gasket	1	Spiral Wound S.S.304 with Graphite Filler with Inner Ring (C.S. or S.S. 304)	
7	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
8	Back Seat Bush	1	Stainless Steel	ASTM A 276 Type 410
9	Gland Packing	-	Flexible Graphite (Min. 5 Rings)	
10, 11	Lantern Ring, Gland Follower	1	Stainless Steel	ASTM A 276 Type 410
12	Gland Flange	1	C.C.S. / Carbon Steel	ASTM A 216 Gr. WCB / -
13	Gland Studs & Nuts	2 / 4	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
14	Yoke Sleeve	1	Al. Bronze / S.S.	BS EN 1982 Gr. CC 331G
15	Yoke Sleeve Retaining Nut	1	Carbon Steel	-
16	Handwheel	1	D.I. / M.I.	ASTM A536 Gr. 80-55-08 / ASTM A338
17	Handwheel Retaining Nut	1	Carbon Steel	-
18	Gear Box Assembly	1	C.I.	-



k = P.C.D
n = No. of holes
Ød = Diameter of holes

Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	Ød	ØHW	H
25	165	15.9	25.4	50.8	2	125	88.9	4	3/4"	152	288
40	190	19.1	38.1	73	2	155	114.3	4	7/8"	210	410
50	216	20.7	50.8	92.1	2	165	127.0	8	3/4"	210	435
65	241	23.9	63.5	104.8	2	190	149.2	8	7/8"	210	495
80	282	27	76.2	127	2	210	168.3	8	7/8"	210	455
100	305	30.2	101.6	157.2	2	255	200	8	7/8"	300	620
125	381	33.4	127	185.7	2	280	235	8	7/8"	300	915
150	403	35	152.4	215.9	2	320	269.9	12	7/8"	400	875
200	419	39.7	203.2	269.9	2	380	330.2	12	1"	450	1160
250	457	46.1	254	323.8	2	445	387.4	16	1.1/8"	500	1455
300	502	49.3	304.8	381	2	520	450.8	16	1.1/4"	500	1600



**ATAM**

Cast Carbon Steel Gate Valve Flanged Ends, Class-600

AV-288B

Product Standard	API 600
Testing Standard	API-598
Pressure / Class Rating	Class-600
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Wedge	Solid or Flexible Wedge
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-600 Raised Face (Drilled)
Test Pressure	Body: 153 Bar (Hyd.), Seat: 112 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

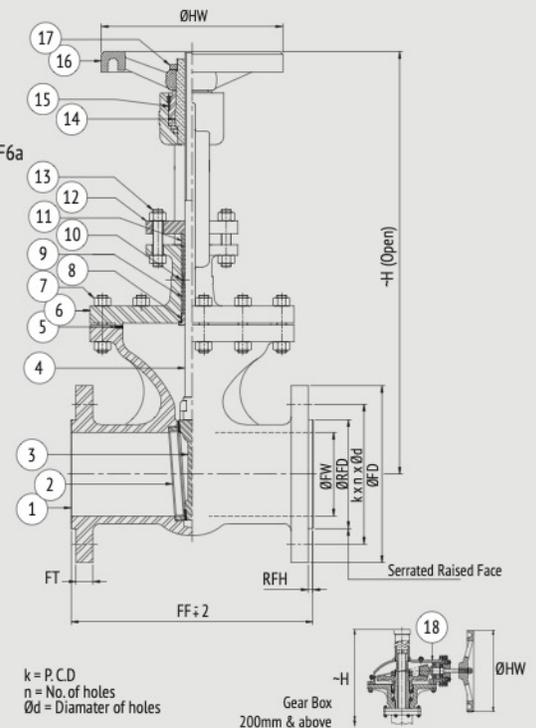
IBR

HSN Code - 84818030

+3mm tolerance for sizes 300mm and above.
Test Certificate in Form III-C as per IBR is furnished with every supply.
Other trim material combinations are available on request.

Material Specification

S.No	Description	No.	Material	Specifications
1, 6	Body, Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
2	Body Seat Ring	2	S.S. / F.S.S.	ASTM A 216 Gr. WCB + 13% Cr. Weld Deposit / ASTM A 182 Gr. F6a
3	Wedge	1	C.C.S. / C.A.S.	ASTM A 216 Gr. WCB + 13% Cr. Welding / ASTM A 217 Gr. CA15
4	Stem	1	Stainless Steel	ASTM A 276 Type 410
5	Gasket	1	-	Spiral Wound S.S.304 Graphite Filler with Inner Ring
7	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
8	Back Seat Bush	1	Stainless Steel	ASTM A 276 Type 410
9	Gland Packing	-	Flexible Graphite	-
10, 11	Lantern Ring, GL Follower	1	Stainless Steel	ASTM A 276 Type 410
12	Gland Flange	1	C.C.S. / Carbon Steel	ASTM A 216 Gr. WCB / -
13	Gland Studs & Nuts	2 & 4	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
14	Yoke Sleeve	1	Al. Bronze / S.S.	BS EN 1982 Gr. CC 331G / ASTM A 276 Type 410
15	Yoke Sleeve Retaining Nut	1	Carbon Steel	-
16	Handwheel	1	D.I. / M.I.	ASTM A536 Gr. 80-55-08 / ASTM A338
17	Handwheel Retaining Nut	1	Carbon Steel	-
18	Gear Assembly	1	C.I.	-



Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	Ød	ØHW	H
40	241	22.3	38.1	73	7	155	114.3	4	7/8"	210	410
50	292	25.4	50.8	92.1	7	165	127.0	8	3/4"	210	470
65	330	28.6	63.5	104.8	7	190	149.2	8	7/8"	210	540
80	356	31.8	76.2	127	7	210	168.3	8	7/8"	254	610
100	432	38.1	102	157.2	7	275	215.9	8	1"	350	725
125	508	44.5	127	185.7	7	330	266.7	8	1.1/8"	400	870
150	559	47.7	153	215.9	7	355	292.1	12	1.1/8"	500	1050
200	660	55.6	200	269.9	7	420	349.2	12	1.1/4"	450	1345
250	787	63.5	247.7	323.8	7	510	431.8	16	1.3/8"	450	1370
300	838	66.7	298.5	381	7	560	489.0	20	1.3/8"	450	1645

**ATAM**

Cast Carbon Steel Globe Valve Flanged Ends, Class-150

AV-289

Product Standard	BS 1873 / ASME B16.34
Testing Standard	API-598
Pressure / Class Rating	Class-150
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-150 Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

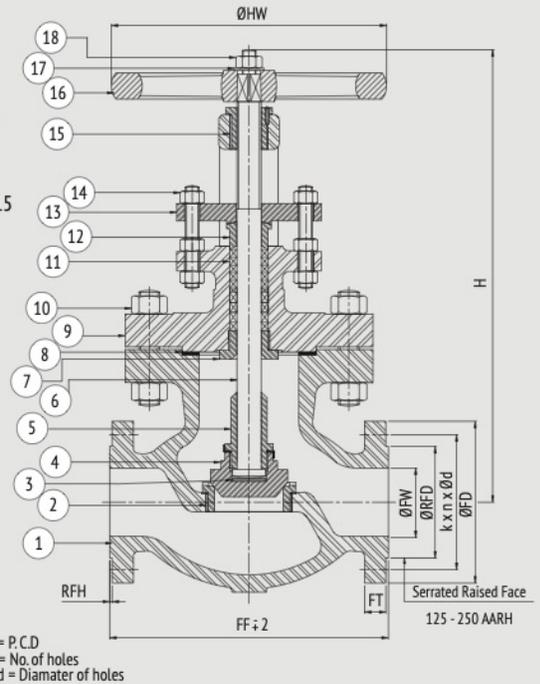
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.
Other trim material combinations are available on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1, 9	Body, Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	C.S.S. / F.S.S	ASTM A 216 Gr. WCB + 13% Cr. Deposit / ASTM A 182 Gr. F6a
3	Thrust Plate	1	Hardened Steel	-
4	Disc	1	C.C.S. / C.A.S. / S.S.	ASTM A 216 Gr. WCB + 13% Cr. Deposit / ASTM A 217 Gr. CA15 ASTM A 276 Type 410
5, 6	Disc Nut, Stem	1	Stainless Steel	ASTM A 276 Type 410
7	Back Seat Bush	1	Stainless Steel	ASTM A 276 Type 410
8	Gasket	1	Spiral Wound S.S.304 Graphoil Filler with Inner Ring (C.S. or S.S. 304)	
10	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
11	Gland Packing	-	Flexible Graphite	-
12	Gland Follower	1	Stainless Steel	ASTM A 276 Type 410
13	Gland Flange	1	C.C.S. / Carbon Steel	ASTM A 216 Gr. WCB / -
14	Gland Studs & Nuts	2 / 4	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
15	Yoke Bush	1	Al. Bronze	BS EN 1982 Gr. CC 331G
16	Handwheel	1	M.I. / D.I.	ASTM A338 / ASTM A536 Gr. 80-55-06
17, 18	Washer, Nut for Handwheel	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	Ød	ØHW	H
15	108	8	15	34.9	2	90	60.3	4	5/8"	100	185
20	117	9	20	42.9	2	100	70	4	5/8"	100	190
25	127	9.6	25	50.8	2	110	79.4	4	5/8"	160	220
40	165	12.7	38	73	2	125	98.4	4	5/8"	203	240
50	203	14.3	51	92.1	2	150	120.7	4	3/4"	203	270
65	216	15.9	64	104.8	2	180	139.7	4	3/4"	229	310
80	241	17.5	76	127	2	190	152.4	4	3/4"	229	250
100	292	22.3	102	157.2	2	230	190.5	8	3/4"	254	400
125	356	22.3	127	185.7	2	255	215.9	8	7/8"	254	425
150	406	23.9	152	215.9	2	280	241.3	8	7/8"	305	500
200	495	27	203	269.9	2	345	298.5	8	7/8"	457	590
250	622	28.6	254	323.8	2	405	362	12	1"	560	740

**ATAM**

Cast Carbon Steel Globe Valve Flanged Ends, Class-300

AV-289A

Product Standard	BS 1873 / ASME B16.34
Testing Standard	API-598
Pressure / Class Rating	Class-300
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-300 Raised Face (Drilled)
Test Pressure	Body: 77 Bar (Hyd.), Seat: 57 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

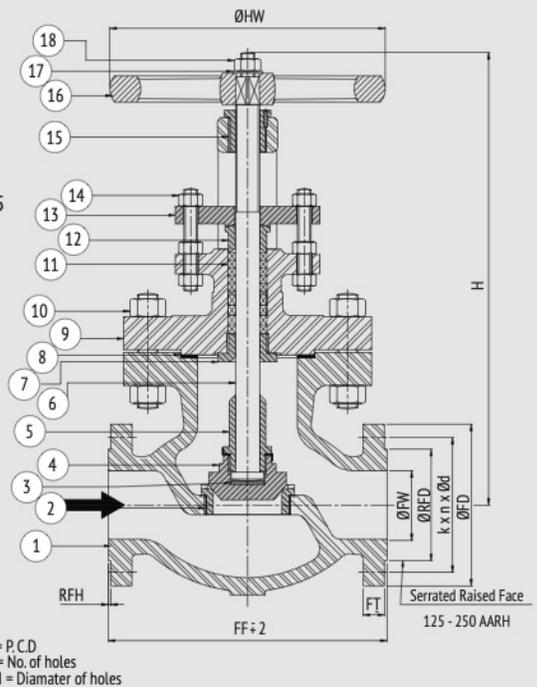
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.
Other trim material combinations are available on request. Sizes 150mm & above available in non-rotating stem design

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1, 9	Body, Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	C.S.S. / F.S.S	ASTM A 216 Gr. WCB + 13% Cr. Deposit / ASTM A 182 Gr. F6a
3	Thrust Plate	1	Hardened Steel	-
4	Disc	1	C.C.S. / C.A.S. / S.S.	ASTM A 216 Gr. WCB + 13% Cr. Deposit / ASTM A 217 Gr. CA15 ASTM A 276 Type 410
5, 6	Disc Nut, Stem	1	Stainless Steel	ASTM A 276 Type 410
7	Back Seat Bush	1	Stainless Steel	ASTM A 276 Type 410
8	Gasket	1	Spiral Wound S.S.304 Graphoil Filler with Inner Ring (C.S. or S.S. 304)	
10	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
11	Gland Packing	-	Flexible Graphite	-
12	Gland Follower	1	Stainless Steel	ASTM A 276 Type 410
13	Gland Flange	1	C.C.S. / Carbon Steel	ASTM A 216 Gr. WCB / -
14	Gland Studs & Nuts	2 / 4	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
15	Yoke Bush	1	Al. Bronze / S.S.	BS EN 1982 Gr. CC 331G / ASTM A 582 Type 416
16	Handwheel	1	M.I. / D.I.	ASTM A338 / ASTM A536 Gr. 80-55-06
17, 18	Washer, Nut for Handwheel	1	Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	Ød	ØHW	H
15	152	12.7	13	34.9	2	95	66.7	4	5/8"	120	196
20	178	14.3	20	42.9	2	115	82.6	4	3/4"	120	238
25	203	15.9	25	50.8	2	125	88.9	4	3/4"	150	260
40	229	19.1	38	73	2	155	114.3	4	7/8"	215	350
50	267	20.7	51	92.1	2	165	127	8	3/4"	215	385
65	292	23.9	64	104.8	2	190	149.2	8	7/8"	254	408
80	318	27	76	127	2	210	168.3	8	7/8"	254	490
100	356	30.2	102	157.2	2	255	200	8	7/8"	350	573
125	400	33.4	127	185.7	2	280	235	8	7/8"	400	655
150	444	35	152	215.9	2	320	269.9	12	7/8"	450	675
200	559	39.7	203	269.9	2	380	330.2	12	1"	500	795
250	622	46.1	254	323.8	2	445	387.4	16	1.1/8"	560	750

**ATAM**

Cast Carbon Steel Globe Valve Flanged Ends, Class-600

AV-289B

Product Standard	BS 1873 / ASME B16.34
Testing Standard	API-598
Pressure / Class Rating	Class-600
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-600 Raised Face (Drilled)
Test Pressure	Body: 153 Bar (Hyd.), Seat: 112 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

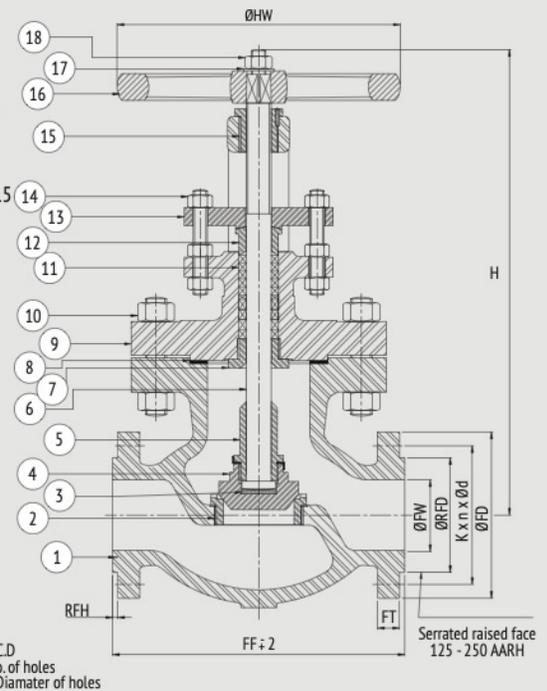
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.
Other trim material combinations are available on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S.	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	C.C.S. / F.S.S.	ASTM A 216 Gr. WCB + 13% Cr. Deposit / ASTM A 182 Gr. F6a
3	Thrust Plate	1	Hardened Steel	-
4	Disc	1	C.C.S. / S.S.	ASTM A 216 Gr. WCB + 13% Cr. Deposit / ASTM A 217 Gr. CA 15
5, 6	Disc Nut, Stem	1	Stainless Steel	ASTM A 276 Type 410
7	Back Seat Bush	1	Stainless Steel	ASTM A 276 Type 410
8	Gasket	1	-	Spiral Wound S.S.304 Graphoil Filler with Inner Ring
9	Bonnet	1	C.C.S.	ASTM A 216 Gr. WCB
10	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
11	Gland Packing	-	Graphited Asbestos	-
12	Gland Follower	1	S.S.	ASTM A 276 Type 410
13	Gland Flange	1	C.C.S. / Carbon Steel	ASTM A 216 Gr. WCB / -
14	Gland Studs & Nuts	2 / 4	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
15	Yoke Bush	1	Al. Bronze	BS EN 1982 Gr. CC 331G
16	Handwheel	1	M.I. / D.I.	ASTM A338 / ASTM A536 Gr.80-55-06
17, 18	Washer, Nut for Handwheel		Carbon Steel	-



Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	Ød	ØHW	H
40	241	22.3	38	73	7	155	114.3	4	7/8"	254	365
50	292	25.4	51	92.1	7	165	127.0	8	3/4"	254	393
65	330	28.6	64	104.8	7	190	149.2	8	7/8"	305	497
80	356	31.8	76	127	7	210	168.3	8	7/8"	305	518
100	432	38.1	102	157.2	7	275	215.9	8	1"	455	633
125	508	44.5	127	185.7	7	330	266.7	8	1.1/8"	500	742
150	559	47.7	152	215.9	7	355	292.1	12	1.1/8"	590	788
200	660	55.6	200	269.9	7	420	349.2	12	1.1/4"	600	823

**ATAM**

Cast Carbon Steel Swing Check Valve Flanged Ends, Class-150

AV-290

Product Standard	BS-1868
Testing Standard	API-598
Pressure / Class Rating	Class-150
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Cover
Type of Seat	Renewable Seat
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-150 Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

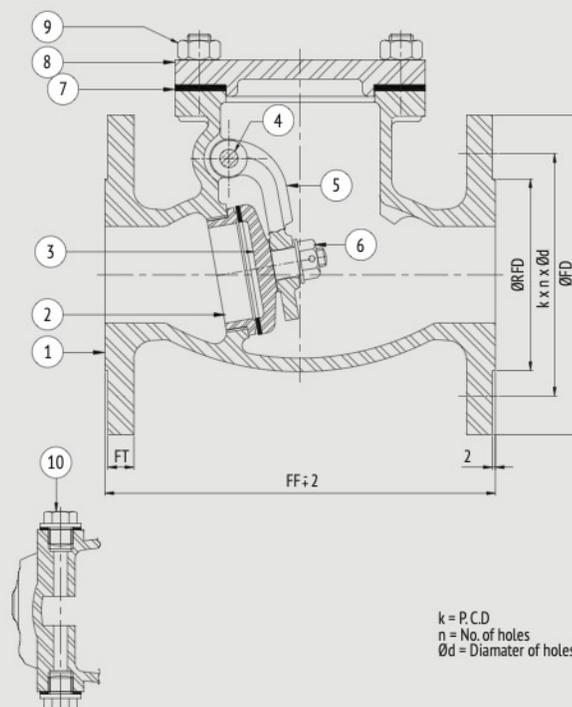
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.
Other trim material combinations are available on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S.	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	S.S./ F.S.S./ C.C.S.	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a / ASTM A 216 Gr. WCB + 13% Cr. Deposit
3	Disc	1	S.S./ C.C.S.	ASTM A 276 Type 410 / ASTM A 216 Gr. WCB + 13% Cr. Deposit
4	Hinge	1	Stainless Steel	ASTM A 276 Type 410
5	Hinge Pin	1	C.C.S.	ASTM A 216 Gr. WCB
6	Nut	1	Stainless Steel	-
7	Gasket	1	-	Spiral Wound S.S.304 Graphoil Filler
8	Cover	1	C.C.S.	ASTM A 216 Gr. WCB
9	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
10	Side Plug	2	Stainless Steel	ASTM A 276 Type 410



Sizes & Dimensions

Size (mm)	FF	FT	ØRFD	ØFD	K	n	Ød
15	108	8	34.9	90	60.3	4	5/8"
20	117	8.9	42.9	100	69.9	4	5/8"
25	127	9.6	50.8	110	79.4	4	5/8"
40	165	12.7	73	125	98.4	4	5/8"
50	203	14.3	92.1	150	120.7	4	3/4"
65	216	15.9	104.8	180	139.7	4	3/4"
80	241	17.5	127	190	152.4	4	3/4"
100	292	22.3	157.2	230	190.5	8	3/4"
125	330	22.3	185.7	255	215.9	8	7/8"
150	356	23.9	215.9	280	241.3	8	7/8"
200	495	27	269.9	345	298.5	8	7/8"

**ATAM**

Cast Carbon Steel Swing Check Valve Flanged Ends, Class-300

AV-290A

Product Standard	BS-1868
Testing Standard	API-598
Pressure / Class Rating	Class-300
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Cover
Type of Seat	Renewable Seat
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-300 Raised Face (Drilled)
Test Pressure	Body: 77 Bar (Hyd.), Seat: 57 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

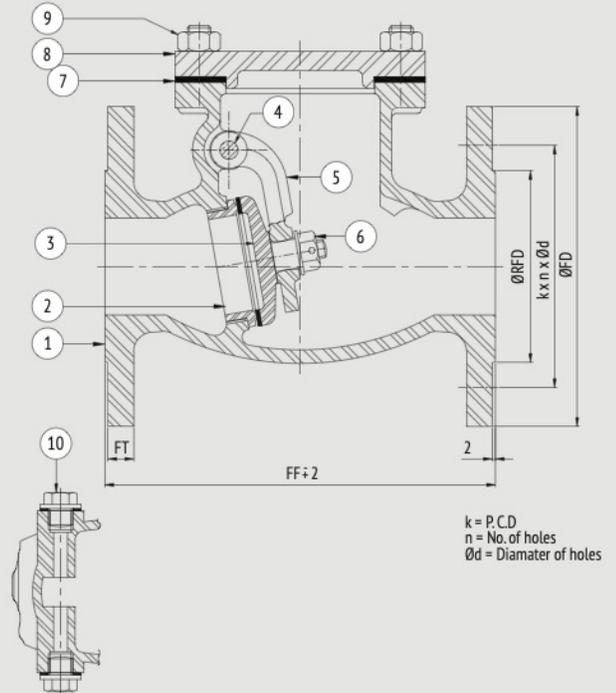
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.
Other trim material combinations are available on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S.	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	S.S./ F.S.S./ C.C.S.	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a / ASTM A 216 Gr. WCB + 13% Cr. Deposit
3	Disc	1	C.C.S.	ASTM A 216 Gr. WCB + 13% Cr. Deposit
4	Hinge Pin	1	Stainless Steel	ASTM A 276 Type 410
5	Hinge	1	C.C.S.	ASTM A 216 Gr. WCB
6	Nut	1	Stainless Steel	-
7	Gasket	1	-	Spiral Wound S.S.304 Graphoil Filler
8	Cover	1	C.C.S.	ASTM A 216 Gr. WCB
9	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
10	Side Plug	2	Stainless Steel	ASTM A 276 Type 410



Sizes & Dimensions

Size (mm)	FF	FT	ØRFD	ØFD	K	n	Ød
40	241	19.1	73	155	114.3	4	7/8"
50	267	20.7	92.1	165	127	8	3/4"
65	292	23.9	104.8	190	149.2	8	7/8"
80	318	27	127	210	168.3	8	7/8"
100	356	30.2	157.2	255	200	8	7/8"
125	400	33.4	185.7	280	235	8	7/8"
150	444	35	215.9	320	269.9	12	7/8"
200	533	39.7	269.9	380	330.2	12	1"
250	622	46.1	323.8	445	387.4	16	1.1/8"
300	711	49.3	381	520	450.8	16	1.1/4"

**ATAM**

Cast Carbon Steel Swing Check Valve Flanged Ends, Class-600

AV-290B

Product Standard	BS-1868
Testing Standard	API-598
Pressure / Class Rating	Class-600
Body Material Cum Standard	Cast Carbon Steel (ASTM A216 Gr. WCB)
Product Description	Bolted Cover
Type of Seat	Renewable Seat
Trim	13% Cr. (SS 410)
End Details	Flanged Ends as per ASME B16.5 Class-600 Raised Face (Drilled)
Test Pressure	Body: 153 Bar (Hyd.), Seat: 112 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

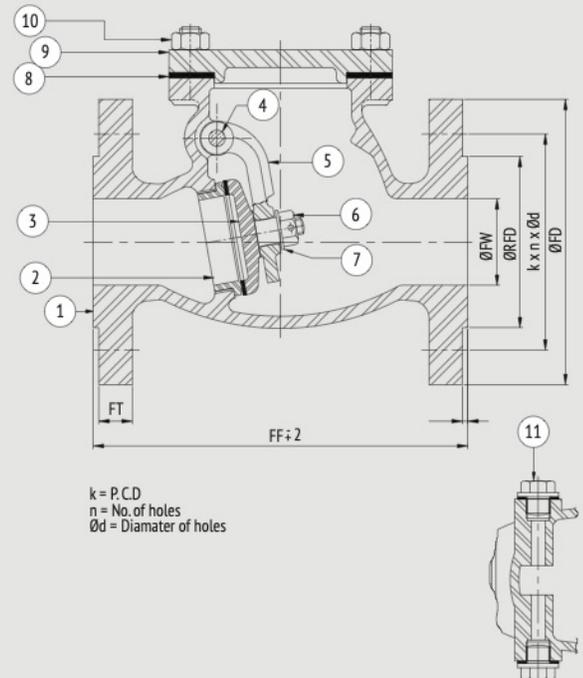
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Test Certificate in Form III-C as per IBR is furnished with every supply.
Other trim material combinations are available on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	C.C.S.	ASTM A 216 Gr. WCB
2	Body Seat Ring	1	S.S. / F.S.S. / C.C.S.	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a / ASTM A 216 Gr. WCB + 13% Cr. Deposit
3	Disc	1	C.C.S.	ASTM A 216 Gr. WCB + 13% Cr. Deposit
4	Hinge Pin	1	Stainless Steel	ASTM A 276 Type 410
5	Hinge	1	C.C.S.	ASTM A 216 Gr. WCB
6	Nut	1	Stainless Steel	-
7	Washer	1	Carbon Steel	-
8	Gasket	1	-	Spiral Wound S.S.304 Graphoil Filler
9	Cover	1	C.C.S.	ASTM A 216 Gr. WCB
10	Studs & Nuts	To Suit	Alloy Steel / H.T. Steel	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H
11	Side Plug	2	Stainless Steel	ASTM A 276 Type 410



Sizes & Dimensions

Size (mm)	FF	FT	ØFW	ØRFD	ØFD	K	n	Ød
40	241	22.3	38	73	155	114.3	4	7/8"
50	292	25.4	51	92.1	165	127.0	8	3/4"
65	330	28.6	64	104.8	190	149.2	8	7/8"
80	356	31.8	76	127	210	168.3	8	7/8"
100	432	38.1	102	157.2	275	215.9	8	1"
125	508	44.5	127	185.7	330	266.7	8	1.1/8"
150	559	47.7	152	215.9	355	292.1	12	1.1/8"
200	660	55.6	200	269.9	420	349.2	12	1.1/4"
250	787	63.5	248	323.8	510	431.8	16	1.3/8"

**ATAM**

Drop Forged Stainless Steel Thermodynamic Steam Trap Screwed Ends

AV-300

Body Material Cum Standard	Forged Stainless Steel (ASTM A182 Gr. F6a)
Product Description	Thermodynamic Type with inbuilt Strainer
Trim	13% Cr. (SS 410)
End Details	Screwed Female NPT Threads (ASME B-1.20.1), Socket Welded Ends as per ASME B-16.11
Test Pressure	Body: 900 Psig (Hyd.)
Max. Working Pressure	450 Psig (Steam)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

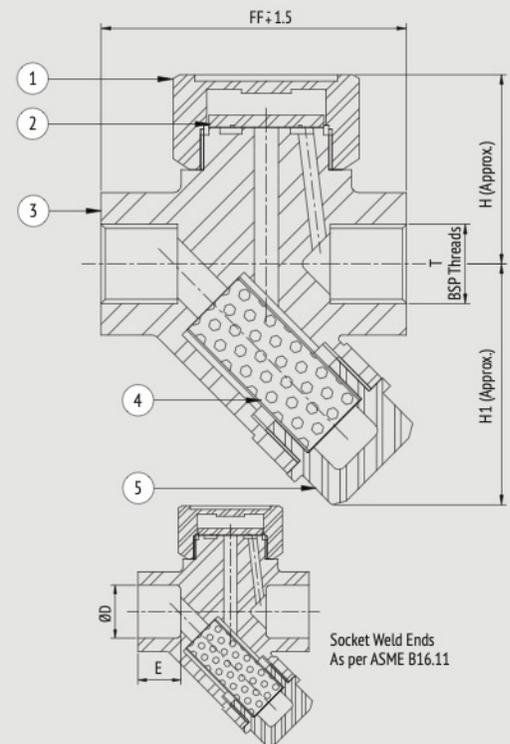
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Cover	1	Stainless Steel	AISI 420
2	Disc	1	Stainless Steel	AISI 420
3	Body	1	F.S.S.	ASTM A 182 Gr. F6a
4	Screen	1	Stainless Steel	AISI 410
5	Plug	1	Stainless Steel	AISI 420



Sizes & Dimensions

Size (mm)	FF	T	ØD	E	H	H1
15	80	1/2"	21.8 / 22.2	9.5	49	63
20	80	3/4"	27.2 / 27.6	12.5	49	63
25	90	1"	33.9 / 34.3	12.5	52	69

**ATAM**

Drop Forged Steel Gate Valve Screwed Ends, Class-800

AV-301

Product Standard	API 602 / BS EN-15761
Testing Standard	API-598
Pressure / Class Rating	Class-800
Body Material Cum Standard	Forged Carbon Steel (ASTM A105)
Product Description	Standard Bore, Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Wedge	Solid Wedge
Trim	13% Cr. (SS 410)
End Details	Screwed Female NPT Threads (ASME B-1.20.1)
Test Pressure	Body: 207 Bar (Hyd.), Seat & Back Seat: 152 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

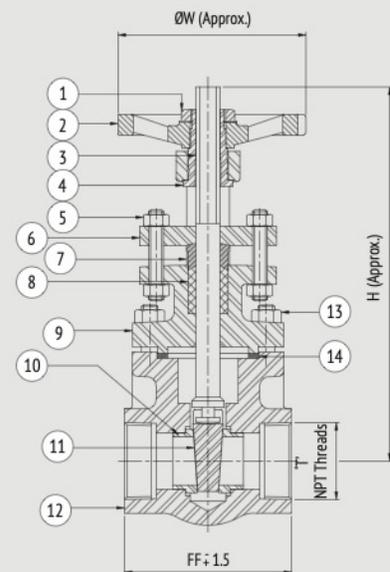
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Handwheel Retaining Nut	1	Carbon Steel	-
2	Handwheel	1	M.I.	ASTM A338
3	Stem	1	Stainless Steel	ASTM A276 Type 410
4	Yoke Sleeve	1	Stainless Steel	ASTM A276 Type 410
5	Stud Bolts & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
6	Gland Flange	1	Forged Carbon Steel	ASTM A 105
7	Gland Follower	1	Stainless Steel	ASTM A276 Type 410
8	Gland Packing	1	Flexible Graphite	-
9	Bonnet	1	Forged Carbon Steel	ASTM A105
10	Body Seat Ring	1	Stainless Steel	ASTM A276 Type 410
11	Wedge	1	Stainless Steel	ASTM A182 Gr. F6a
12	Body	1	Forged Carbon Steel	ASTM A105
13	Stud Bolts & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
14	Gasket	1	Spiral Wound S.S. 304 GraphoI/AISI 420	



Sizes & Dimensions

Size (mm)	FF	H	ØW	T
10	80	132	80	3/8"
15	80	132	80	1/2"
20	88	142	80	3/4"
25	100	175	90	1"
32	104	215	152	1.1/4"
40	104	215	152	1.1/2"
50	116	245	152	2"

**ATAM**

Drop Forged Steel Gate Valve Socket Welded Ends, Class-800

AV-302

Product Standard	API 602 / BS EN-15761
Testing Standard	API-598
Pressure / Class Rating	Class-800
Body Material Cum Standard	Forged Carbon Steel (ASTM A105)
Product Description	Standard Bore, Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Wedge	Solid Wedge
Trim	13% Cr. (SS 410)
End Details	Socket Welded Ends as per ASME B-16.11
Test Pressure	Body: 207 Bar (Hyd.), Seat & Back Seat: 152 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

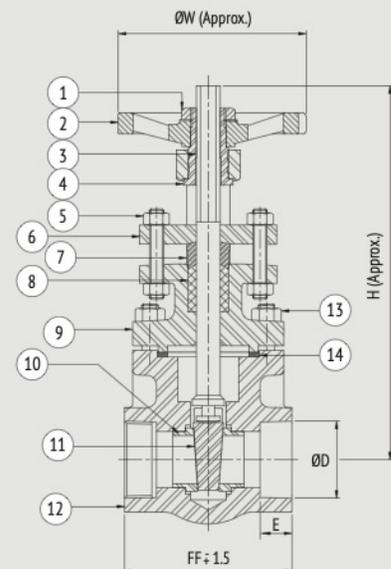
IBR

Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Handwheel Retaining Nut	1	Carbon Steel	-
2	Handwheel	1	M.I.	ASTM A338
3	Stem	1	Stainless Steel	ASTM A276 Type 410
4	Yoke Sleeve	1	Stainless Steel	ASTM A276 Type 410
5	Stud Bolts & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
6	Gland Flange	1	Forged Carbon Steel	ASTM A 105
7	Gland Follower	1	Stainless Steel	ASTM A276 Type 410
8	Gland Packing	1	Flexible Graphite	-
9	Bonnet	1	Forged Carbon Steel	ASTM A105
10	Body Seat Ring	1	Stainless Steel	ASTM A276 Type 410
11	Wedge	1	Stainless Steel	ASTM A182 Gr. F6a / ASTM A276 Type 410
12	Body	1	Forged Carbon Steel	ASTM A105
13	Stud Bolts & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
14	Gasket	1	Spiral Wound S.S. 304 Graphoil/AISI 420	



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØD	E
10	80	132	80	17.6 / 18.0	9.5
15	80	132	80	21.8 / 22.2	9.5
20	88	142	80	27.2 / 27.6	12.5
25	100	175	90	33.9 / 34.3	12.5
32	104	215	152	42.7 / 43.1	12.5
40	104	215	152	48.8 / 49.2	12.5
50	116	245	152	61.2 / 61.7	16

**ATAM**

Drop Forged Steel Globe Valve Screwed Ends, Class-800

AV-303

Product Standard	API 602 / BS EN-15761
Testing Standard	API-598
Pressure / Class Rating	Class-800
Body Material Cum Standard	Forged Carbon Steel (ASTM A105)
Product Description	Standard Bore, Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Screwed Female NPT Threads (ASME B-1.20.1)
Test Pressure	Body: 207 Bar (Hyd.), Seat & Back Seat: 152 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

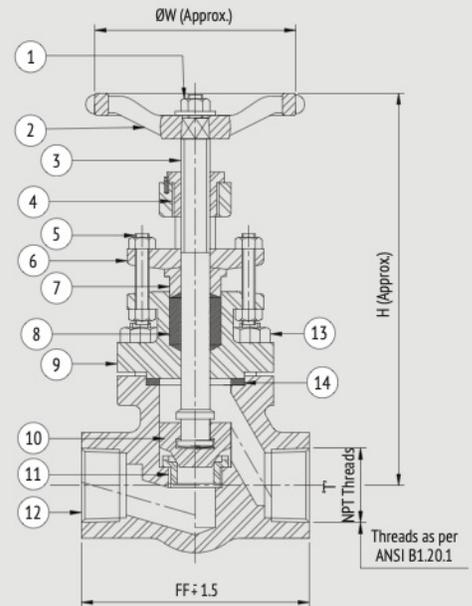
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Handwheel Retaining Nut	1	Carbon Steel	-
2	Handwheel	1	M.I.	ASTM A338
3	Stem	1	Stainless Steel	ASTM A276 Type 410
4	Yoke Sleeve	1	Stainless Steel	ASTM A276 Type 410
5	Stud Bolts & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
6	Gland Flange	1	Forged Carbon Steel	ASTM A 105
7	Gland Follower	1	Stainless Steel	ASTM A276 Type 410
8	Gland Packing	-	Flexible Graphite	-
9	Bonnet	1	Forged Carbon Steel	ASTM A105
10	Disc	1	Stainless Steel	ASTM A182 Gr. F6a / ASTM A276 Type 410
11	Body Seat Ring	1	Stainless Steel	ASTM A182 Gr. F6a / ASTM A276 Type 410
12	Body	1	Forged Carbon Steel	ASTM A105
13	Stud Bolts & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
14	Gasket	1	Spiral Wound S.S. 304 Graphoil	



Sizes & Dimensions

Size (mm)	FF	H	ØW	T
10	80	140	80	3/8"
15	80	153	80	1/2"
20	88	157	80	3/4"
25	100	176	90	1"
32	145	240	152	1.1/4"
40	145	240	152	1.1/2"
50	170	275	152	2"

**ATAM**

Drop Forged Steel Globe Valve Socket Welded Ends, Class-800

AV-304

Product Standard	API 602 / BS EN-15761
Testing Standard	API-598
Pressure / Class Rating	Class-800
Body Material Cum Standard	Forged Carbon Steel (ASTM A105)
Product Description	Standard Bore, Bolted Bonnet, Outside Screw & Yoke Type, Rising Stem with Backseat Arrangement, Handwheel Operated
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Socket Welded Ends as per ASME B-16.11
Test Pressure	Body: 207 Bar (Hyd.), Seat & Back Seat: 152 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

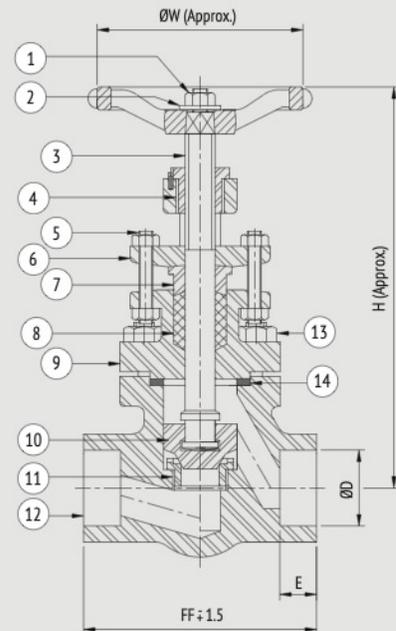
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Handwheel Retaining Nut	1	Carbon Steel	-
2	Handwheel	1	M.I.	ASTM A338
3	Stem	1	Stainless Steel	ASTM A276 Type 410
4	Yoke Sleeve	1	Stainless Steel	ASTM A276 Type 410
5	Stud Bolts & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
6	Gland Flange	1	Forged Carbon Steel	ASTM A 105
7	Gland Follower	1	Stainless Steel	ASTM A276 Type 410
8	Gland Packing	-	Flexible Graphite	-
9	Bonnet	1	Forged Carbon Steel	ASTM A105
10	Disc	1	Stainless Steel	ASTM A182 Gr. F6a / ASTM A276 Type 410
11	Body Seat Ring	1	Stainless Steel	ASTM A182 Gr. F6a / ASTM A276 Type 410
12	Body	1	Forged Carbon Steel	ASTM A105
13	Stud Bolts & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
14	Gasket	1	Spiral Wound S.S. 304 Graphoil	



Sizes & Dimensions

Size (mm)	FF	H	ØW	ØD	E
10	80	140	80	17.6 / 18.0	9.5
15	80	153	80	21.8 / 22.2	9.5
20	88	157	80	27.2 / 27.6	12.5
25	100	176	90	33.9 / 34.3	12.5
32	145	240	152	42.7 / 43.1	12.5
40	145	240	152	48.8 / 49.2	12.5
50	170	275	152	61.2 / 61.7	16

**ATAM**

Drop Forged Steel Horizontal Lift Check Valve Screwed Ends, Class-800

AV-305

Product Standard	API 602 / BS EN-15761
Testing Standard	API-598
Pressure / Class Rating	Class-800
Body Material Cum Standard	Forged Carbon Steel (ASTM A105)
Product Description	Standard Bore, Bolted Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Screwed Female NPT Threads (ASME B-1.20.1)
Test Pressure	Body: 207 Bar (Hyd.), Seat: 152 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

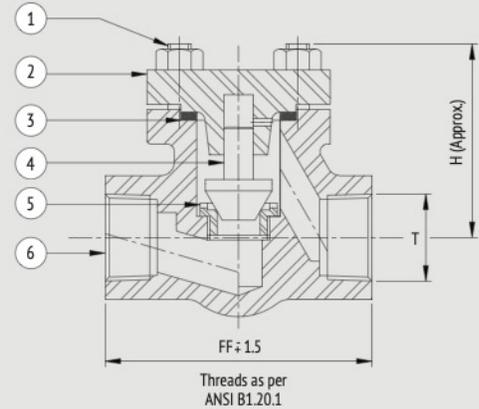
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Studs & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
2	Cover	1	Forged Carbon Steel	ASTM A105
3	Gasket	1	Spiral Wound S.S. 304 Graphoil	
4	Disc	1	Stainless Steel	ASTM A182 Gr. F6a / ASTM A276 Type 410
5	Body Seat Ring	1	Stainless Steel	ASTM A276 Type 410
6	Body	1	Forged Carbon Steel	ASTM A 105



Sizes & Dimensions

Size (mm)	FF	H	T
10	80	58	3/8"
15	80	55	1/2"
20	88	62	3/4"
25	100	85	1"
40	145	98	1.1/2"
50	170	120	2"

**ATAM**

Drop Forged Steel Horizontal Lift Check Valve Socket Welded Ends, Class-800

AV-306

Product Standard	API 602 / BS EN-15761
Testing Standard	API-598
Pressure / Class Rating	Class-800
Body Material Cum Standard	Forged Carbon Steel (ASTM A105)
Product Description	Standard Bore, Bolted Cover
Type of Seat	Renewable Seat
Type of Disc	Renewable Disc
Trim	13% Cr. (SS 410)
End Details	Socket Welded Ends as per ASME B-16.11
Test Pressure	Body: 207 Bar (Hyd.), Seat: 152 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

- Water
- Steam
- Gas
- Oil
- Air

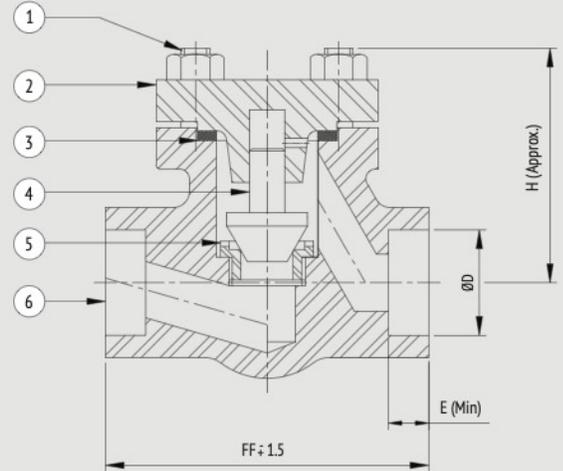
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Test Certificate in Form III-C as per IBR is furnished with every supply.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Studs & Nuts	1	Alloy Steel / H.T. Steel	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H
2	Cover	1	Forged Carbon Steel	ASTM A105
3	Gasket	1	Spiral Wound S.S. 304 Graphoil	
4	Disc	1	Stainless Steel	ASTM A182 Gr. F6a / ASTM A276 Type 410
5	Body Seat Ring	1	Stainless Steel	ASTM A276 Type 410
6	Body	1	Forged Carbon Steel	ASTM A105



Sizes & Dimensions

Size (mm)	FF	H	ØD	E
10	80	58	17.6 / 18.0	9.5
15	80	55	21.8 / 22.2	9.5
20	88	62	27.2 / 27.6	12.5
25	100	85	33.9 / 34.3	12.5
40	145	98	48.8 / 49.2	12.5
50	170	120	61.2 / 61.7	16

**ATAM**

Drop Forged Stainless Steel Needle Valve Regulating Type Screwed Ends, Class-800

AV-311

Product Standard	API 602 / BS EN-15761
Testing Standard	API-598
Pressure / Class Rating	Class-800
Body Material Cum Standard	Forged Stainless Steel (ASTM A182 Gr. F304)
Product Description	Standard Bore, One Piece Design, Inside Screw, Rising Stem, Renewable Seat
Type of Seat	Renewable Seat
Type of Disc	Renewable Needle Type Disc
Trim	Stainless Steel (Type 304)
End Details	Screwed Female NPT Threads (ASME B-1.20.1)
Test Pressure	Body: 207 Bar (Hyd.), Seat: 152 Bar (Hyd.), Seat: 7 Bar (Air)
Max. Working Temperature	425°C



Suitable for

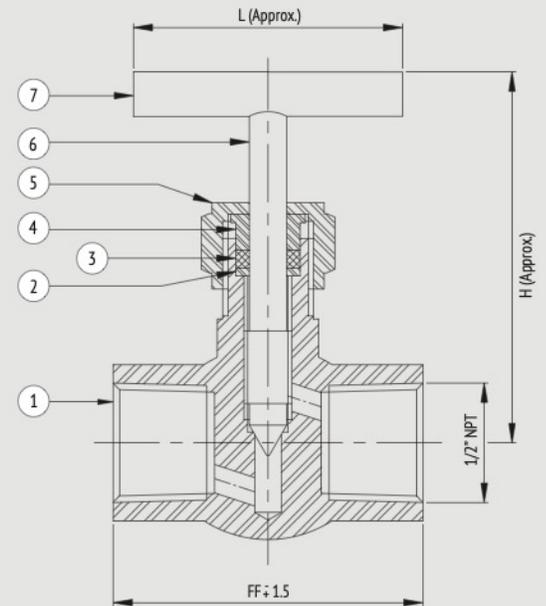
- Water
- Steam
- Gas
- Oil
- Air

IBR

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Forged Stainless Steel	ASTM A182 Gr. F 304
2	Washer	1	Stainless Steel	ASTM A276 Type 304
3	Gland Packing	-	To Suit	-
4	Gland	1	Stainless Steel	ASTM A276 Type 304
5	Gland Nut	1	Stainless Steel	ASTM A276 Type 304
6	Stem	1	Stainless Steel	ASTM A276 Type 304
7	Handle	1	Stainless Steel	ASTM A276 Type 304



Sizes & Dimensions

Size (mm)	FF	H	L
15	58	75	55



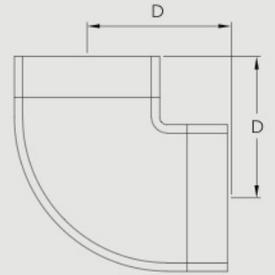
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Investment Casting Stainless Steel Pipe Fittings

**AV-537
S.S. 90° Elbow, PN-25**

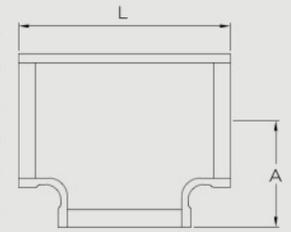
Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	D
1/4"	20
3/8"	23
1/2"	27.5
3/4"	29.5
1"	35
1.1/4"	37
1.1/2"	45
2"	53.5
2.1/2"	69
3"	78
4"	96

**AV-537A
S.S. Reducing Elbow**Available Sizes for AV-537A
1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2"**AV-538
S.S. Tee, PN-25**

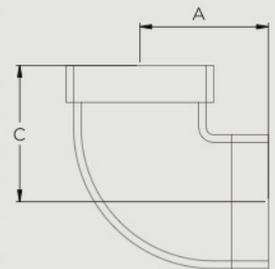
Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	A	L
1/4"	19	38
3/8"	23	44
1/2"	27	55
3/4"	32	60.5
1"	38	70.5
1.1/4"	45	88.5
1.1/2"	48	104
2"	57	114
2.1/2"	69	138
3"	78	156
4"	96	192

**AV-538A
S.S. Reducing Tee**Available Sizes for AV-538A
1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2"**AV-534
S.S. Street Elbow, PN-25**

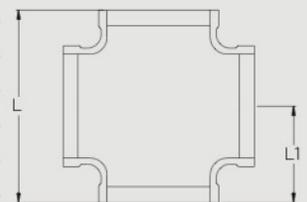
Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	A	C
1/4"	19	27
3/8"	23	29
1/2"	27	35
3/4"	32	40
1"	38	46
1.1/4"	45	54
1.1/2"	48	57
2"	57	70
2.1/2"	83	72
3"	94	78
4"	115	97

**AV-531
S.S. Cross, PN-25**

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

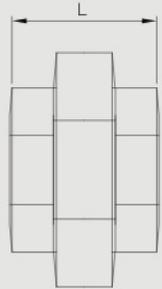
Size	L	L1
1/4"	40	20
3/8"	48	24
1/2"	56	28
3/4"	66	33
1"	80	40
1.1/4"	92	46
1.1/2"	100	50
2"	116	58
2.1/2"	138	69
3"	156	78
4"	192	96



**AV-540
S.S. Union, PN-25**

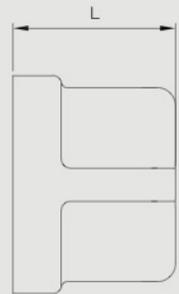
Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	L
1/4"	37
3/8"	37
1/2"	40
3/4"	45
1"	50
1.1/4"	52
1.1/2"	55
2"	59
2.1/2"	74.5
3"	89.5
4"	98.6

**AV-529
S.S. Round Cap, PN-25**

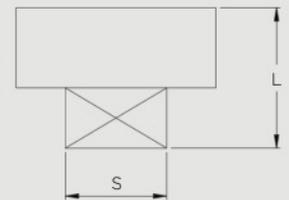
Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	L
1/4"	19
3/8"	20
1/2"	22
3/4"	22
1"	25
1.1/4"	27
1.1/2"	30
2"	35
2.1/2"	39
3"	43
4"	49

**AV-544
S.S. Square Plug / Dummy, PN-25**

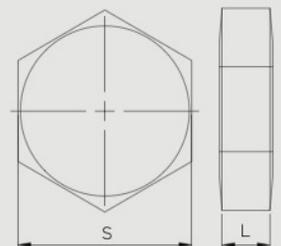
Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	L	S
1/4"	20	8
3/8"	20	8
1/2"	25	13
3/4"	27	16
1"	27	19
1.1/4"	35	22
1.1/2"	35	25
2"	40	29
2.1/2"	42	40
3"	45	44
4"	52	59

**AV-532
S.S. Hex Nut, PN-25**

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	L	S
1/4"	8.5	22
3/8"	9	27
1/2"	9	32
3/4"	10	36
1"	11	46
1.1/4"	12	55
1.1/2"	13	60
2"	14	75
2.1/2"	17.5	90
3"	21	100
4"	22	130

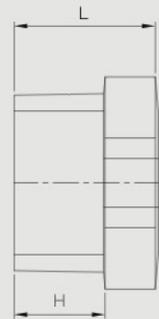




AV-543 S.S. Reducing Hex Bushing, PN-25

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

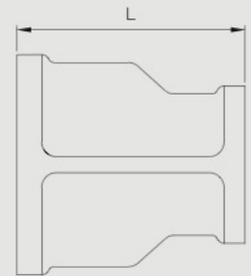
Size	H	L
3/8" x 1/4"	13	17
1/2" x 1/4"	16	22
3/4" x 1/4"	17	23
1" x 3/8"	20	27
1.1/4" x 1/2"	22	30
1.1/2" x 1/2"	22	30
2" x 1/2"	24	34
2.1/2" x 1/2"	29	35
3" x 1/2"	29	38
4" x 1"	45	40



AV-533 S.S. Reducing Socket, PN-25

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

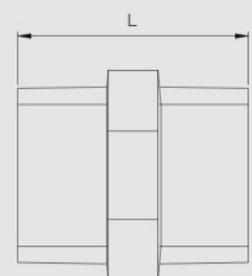
Size	L
3/8" x 1/4"	26
1/2" x 1/4"	34
1/2" x 3/8"	34
3/4" x 1/4"	36
3/4" x 1/2"	36
1" x 3/8"	42
1" x 1/2"	42
1" x 3/4"	42
1.1/4" x 1/2"	48
1.1/4" x 3/4"	48
1.1/4" x 1"	48
1.1/2" x 1.1/4"	52
1.1/2" x 1"	52
1.1/2" x 3/4"	52
2" x 1.1/2"	58
2" x 1.1/4"	58
2" x 1"	58



AV-541 S.S. Hex Nipple, PN-25

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

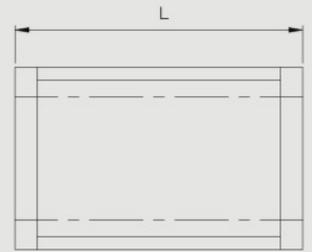
Size	L
1/4"	34
3/8"	36
1/2"	42
3/4"	48
1"	50
1.1/4"	56
1.1/2"	57
2"	60
2.1/2"	62
3"	67.5
4"	80



**AV-539
S.S. Socket, PN-25**

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

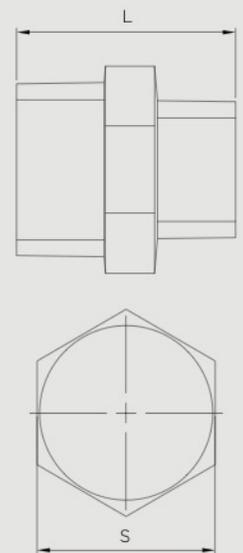
Size	D
1/4"	24
3/8"	26
1/2"	37
3/4"	37
1"	45
1.1/4"	50
1.1/2"	50
2"	58
2.1/2"	65
3"	71
4"	83

**AV-535
S.S. Reducing Hex Nipple, PN-25**

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

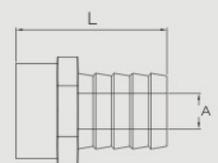
Size	L	S
3/8" x 1/4"	27	19
1/2" x 1/4"	30	23
1/2" x 3/8"	30	23
3/4" x 1/4"	32	29
3/4" x 3/8"	32	29
3/4" x 1/2"	32	39
1" x 3/8"	35	36
1" x 1/2"	38	36
1" x 3/4"	38	36
1.1/4" x 1/2"	42	45
1.1/4" x 3/4"	42	45
1.1/4" x 1"	42	45
1.1/2" x 1.1/4"	44	51
2" x 1.1/2"	53	62
2 x 1.1/4"	53	62

Size	L	S
2" x 1"	52	62
2.1/2" x 1"	55	80
3" x 1"	58	95
4" x 1"	71	120

**AV-542
S.S. Hose Nipple, PN-25**

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	A	L
1/4"	4	43
3/8"	6	49
1/2"	7	56
3/4"	15	60
1"	20	69
1.1/4"	26	70
1.1/2"	34	80
2"	44	88
2.1/2"	56	136
3"	70	147
4"	90	158



**AV-547
S.S. Coupling, PN-25**

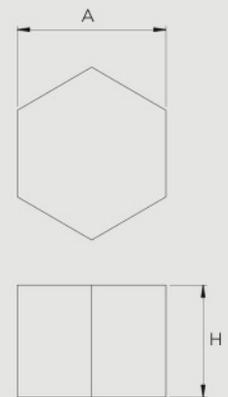
Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	L	W
1/4"	25	18
3/8"	25	21
1/2"	33	26
3/4"	35	32
1"	42	40
1-1/4"	46	47
1-1/2"	46	54
2"	55	66
2.1/2"	65	82
3"	71	95
4"	83	122

**AV-530
S.S. Hex Cap, PN-25**

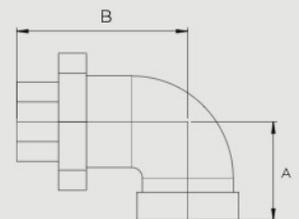
Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	A	H
1/4"	17	18.5
3/8"	20	19.5
1/2"	25	21
3/4"	30	22
1"	38	25
1-1/4"	47	27
1-1/2"	53	30
2"	65	35
2.1/2"	80	39
3"	96	43
4"	123	49

**AV-536
S.S. Elbow Union, PN-25**

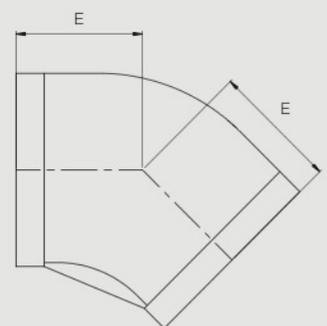
Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	A	B
3/8"	28	59
1/2"	32	63
3/4"	37	70
1"	44	70
1-1/4"	48	77
1-1/2"	57	82
2"	60	98

**AV 545
S.S. Elbow 45°, PN-25**

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

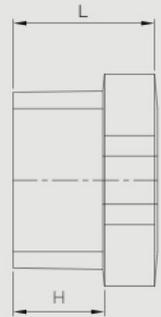
Size	E
1/4"	17
3/8"	19
1/2"	21
3/4"	25
1"	29
1.1/4"	33
1.1/2"	37
2"	42
2.1/2"	49
3"	54
4"	64



**AV-546
S.S. Hex Head Plug, PN-25**

Threading	BSP / NPT
Grade	CF8 (SS 304) / CF8M (SS 316)
Tolerance	±1.5mm
Pressure Rating	PN-25 (Hyd. 30kg)
Max. Working Pressure	356 Psig
Application Medium	Food Processing
Also available in CF8M (SS 316)	

Size	H	L
1/4"	12	16
3/8"	13	17
1/2"	16	22
3/4"	17	23
1"	20	27
1.1/4"	22	30
1.1/2"	22	30
2"	24	34
2.1/2"	29	35
3"	29	38
4"	45	40





ATAM

Investment Casting Valves

**ATAM**

Investment Casting Stainless Steel (CF8) Union Bonnet Globe Valve No.9, Screwed Ends, PN-25

IC-01

Pressure / Class Rating	PN-25
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Union Bonnet, Inside Screw, Rising Stem With Backseat Arrangement, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Stainless Steel (Type 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 545 Psig (Hyd.), Seat: 400 Psig (Hyd.)
Application Medium	Food Processing



Suitable for

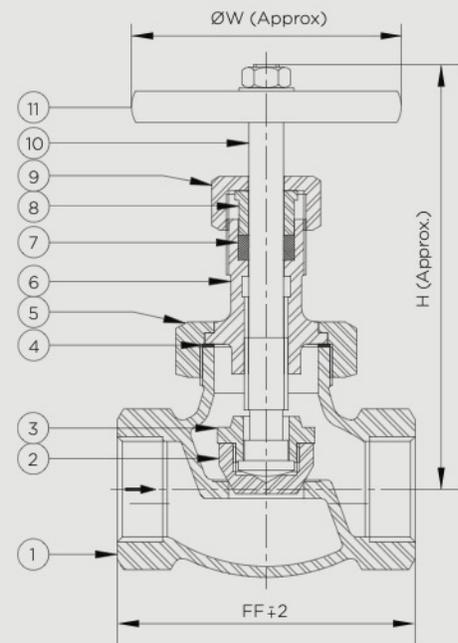
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Disc	1	Stainless Steel	ASTM A 276 Type 304
3	Disc Nut	1	Stainless Steel	ASTM A 276 Type 304
4	Gasket	1	PTFE	-
5	Union Nut	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
6	Bonnet	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
7	Packing	1	PTFE	-
8	Gland	1	Stainless Steel	ASTM A 276 Type 304
9	Gland Nut	1	Stainless Steel	ASTM A 276 Type 304
10	Stem	1	Stainless Steel	ASTM A 276 Type 304
11	Handwheel	1	Aluminium	-



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H	ØW
15	1/2"	74	110	65
20	3/4"	85	135	70
25	1"	95	160	85
32	1.1/4"	110	170	95
40	1.1/2"	118	200	120
50	2"	145	220	150

**ATAM**

Investment Casting Stainless Steel (CF8) Globe Valve No.5 Guided Disc, Screwed Ends, PN-20

IC-06

Pressure / Class Rating	PN-20
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Guided Disc
Trim	Stainless Steel (Type 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 435 Psig (Hyd.), Seat: 320 Psig (Hyd.)
Application Medium	Food Processing



Suitable for

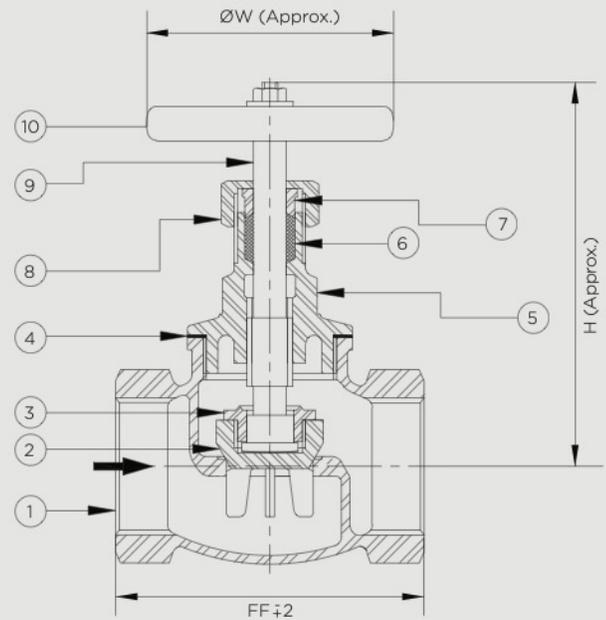
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Disc (Guided)	1	Stainless Steel	ASTM A 276 Type 304
3	Disc Nut	1	Stainless Steel	ASTM A 276 Type 304
4	Gasket	1	PTFE	-
5	Bonnet	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
6	Packing	1	PTFE	-
7	Gland	1	Stainless Steel	ASTM A 276 Type 304
8	Gland Nut	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
9	Stem	1	Stainless Steel	ASTM A 276 Type 304
10	Handwheel	1	Aluminium	-



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H	ØW
15	1/2"	56	100	56
20	3/4"	68	115	70
25	1"	78	125	70
32	1.1/4"	87	137	89
40	1.1/2"	102	140	95
50	2"	119	162	120

**ATAM**

Investment Casting Stainless Steel (CF8) Y-Type Strainer, Screwed Ends, PN-20

IC-14

Pressure / Class Rating	PN-20
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Y-Type with Drain Plug
Trim	Screen: Stainless Steel (Type 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 435 Psig (Hyd.)
Application Medium	Food Processing



Suitable for

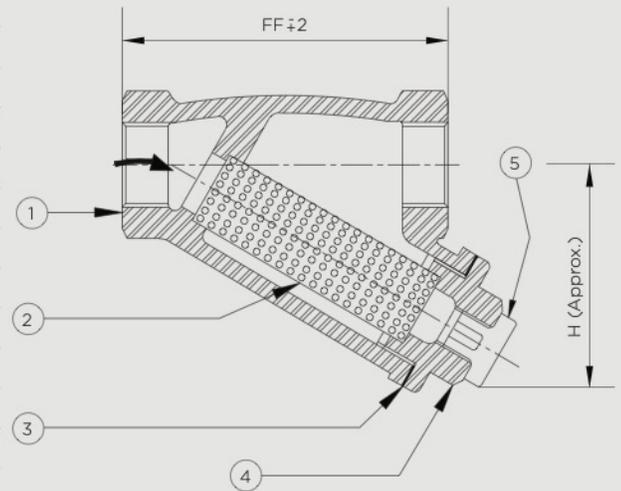
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Screen	1	Stainless Steel	ASTM A 276 Type 304
3	Gasket	1	PTFE	-
4	Cover	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
5	Drain Plug	1	Cast Stainless Steel	ASTM A 351 Gr. CF8



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H
15	1/2"	76	53
20	3/4"	80	53
25	1"	95	65
32	1.1/4"	110	70
40	1.1/2"	130	78
50	2"	150	98

**ATAM**

Investment Casting Stainless Steel (CF8) Horizontal Lift Check Valve No.5 Guided Disc, Screwed Ends, PN-25

IC-29

Pressure / Class Rating	PN-25
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Screwed in Cover
Type of Seat	Integral Seat
Type of Disc	Renewable Guided Disc
Trim	Stainless Steel (Type 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 545 Psig (Hyd.), Seat: 400 Psig (Hyd.)
Application Medium	Food Processing



Suitable for

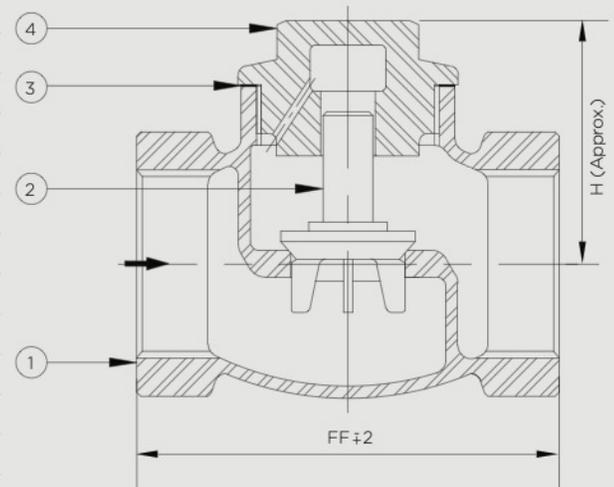
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
Other screwed end specifications can be provided on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Disc (Guided)	1	Stainless Steel	ASTM A 276 Type 304
3	Gasket	1	PTFE	-
4	Cover	1	Cast Stainless Steel	ASTM A 351 Gr. CF8



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H
15	1/2"	56	42
20	3/4"	68	50
25	1"	78	60
32	1.1/4"	87	64
40	1.1/2"	102	74
50	2"	119	85

**ATAM**

Investment Casting Stainless Steel (CF8) Union Cover Horizontal Lift Check Valve No.9, Screwed Ends, PN-25

IC-34

Pressure / Class Rating	PN-25
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Union Cover
Type of Seat	Integral Seat
Type of Disc	Renewable Guided Disc
Trim	Stainless Steel (Type 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 545 Psig (Hyd.), Seat: 400 Psig (Hyd.)
Application Medium	Food Processing



Suitable for

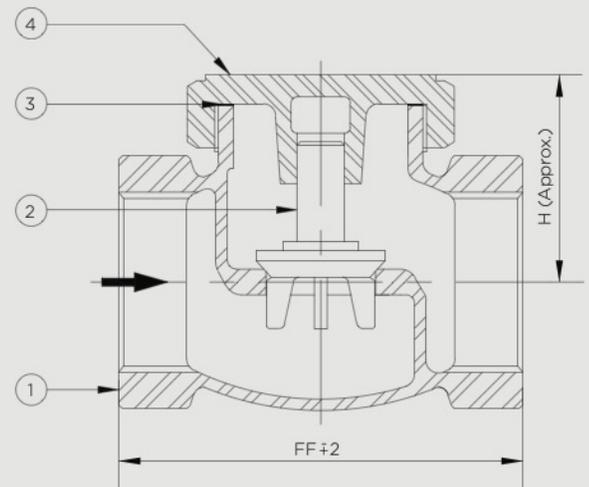
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
Other screwed end specifications can be provided on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	AISI A 351 Gr. CF8
2	Disc (Guided)	1	Stainless Steel	ASTM A 276 Type 304
3	Gasket	1	PTFE	-
4	Union Cover	1	Cast Stainless Steel	AISI A 351 Gr. CF8



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H
15	1/2"	70	45
20	3/4"	85	55
25	1"	95	65
32	1.1/4"	110	70
40	1.1/2"	118	75
50	2"	145	90

**ATAM**

Investment Casting Stainless Steel (CF8) Globe Valve No. 4, Screwed Ends, PN-16

IC-40

Pressure / Class Rating	PN-16
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Screwed in Bonnet, Inside Screw, Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Type of Disc	Renewable Disc
Trim	Stainless Steel (Type 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 350 Psig (Hyd.), Seat: 255 Psig (Hyd.)
Application Medium	Food Processing



Suitable for

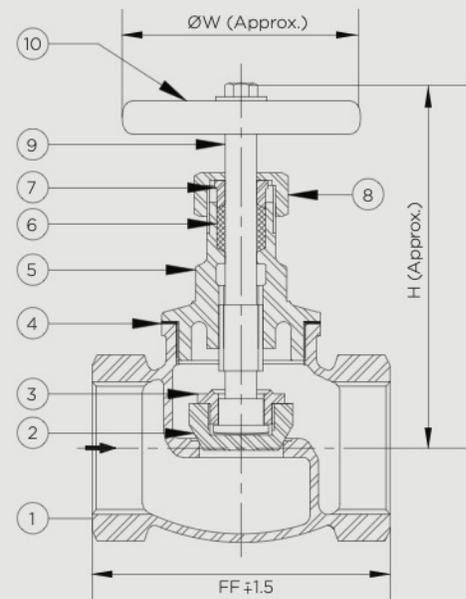
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Disc	1	Stainless Steel	ASTM A 276 Type 304
3	Disc Nut	1	Stainless Steel	ASTM A 276 Type 304
4	Gasket	1	PTFE	-
5	Bonnet	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
6	Packing	1	PTFE	-
7	Gland	1	Stainless Steel	ASTM A 276 Type 304
8	Gland Nut	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
9	Stem	1	Stainless Steel	ASTM A 276 Type 304
10	Handwheel	1	Aluminium	-



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H	ØW
15	1/2"	49	75	50
20	3/4"	55	90	60
25	1"	67	100	65
32	1.1/4"	76	110	75
40	1.1/2"	82	120	85
50	2"	99	130	95

**ATAM**

Investment Casting Stainless Steel (CF8) Swing Check Valve, Screwed Ends, PN-16

IC-76

Pressure / Class Rating	PN-16
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Screwed in Cover
Type of Seat	Integral Seat
Trim	Stainless Steel (Type 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 350 Psig (Hyd.), Seat: 255 Psig (Hyd.)
Application Medium	Food Processing



Suitable for

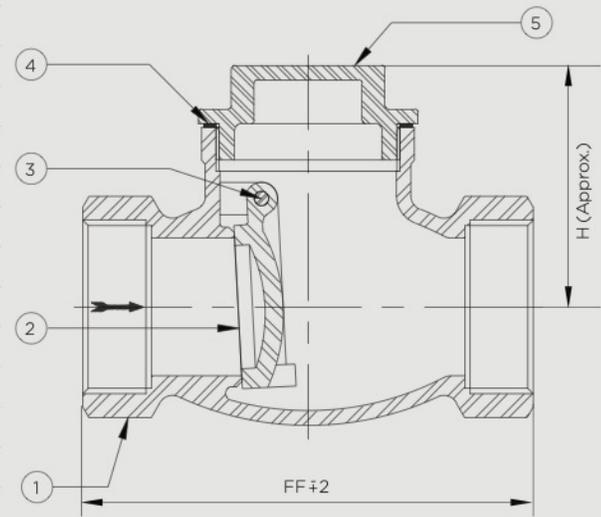
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
Other screwed end specifications can be provided on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Disc	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
3	Hinge Pin	1	Stainless Steel	ASTM A 276 Type 304
4	Gasket	1	PTFE	-
5	Cover	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
6	Side Plug	1	Cast Stainless Steel	ASTM A 351 Gr. CF8



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H
15	1/2"	65	-
20	3/4"	78	-
25	1"	95	55
32	1.1/4"	115	60
40	1.1/2"	125	70
50	2"	138	85

Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	One Piece Design, Spring Loaded, Vertical Type
Type of Seat	Integral Seat
Type of Disc	Renewable Guided Disc
Trim	Stainless Steel (Type 304) with Rubber O-Ring Facing
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 300 Psig (Hyd.), Seat: 200 Psig (Hyd.), Seat: 80 Psig (Air)



Suitable for

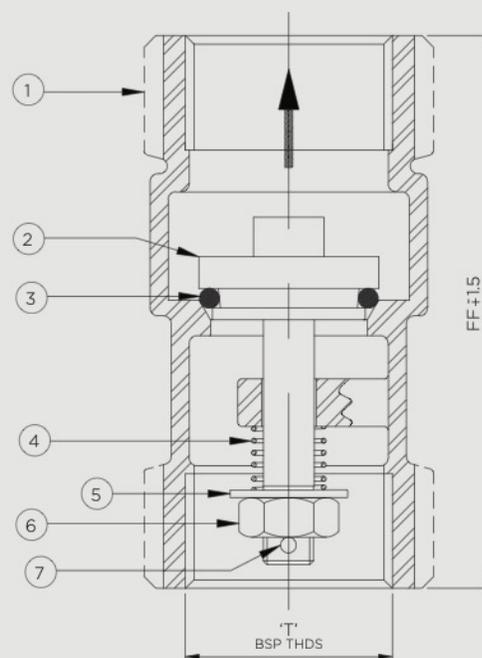
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
 Other screwed end specifications can be provided on request.

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Disc Guide	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
3	O-Ring	1	Synthetic Rubber	-
4	Spring	1	Stainless Steel	AISI 304
5	Washer	1	Stainless Steel	-
6	Nut	1	Stainless Steel	-
7	Pin	1	Stainless Steel	-



Sizes & Dimensions

Size (mm)	Size (inches)	FF	T
15	1/2"	65	1/2"
20	3/4"	70	3/4"
25	1"	75	1"
32	1.1/4"	85	1.1/4"
40	1.1/2"	95	1.1/2"
50	2"	103	2"

**ATAM**

Investment Casting Stainless Steel (CF8) Multi Utility Check Valve, Screwed Ends, PN-16

IC-87

Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Two Piece Design, Screwed In Bonnet, Spring Loaded, Suitable for Both Horizontal & Vertical Line
Type of Seat	Integral Seat
Type of Disc	Renewable Guided Disc
Trim	Stainless Steel (Type 304) with Rubber O-Ring Facing
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 350 Psig (Hyd.), Seat: 255 Psig (Hyd.), Seat: 80 Psig (Air)



Suitable for

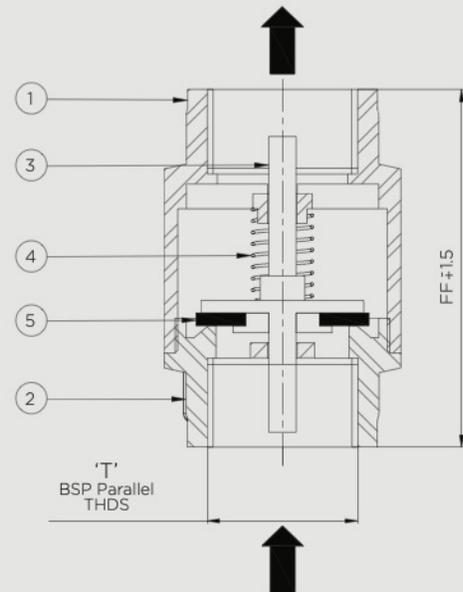
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Connector	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
3	Disc Guide	1	Stainless Steel	AISI 304
4	Spring	1	Stainless Steel	AISI 304
5	Disc	1	EPDM (Rubber)	-



Sizes & Dimensions

Size (mm)	Size (inches)	FF	T
15	1/2"	54	1/2"
20	3/4"	62	3/4"
25	1"	72	1"
40	1.1/2"	83	1.1/2"
50	2"	95	2"

**ATAM**

Investment Casting Stainless Steel (CF8) Gate Valve, Screwed Ends, PN-16

IC-99

Pressure / Class Rating	PN-16
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Screwed in Bonnet, Inside Screw, Non Rising Stem, Handwheel Operated
Type of Seat	Integral Seat
Trim	Stainless Steel (Type 304)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 350 Psig (Hyd.), Seat: 255 Psig (Hyd.)
Application Medium	Food Processing



Suitable for

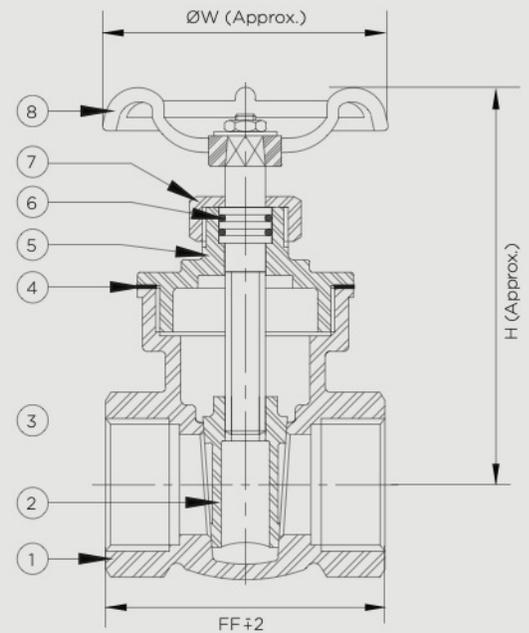
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Wedge	1	Stainless Steel	ASTM A 276 Type 304
3	Stem	1	Stainless Steel	ASTM A 276 Type 304
4	Gasket	1	PTFE	-
5	Bonnet	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
6	Packing	1	Rubber	-
7	Gland Nut	1	Stainless Steel	ASTM A 276 Type 304
8	Handwheel	1	Aluminium	-



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H	$\varnothing W$
15	1/2"	42	70	53
20	3/4"	45	75	53
25	1"	50	90	65
32	1.1/4"	56	105	70
40	1.1/2"	58	115	78
50	2"	65	135	98

**ATAM**

Investment Casting Stainless Steel (CF8) Pressure Reducing Valve, Screwed Ends

AV-132

Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Compact Size, Piston Type
Trim	Stainless Steel (Type 304) with Rubber Disc Facing
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	25 kg/cm ² (Hyd.)
Max. Working Pressure	Max. Upstream Pressure: 25 Bar, Adjustable Downstream Pressure at Max. Inlet Pressure Minimum: 0.8 Bar, Maximum: 5.5 Bar
Max. Working Temperature	80°C



Suitable for

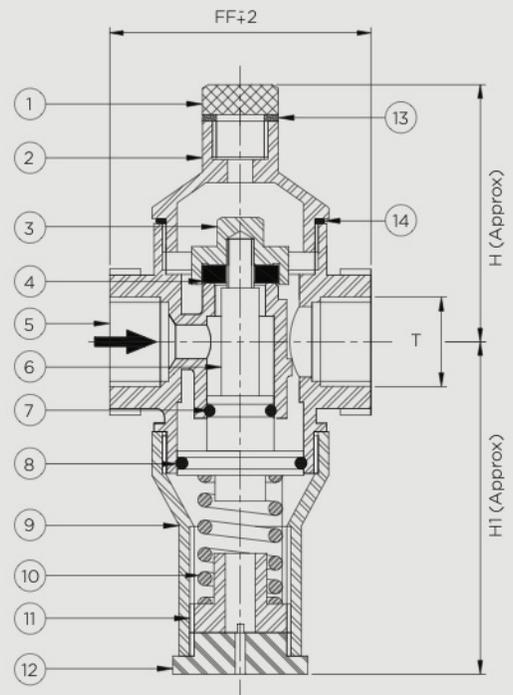
- Water
- Steam
- Gas
- Oil
- Air

Also available in CF8M (SS 316)

HSN Code - 84811000

Material Specification

S.No	Description	No.	Material	Specifications
1	Plug	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Bonnet	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
3	Disc Holder	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
4	Disc	1	Rubber	Nitrile / EPDM
5	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
6	Piston	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
7,8	O-Ring	1	Rubber	Nitrile / EPDM
9	Spring Chamber	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
10	Spring	1	Spring Steel	EN 47 Chrome Plated
11	Adjustable Ring	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
12	Dust Cover	1	Cast Stainless Steel / Plastic	ASTM A 351 Gr. CF8
13	O-Ring / Gasket	1	Rubber / PTFE	-
14	Gasket	1	PTFE / C.A.F.	-



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H	H1	T
15	1/2"	62	61	78	1/2"
20	3/4"	62	61	78	3/4"
25	1"	84	77	94	1"
32	1.1/4"	88	73	108	1.1/4"
40	1.1/2"	88	73	108	1.1/2"
50	2"	91	83.5	109	2"

**ATAM**

Investment Casting Stainless Steel (CF8) Butterfly Handle Ball Valve Two Piece Design, Screwed Ends, PN-40

AV-504

Pressure / Class Rating	PN-40
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Port Opening	Full Bore
Product Description	Two Piece Design, Butterfly Handle Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 60 Bar (Hyd.), Seat: 7 Bar (Air)



Suitable for

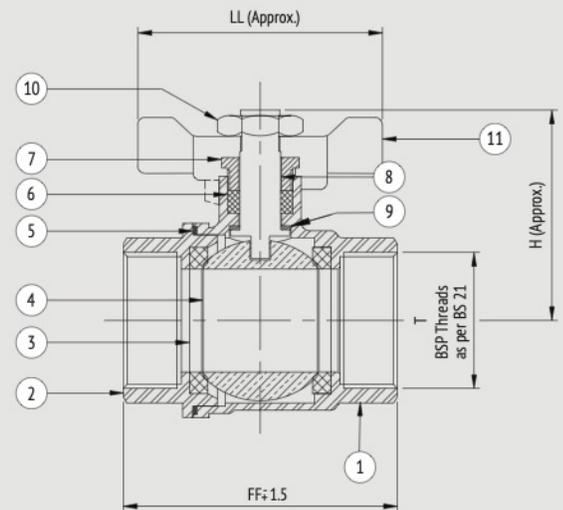
- Water
- Steam
- Gas
- Oil
- Air

Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Connector	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
3	Seat	2	PTFE	-
4	Ball	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
5	Gasket	1	PTFE	-
6	Packing	-	PTFE	-
7	Gland Nut	1	Stainless Steel	ASTM A 276 Type 304
8	Stem	1	Stainless Steel	ASTM A 276 Type 304
9	Stem Seal	1	PTFE	-
10	Stem Nut	1	Stainless Steel	ASTM A 276 Type 202
11	Handle	1	Aluminium	-



Sizes & Dimensions

Size (mm)	FF	H	LL	T
8	48	40	50	1/4"
10	48	40	50	3/8"
15	56	43	50	1/2"

**ATAM**

Investment Casting Stainless Steel (CF8) Ball Valve Two Piece Design, Screwed Ends, PN-40

AV-505

Pressure / Class Rating	PN-40
Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 60 Bar (Hyd.), Seat: 7 Bar (Air)



Suitable for

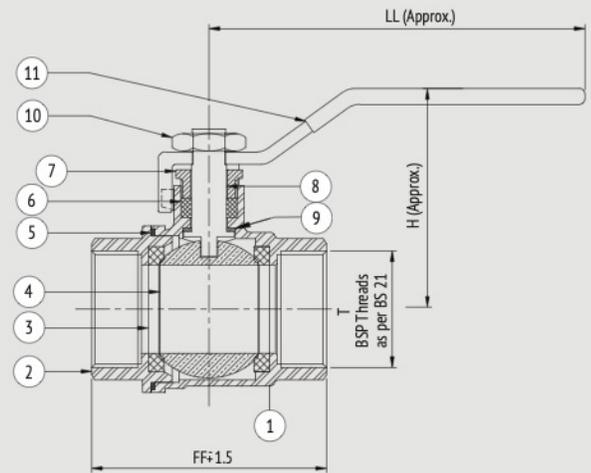
- Water
- Steam
- Gas
- Oil
- Air

Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Connector	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
3	Seat	2	PTFE	-
4	Ball	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
5	Gasket	1	PTFE	-
6	Packing	-	PTFE	-
7	Gland Nut	1	Stainless Steel	ASTM A 276 Type 304
8	Stem	1	Stainless Steel	ASTM A 276 Type 304
9	Stem Seal	1	PTFE	-
10	Stem Nut	1	Stainless Steel	ASTM A 276 Type 202
11	Lever	1	S.S. Sheet	-



Sizes & Dimensions

Size (mm)	FF	H	LL	T
8	48	40	90	1/4"
10	48	40	90	3/8"
15	56	50	99	1/2"
20	60	53	99	3/4"
25	66	68	117	1"
32	80	78	117	1.1/4"
40	89	81	153	1.1/2"
50	108	87	153	2"

**ATAM**

Investment Casting Stainless Steel (CF8) Ball Valve Two Piece Design, Screwed Ends

AV-507

Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	1000 Psig (Hyd.)



Suitable for

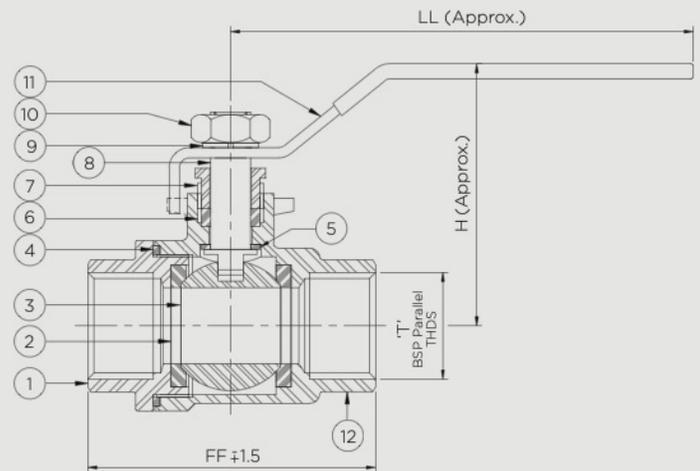
- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Connector	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
2	Seat	2	PTFE	-
3	Ball	1	Cast Stainless Steel	ASTM A 351 Gr. CF8 ASTM A 276 Type 304
4, 5	Gasket, Stem Seal	1	PTFE	-
6	Packing	-	PTFE	-
7	Gland Nut	1	Stainless Steel	ASTM A 276 Type 304
8, 10	Stem, Stem Nut	1	Stainless Steel	ASTM A 76 Type 304
9	Spring Washer	1	Stainless Steel	-
11	Lever	1	Stainless Steel Sheet	-
12	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H	LL	T
8	1/4"	62	50	100	1/4"
10	3/8"	62	50	100	3/8"
15	1/2"	56	52	113	1/2"
20	3/4"	63	57	113	3/4"
25	1"	78	63	116	1"
32	1.1/4"	77	80	145	1.1/4"
40	1.1/2"	98	85	152	1.1/2"
50	2"	108	93	152	2"

**ATAM**

Investment Casting Stainless Steel (CF8M) Ball Valve Two Piece Design, Screwed Ends

AV-508

Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8M)
Port Opening	Full Bore
Product Description	Two Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 316), PTFE Seats
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	1000 Psig (Hyd.)



Suitable for

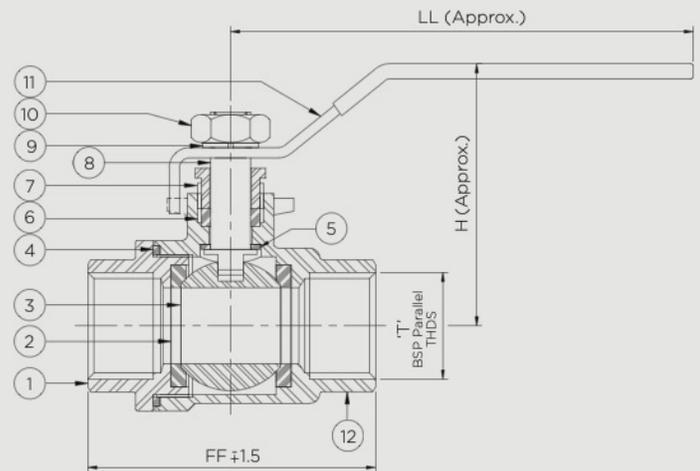
- Water
- Steam
- Gas
- Oil
- Air

Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.
Other screwed end specifications can be provided on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Connector	1	Cast Stainless Steel	ASTM A 351 Gr. CF8M
2	Seat	2	PTFE	-
3	Ball	1	Cast Stainless Steel	ASTM A 351 Gr. CF8M ASTM A 276 Type 316
4, 5	Gasket, Stem Seal	1	PTFE	-
6	Packing	-	PTFE	-
7	Gland Nut	1	Stainless Steel	ASTM A 276 Type 316
8, 10	Stem, Stem Nut	1	Stainless Steel	ASTM A 76 Type 316
9	Spring Washer	1	Stainless Steel	-
11	Lever	1	Stainless Steel Sheet	-
12	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8M



Sizes & Dimensions

Size (mm)	Size (inches)	FF	H	LL	T
8	1/4"	62	50	100	1/4"
10	3/8"	62	50	100	3/8"
15	1/2"	56	52	113	1/2"
20	3/4"	63	57	113	3/4"
25	1"	78	63	116	1"
32	1.1/4"	77	80	145	1.1/4"
40	1.1/2"	98	85	152	1.1/2"
50	2"	108	93	152	2"



Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8M)
Port Opening	Full Bore
Product Description	Three Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 316), PTFE Seats
End Details	Flanged Ends as per ASME B16.5 Class-150 Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)
Application Medium	Nitric Acid, Acetic Acid

Suitable for

- Water
- Steam
- Gas
- Oil
- Air

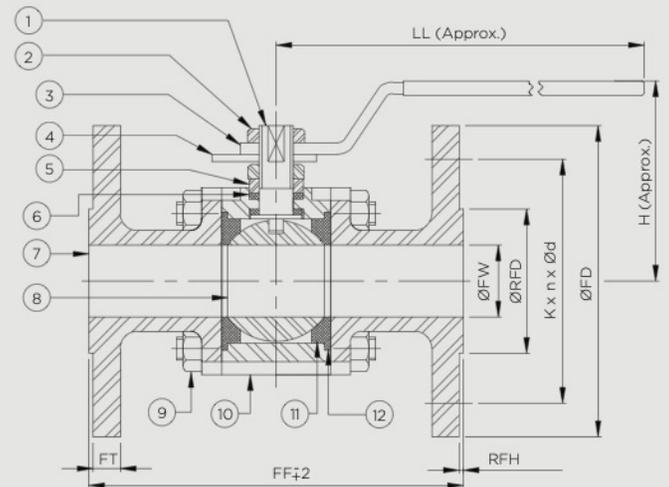


Suitable for steam service with specialized PTFE.
Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1, 2	Stem, Nut	1	Stainless Steel	ASTM A 276 Type 316
3	Lever (Plastic Sleeve)	1	Carbon Steel	-
4	Stopper	1	Carbon Steel	-
5	Gland	1	Stainless Steel	ASTM A 276 Type 316
6	Packing Ring	-	PTFE	-
7	Body Connector	2	Cast Stainless Steel	ASTM A 351 Gr. CF8M
8	Ball	1	Stainless Steel	ASTM A 351 Gr. CF8M
9	Stud / Bolts & Nuts	To Suit	Alloy Steel	ASTM A 193 Gr. B7/B8
			H.T. Steel	ASTM A 194 Gr. 2H/8
10	Body	1	Cast Stainless Steel	AISI A 351 Gr. CF8M
11, 12	Seat, Gasket	2	PTFE	-



K = P.C.D.
n = No. OF HOLES
Ød = DIA. OF HOLES
(Holes are to be spot faced if back face of flange is not possible)

Sizes & Dimensions

Size (mm)	Size (inches)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	ØD	LL	H
15	1/2"	108	8	11	34.9	2	90	60.3	4	5/8"	167	55
20	3/4"	117	8.9	17	42.9	2	100	69.9	4	5/8"	167	60
25	1"	127	9.6	23	50.8	2	110	79.4	4	5/8"	180	72
40	1.1/2"	165	12.7	37	73	2	125	98.4	4	5/8"	206	90
50	2"	178	14.3	49	92.1	2	150	120.7	4	3/4"	230	100
65	2.1/2"	190	15.9	62	104.8	2	180	139.7	4	3/4"	400	155
80	3"	203	17.5	74	127	2	190	152.4	4	3/4"	400	175
100	4"	229	22.3	98	157.2	2	230	190.5	8	3/4"	450	195



Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Port Opening	Full Bore
Product Description	Three Piece Design, Lever Operated (Blow Out Proof Stem)
Type of Seat	Renewable Seat
Trim	Ball & Stem: Stainless Steel (AISI 304), PTFE Seats
End Details	Flanged Ends as per ASME B16.5 Class-150 Raised Face (Drilled)
Test Pressure	Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.), Seat: 7 Bar (Air)
Application Medium	Nitric Acid, Acetic Acid

Suitable for steam service with specialized PTFE.
 Can be provided with Glass Filled PTFE, Graphite Blended PTFE & PEEK Seats on request.

Suitable for

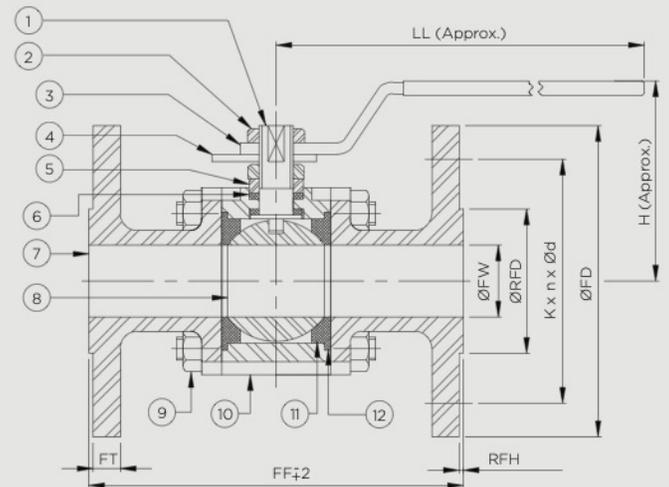
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1, 2	Stem, Nut	1	Stainless Steel	ASTM A 276 Type 304
3	Lever (Plastic Sleeve)	1	Carbon Steel	-
4	Stopper	1	Carbon Steel	-
5	Gland	1	Stainless Steel	ASTM A 276 Type 304
6	Packing Ring	-	PTFE	-
7	Body Connector	2	Cast Stainless Steel	ASTM A 351 Gr. CF8
8	Ball	1	Stainless Steel	ASTM A 351 Gr. CF8
9	Stud / Bolts & Nuts	To Suit	Alloy Steel	ASTM A 193 Gr. B7/B8
			H.T. Steel	ASTM A 194 Gr. 2H/8
10	Body	1	Cast Stainless Steel	AISI A 351 Gr. CF8
11, 12	Seat, Gasket	2	PTFE	-



K = P.C.D.
 n = No. OF HOLES
 Ød = DIA. OF HOLES
 (Holes are to be spot faced if back face of flange is not possible)

Sizes & Dimensions

Size (mm)	Size (inches)	FF	FT	ØFW	ØRFD	RFH	ØFD	K	n	ØD	LL	H
15	1/2"	108	8	11	34.9	2	90	60.3	4	5/8"	167	55
20	3/4"	117	8.9	17	42.9	2	100	69.9	4	5/8"	167	60
25	1"	127	9.6	23	50.8	2	110	79.4	4	5/8"	180	72
40	1.1/2"	165	12.7	37	73	2	125	98.4	4	5/8"	206	90
50	2"	178	14.3	49	92.1	2	150	120.7	4	3/4"	230	100
65	2.1/2"	190	15.9	62	104.8	2	180	139.7	4	3/4"	400	155
80	3"	203	17.5	74	127	2	190	152.4	4	3/4"	400	175
100	4"	229	22.3	98	157.2	2	230	190.5	8	3/4"	450	195

**ATAM**

Investment Casting Stainless Steel (CF8) Non Slam Check Valve, PN-10/16, Class-150

AV-268

Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Spring Loaded
Trim	Stainless Steel (AISI 304)
End Details	Suitable for insertion between Flanges as per ANSI B16.5 Class-150, BSEN 1092-1 PN-10/PN-16/ BS-10 TABLE-E/F
Test Pressure	Body: 24 Bar (Hyd.), Seat: 17.6 Bar (Hyd.)



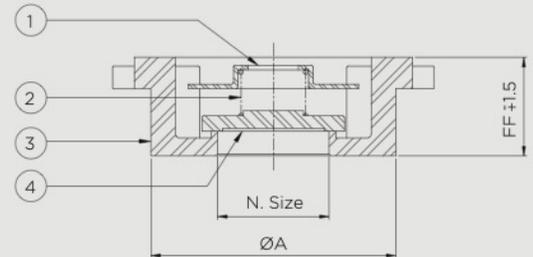
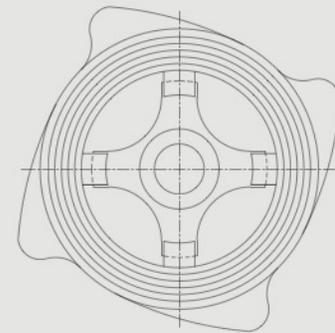
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Spring Cover	1	Stainless Steel	AISI 304
2	Spring	1	Stainless Steel	-
3	Body	1	Cast Stainless Steel	ASTM A 351 Gr. CF8
4	Disc	1	Stainless Steel	AISI 304



Sizes & Dimensions

Size (mm)	Size (inches)	FF	A
15	1/2"	16	38
20	3/4"	20	47
25	1"	22	54
40	1.1/2"	32	76
50	2"	40	93
80	3"	65	100
100	4"	70	107

**ATAM**

Investment Casting Stainless Steel (CF8) Non Slam Check Valve, Class-300

AV-268A

Body Material Cum Standard	Cast Stainless Steel (ASTM A351 Gr. CF8)
Product Description	Spring Loaded
Trim	Stainless Steel (AISI 304)
End Details	Suitable for insertion between Flanges as per ANSI B16.5 Class-300 Raised Face
Test Pressure	Body: 77 Bar (Hyd.), Seat: 56 Bar (Hyd.)

Suitable for

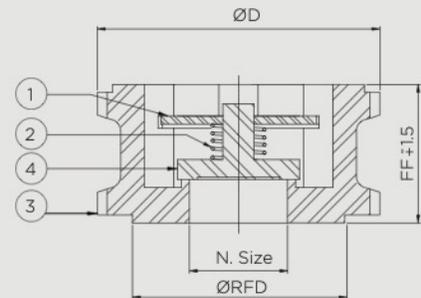
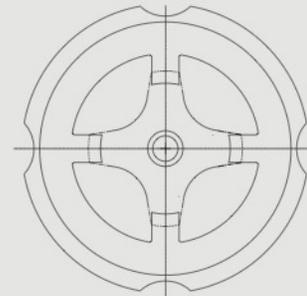
- Water
- Steam
- Gas
- Oil
- Air



HSN Code - 84813000

Material Specification

S.No	Description	No.	Material	Specifications
1	Spring Cover	1	Stainless Steel	AISI 304
2	Spring	1	Stainless Steel	AISI 304
3	Body	1	Cast Stainless Steel	ASTM A 351 CF8
4	Disc	1	S.S./ Cast Stainless Steel	AISI 304 / ASTM A 351 CF8



Sizes & Dimensions

Size (mm)	Size (inches)	ØRFD	FF	ØD
15	1/2"	38	25	50
20	3/4"	46	31	62.5
25	1"	54	35	69
40	1.1/2"	76	45	91
50	2"	95	56	107
80	3"	130	71	145
100	4"	160	80	177

Also available in SS 316

**ATAM**

Investment Casting Stainless Steel (CA15) Thermodynamic Steam Trap, Screwed Ends

AV-270

Body Material Cum Standard	Cast Stainless Steel (ASTM A217 Gr. CA15)
Product Description	Thermodynamic Type with inbuilt Strainer
Trim	13% Cr. (SS 410)
End Details	Screwed Female BSP Parallel Threads (BS-21)
Test Pressure	Body: 900 Psig (Hyd.), Seat: 450 Psig (Hyd.)
Max. Working Temperature	425°C

Other screwed end specifications can be provided on request.



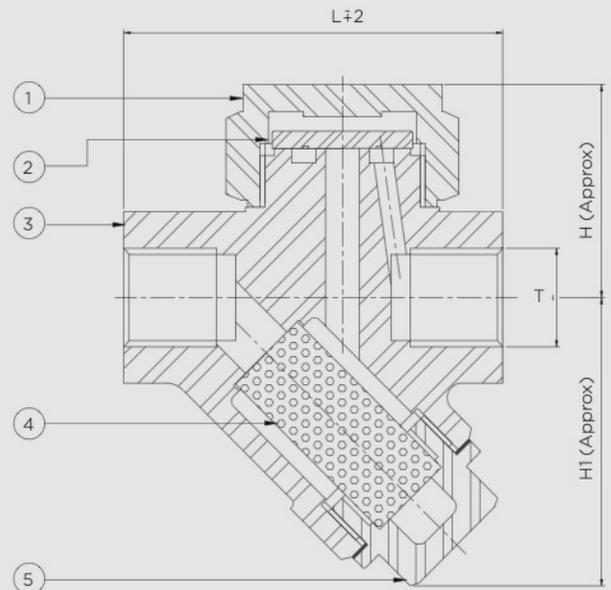
Suitable for

- Water
- Steam
- Gas
- Oil
- Air

HSN Code - 84818030

Material Specification

S.No	Description	No.	Material	Specifications
1	Cover	1	Stainless Steel	AISI 410 / ASTM A 217 Gr. CA 15
2	Disc	1	Stainless Steel	AISI 410 / ASTM A 217 Gr. CA 15
3	Body	1	Stainless Steel	AISI 410 / ASTM A 217 Gr. CA 15
4	Screen	1	Stainless Steel	AISI 410 / ASTM A 217 Gr. CA 15
5	Plug	1	Stainless Steel	AISI 410 / ASTM A 217 Gr. CA 15



Sizes & Dimensions

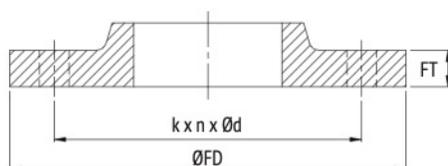
Size (mm)	Size (inches)	L	T	H	H1
15	1/2"	78	1/2"	44	61
20	3/4"	78	3/4"	44	61
25	1.1/4"	88	1.1/4"	48	68
40	1.1/2"	108	1.1/2"	70	88
50	2"	108	2"	70	88

Also available in SS 316

BS-10 Table-D

Nominal Size (MM)	ØF.D	P.C.D	n	Ød	FT		
					C.I	G.M	C.S / F.S
15	95.3	66.7	4	14.3	12.7	6.4	9.5
20	101.6	73	4	14.3	12.7	6.4	9.5
25	114.3	82.6	4	14.3	12.7	7.9	9.5
32	120.7	87.3	4	14.3	15.9	7.9	12.7
40	133.4	98.4	4	14.3	15.9	9.5	12.7
50	152.4	114.3	4	17.5	17.5	9.5	14.3
65	165.1	127	4	17.5	17.5	11.1	14.3
80	184.2	146.1	4	17.5	19.1	12.7	14.3
100	215.9	177.8	4	17.5	19.1	15.9	17.5
125	254	209.6	8	17.5	20.6	17.5	17.5
150	279.4	235	8	17.5	20.6	17.5	17.5
200	336.6	292.1	8	17.5	22.3	19.1	19.1
250	406.4	355.6	8	22.3	25.4	19.1	19.1
300	457.2	406.4	12	22.3	25.4	22.3	22.3
350	527.1	469.9	12	25.4	28.6	25.4	25.4
400	577.9	520.7	12	25.4	28.6	25.4	25.4
450	641.4	584.2	12	25.4	31.8	28.6	28.6
500	704.9	641.4	16	25.4	31.8	31.8	31.8
600	825.5	755.7	16	28.6	34.9	34.9	34.9

For Table-D, E, F & H
 k = P.C.D
 n = No. of holes
 Ød = Diameter of holes



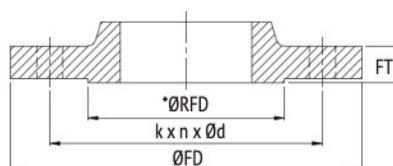
BS-10 Table-F

Nominal Size (MM)	ØF.D	P.C.D	n	Ød	FT		
					C.I	G.M	C.S / F.S
15	95.3	66.7	4	14.3	12.7	7.9	9.5
20	101.6	73	4	14.3	12.7	7.9	9.5
25	120.7	87.3	4	17.5	12.7	9.5	9.5
32	133.4	98.4	4	17.5	15.9	9.5	12.7
40	139.7	104.8	4	17.5	15.9	11.1	12.7
50	165.1	127	4	17.5	19.1	11.1	15.9
65	184.2	146.1	8	17.5	19.1	12.7	15.9
80	203.2	165.1	8	17.5	19.1	14.3	15.9
100	228.6	190.5	8	17.5	22.3	17.5	19.1
125	279.4	235	8	22.3	25.4	19.1	22.3
150	304.8	260.4	12	22.3	25.4	22.3	22.3
200	368.3	323.9	12	22.3	28.6	25.4	25.4
250	431.8	381	12	25.4	28.6	25.4	25.4
300	489	438.2	16	25.4	31.8	28.6	28.6
350	552.5	495.3	16	28.6	34.9	31.8	31.8
400	609.6	552.5	20	28.6	34.9	31.8	31.8
450	673.1	609.6	20	31.8	38.1	34.9	34.9
500	736.6	673.1	24	31.8	41.3	38.1	38.1
600	850.9	781.1	24	34.9	44.5	41.3	41.3

BS-10 Table-E

Nominal Size (MM)	ØF.D	P.C.D	n	Ød	FT		
					C.I	G.M	C.S / F.S
15	95.3	66.7	4	14.3	12.7	6.4	9.5
20	101.6	73	4	14.3	12.7	6.4	9.5
25	114.3	82.6	4	14.3	12.7	7.9	9.5
32	120.7	87.3	4	14.3	15.9	7.9	12.7
40	133.4	98.4	4	14.3	15.9	9.5	12.7
50	152.4	114.3	4	17.5	19.1	9.5	14.3
65	165.1	127	4	17.5	19.1	11.1	14.3
80	184.2	146.1	4	17.5	19.1	12.7	14.3
100	215.9	184.2	8	17.5	22.3	15.9	17.5
125	254	209.6	8	17.5	22.3	17.5	17.5
150	279.4	235	8	22.3	22.3	17.5	17.5
200	336.6	292.1	8	22.3	25.4	19.1	19.1
250	406.4	355.6	12	22.3	25.4	22.3	22.3
300	457.2	406.4	12	25.4	28.6	25.4	25.4
350	527.1	469.9	12	25.4	31.8	25.4	25.4
400	577.9	520.7	12	25.4	31.8	25.4	25.4
450	641.4	584.2	16	25.4	34.9	28.6	28.6
500	704.9	641.4	16	25.4	38.1	31.8	31.8
600	825.5	755.7	16	31.8	41.3	38.1	38.1

* For Table-H - Steel Flanges only
 k = P.C.D
 n = No. of holes
 Ød = Diameter of holes



BS-10 Table-H

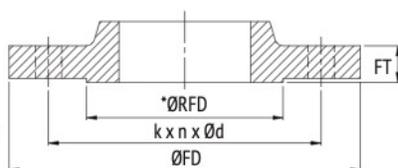
Nominal Size (MM)	ØF.D	P.C.D	n	Ød	FT			ØRFD
					C.I	G.M	C.S / F.S	
15	114.3	82.6	4	17.5	15.9	9.5	12.7	57.2
20	114.3	82.6	4	17.5	15.9	9.5	12.7	57.2
25	120.7	87.3	4	17.5	19.1	11.1	14.3	63.5
32	133.4	98.4	4	17.5	22.3	11.1	17.5	76.2
40	139.7	104.8	4	17.5	22.3	12.7	17.5	82.6
50	165.1	127	4	17.5	25.4	12.7	19.1	101.6
65	184.2	146.1	8	17.5	25.4	14.3	19.1	114.3
80	203.2	165.1	8	17.5	28.6	15.9	22.3	127
100	228.6	190.5	8	17.5	31.8	19.1	25.4	152.4
125	279.4	235	8	22.3	34.9	22.3	28.6	177.8
150	304.8	260.4	12	22.3	34.9	25.4	28.6	209.6
200	368.3	323.9	12	22.3	38.1	31.8	31.8	260.4
250	431.8	381	12	25.4	41.3	34.9	34.9	311.2
300	489	438.2	16	25.4	44.5	38.1	38.1	362
350	552.5	495.3	16	28.6	47.6	41.3	41.3	419.1
400	609.6	552.5	20	28.6	50.8	44.5	44.5	482.6
450	673.1	609.6	20	31.8	54	47.6	47.6	533.4
500	736.6	673.1	24	31.8	57.2	50.8	50.8	596.9
600	850.9	781.1	24	34.9	63.5	57.2	57.2	698.5

BS-10 Table-J

Nominal Size (MM)	ØF.D	P.C.D	n	Ød	FT		ØRFD
					G.M	CS / F.S	
15	114.3	82.6	4	17.5	15.9	15.9	57.2
20	114.3	82.6	4	17.5	15.9	15.9	57.2
25	120.7	87.3	4	17.5	19.1	19.1	63.5
32	133.4	98.4	4	17.5	19.1	19.1	76.2
40	139.7	104.8	4	17.5	22.3	22.3	82.6
50	165.1	127	4	22.3	25.4	25.4	101.6
65	184.2	146.1	8	22.3	25.4	25.4	114.3
80	203.2	165.1	8	22.3	31.8	31.8	127
100	228.6	190.5	8	22.3	34.9	34.9	152.4
125	279.4	235	8	25.4	38.1	38.1	177.8
150	304.8	260.4	12	25.4	38.1	38.1	209.6
200	368.3	323.9	12	25.4	41.3	41.3	260.4
250	431.8	381	12	28.6	-	47.6	311.2
300	489	438.2	16	28.6	-	50.8	362
350	552.5	495.3	16	31.8	-	54	419.1
400	609.6	552.5	20	31.8	-	57.2	482.6
450	673.1	609.6	20	34.9	-	60.3	533.4
500	736.6	673.1	24	34.9	-	63.5	596.9
600	850.9	781.1	24	38.1	-	69.9	698.5

* For Steel Flanges only

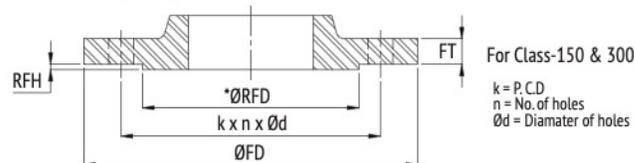
For Table-J & K
 k = P.C.D
 n = No. of holes
 Ød = Diameter of holes



BS-10 Table-K

Nominal Size (MM)	ØF.D	P.C.D	n	Ød	FT		ØRFD
					G.M	CS / F.S	
15	114.3	82.6	4	17.5	19.1	19.1	57.2
20	114.3	82.6	4	17.5	19.1	19.1	57.2
25	127	95.3	4	17.5	22.3	22.3	63.5
32	133.4	98.4	4	17.5	22.3	22.3	76.2
40	152.4	114.3	4	22.3	25.4	25.4	82.6
50	165.1	127	8	17.5	25.4	25.4	101.6
65	184.2	146.1	8	22.3	28.6	28.6	114.3
80	203.2	165.1	8	22.3	31.8	31.8	127
100	241.3	196.9	8	25.4	34.9	34.9	152.4
125	279.4	235	12	25.4	41.3	41.3	177.8
150	304.8	260.4	12	25.4	41.3	41.3	209.6
200	368.3	317.5	12	28.6	47.6	47.6	260.4
250	431.8	381	16	28.6	-	50.8	311.2
300	489	431.8	16	31.8	-	57.2	362
350	571.5	508	16	34.9	-	60.3	419.1
400	628.7	565.2	20	34.9	-	66.7	482.6
450	717.6	654.1	20	38.1	-	76.2	533.4
500	787.4	711.2	20	41.3	-	82.6	596.9

* For Steel Flanges only



For Class-150 & 300
 k = P.C.D
 n = No. of holes
 Ød = Diameter of holes

ASME B16.5 Class-150

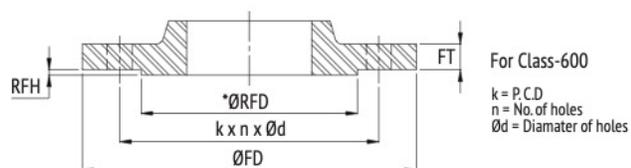
Nominal Size (MM)	ØF.D	K	n	Ød	ØRFD	RFH	FT
15	90	60.3	4	5/8"	34.9	2	8
20	100	69.9	4	5/8"	42.9	2	8.9
25	110	79.4	4	5/8"	50.8	2	9.6
32	115	88.9	4	5/8"	63.5	2	11.2
40	125	98.4	4	5/8"	73	2	12.7
50	150	120.7	4	3/4"	92.1	2	14.3
65	180	139.7	4	3/4"	104.8	2	15.9
80	190	152.4	4	3/4"	127	2	17.5
100	230	190.5	8	3/4"	157.2	2	22.3
125	255	215.9	8	7/8"	185.7	2	22.3
150	280	241.3	8	7/8"	215.9	2	23.9
200	345	298.5	8	7/8"	269.9	2	27
250	405	362	12	1"	323.8	2	28.6
300	485	431.8	12	1"	381	2	30.2
350	535	476.3	12	1.1/8"	412.8	2	33.4
400	595	539.8	16	1.1/8"	469.9	2	35
450	635	577.9	16	1.1/4"	533.4	2	38.1
500	700	635	20	1.1/4"	584.2	2	41.3
600	815	749.3	20	1.3/8"	692.2	2	46.1

ASME B16.5 Class-300

Nominal Size (MM)	ØF.D	K	n	Ød	ØRFD	RFH	FT
15	95	66.7	4	5/8"	34.9	2	12.7
20	115	82.6	4	3/4"	42.9	2	14.3
25	125	88.9	4	3/4"	50.8	2	15.9
32	135	98.4	4	3/4"	63.5	2	17.5
40	155	114.3	4	7/8"	73	2	19.1
50	165	127	8	3/4"	92.1	2	20.7
65	190	149.2	8	7/8"	104.8	2	23.9
80	210	168.3	8	7/8"	127	2	27
100	255	200	8	7/8"	157.2	2	30.2
125	280	235	8	7/8"	185.7	2	33.4
150	320	269.9	12	7/8"	215.9	2	35
200	380	330.2	12	1"	269.9	2	39.7
250	445	387.4	16	1.1/8"	323.8	2	46.1
300	520	450.8	16	1.1/4"	381	2	49.3
350	585	514.4	20	1.1/4"	412.8	2	52.4
400	650	571.5	20	1.3/8"	469.9	2	55.6
450	710	628.6	24	1.3/8"	533.4	2	58.8
500	775	685.8	24	1.3/8"	584.2	2	62
600	915	812.8	24	1.5/8"	692.2	2	68.3

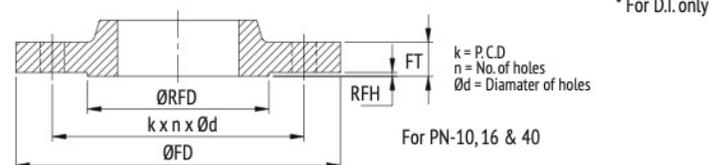
ASME B16.5 Class-600

Nominal Size (MM)	ØF.D	K	n	Ød	ØRFD	RFH	FT
15	95	66.7	4	5/8"	34.9	7	14.3
20	115	82.6	4	3/4"	42.9	7	15.9
25	125	88.9	4	3/4"	50.8	7	17.5
32	135	98.4	4	3/4"	63.5	7	20.7
40	155	114.3	4	7/8"	73	7	22.3
50	165	127	8	3/4"	92.1	7	25.4
65	190	149.2	8	7/8"	104.8	7	28.6
80	210	168.3	8	7/8"	127	7	31.8
100	275	215.9	8	1"	157.2	7	38.1
125	330	266.7	8	1.1/8"	185.7	7	44.5
150	355	292.1	12	1.1/8"	215.9	7	47.7
200	420	349.2	12	1.1/4"	269.9	7	55.6
250	510	431.8	16	1.3/8"	323.8	7	63.5
300	560	489	20	1.3/8"	381	7	66.7



BSEN 1092-2 PN-10

Nominal Size (MM)	ØF.D	ØRFD	RFH	K	n	Ød	FT	
							C.I	D.I
15	95	46	2	65	4	14	14	14
20	105	56	2	75	4	14	16	16
25	115	65	3	85	4	14	16	16
32	140	76	3	100	4	19	18	18
40	150	84	3	110	4	19	18	19
50	165	99	3	125	4	19	20	19
65	185	118	3	145	4	19	20	19
80	200	132	3	160	8	19	22	19
100	220	156	3	180	8	19	24	19
125	250	184	3	210	8	19	26	19
150	285	211	3	240	8	23	26	19
200	340	266	3	295	8	23	26	20
250	395/400*	319	3	350	12	23	28	22
300	445/455*	370	4	400	12	23	28	24.5
350	505	429	4	460	16	23	30	24.5
400	565	480	4	515	16	28	32	24.5
450	615	530	4	565	20	28	32	25.5
500	670	582	4	620	20	28	34	26.5



BSEN 1092-2 PN-16

Nominal Size (MM)	ØF.D	ØRFD	RFH	K	n	Ød	FT	
							C.I	D.I
15	95	46	2	65	4	14	14	14
20	105	56	2	75	4	14	16	16
25	115	65	3	85	4	14	16	16
32	140	76	3	100	4	19	18	18
40	150	84	3	110	4	19	18	19
50	165	99	3	125	4	19	20	19
65	185	118	3	145	4	19	20	19
80	200	132	3	160	8	19	22	19
100	220	156	3	180	8	19	24	19
125	250	184	3	210	8	19	26	19
150	285	211	3	240	8	23	26	19
200	340	266	3	295	12	23	30	20
250	405/400*	319	3	355	12	28	32	22
300	460/455*	370	4	410	12	28	32	24.5
350	520	429	4	470	16	28	36	26.5
400	580	480	4	525	16	31	38	28
450	640	548	4	585	20	31	40	30
500	715	609	4	650	20	34	42	31.5

* For D.I. only

BSEN 1092-1 PN-40 (C.S.)

Nominal Size (MM)	ØF.D	ØRFD	RFH	K	n	Ød	FT
15	95	45	2	65	4	14	16
20	105	58	2	75	4	14	18
25	115	68	2	85	4	14	18
32	140	78	2	100	4	18	18
40	150	88	3	110	4	18	18
50	165	102	3	125	4	18	20
65	185	122	3	145	8	18	22
80	200	138	3	160	8	18	24
100	235	162	3	190	8	22	24
125	270	188	3	220	8	26	26
150	300	218	3	250	8	26	28
200	375	285	3	320	12	30	34
250	450	345	3	385	12	33	38
300	515	410	4	450	16	33	42
350	580	465	4	510	16	36	46
400	660	535	4	585	16	39	50
450	685	560	4	610	20	39	57
500	755	615	4	670	20	42	57



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